



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 9, 2017 – 02:54 pm GMT

PDB ID : 5TGM
Title : Crystal structure of the *S.cerevisiae* 80S ribosome in complex with the A-site bound aminoacyl-tRNA analog ACCA-Pro
Authors : Melnikov, S.; Mailliot, J.; Yusupov, M.
Deposited on : 2016-09-28
Resolution : 3.50 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : recalc28906
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28906

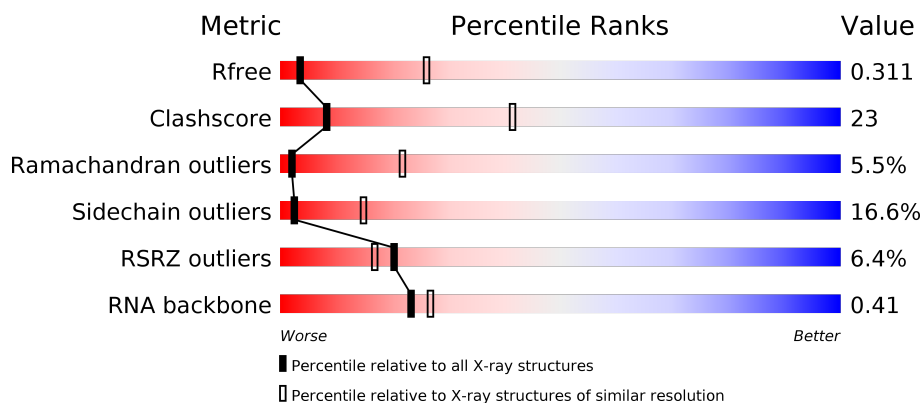
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	100719	1195 (3.60-3.40)
Clashscore	112137	1322 (3.60-3.40)
Ramachandran outliers	110173	1283 (3.60-3.40)
Sidechain outliers	110143	1284 (3.60-3.40)
RSRZ outliers	101464	1226 (3.60-3.40)
RNA backbone	2435	1024 (4.10-2.86)

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

Mol	Chain	Length	Quality of chain
1	2	1812	<div> <div>7%</div> <div>7% 32% 45% 14%</div> </div>
2	S0	206	<div> <div>25%</div> <div>18% 69% 12%</div> </div>
2	s0	206	<div> <div>8%</div> <div>78% 20%</div> </div>
3	S1	216	<div> <div>5%</div> <div>21% 57% 20%</div> </div>

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	s1	216	
4	S2	217	
4	s2	217	
5	S3	223	
5	s3	223	
6	S4	260	
6	s4	260	
7	S5	206	
7	s5	206	
8	S6	226	
8	s6	226	
9	S7	186	
9	s7	186	
10	S8	188	
10	s8	188	
11	S9	185	
11	s9	185	
12	C0	96	
13	C1	155	
13	c1	155	
14	C2	124	
14	c2	124	
15	C3	150	
15	c3	150	
16	C4	128	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
16	c4	128	
17	C5	135	
17	c5	135	
18	C6	142	
18	c6	142	
19	C7	120	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	110	
22	d0	110	
23	D1	87	
23	d1	87	
24	D2	129	
24	d2	129	
25	D3	144	
25	d3	144	
26	D4	134	
26	d4	134	
27	D5	70	
27	d5	70	
28	D6	97	
28	d6	97	
29	D7	81	


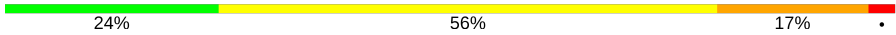

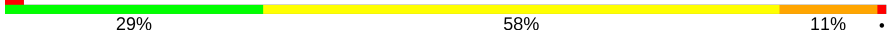
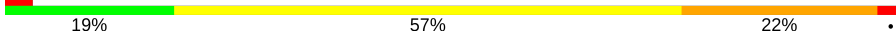

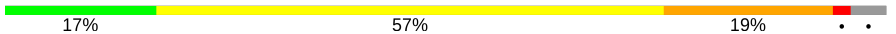

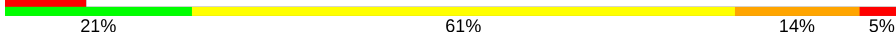

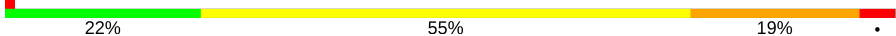

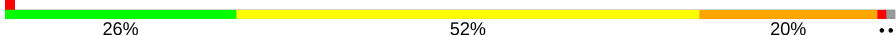

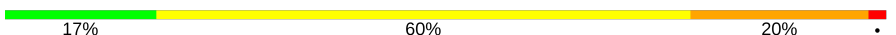





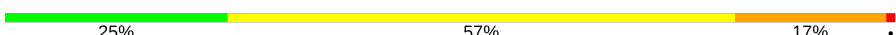




Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	d7	81	
30	D8	63	
30	d8	63	
31	D9	53	
31	d9	53	
32	E0	62	
32	e0	62	
33	E1	76	
33	e1	76	
34	SR	318	
35	SM	159	
36	1	3149	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	252	
39	l2	252	
40	L3	386	
40	l3	386	
41	L4	361	
41	l4	361	
42	L5	296	
42	l5	296	
43	L6	175	

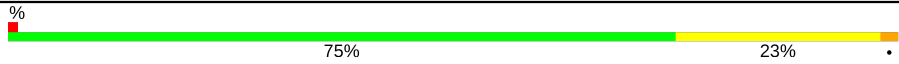
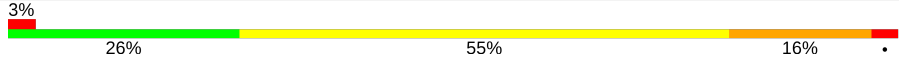

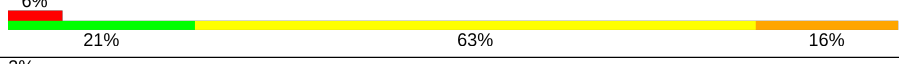
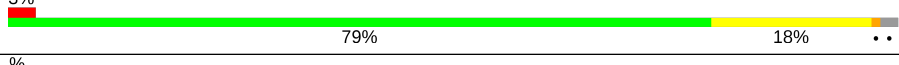
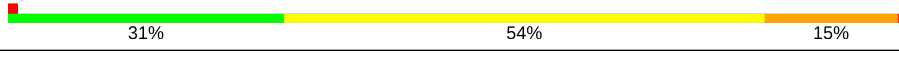
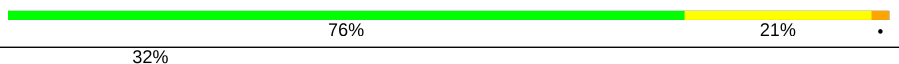
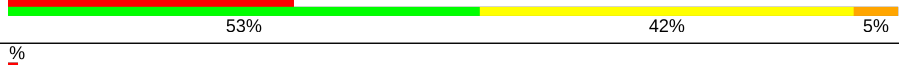
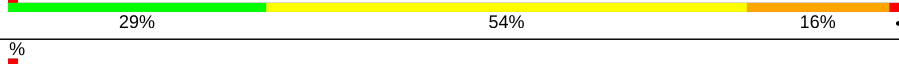

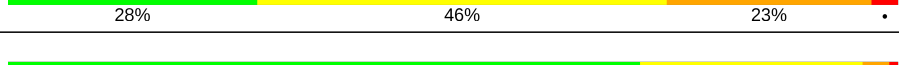
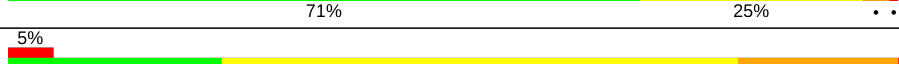

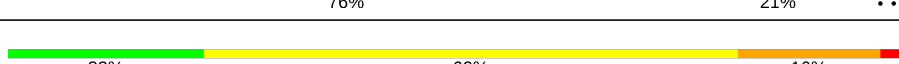
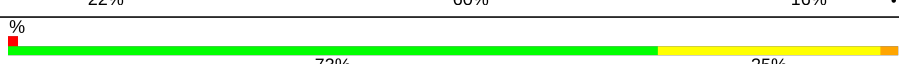
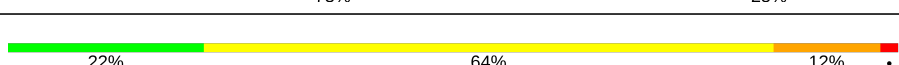
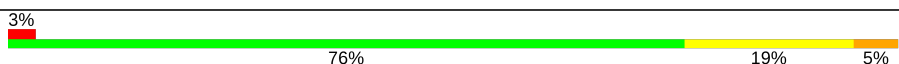
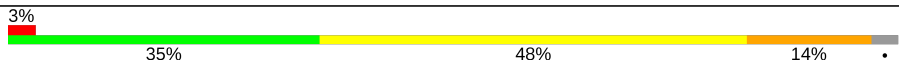
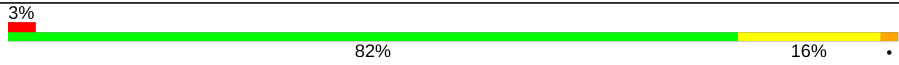


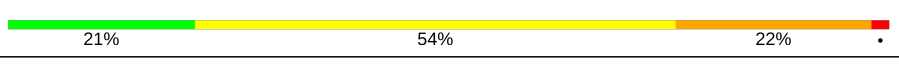
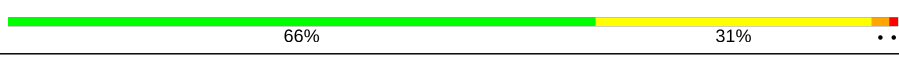
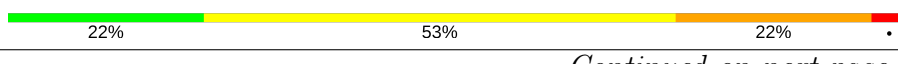

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
43	l6	175	
44	L7	223	
44	l7	223	
45	L8	233	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	169	
48	m1	169	
49	M3	194	
49	m3	194	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	197	
52	m6	197	
53	M7	183	
53	m7	183	
54	M8	185	
54	m8	185	
55	M9	188	
55	m9	188	
56	N0	172	




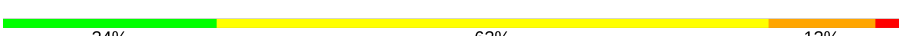




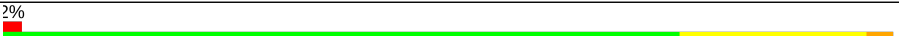
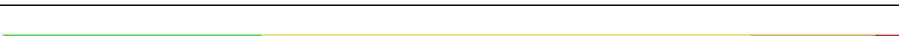
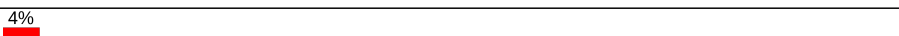
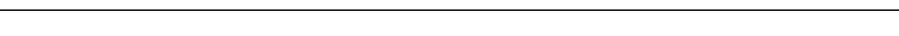
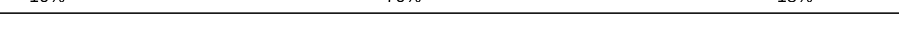
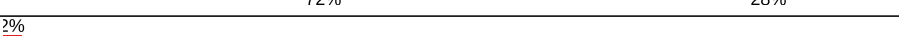


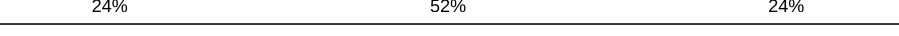

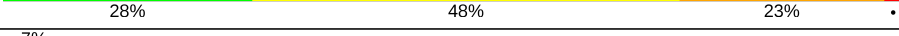

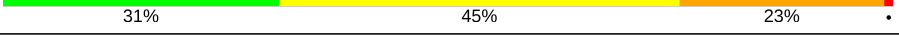




Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	100	
58	n2	100	
59	N3	136	
59	n3	136	
60	N4	98	
61	N5	121	
61	n5	121	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	
65	n9	58	
66	O0	100	
66	o0	100	
67	O1	109	
67	o1	109	
68	O2	127	
68	o2	127	
69	O3	106	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
69	o3	106	
70	O4	112	
70	o4	112	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	
78	q2	105	
79	Q3	91	
79	q3	91	
80	6	1800	
81	c0	96	
82	c7	121	
83	sR	318	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
84	sM	104	
85	5	3150	
86	l8	231	
87	m2	150	
88	n4	135	
89	p0	143	
90	p1	47	
90	p2	47	
91	P	5	
91	p	5	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	1	3494	-	-	X	-
92	OHX	1	3507	-	-	X	-
92	OHX	1	3508	-	-	-	X
92	OHX	1	3511	-	-	X	-
92	OHX	1	3525	-	-	X	X
92	OHX	1	3537	-	-	-	X
92	OHX	1	3538	-	-	-	X
92	OHX	1	3560	-	-	-	X
92	OHX	1	3563	-	-	X	-
92	OHX	1	3565	-	-	X	-
92	OHX	1	3569	-	-	-	X
92	OHX	1	3576	-	-	X	X
92	OHX	1	3578	-	-	X	-
92	OHX	1	3579	-	-	-	X
92	OHX	1	3583	-	-	X	-
92	OHX	1	3585	-	-	X	-
92	OHX	1	3589	-	-	X	-
92	OHX	1	3590	-	-	X	X
92	OHX	1	3594	-	-	-	X
92	OHX	1	3597	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	1	3599	-	-	-	X
92	OHX	1	3600	-	-	X	-
92	OHX	1	3603	-	-	-	X
92	OHX	1	3605	-	-	-	X
92	OHX	1	3607	-	-	-	X
92	OHX	1	3612	-	-	X	-
92	OHX	1	3614	-	-	-	X
92	OHX	1	3616	-	-	X	-
92	OHX	1	3620	-	-	-	X
92	OHX	1	3621	-	-	-	X
92	OHX	1	3626	-	-	-	X
92	OHX	1	3629	-	-	-	X
92	OHX	1	3642	-	-	-	X
92	OHX	1	3643	-	-	-	X
92	OHX	1	3645	-	-	-	X
92	OHX	1	3646	-	-	-	X
92	OHX	1	3648	-	-	X	X
92	OHX	1	3649	-	-	-	X
92	OHX	1	3653	-	-	-	X
92	OHX	1	3654	-	-	-	X
92	OHX	1	3655	-	-	-	X
92	OHX	1	3660	-	-	-	X
92	OHX	1	3662	-	-	X	X
92	OHX	1	3663	-	-	-	X
92	OHX	1	3665	-	-	-	X
92	OHX	1	3667	-	-	-	X
92	OHX	1	3670	-	-	-	X
92	OHX	1	3671	-	-	-	X
92	OHX	1	3674	-	-	-	X
92	OHX	1	3675	-	-	-	X
92	OHX	1	3678	-	-	-	X
92	OHX	1	3684	-	-	X	X
92	OHX	1	3685	-	-	-	X
92	OHX	1	3687	-	-	-	X
92	OHX	1	3688	-	-	-	X
92	OHX	1	3690	-	-	X	-
92	OHX	1	3691	-	-	X	-
92	OHX	1	3693	-	-	-	X
92	OHX	1	3694	-	-	X	-
92	OHX	1	3699	-	-	-	X
92	OHX	1	3702	-	-	X	X
92	OHX	1	3703	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	1	3710	-	-	X	X
92	OHX	1	3711	-	-	X	-
92	OHX	1	3712	-	-	-	X
92	OHX	1	3714	-	-	-	X
92	OHX	1	3718	-	-	-	X
92	OHX	1	3721	-	-	-	X
92	OHX	1	3726	-	-	-	X
92	OHX	1	3727	-	-	-	X
92	OHX	1	3728	-	-	-	X
92	OHX	1	3729	-	-	-	X
92	OHX	2	1914	-	-	X	-
92	OHX	2	1921	-	-	X	-
92	OHX	2	1970	-	-	X	-
92	OHX	2	1976	-	-	-	X
92	OHX	2	1979	-	-	-	X
92	OHX	2	1985	-	-	X	-
92	OHX	2	1995	-	-	-	X
92	OHX	2	2021	-	-	-	X
92	OHX	2	2025	-	-	-	X
92	OHX	2	2029	-	-	-	X
92	OHX	2	2031	-	-	-	X
92	OHX	2	2040	-	-	X	-
92	OHX	2	2043	-	-	-	X
92	OHX	2	2047	-	-	-	X
92	OHX	2	2049	-	-	-	X
92	OHX	3	204	-	-	X	-
92	OHX	3	208	-	-	-	X
92	OHX	4	212	-	-	-	X
92	OHX	4	215	-	-	-	X
92	OHX	4	218	-	-	-	X
92	OHX	5	3481	-	-	X	-
92	OHX	5	3503	-	-	X	-
92	OHX	5	3506	-	-	X	-
92	OHX	5	3522	-	-	X	-
92	OHX	5	3524	-	-	X	-
92	OHX	5	3527	-	-	-	X
92	OHX	5	3531	-	-	-	X
92	OHX	5	3534	-	-	X	-
92	OHX	5	3549	-	-	-	X
92	OHX	5	3551	-	-	-	X
92	OHX	5	3554	-	-	-	X
92	OHX	5	3555	-	-	X	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	5	3565	-	-	X	X
92	OHX	5	3566	-	-	X	-
92	OHX	5	3570	-	-	-	X
92	OHX	5	3573	-	-	-	X
92	OHX	5	3574	-	-	X	-
92	OHX	5	3576	-	-	X	X
92	OHX	5	3578	-	-	-	X
92	OHX	5	3580	-	-	X	X
92	OHX	5	3582	-	-	-	X
92	OHX	5	3590	-	-	-	X
92	OHX	5	3591	-	-	X	X
92	OHX	5	3597	-	-	-	X
92	OHX	5	3598	-	-	-	X
92	OHX	5	3599	-	-	-	X
92	OHX	5	3601	-	-	-	X
92	OHX	5	3602	-	-	-	X
92	OHX	5	3606	-	-	-	X
92	OHX	5	3607	-	-	-	X
92	OHX	5	3609	-	-	-	X
92	OHX	5	3611	-	-	-	X
92	OHX	5	3617	-	-	-	X
92	OHX	5	3623	-	-	-	X
92	OHX	5	3624	-	-	-	X
92	OHX	5	3630	-	-	-	X
92	OHX	5	3632	-	-	-	X
92	OHX	5	3634	-	-	X	X
92	OHX	5	3636	-	-	-	X
92	OHX	5	3638	-	-	-	X
92	OHX	5	3640	-	-	X	-
92	OHX	5	3641	-	-	-	X
92	OHX	5	3643	-	-	-	X
92	OHX	5	3644	-	-	-	X
92	OHX	5	3645	-	-	-	X
92	OHX	5	3647	-	-	-	X
92	OHX	5	3648	-	-	-	X
92	OHX	5	3652	-	-	-	X
92	OHX	5	3658	-	-	-	X
92	OHX	5	3659	-	-	-	X
92	OHX	5	3660	-	-	-	X
92	OHX	5	3661	-	-	-	X
92	OHX	5	3662	-	-	-	X
92	OHX	5	3664	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	5	3670	-	-	-	X
92	OHX	5	3671	-	-	X	X
92	OHX	5	3681	-	-	-	X
92	OHX	5	3684	-	-	-	X
92	OHX	5	3687	-	-	-	X
92	OHX	5	3688	-	-	-	X
92	OHX	5	3689	-	-	-	X
92	OHX	5	3692	-	-	X	-
92	OHX	5	3693	-	-	-	X
92	OHX	5	3694	-	-	X	X
92	OHX	5	3695	-	-	-	X
92	OHX	5	3698	-	-	-	X
92	OHX	5	3700	-	-	-	X
92	OHX	5	3702	-	-	X	-
92	OHX	5	3703	-	-	X	-
92	OHX	5	3705	-	-	-	X
92	OHX	5	3706	-	-	X	X
92	OHX	5	3707	-	-	-	X
92	OHX	5	3709	-	-	-	X
92	OHX	5	3716	-	-	-	X
92	OHX	5	3718	-	-	-	X
92	OHX	5	3720	-	-	-	X
92	OHX	5	3721	-	-	X	X
92	OHX	5	3724	-	-	X	X
92	OHX	5	3729	-	-	-	X
92	OHX	5	3737	-	-	-	X
92	OHX	5	3739	-	-	-	X
92	OHX	5	3740	-	-	-	X
92	OHX	6	1914	-	-	X	-
92	OHX	6	1938	-	-	X	-
92	OHX	6	1970	-	-	-	X
92	OHX	6	1978	-	-	X	-
92	OHX	6	1990	-	-	-	X
92	OHX	6	1992	-	-	-	X
92	OHX	6	1998	-	-	X	-
92	OHX	6	2001	-	-	X	-
92	OHX	6	2009	-	-	-	X
92	OHX	6	2012	-	-	-	X
92	OHX	6	2023	-	-	-	X
92	OHX	6	2024	-	-	-	X
92	OHX	6	2026	-	-	-	X
92	OHX	6	2029	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	6	2032	-	-	-	X
92	OHX	6	2033	-	-	-	X
92	OHX	6	2035	-	-	-	X
92	OHX	6	2037	-	-	-	X
92	OHX	6	2042	-	-	-	X
92	OHX	6	2048	-	-	X	-
92	OHX	6	2051	-	-	-	X
92	OHX	6	2054	-	-	-	X
92	OHX	6	2057	-	-	-	X
92	OHX	6	2058	-	-	X	X
92	OHX	7	209	-	-	X	X
92	OHX	7	211	-	-	-	X
92	OHX	8	210	-	-	-	X
92	OHX	8	211	-	-	-	X
92	OHX	8	212	-	-	-	X
92	OHX	8	213	-	-	-	X
92	OHX	8	214	-	-	-	X
92	OHX	C3	201	-	-	X	-
92	OHX	C5	201	-	-	X	-
92	OHX	O4	201	-	-	-	X
92	OHX	O7	102	-	-	X	-
92	OHX	Q2	502	-	-	X	-
92	OHX	S9	201	-	-	X	X
92	OHX	l3	402	-	-	-	X
92	OHX	m0	303	-	-	-	X
93	MG	1	3737	-	-	-	X
93	MG	1	3739	-	-	-	X
93	MG	1	3741	-	-	-	X
93	MG	1	3745	-	-	-	X
93	MG	1	3763	-	-	-	X
93	MG	1	3767	-	-	-	X
93	MG	1	3784	-	-	-	X
93	MG	1	3786	-	-	-	X
93	MG	1	3790	-	-	-	X
93	MG	1	3800	-	-	-	X
93	MG	1	3801	-	-	-	X
93	MG	1	3807	-	-	-	X
93	MG	1	3809	-	-	-	X
93	MG	1	3812	-	-	-	X
93	MG	1	3814	-	-	-	X
93	MG	1	3816	-	-	-	X
93	MG	1	3820	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	1	3822	-	-	-	X
93	MG	1	3824	-	-	-	X
93	MG	1	3825	-	-	-	X
93	MG	1	3826	-	-	-	X
93	MG	1	3831	-	-	-	X
93	MG	1	3832	-	-	-	X
93	MG	1	3835	-	-	-	X
93	MG	1	3836	-	-	-	X
93	MG	1	3840	-	-	-	X
93	MG	1	3841	-	-	-	X
93	MG	1	3844	-	-	-	X
93	MG	1	3845	-	-	-	X
93	MG	1	3851	-	-	-	X
93	MG	1	3852	-	-	-	X
93	MG	1	3853	-	-	-	X
93	MG	1	3859	-	-	-	X
93	MG	1	3864	-	-	-	X
93	MG	1	3867	-	-	-	X
93	MG	1	3868	-	-	-	X
93	MG	1	3875	-	-	-	X
93	MG	1	3876	-	-	-	X
93	MG	1	3877	-	-	-	X
93	MG	1	3882	-	-	-	X
93	MG	1	3883	-	-	-	X
93	MG	1	3889	-	-	-	X
93	MG	1	3892	-	-	-	X
93	MG	1	3894	-	-	-	X
93	MG	1	3896	-	-	-	X
93	MG	1	3897	-	-	-	X
93	MG	1	3898	-	-	-	X
93	MG	1	3899	-	-	-	X
93	MG	1	3904	-	-	-	X
93	MG	1	3907	-	-	-	X
93	MG	1	3909	-	-	-	X
93	MG	1	3911	-	-	-	X
93	MG	1	3912	-	-	-	X
93	MG	1	3914	-	-	-	X
93	MG	1	3916	-	-	-	X
93	MG	1	3918	-	-	-	X
93	MG	1	3919	-	-	-	X
93	MG	1	3921	-	-	-	X
93	MG	1	3922	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	1	3923	-	-	-	X
93	MG	1	3925	-	-	-	X
93	MG	1	3932	-	-	-	X
93	MG	1	3937	-	-	-	X
93	MG	1	3944	-	-	-	X
93	MG	1	3949	-	-	-	X
93	MG	1	3952	-	-	-	X
93	MG	1	3966	-	-	-	X
93	MG	1	3969	-	-	-	X
93	MG	1	3971	-	-	-	X
93	MG	1	3977	-	-	-	X
93	MG	1	3983	-	-	-	X
93	MG	1	3984	-	-	-	X
93	MG	1	3989	-	-	-	X
93	MG	1	4002	-	-	-	X
93	MG	1	4014	-	-	-	X
93	MG	1	4027	-	-	-	X
93	MG	1	4030	-	-	-	X
93	MG	1	4033	-	-	-	X
93	MG	1	4034	-	-	-	X
93	MG	1	4036	-	-	-	X
93	MG	1	4045	-	-	-	X
93	MG	1	4052	-	-	-	X
93	MG	1	4055	-	-	-	X
93	MG	1	4056	-	-	-	X
93	MG	1	4071	-	-	-	X
93	MG	1	4072	-	-	-	X
93	MG	1	4073	-	-	-	X
93	MG	1	4074	-	-	-	X
93	MG	1	4077	-	-	-	X
93	MG	1	4082	-	-	-	X
93	MG	1	4088	-	-	-	X
93	MG	1	4091	-	-	-	X
93	MG	1	4093	-	-	-	X
93	MG	1	4097	-	-	-	X
93	MG	1	4098	-	-	-	X
93	MG	1	4099	-	-	-	X
93	MG	1	4100	-	-	-	X
93	MG	1	4102	-	-	-	X
93	MG	1	4104	-	-	-	X
93	MG	1	4107	-	-	-	X
93	MG	1	4108	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	1	4123	-	-	-	X
93	MG	2	2060	-	-	-	X
93	MG	2	2061	-	-	-	X
93	MG	2	2062	-	-	-	X
93	MG	2	2065	-	-	-	X
93	MG	2	2069	-	-	-	X
93	MG	2	2071	-	-	-	X
93	MG	2	2076	-	-	-	X
93	MG	2	2080	-	-	-	X
93	MG	2	2087	-	-	-	X
93	MG	2	2089	-	-	-	X
93	MG	2	2095	-	-	-	X
93	MG	2	2099	-	-	-	X
93	MG	2	2109	-	-	-	X
93	MG	2	2110	-	-	-	X
93	MG	2	2115	-	-	-	X
93	MG	2	2123	-	-	-	X
93	MG	2	2126	-	-	-	X
93	MG	2	2131	-	-	-	X
93	MG	2	2141	-	-	-	X
93	MG	4	227	-	-	-	X
93	MG	4	228	-	-	-	X
93	MG	4	233	-	-	-	X
93	MG	5	3752	-	-	-	X
93	MG	5	3753	-	-	-	X
93	MG	5	3754	-	-	-	X
93	MG	5	3755	-	-	-	X
93	MG	5	3759	-	-	-	X
93	MG	5	3766	-	-	-	X
93	MG	5	3768	-	-	-	X
93	MG	5	3773	-	-	-	X
93	MG	5	3775	-	-	-	X
93	MG	5	3780	-	-	-	X
93	MG	5	3785	-	-	-	X
93	MG	5	3789	-	-	-	X
93	MG	5	3793	-	-	-	X
93	MG	5	3801	-	-	-	X
93	MG	5	3804	-	-	-	X
93	MG	5	3811	-	-	-	X
93	MG	5	3813	-	-	-	X
93	MG	5	3820	-	-	-	X
93	MG	5	3837	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	5	3840	-	-	-	X
93	MG	5	3844	-	-	-	X
93	MG	5	3847	-	-	-	X
93	MG	5	3851	-	-	-	X
93	MG	5	3853	-	-	-	X
93	MG	5	3854	-	-	-	X
93	MG	5	3858	-	-	-	X
93	MG	5	3859	-	-	-	X
93	MG	5	3865	-	-	-	X
93	MG	5	3867	-	-	-	X
93	MG	5	3868	-	-	-	X
93	MG	5	3869	-	-	-	X
93	MG	5	3871	-	-	-	X
93	MG	5	3874	-	-	-	X
93	MG	5	3885	-	-	-	X
93	MG	5	3890	-	-	-	X
93	MG	5	3892	-	-	-	X
93	MG	5	3893	-	-	-	X
93	MG	5	3894	-	-	-	X
93	MG	5	3895	-	-	-	X
93	MG	5	3897	-	-	-	X
93	MG	5	3898	-	-	-	X
93	MG	5	3901	-	-	-	X
93	MG	5	3903	-	-	-	X
93	MG	5	3906	-	-	-	X
93	MG	5	3908	-	-	-	X
93	MG	5	3911	-	-	-	X
93	MG	5	3912	-	-	-	X
93	MG	5	3913	-	-	-	X
93	MG	5	3916	-	-	-	X
93	MG	5	3917	-	-	-	X
93	MG	5	3918	-	-	-	X
93	MG	5	3925	-	-	-	X
93	MG	5	3928	-	-	-	X
93	MG	5	3929	-	-	-	X
93	MG	5	3930	-	-	-	X
93	MG	5	3932	-	-	-	X
93	MG	5	3933	-	-	-	X
93	MG	5	3934	-	-	-	X
93	MG	5	3937	-	-	-	X
93	MG	5	3941	-	-	-	X
93	MG	5	3942	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	5	3944	-	-	-	X
93	MG	5	3945	-	-	-	X
93	MG	5	3961	-	-	-	X
93	MG	5	3962	-	-	-	X
93	MG	5	3974	-	-	-	X
93	MG	5	3983	-	-	-	X
93	MG	5	3990	-	-	-	X
93	MG	5	4005	-	-	-	X
93	MG	5	4013	-	-	-	X
93	MG	5	4022	-	-	-	X
93	MG	5	4023	-	-	-	X
93	MG	5	4025	-	-	-	X
93	MG	5	4030	-	-	-	X
93	MG	5	4034	-	-	-	X
93	MG	5	4053	-	-	-	X
93	MG	5	4054	-	-	-	X
93	MG	5	4069	-	-	-	X
93	MG	5	4070	-	-	-	X
93	MG	5	4071	-	-	-	X
93	MG	5	4078	-	-	-	X
93	MG	5	4079	-	-	-	X
93	MG	5	4082	-	-	-	X
93	MG	5	4094	-	-	-	X
93	MG	5	4098	-	-	-	X
93	MG	5	4100	-	-	-	X
93	MG	5	4110	-	-	-	X
93	MG	5	4112	-	-	-	X
93	MG	5	4113	-	-	-	X
93	MG	5	4115	-	-	-	X
93	MG	5	4119	-	-	-	X
93	MG	5	4140	-	-	-	X
93	MG	5	4145	-	-	-	X
93	MG	5	4159	-	-	-	X
93	MG	5	4168	-	-	-	X
93	MG	5	4169	-	-	-	X
93	MG	5	4170	-	-	-	X
93	MG	5	4174	-	-	-	X
93	MG	6	2064	-	-	-	X
93	MG	6	2068	-	-	-	X
93	MG	6	2069	-	-	-	X
93	MG	6	2071	-	-	-	X
93	MG	6	2074	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	6	2079	-	-	-	X
93	MG	6	2080	-	-	-	X
93	MG	6	2083	-	-	-	X
93	MG	6	2084	-	-	-	X
93	MG	6	2090	-	-	-	X
93	MG	6	2100	-	-	-	X
93	MG	6	2105	-	-	-	X
93	MG	6	2107	-	-	-	X
93	MG	6	2109	-	-	-	X
93	MG	6	2113	-	-	-	X
93	MG	6	2118	-	-	-	X
93	MG	6	2126	-	-	-	X
93	MG	6	2128	-	-	-	X
93	MG	6	2131	-	-	-	X
93	MG	6	2134	-	-	-	X
93	MG	6	2139	-	-	-	X
93	MG	6	2170	-	-	-	X
93	MG	6	2171	-	-	-	X
93	MG	6	2175	-	-	-	X
93	MG	7	221	-	-	-	X
93	MG	7	222	-	-	-	X
93	MG	7	223	-	-	-	X
93	MG	8	218	-	-	-	X
93	MG	C1	201	-	-	-	X
93	MG	C9	201	-	-	-	X
93	MG	L3	403	-	-	-	X
93	MG	L3	405	-	-	-	X
93	MG	L4	405	-	-	-	X
93	MG	L4	406	-	-	-	X
93	MG	L7	302	-	-	-	X
93	MG	M7	202	-	-	-	X
93	MG	M7	204	-	-	-	X
93	MG	M7	205	-	-	-	X
93	MG	M7	206	-	-	-	X
93	MG	N0	201	-	-	-	X
93	MG	N3	201	-	-	-	X
93	MG	N3	203	-	-	-	X
93	MG	N5	201	-	-	-	X
93	MG	N6	201	-	-	-	X
93	MG	N8	203	-	-	-	X
93	MG	O5	201	-	-	-	X
93	MG	O7	105	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	P	102	-	-	-	X
93	MG	c6	201	-	-	-	X
93	MG	d3	201	-	-	-	X
93	MG	d6	102	-	-	-	X
93	MG	l2	303	-	-	-	X
93	MG	l3	405	-	-	-	X
93	MG	l3	406	-	-	-	X
93	MG	l7	301	-	-	-	X
93	MG	m5	303	-	-	-	X
93	MG	m7	201	-	-	-	X
93	MG	n0	202	-	-	-	X
93	MG	n3	201	-	-	-	X
93	MG	n8	203	-	-	-	X
93	MG	o3	203	-	-	-	X
93	MG	s6	301	-	-	-	X
93	MG	sM	202	-	-	-	X
94	ZN	D9	101	-	-	X	-
94	ZN	Q2	501	-	-	X	-
95	PHE	5	3401	-	-	-	X
96	LEU	5	3402	-	-	-	X
97	SPS	1	3403	-	-	X	-
98	8AN	P	101	-	-	X	X

2 Entry composition

There are 98 unique types of molecules in this entry. The entry contains 411589 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2	1781	Total	C	N	O	P	0	1	0
			37970	16975	6720	12493	1782			

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	S0	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

- Molecule 3 is a protein called 40S ribosomal protein S1-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	S1	214	Total	C	N	O	S	0	0	0
			1709	1084	310	311	4			
3	s1	216	Total	C	N	O	S	0	0	0
			1722	1091	312	315	4			

- Molecule 4 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	S2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			
4	s2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			

- Molecule 5 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	s3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

- Molecule 6 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	S4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			
6	s4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	S5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
7	s5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 8 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	S6	226	Total	C	N	O	S	0	0	0
			1799	1129	346	321	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 9 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	S7	184	Total	C	N	O	0	0	0
			1481	951	265	265			
9	s7	186	Total	C	N	O	0	0	0
			1491	957	267	267			

- Molecule 10 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	S8	188	Total	C	N	O	0	0	0
			1489	925	298	264			
10	s8	188	Total	C	N	O	0	0	0
			1489	925	298	264			

- Molecule 11 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	S9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			
11	s9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			

- Molecule 12 is a protein called 40S ribosomal protein S10-A,40S Ribosomal Protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total	C	N	O	S	0	0	0
			773	500	126	145	2			

- Molecule 13 is a protein called 40S ribosomal protein S11-A,40S Ribosomal Protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total	C	N	O	S	0	0	0
			1214	775	230	206	3			
13	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C1	147	ALA	GLY	conflict	UNP P0CX47
c1	147	ALA	GLY	conflict	UNP P0CX47

- Molecule 14 is a protein called 40S Ribosomal Protein S12,40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			
14	c2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	C3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			
15	c3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			

- Molecule 16 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	C4	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
16	c4	128	Total	C	N	O	S	0	0	0
			949	582	188	176	3			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C4	127	ARG	-	expression tag	UNP P06367
C4	128	LYS	-	expression tag	UNP P06367
C4	129	LYS	-	expression tag	UNP P06367
C4	130	GLY	-	expression tag	UNP P06367
C4	131	GLY	-	expression tag	UNP P06367
C4	132	ARG	-	expression tag	UNP P06367
C4	133	ARG	-	expression tag	UNP P06367
C4	134	GLY	-	expression tag	UNP P06367
C4	135	ARG	-	expression tag	UNP P06367
C4	136	ARG	-	expression tag	UNP P06367
C4	137	LEU	-	expression tag	UNP P06367
c4	127	ARG	-	expression tag	UNP P06367
c4	128	LYS	-	expression tag	UNP P06367
c4	129	LYS	-	expression tag	UNP P06367
c4	130	GLY	-	expression tag	UNP P06367
c4	131	GLY	-	expression tag	UNP P06367
c4	132	ARG	-	expression tag	UNP P06367
c4	133	ARG	-	expression tag	UNP P06367
c4	134	GLY	-	expression tag	UNP P06367
c4	135	ARG	-	expression tag	UNP P06367
c4	136	ARG	-	expression tag	UNP P06367
c4	137	LEU	-	expression tag	UNP P06367

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	C5	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			
17	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	7			

- Molecule 18 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O	0	0	0
			1105	708	203	194			
18	c6	142	Total	C	N	O	0	0	0
			1111	711	204	196			

- Molecule 19 is a protein called ES17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			

- Molecule 20 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	C8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			
20	c8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			

- Molecule 21 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	C9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			
21	c9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			

- Molecule 22 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	D0	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
22	d0	110	Total	C	N	O	S	0	0	0
			882	554	161	166	1			

- Molecule 23 is a protein called 40S ribosomal protein S21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	D1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			
23	d1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	D2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			
24	d2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			

- Molecule 25 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	D3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			
25	d3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

- Molecule 26 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	D4	134	Total	C	N	O	0	0	0
			1073	676	208	189			
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 27 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	D5	70	Total	C	N	O	0	0	0
			563	360	104	99			
27	d5	69	Total	C	N	O	0	0	0
			558	357	103	98			

- Molecule 28 is a protein called 40S ribosomal protein S26-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	D6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			
28	d6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

- Molecule 29 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	D7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			
29	d7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			

- Molecule 30 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	D8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			
30	d8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			

- Molecule 31 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			
31	d9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			

- Molecule 32 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			
32	e0	62	Total	C	N	O	S	0	0	0
			491	309	101	80	1			

- Molecule 33 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
33	e1	76	Total	C	N	O	S	0	0	0
			608	388	117	99	4			

- Molecule 34 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SR	161	ALA	LYS	conflict	UNP P38011

- Molecule 35 is a protein called Ribosome-bound protein Stm1,Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O	0	0	0
			1105	655	221	229			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SM	134	LEU	ASP	conflict	UNP P39015

- Molecule 36 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			

- Molecule 37 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
37	7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 38 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
38	8	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 39 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	l2	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	1			

- Molecule 40 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	L3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
40	l3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

- Molecule 41 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	L4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
41	l4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

- Molecule 42 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	L5	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
42	l5	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 43 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	L6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	l6	157	Total	C	N	O	S	0	0	0
			1248	806	224	217	1			

- Molecule 44 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	l7	223	Total	C	N	O	S	0	0	0
			1791	1155	325	310	1			

- Molecule 45 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	L8	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			

- Molecule 46 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	19	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 47 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	M0	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

- Molecule 48 is a protein called 60S ribosomal protein L11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	M1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
48	m1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 49 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	M3	193	Total	C	N	O	0	0	0
			1543	962	315	266			
49	m3	194	Total	C	N	O	0	0	0
			1548	965	316	267			

- Molecule 50 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	M4	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	m4	137	Total	C	N	O	S	0	0	0
			1059	678	200	179	2			

- Molecule 51 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	M5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
51	m5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 52 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			
52	m6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 53 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	M7	183	Total	C	N	O	S	0	0	0
			1420	882	281	257				
53	m7	155	Total	C	N	O	S	0	0	0
			1227	764	238	225				

- Molecule 54 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	M8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			
54	m8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			

- Molecule 55 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	M9	188	Total	C	N	O	S	0	0	0
			1521	935	326	260				
55	m9	188	Total	C	N	O	S	0	0	0
			1521	935	326	260				

- Molecule 56 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	N0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
56	n0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 57 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	N1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
57	n1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 58 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	N2	100	Total	C	N	O		0	0	0
			796	516	131	149				
58	n2	98	Total	C	N	O		0	0	0
			778	505	127	146				

- Molecule 59 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	N3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
59	n3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			

- Molecule 61 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	N5	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	n5	120	Total	C	N	O	S	0	0	0
			959	617	168	172	2			

- Molecule 62 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	N6	126	Total	C	N	O		0	0	0
			993	625	192	176				
62	n6	126	Total	C	N	O		0	0	0
			993	625	192	176				

- Molecule 63 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	N7	135	Total	C	N	O		0	0	0
			1092	710	202	180				
63	n7	135	Total	C	N	O		0	0	0
			1092	710	202	180				

- Molecule 64 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	N8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			
64	n8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			

- Molecule 65 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
65	N9	58	Total	C	N	O		0	0	0
			462	289	100	73				
65	n9	58	Total	C	N	O		0	0	0
			462	289	100	73				

- Molecule 66 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	O0	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
66	o0	100	Total	C	N	O	S	0	0	0
			767	492	128	146	1			

- Molecule 67 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	O1	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
67	o1	109	Total	C	N	O	S	0	0	0
			883	559	167	156	1			

- Molecule 68 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	O2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			
68	o2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 69 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	O3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			
69	o3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

- Molecule 70 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			
70	o4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

- Molecule 71 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	o5	119	Total	C	N	O	S	0	0	0
			965	612	185	167	1			

- Molecule 72 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	O6	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
72	o6	99	Total	C	N	O	S	0	0	0
			770	481	156	131	2			

- Molecule 73 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	O7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			
73	o7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			

- Molecule 74 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	O8	77	Total	C	N	O		0	0	0
			612	391	115	106				
74	o8	77	Total	C	N	O		0	0	0
			608	388	114	106				

- Molecule 75 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	O9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
75	o9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 76 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	Q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
76	q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 77 is a protein called 60S ribosomal protein L41-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	Q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 78 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	Q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
78	q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 79 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	Q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			
79	q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

- Molecule 80 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	6	1795	Total	C	N	O	P	0	1	0
			38260	17105	6763	12596	1796			

- Molecule 81 is a protein called 40S ribosomal protein S10-A,40S Ribosomal Protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	c0	96	Total	C	N	O	S	0	0	0
			762	491	125	144	2			

- Molecule 82 is a protein called ES17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	2			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
c7	90	ALA	-	insertion	UNP A0A0J9X224

- Molecule 83 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
83	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 84 is a protein called Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
84	sM	104	Total	C	N	O	0	0	0
			681	404	140	137			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
sM	59	ALA	GLY	conflict	UNP P39015

- Molecule 85 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
85	5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	3149			

- Molecule 86 is a protein called 60S ribosomal protein L8-A,60S Ribosomal Protein L8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
86	l8	231	Total	C	N	O	S	0	0	0
			1763	1130	316	314	3			

- Molecule 87 is a protein called 60S Ribosomal Protein L12.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
87	m2	150	Total	C	N	O	0	0	0
			750	450	150	150			

- Molecule 88 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
88	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	1			

- Molecule 89 is a protein called 60S Ribosomal Protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
89	p0	143	Total	C	N	O	S	0	0	0
			1077	687	192	195	3			

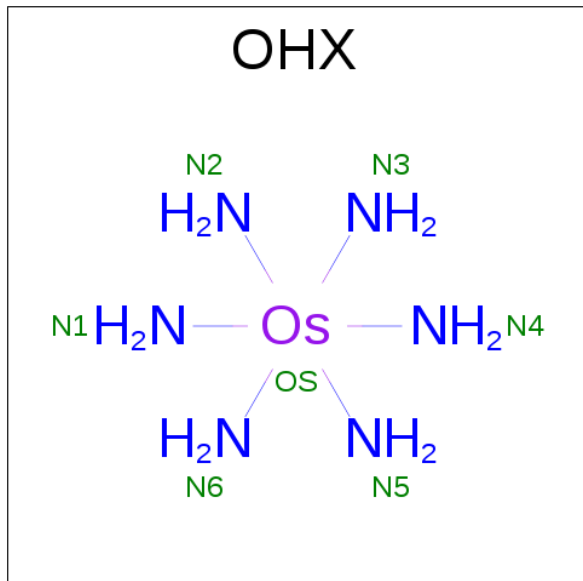
- Molecule 90 is a protein called 60S Ribosomal Protein P1/2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
90	p1	47	Total	C	N	O	0	0	0
			235	141	47	47			
90	p2	46	Total	C	N	O	0	0	0
			230	138	46	46			

- Molecule 91 is a RNA chain called Peptidyl-tRNA analog ACCA-Leu-Phe.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
91	P	2	Total	C	N	O	P	0	0	0
			37	18	6	12	1			
91	p	2	Total	C	N	O	P	0	0	0
			40	18	6	14	2			

- Molecule 92 is osmium (III) hexammine (three-letter code: OHX) (formula: $\text{H}_{12}\text{N}_6\text{Os}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	S8	1	Total	N	Os	0	0
			7	6	1		
92	S9	1	Total	N	Os	0	0
			7	6	1		
92	C3	1	Total	N	Os	0	0
			7	6	1		
92	C5	1	Total	N	Os	0	0
			7	6	1		
92	C7	1	Total	N	Os	0	0
			7	6	1		
92	C8	1	Total	N	Os	0	0
			7	6	1		
92	D9	1	Total	N	Os	0	0
			7	6	1		
92	SR	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	L3	1	Total	N	Os	0	0
			7	6	1		
92	L3	1	Total	N	Os	0	0
			7	6	1		
92	L4	1	Total	N	Os	0	0
			7	6	1		
92	L6	1	Total	N	Os	0	0
			7	6	1		
92	L6	1	Total	N	Os	0	0
			7	6	1		
92	M0	1	Total	N	Os	0	0
			7	6	1		
92	M5	1	Total	N	Os	0	0
			7	6	1		
92	M5	1	Total	N	Os	0	0
			7	6	1		
92	M6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	M7	1	Total	N	Os	0	0
			7	6	1		
92	M8	1	Total	N	Os	0	0
			7	6	1		
92	M9	1	Total	N	Os	0	0
			7	6	1		
92	N9	1	Total	N	Os	0	0
			7	6	1		
92	O3	1	Total	N	Os	0	0
			7	6	1		
92	O4	1	Total	N	Os	0	0
			7	6	1		
92	O7	1	Total	N	Os	0	0
			7	6	1		
92	O9	1	Total	N	Os	0	0
			7	6	1		
92	Q2	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	s1	1	Total	N	Os	0	0
			7	6	1		
92	s4	1	Total	N	Os	0	0
			7	6	1		
92	s8	1	Total	N	Os	0	0
			7	6	1		
92	s9	1	Total	N	Os	0	0
			7	6	1		
92	c3	1	Total	N	Os	0	0
			7	6	1		
92	c5	1	Total	N	Os	0	0
			7	6	1		
92	c8	1	Total	N	Os	0	0
			7	6	1		
92	d4	1	Total	N	Os	0	0
			7	6	1		
92	sR	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	l3	1	Total 7	N 6	Os 1	0	0
92	l3	1	Total 7	N 6	Os 1	0	0
92	l5	1	Total 7	N 6	Os 1	0	0
92	l5	1	Total 7	N 6	Os 1	0	0
92	l9	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m5	1	Total 7	N 6	Os 1	0	0
92	m5	1	Total 7	N 6	Os 1	0	0
92	m6	1	Total 7	N 6	Os 1	0	0
92	m8	1	Total 7	N 6	Os 1	0	0
92	m9	1	Total 7	N 6	Os 1	0	0
92	n9	1	Total 7	N 6	Os 1	0	0
92	o3	1	Total 7	N 6	Os 1	0	0
92	o7	1	Total 7	N 6	Os 1	0	0
92	o7	1	Total 7	N 6	Os 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 93 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	L7	2	Total	Mg	0	0
			2	2		
93	m6	4	Total	Mg	0	0
			4	4		
93	l6	1	Total	Mg	0	0
			1	1		
93	N5	1	Total	Mg	0	0
			1	1		
93	6	126	Total	Mg	0	0
			126	126		
93	sM	2	Total	Mg	0	0
			2	2		
93	O4	1	Total	Mg	0	0
			1	1		
93	m5	2	Total	Mg	0	0
			2	2		
93	l3	4	Total	Mg	0	0
			4	4		
93	C1	1	Total	Mg	0	0
			1	1		
93	d6	1	Total	Mg	0	0
			1	1		
93	C8	1	Total	Mg	0	0
			1	1		
93	n0	2	Total	Mg	0	0
			2	2		
93	L4	5	Total	Mg	0	0
			5	5		
93	l7	1	Total	Mg	0	0
			1	1		
93	M5	1	Total	Mg	0	0
			1	1		
93	o9	1	Total	Mg	0	0
			1	1		
93	N6	2	Total	Mg	0	0
			2	2		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	c9	1	Total 1	Mg 1	0	0
93	o4	1	Total 1	Mg 1	0	0
93	M0	1	Total 1	Mg 1	0	0
93	p	2	Total 2	Mg 2	0	0
93	5	427	Total 427	Mg 427	0	0
93	c8	2	Total 2	Mg 2	0	0
93	O7	4	Total 4	Mg 4	0	0
93	s6	1	Total 1	Mg 1	0	0
93	d4	1	Total 1	Mg 1	0	0
93	n9	2	Total 2	Mg 2	0	0
93	1	394	Total 394	Mg 394	0	0
93	s4	1	Total 1	Mg 1	0	0
93	c6	1	Total 1	Mg 1	0	0
93	Q2	1	Total 1	Mg 1	0	0
93	d3	1	Total 1	Mg 1	0	0
93	D9	2	Total 2	Mg 2	0	0
93	o3	2	Total 2	Mg 2	0	0
93	M3	1	Total 1	Mg 1	0	0
93	N3	3	Total 3	Mg 3	0	0
93	4	17	Total 17	Mg 17	0	0
93	n6	2	Total 2	Mg 2	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	S4	1	Total 1	Mg 1	0	0
93	L2	2	Total 2	Mg 2	0	0
93	d7	1	Total 1	Mg 1	0	0
93	l5	1	Total 1	Mg 1	0	0
93	m7	3	Total 3	Mg 3	0	0
93	M7	5	Total 5	Mg 5	0	0
93	m4	1	Total 1	Mg 1	0	0
93	P	1	Total 1	Mg 1	0	0
93	N8	6	Total 6	Mg 6	0	0
93	l9	1	Total 1	Mg 1	0	0
93	o2	2	Total 2	Mg 2	0	0
93	3	7	Total 7	Mg 7	0	0
93	n8	3	Total 3	Mg 3	0	0
93	7	15	Total 15	Mg 15	0	0
93	n3	1	Total 1	Mg 1	0	0
93	q1	1	Total 1	Mg 1	0	0
93	L3	3	Total 3	Mg 3	0	0
93	O5	1	Total 1	Mg 1	0	0
93	2	90	Total 90	Mg 90	0	0
93	l2	3	Total 3	Mg 3	0	0
93	8	14	Total 14	Mg 14	0	0

Continued on next page...

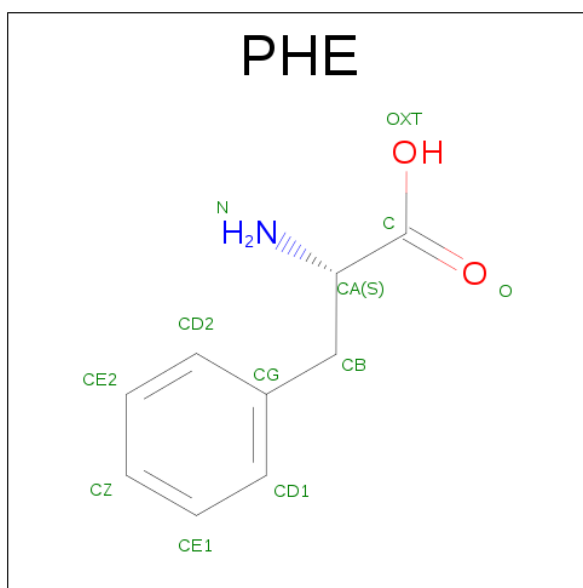
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	m0	1	Total 1	Mg 1	0	0
93	N0	2	Total 2	Mg 2	0	0
93	C9	1	Total 1	Mg 1	0	0

- Molecule 94 is ZINC ION (three-letter code: ZN) (formula: Zn).

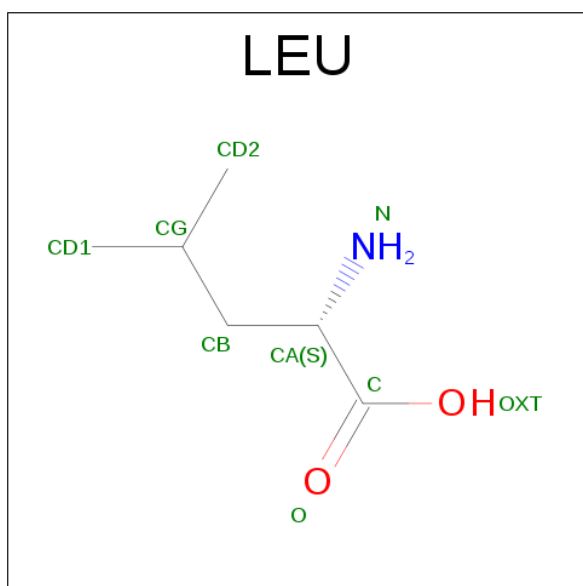
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
94	q0	1	Total 1	Zn 1	0	0
94	D6	1	Total 1	Zn 1	0	0
94	Q2	1	Total 1	Zn 1	0	0
94	e1	1	Total 1	Zn 1	0	0
94	Q3	1	Total 1	Zn 1	0	0
94	D9	1	Total 1	Zn 1	0	0
94	E1	1	Total 1	Zn 1	0	0
94	Q0	1	Total 1	Zn 1	0	0
94	d7	1	Total 1	Zn 1	0	0
94	q3	1	Total 1	Zn 1	0	0
94	d9	1	Total 1	Zn 1	0	0
94	D7	1	Total 1	Zn 1	0	0
94	d6	1	Total 1	Zn 1	0	0
94	o7	1	Total 1	Zn 1	0	0
94	O7	1	Total 1	Zn 1	0	0
94	q2	1	Total 1	Zn 1	0	0

- Molecule 95 is PHENYLALANINE (three-letter code: PHE) (formula: $C_9H_{11}NO_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
95	1	1	Total	C	N	O	0	0
			11	9	1	1		
95	5	1	Total	C	N	O	0	0
			11	9	1	1		

- Molecule 96 is LEUCINE (three-letter code: LEU) (formula: $C_6H_{13}NO_2$).



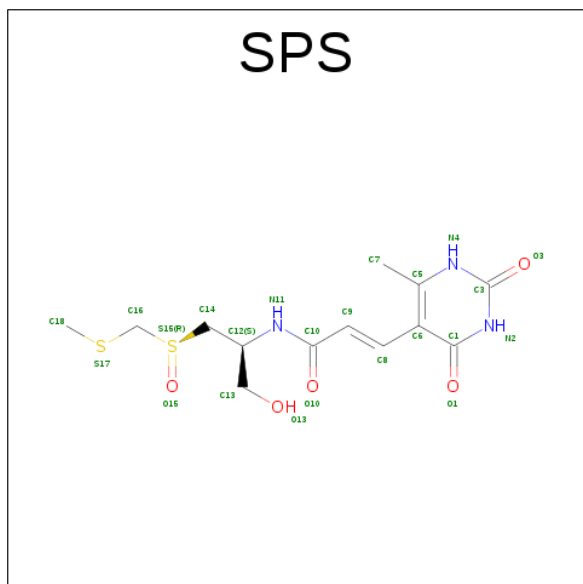
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
96	1	1	Total	C	N	O	0	0
			8	6	1	1		

Continued on next page...

Continued from previous page...

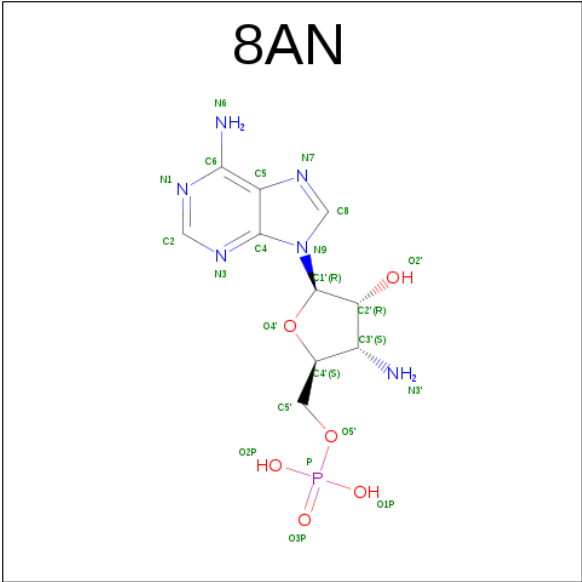
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
96	5	1	Total	C	N	O	0	0
			8	6	1	1		

- Molecule 97 is SPARSOMYCIN (three-letter code: SPS) (formula: $C_{13}H_{19}N_3O_5S_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
97	1	1	Total	C	N	O	S	0	0
			23	13	3	5	2		
97	5	1	Total	C	N	O	S	0	0
			23	13	3	5	2		

- Molecule 98 is 3'-amino-3'-deoxyadenosine 5'-(dihydrogen phosphate) (three-letter code: 8AN) (formula: $C_{10}H_{15}N_6O_6P$).

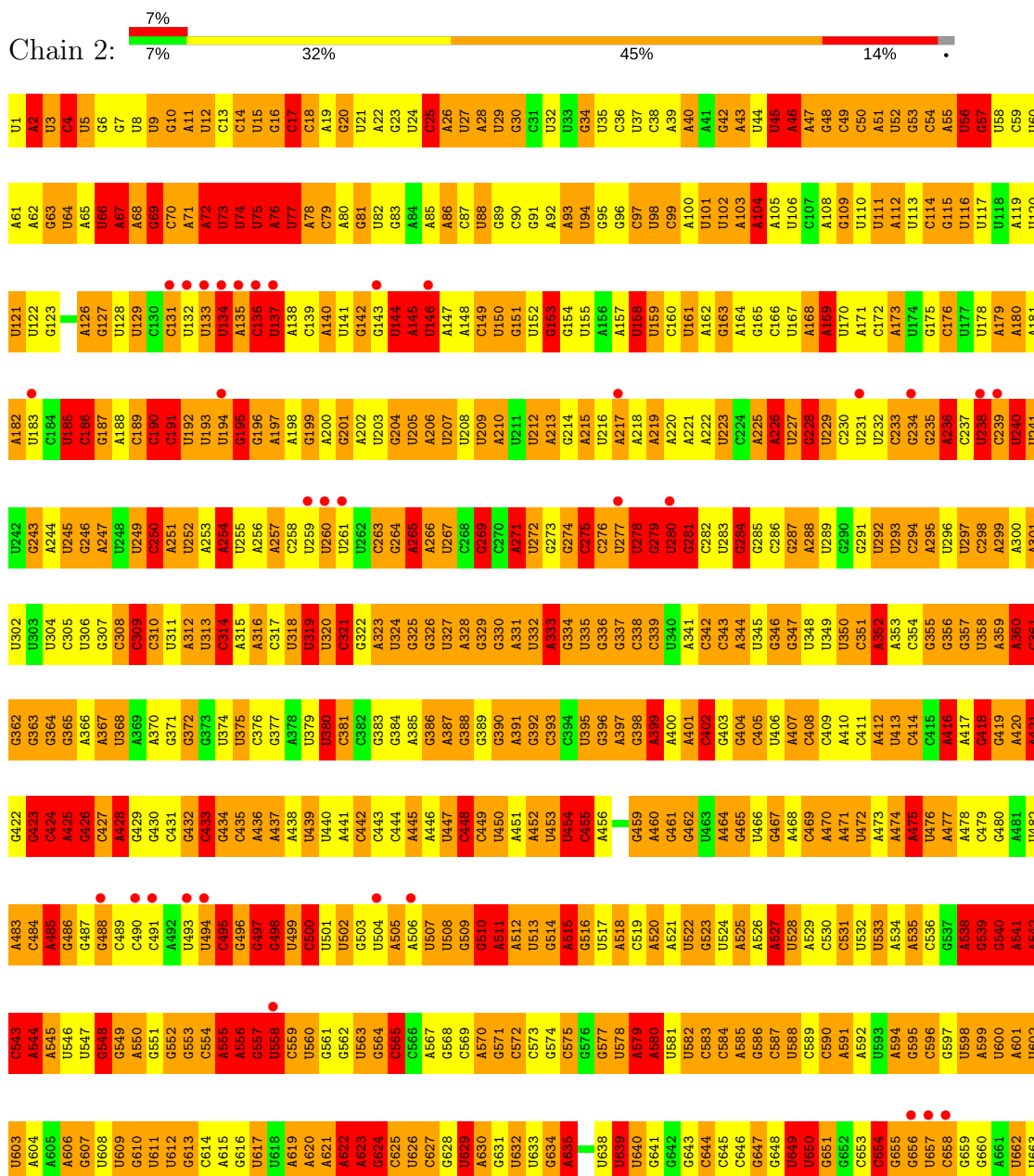


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
98	P	1	Total	C	N	O	P	0	0
			22	10	6	5	1		
98	p	1	Total	C	N	O	P	0	0
			22	10	6	5	1		

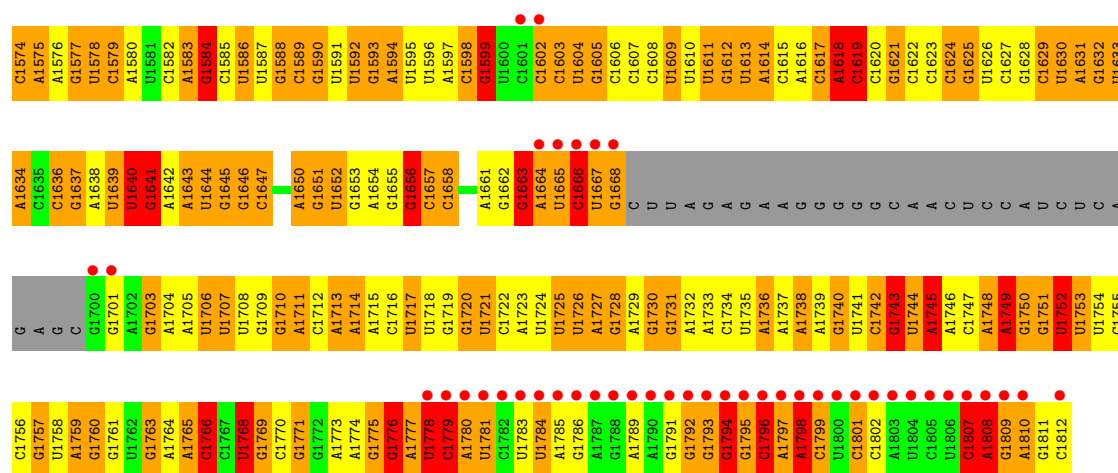
3 Residue-property plots

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

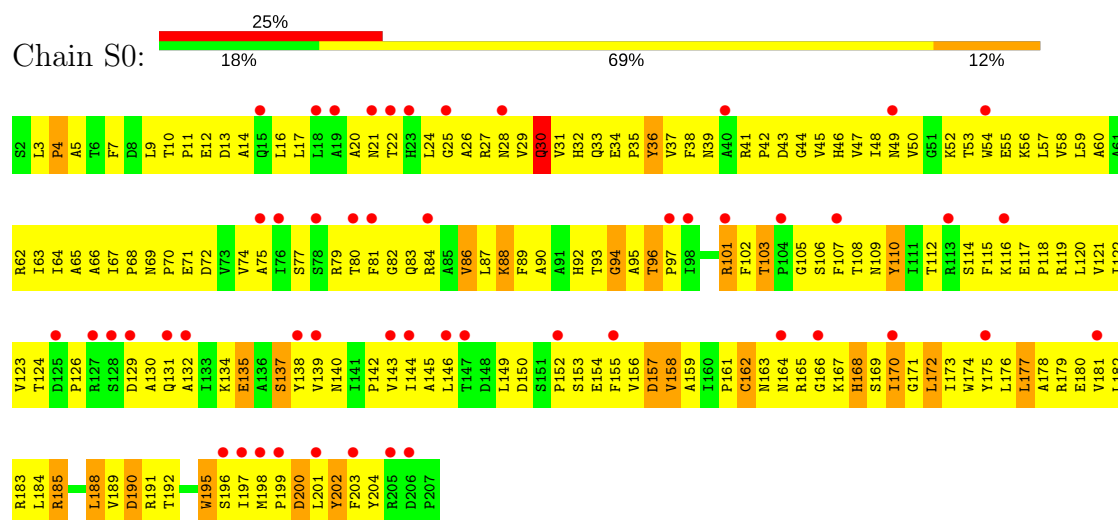
- Molecule 1: 18S ribosomal RNA



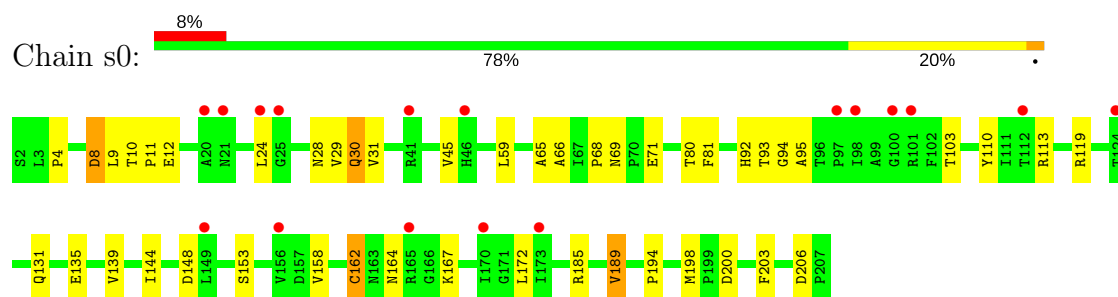
G1514	A1454	A1393	G1332	U1272	G1211	U1151	G1091	U1027	U965	U904	U844	G784	C724	U864
U1515	C1455	A1394	U1333	U1273	G1212	G1152	G1092	C1028	A966	G905	A845	G785	U725	C865
C1516	U1456	G1395	G1334	G1274	A1213	A1153	G1093	G1029	G967	A906	A846	A786	U726	C966
G1517	G1457	U1396	G1335	G1275	U1214	A1154	G1094	A968	G968	A907	U847	A787	U727	A667
U1518	A1458	U1397	U1336	U1276	U1215	G1155	G1095	A969	G969	C908	A848	A788	U728	A668
G1519	C1459	U1398	G1337	G1277	G1216	C1156	A1096	G449	G970	A909	G849	A789	U729	C669
C1520	G1460	G1399	C1338	G1278	A1217	C1157	G1097	U1035	A971	C910	G850	A790	C730	G670
U1521	A1461	A1400	U1339	A1279	C1218	U1158	U1098	G1036	U972	U911	G851	U791	U731	G671
G1522	A1462	G1401	U1340	G1280	G1219	U1159	A1099	U1040	U973	A912	A852	U792	U732	G672
C1523	G1463	G1402	G1341	U1281	C1220	C1160	U1100	U1041	G974	A913	C853	U793	U733	G673
G1524	C1464	C1403	C1342	A1282	A1221	G1161	G1101	A975	A975	C914	G854	A794	G734	C674
G1525	C1465	A1404	A1343	A1283	U1222	G1162	G1102	U1042	A976	U915	G855	A795	A735	C675
A1526	A1466	A1405	U1344	U1284	U1223	C1163	U1103	U1043	G977	A916	U856	U796	A736	U676
U1527	G1467	U1406	U1345	U1285	G1224	U1164	C1104	A1044	A978	C917	C857	A797	A737	U677
A1528	C1468	A1407	U1346	U1286	A1225	U1165	G1105	A1045	G979	U919	G858	A798	A738	U678
G1529	G1469	A1408	G1347	U1287	G1226	A1166	C1106	U1046	G980	G919	G859	A799	A739	C679
U1530	A1470	C1409	U1348	U1288	A1227	A1167	A1107	G1047	A981	C920	G860	A800	A740	U680
G1531	G1471	A1410	U1349	A1289	G1228	U1168	C1108	A1048	U982	C921	G861	C801	U741	U681
C1532	U1472	G1411	G1350	U1290	C1229	U1169	G1109	G1049	U983	A922	G862	G802	U742	U682
A1533	C1473	G1412	G1351	G1291	U1230	U1170	G1110	C1050	U984	A923	C863	U803	A743	C883
U1534	U1474	U1413	U1352	C1292	C1231	G1171	C1111	C1051	U987	A924	A864	U804	A744	U684
A1535	A1475	C1414	U1353	U1293	U1232	A1172	G1112	A1052	A988	G925	U865	U805	A745	G685
G1536	A1476	A1415	A1354	U1294	C1173	C1173	G1113	C1053	A989	C926	C866	G806	A746	C686
U1537	C1477	G1416	U1355	U1295	U1234	U1174	A1114	U1054	C990	A927	A867	G807	U747	C687
A1538	C1478	U1417	C1356	A1296	C1235	C1175	A1115	C1055	G991	U928	G868	U808	G748	U688
U1539	U1479	G1418	C1357	U1297	U1236	A1176	A1116	G1056	U992	U929	U869	U809	U749	A689
A1540	A1480	A1419	A1358	U1298	U1237	U1177	C1117	G1057	C993	U930	A870	C810	U750	A690
U1541	G1481	U1420	C1359	G1299	G1238	C1178	G1118	C1058	G994	C931	U871	U811	C751	C691
A1542	C1482	G1421	U1360	C1300	U1239	A1179	U1119	A1059	U1000	G932	U872	A812	A752	C692
U1543	C1483	C1422	U1361	C1301	U1240	C1180	A1120	C1060	U1001	C933	C873	U813	A753	U693
A1544	C1484	G1423	C1362	A1302	U1241	G1181	A1121	C1061	A994	A934	A874	U814	A754	U694
G1545	G1485	G1424	U1363	U1303	U1242	G1182	A1122	U1062	U998	A935	A875	U815	G755	C695
U1546	A1486	U1425	U1364	A1304	U1243	G1183	G1123	U1063	C999	G936	U876	U816	G756	A696
G1547	G1487	U1426	A1365	U1305	U1245	A1184	G1124	A1064	U1000	G937	U877	G817	A757	C697
A1548	A1488	A1427	G1366	C1306	G1246	C1185	A1125	C1065	U1001	G938	U878	U818	G758	U698
U1549	G1489	G1428	A1367	G1307	G1247	A1186	A1126	G1066	A1002	C939	U879	U819	G759	C699
A1550	G1490	A1429	G1368	A1308	G1248	A1187	U1127	A1067	A1003	G940	C880	G820	C760	C700
C1551	U1491	C1430	G1369	A1309	U1249	C1188	U1128	G1068	C1004	U941	A881	G821	G761	U701
A1552	C1492	G1431	G1370	C1310	G1250	U1189	G1129	A1069	C1005	U942	G882	U822	U762	U702
U1553	U1493	U1432	A1371	G1311	G1251	C1190	A1130	A1070	A1006	U943	A883	U823	A763	G703
C1554	A1494	U1433	C1372	A1312	U1252	A1191	C1131	U1078	U1014	U944	G884	U824	U764	U704
G1555	G1495	C1434	U1373	G1313	G1253	C1192	G1132	A1071	A1007	C945	G885	C825	U765	G705
A1556	G1496	U1435	A1374	A1314	G1254	G1193	G1133	C1073	A1008	C946	U886	U826	G766	C706
G1557	U1497	G1436	U1375	C1315	U1255	A1194	A1134	A1074	A1009	A946	G887	A827	G767	G707
U1558	A1498	G1437	C1376	C1316	G1256	G1195	A1135	A1075	A1010	C1021	A888	G828	U768	U708
A1559	A1499	G1438	G1377	U1317	C1257	U1196	G1136	C1011	C1011	A949	A889	G829	U769	C709
U1560	U1500	C1439	A1258	U1318	A1258	U1197	G1137	A1076	U1012	A950	A890	G830	G770	U710
C1561	C1501	U1380	U1259	A1319	U1259	C1198	G1138	G1077	A1013	U951	A891	A830	A771	U711
U1562	U1502	G1441	A1320	A1320	G1260	C1199	C1139	U1079	G1015	A952	U892	C831	A772	G712
C1563	U1503	G1442	C1321	C1321	G1261	A1200	A1140	U1080	C1016	A954	C893	A833	U773	G713
G1564	G1504	A1443	C1322	C1322	C1262	G1201	C1141	U1081	C1017	G955	U894	U834	A774	C714
U1565	U1505	A1384	U1323	G1323	C1263	A1202	C1142	U1082	G1018	A956	U895	C835	U775	G715
A1566	G1506	G1385	A1324	A1324	G1264	C1203	A1143	U1083	A1019	A957	G896	G836	A776	A716
G1567	A1507	C1446	C1325	C1325	U1265	A1204	C1144	G1084	C1020	C958	G897	U837	U777	A717
U1568	A1508	G1447	U1326	U1326	U1266	C1205	G1145	G1085	U1021	G959	A898	A838	U778	C718
A1569	U1509	G1388	A1327	A1327	G1267	A1206	A1146	U1086	A1022	A960	U899	A839	A779	C719
U1570	C1510	A1389	U1328	U1328	U1268	A1207	G1147	U1087	G1023	A961	U900	U840	G780	A720
G1571	U1511	A1390	U1329	U1329	U1269	A1208	G1148	U1088	G1024	A962	U901	G841	G781	G721
C1572	C1512	G1391	U1330	U1330	A1270	U1209	A1149	U1089	G1025	A902	A892	A842	A782	G722
G1573	C1513	G1453	A1331	A1331	G1271	A1210	G1150	G1090	A1026	U964	U903	U943	U783	A723



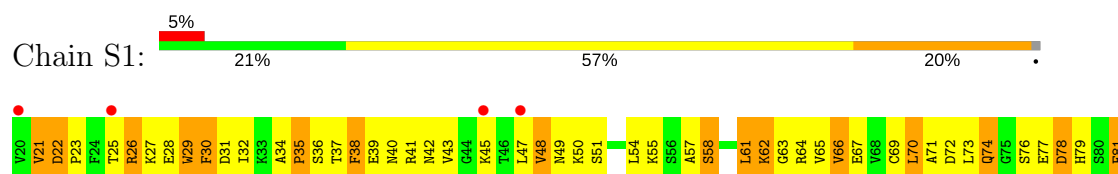
• Molecule 2: 40S ribosomal protein S0-A



• Molecule 2: 40S ribosomal protein S0-A

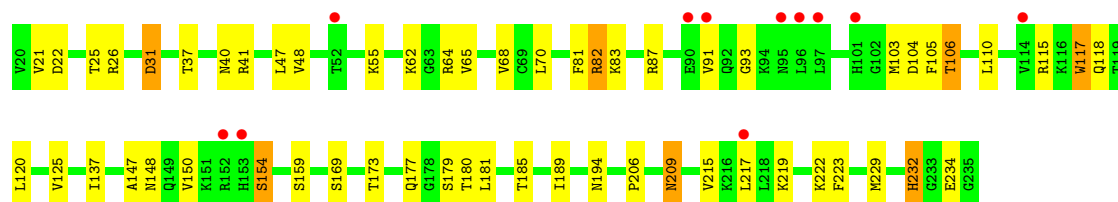
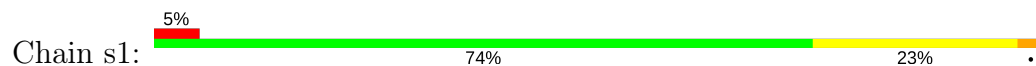


• Molecule 3: 40S ribosomal protein S1-A

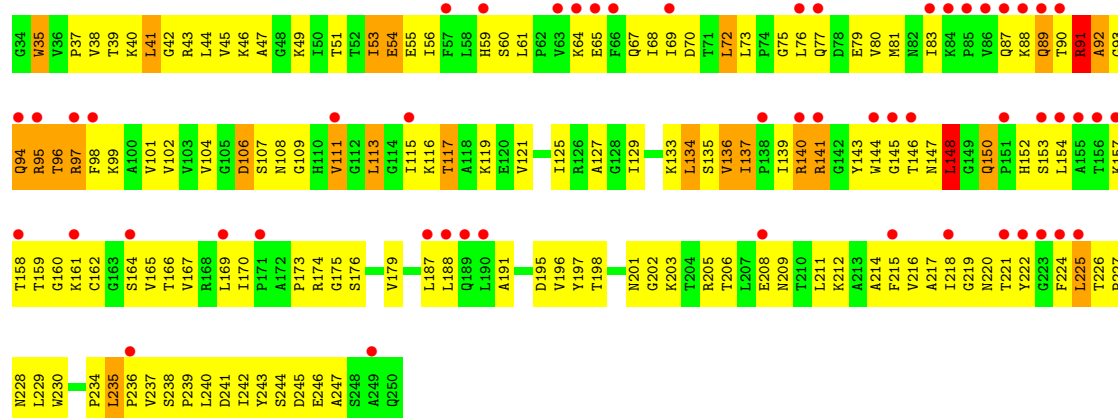




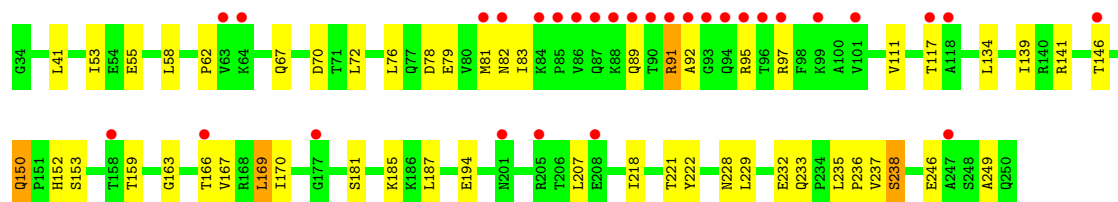
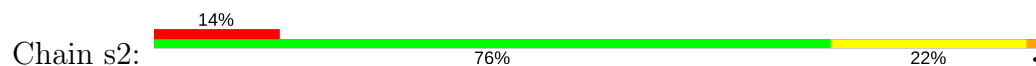
• Molecule 3: 40S ribosomal protein S1-A



• Molecule 4: 40S ribosomal protein S2

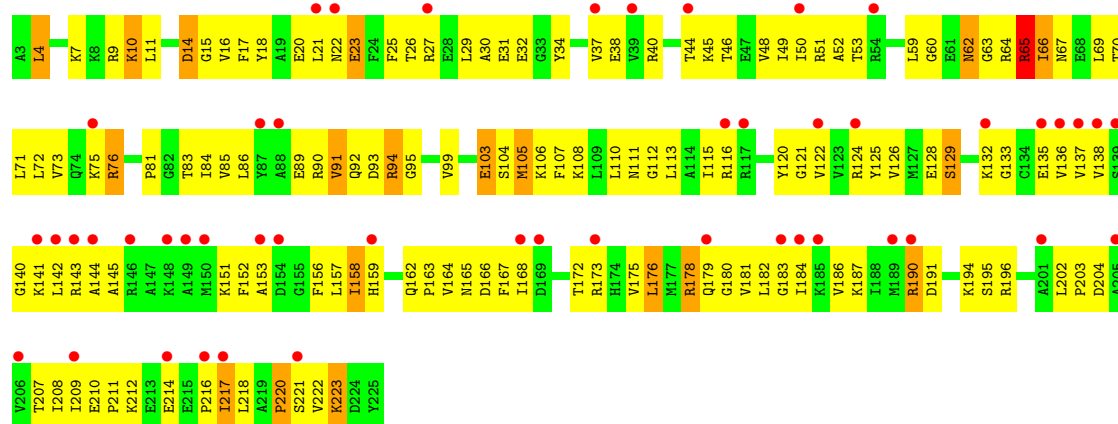


• Molecule 4: 40S ribosomal protein S2

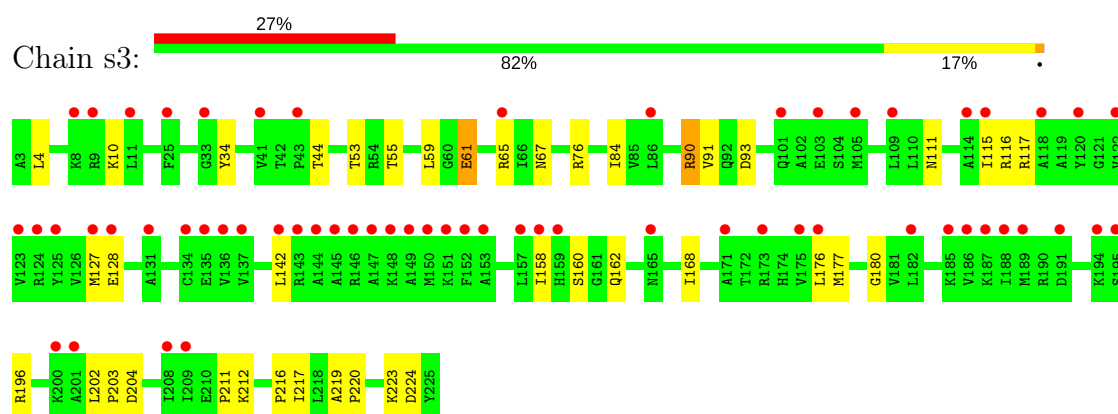


• Molecule 5: 40S ribosomal protein S3

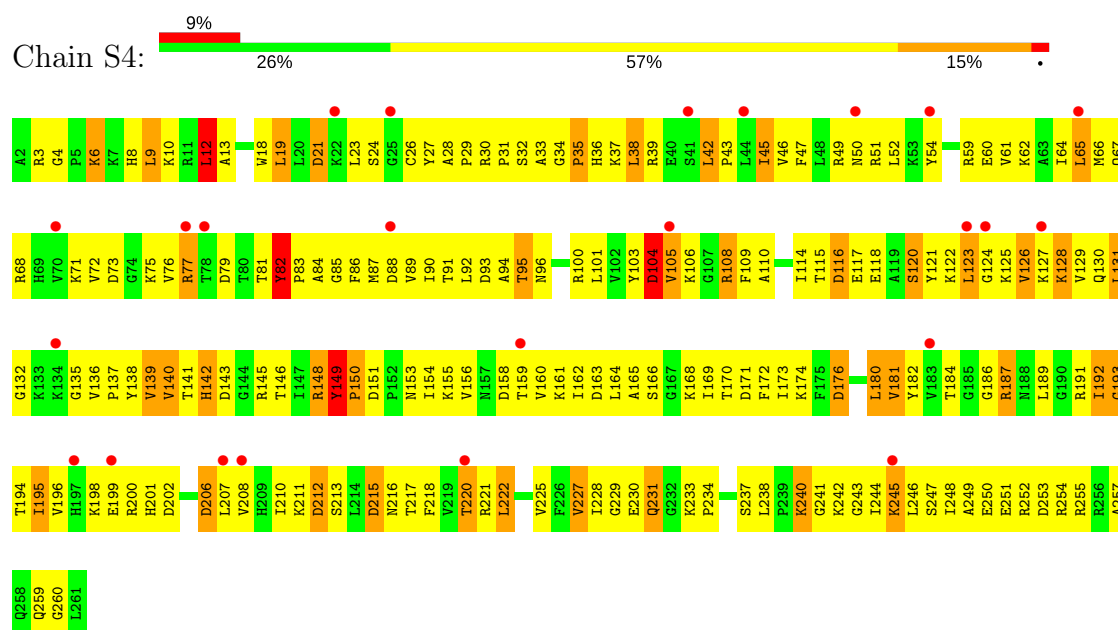




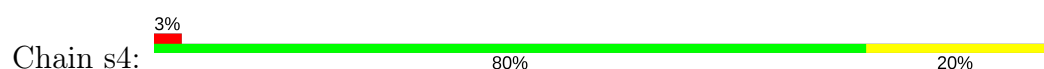
• Molecule 5: 40S ribosomal protein S3

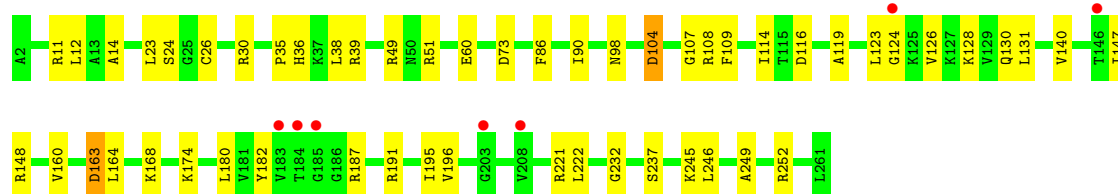


• Molecule 6: 40S ribosomal protein S4-A

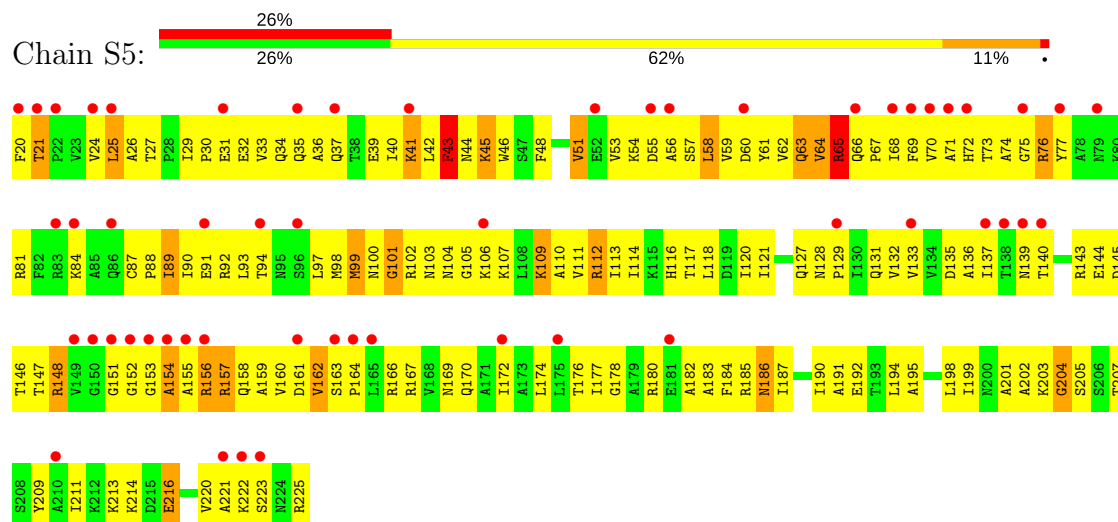


• Molecule 6: 40S ribosomal protein S4-A

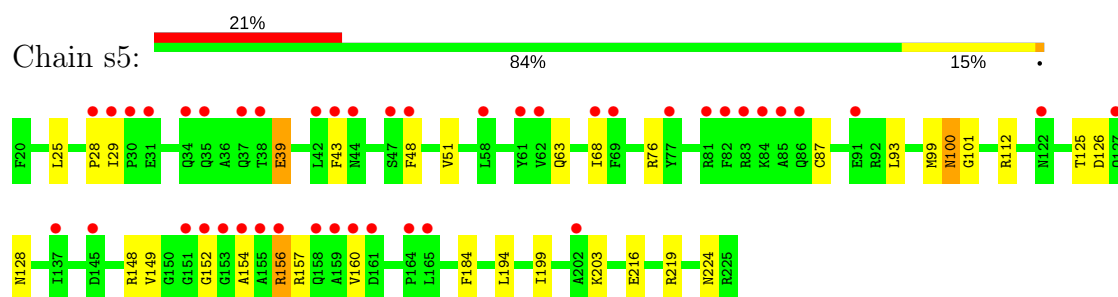




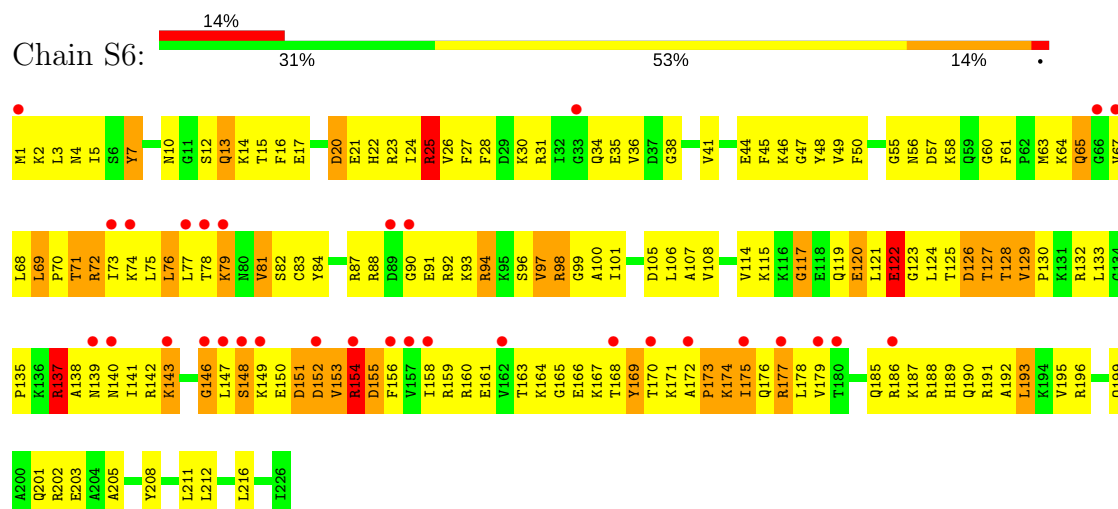
• Molecule 7: 40S ribosomal protein S5



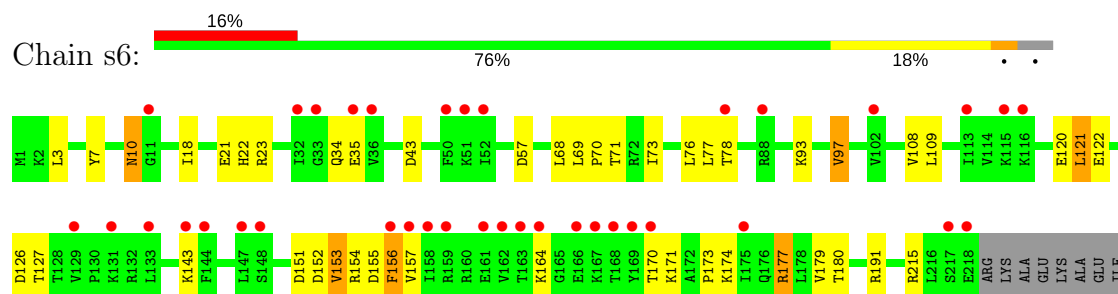
• Molecule 7: 40S ribosomal protein S5



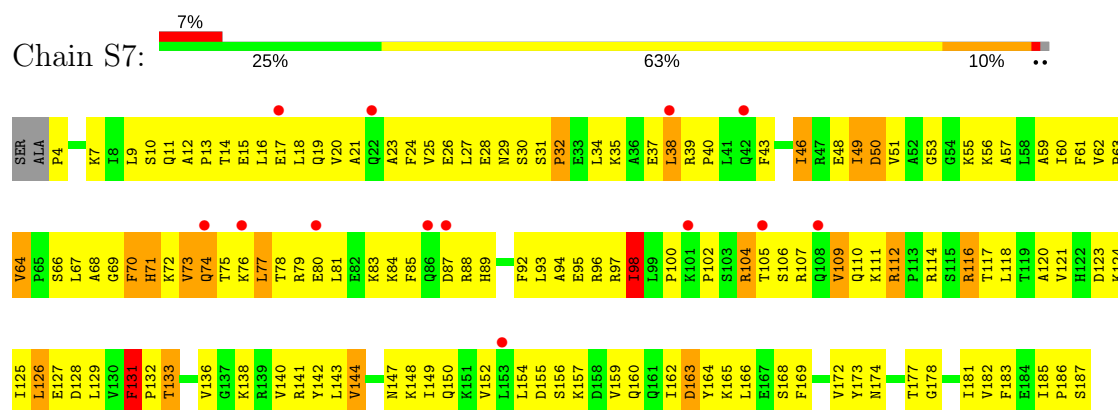
• Molecule 8: 40S ribosomal protein S6-A



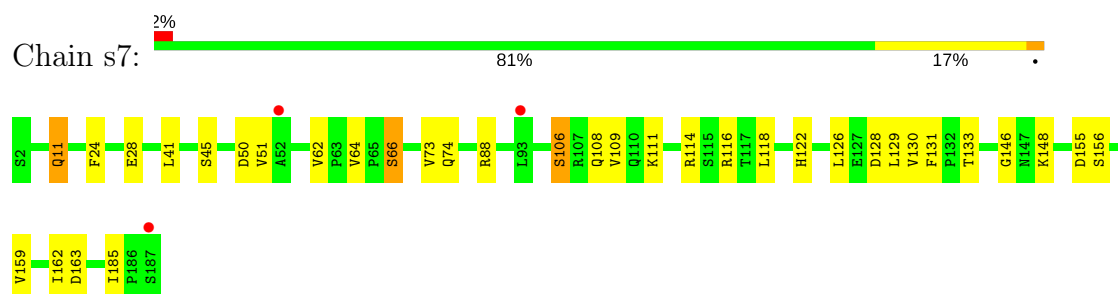
- Molecule 8: 40S ribosomal protein S6-A



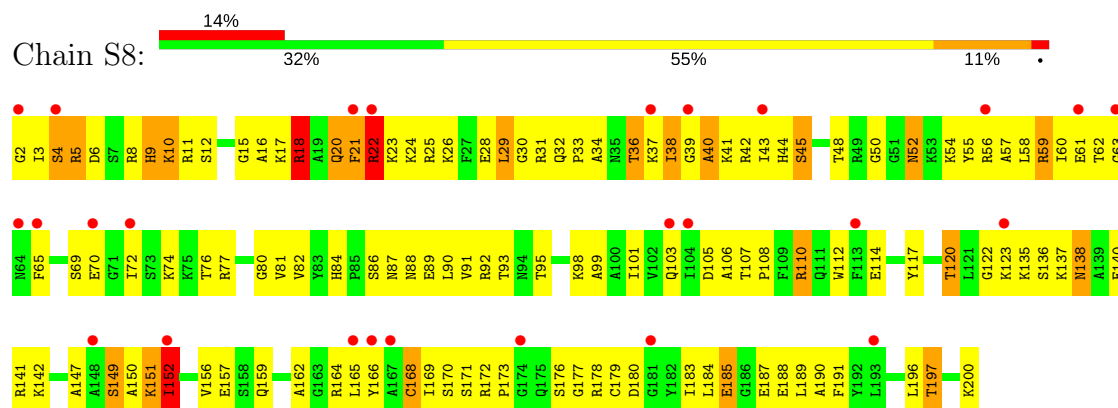
- Molecule 9: 40S ribosomal protein S7-A



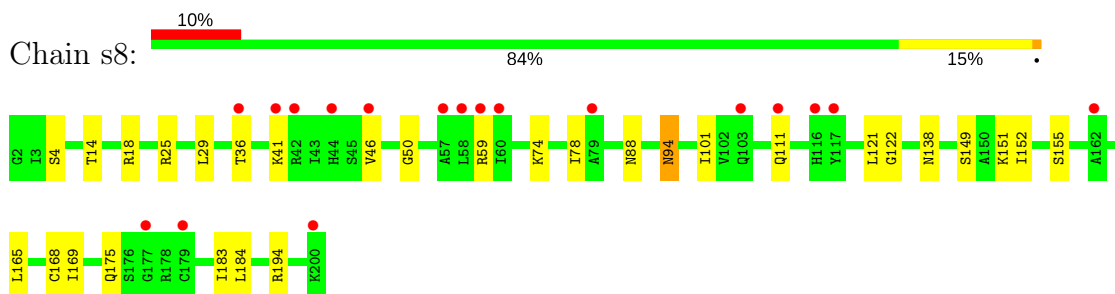
- Molecule 9: 40S ribosomal protein S7-A



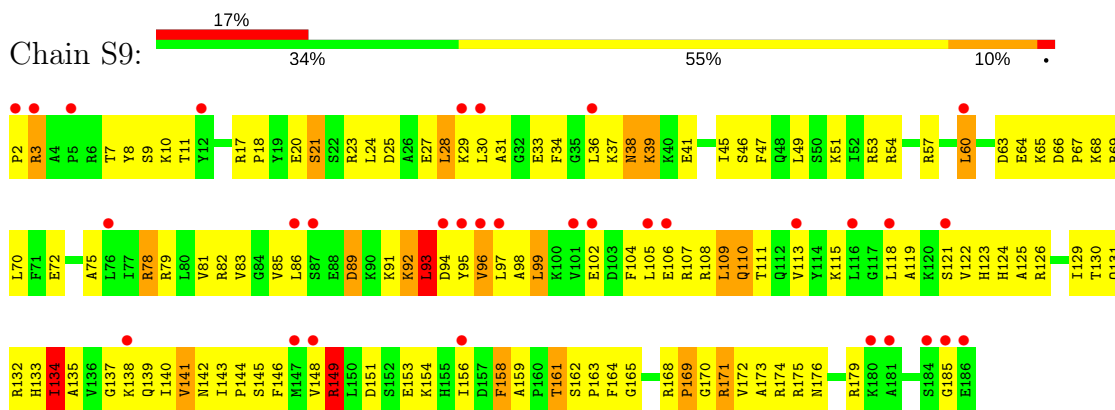
- Molecule 10: 40S ribosomal protein S8



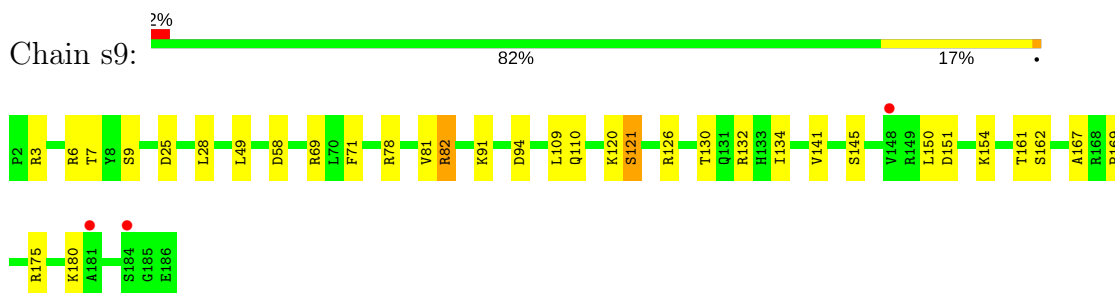
- Molecule 10: 40S ribosomal protein S8



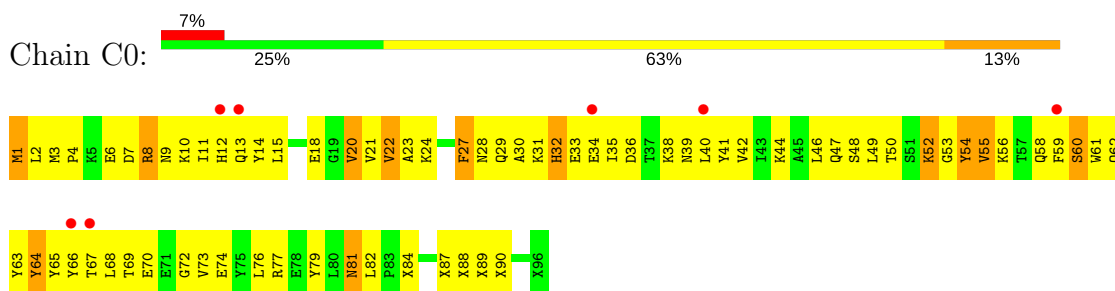
• Molecule 11: 40S ribosomal protein S9-A



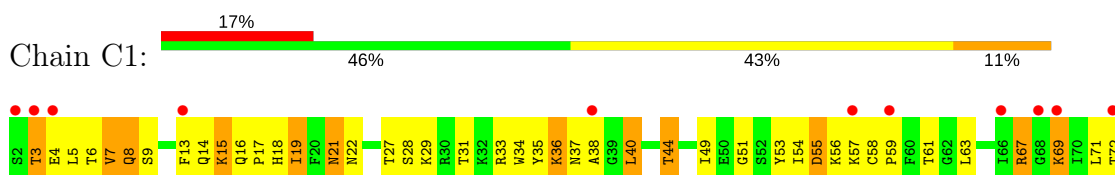
• Molecule 11: 40S ribosomal protein S9-A

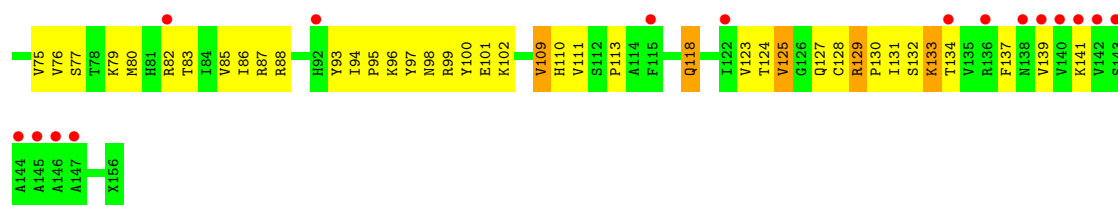


• Molecule 12: 40S ribosomal protein S10-A, 40S Ribosomal Protein S10

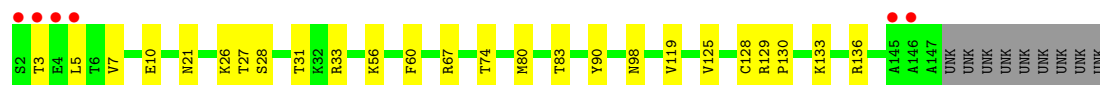
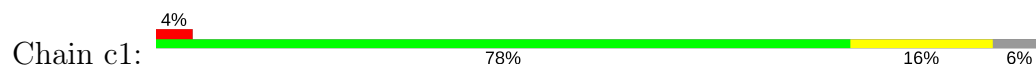


• Molecule 13: 40S ribosomal protein S11-A, 40S Ribosomal Protein S11

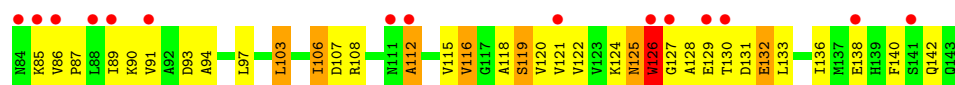




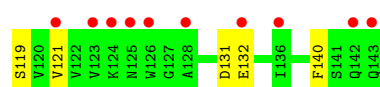
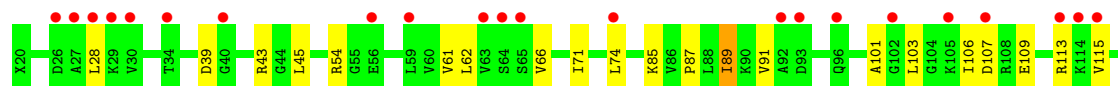
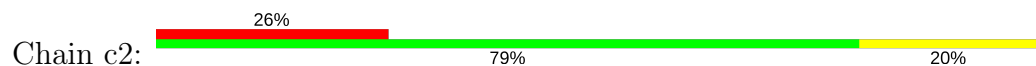
- Molecule 13: 40S ribosomal protein S11-A,40S Ribosomal Protein S11



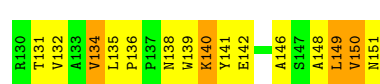
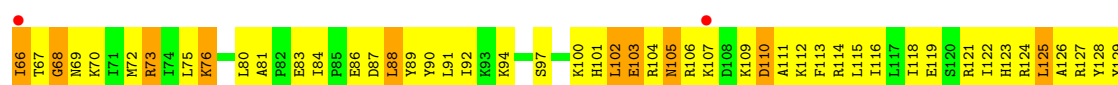
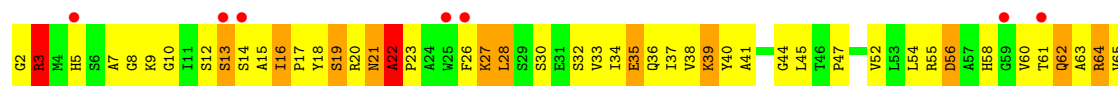
- Molecule 14: 40S Ribosomal Protein S12,40S ribosomal protein S12



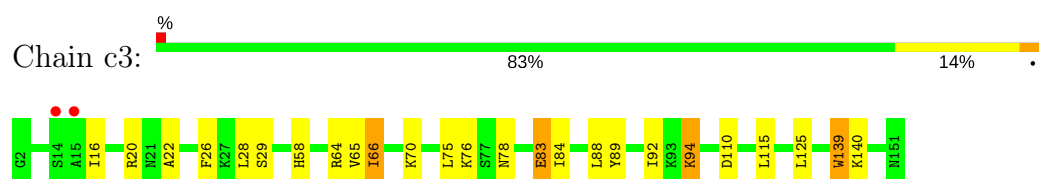
- Molecule 14: 40S Ribosomal Protein S12,40S ribosomal protein S12



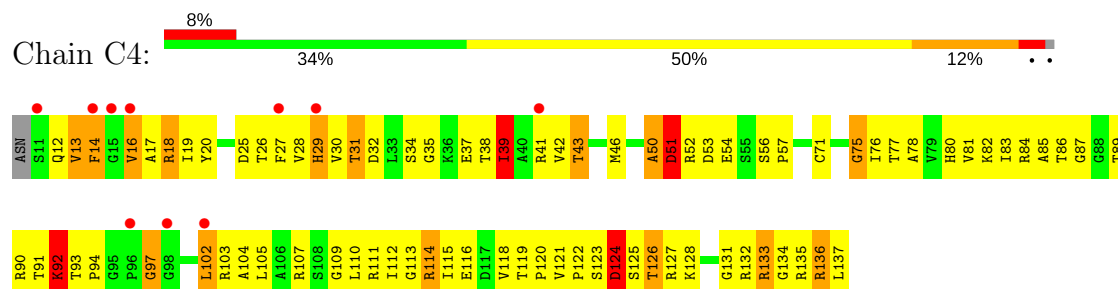
- Molecule 15: 40S ribosomal protein S13



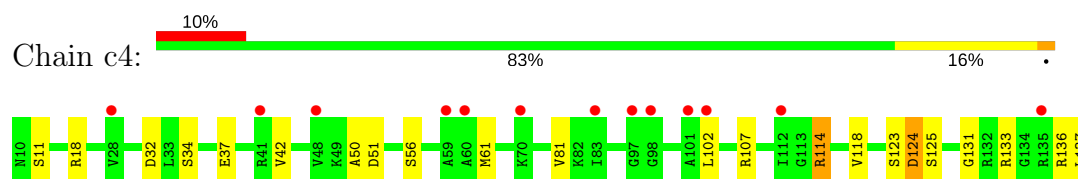
- Molecule 15: 40S ribosomal protein S13



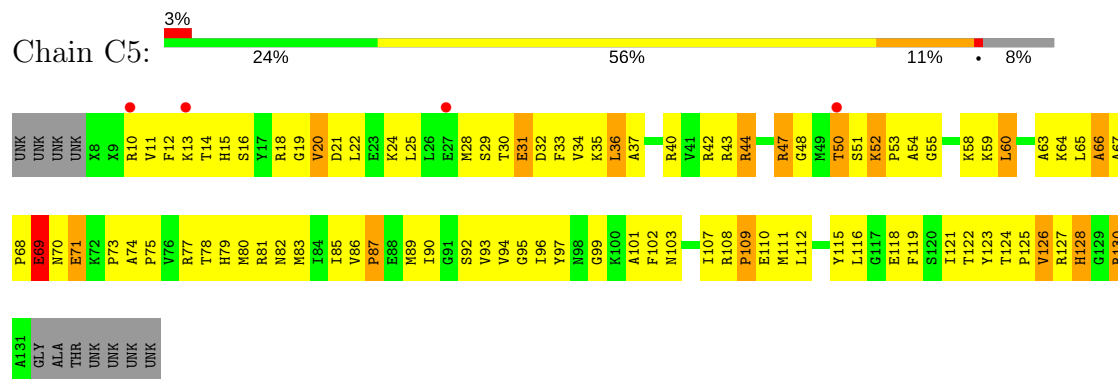
- Molecule 16: 40S ribosomal protein S14-A



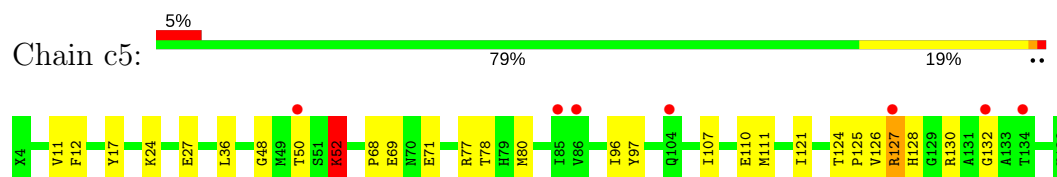
- Molecule 16: 40S ribosomal protein S14-A



- Molecule 17: 40S Ribosomal Protein S15,40S ribosomal protein S15,40S Ribosomal Protein S15

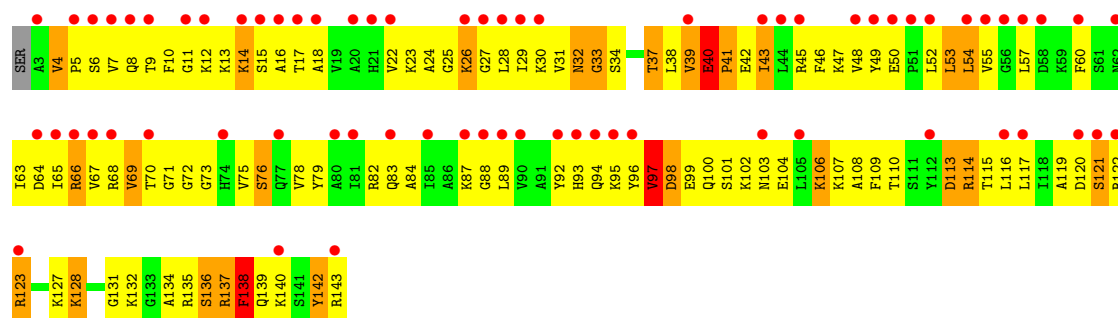


- Molecule 17: 40S Ribosomal Protein S15,40S ribosomal protein S15,40S Ribosomal Protein S15

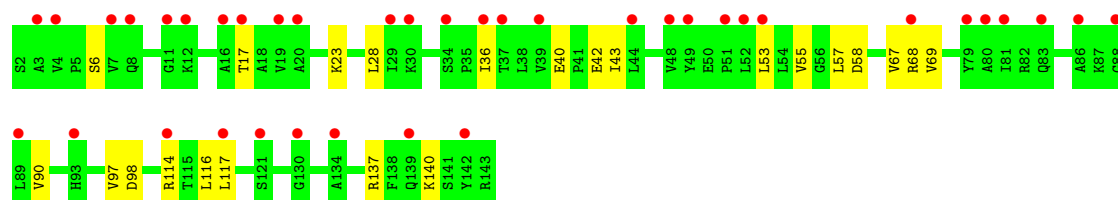
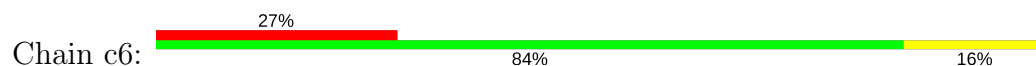


- Molecule 18: 40S ribosomal protein S16-A

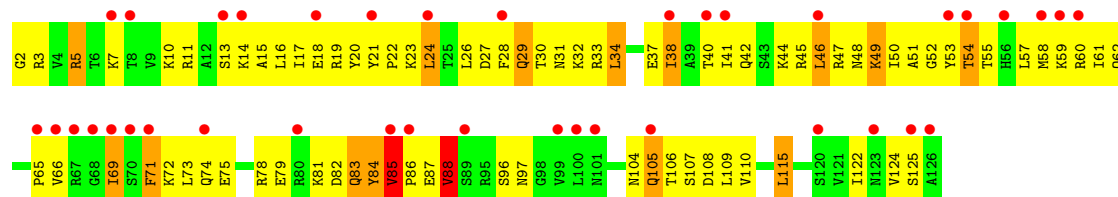




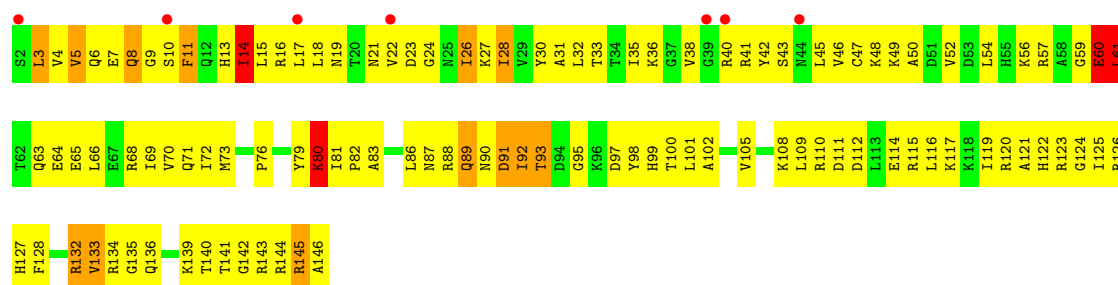
• Molecule 18: 40S ribosomal protein S16-A



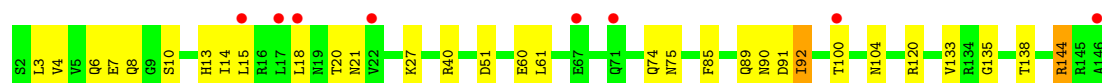
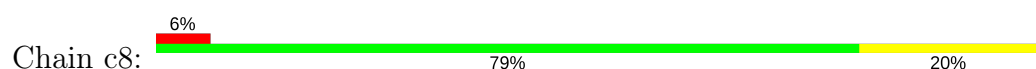
• Molecule 19: ES17



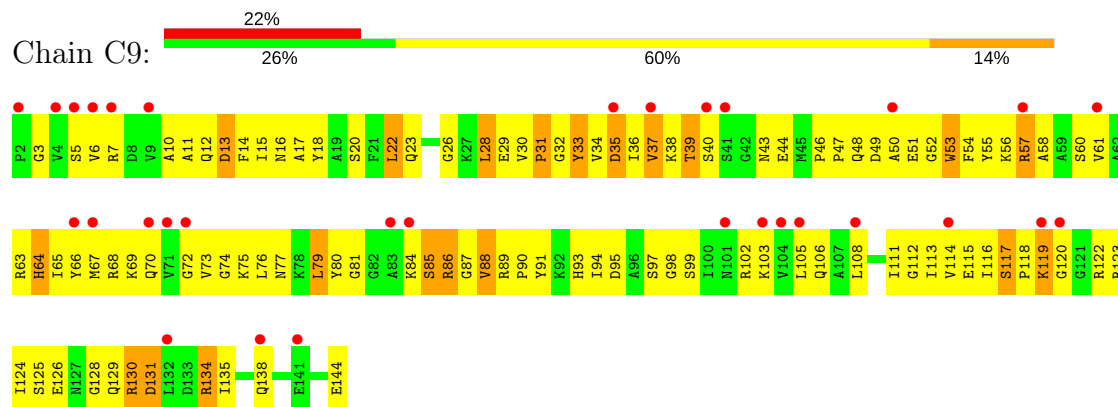
• Molecule 20: 40S ribosomal protein S18-A



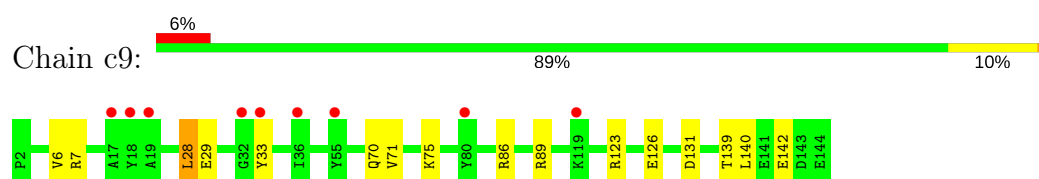
• Molecule 20: 40S ribosomal protein S18-A



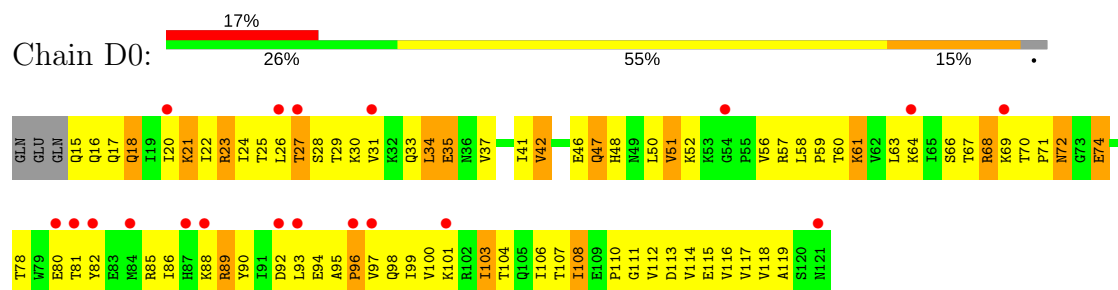
- Molecule 21: 40S ribosomal protein S19-A



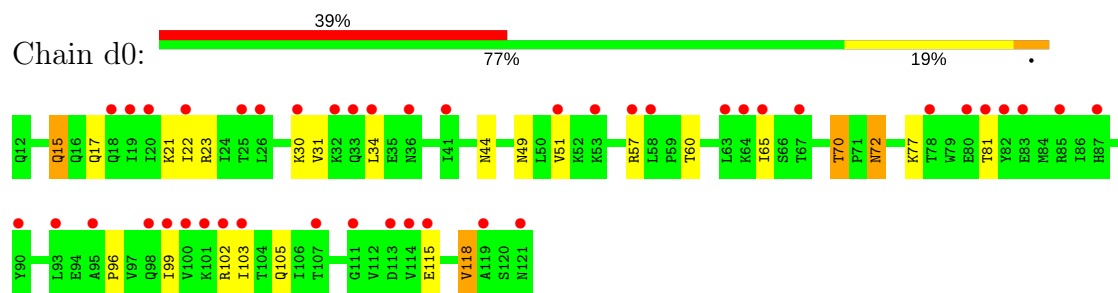
- Molecule 21: 40S ribosomal protein S19-A



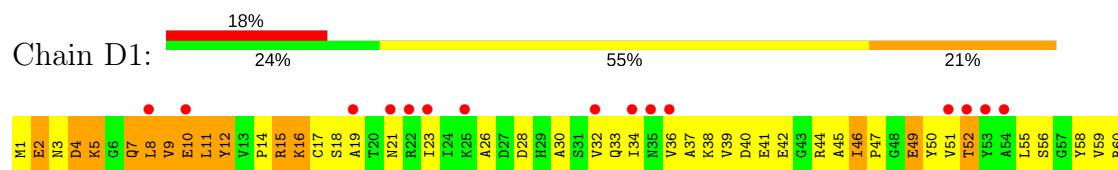
- Molecule 22: 40S ribosomal protein S20

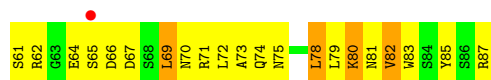


- Molecule 22: 40S ribosomal protein S20

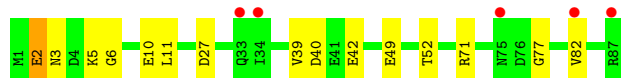
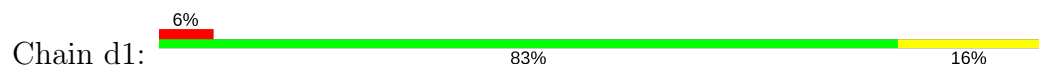


- Molecule 23: 40S ribosomal protein S21-A

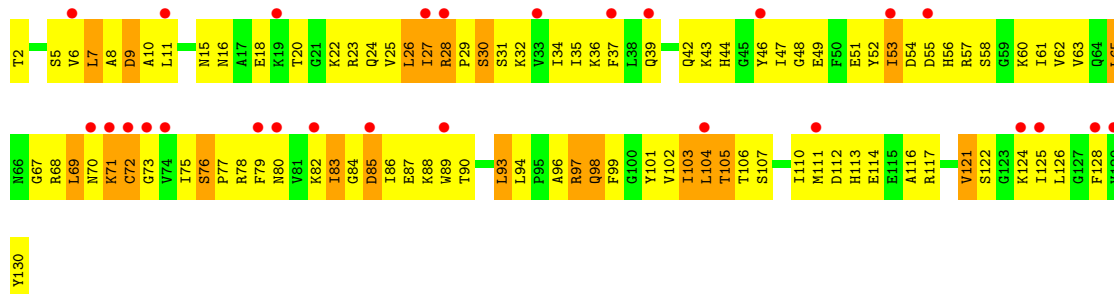




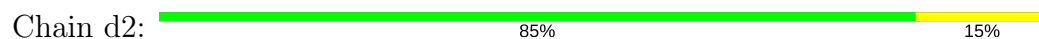
- Molecule 23: 40S ribosomal protein S21-A



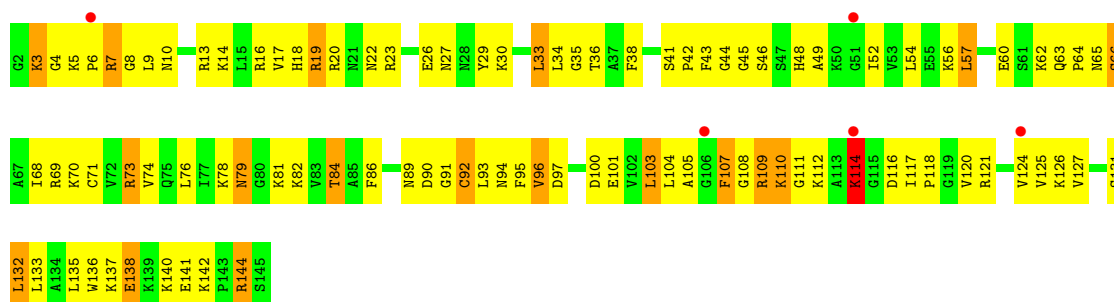
- Molecule 24: 40S ribosomal protein S22-A



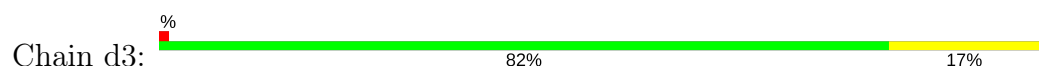
- Molecule 24: 40S ribosomal protein S22-A



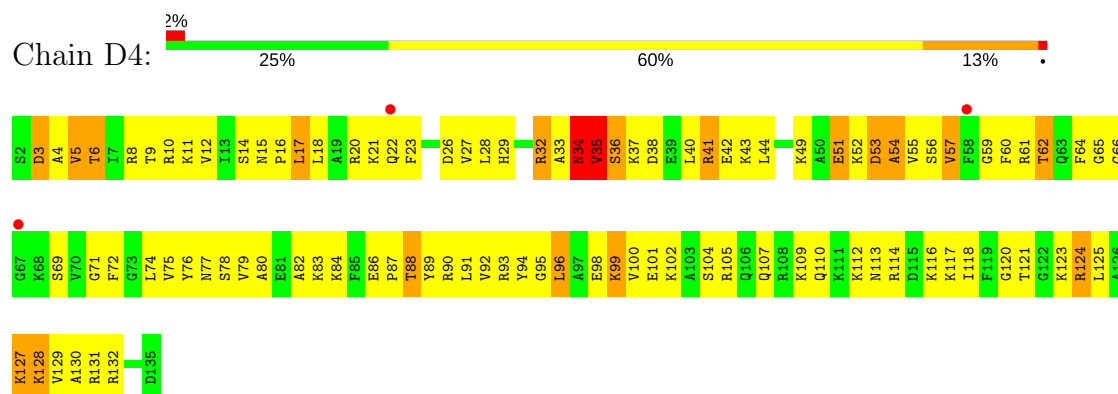
- Molecule 25: 40S ribosomal protein S23-A



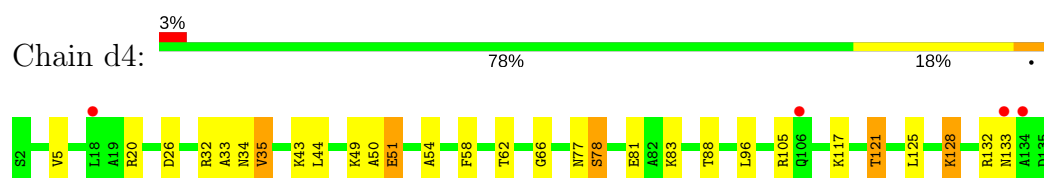
- Molecule 25: 40S ribosomal protein S23-A



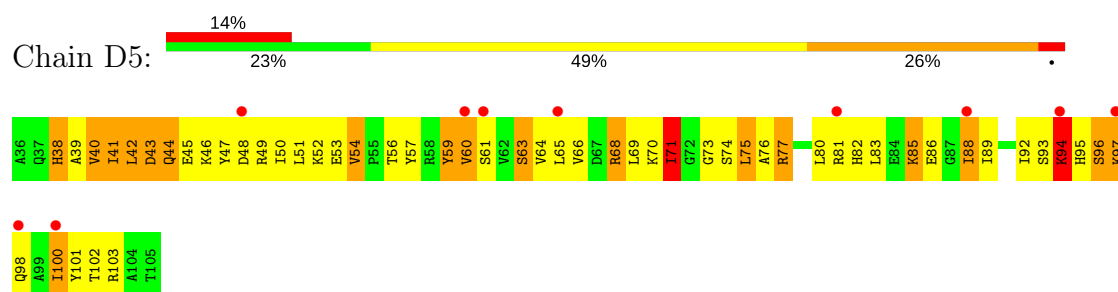
- Molecule 26: 40S ribosomal protein S24-A



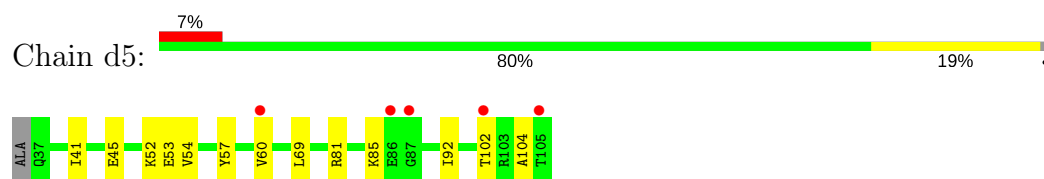
- Molecule 26: 40S ribosomal protein S24-A



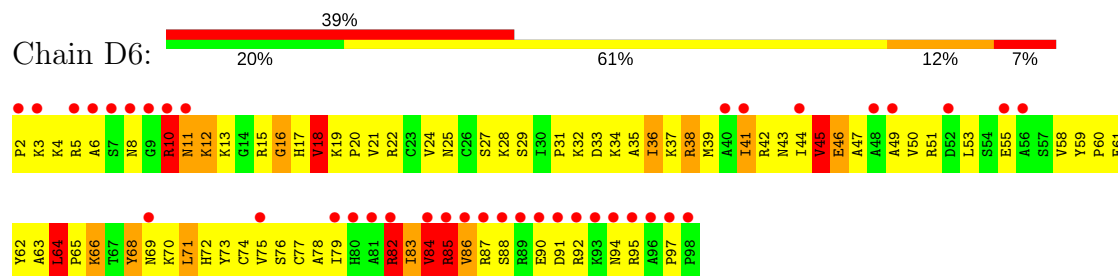
- Molecule 27: 40S ribosomal protein S25-A



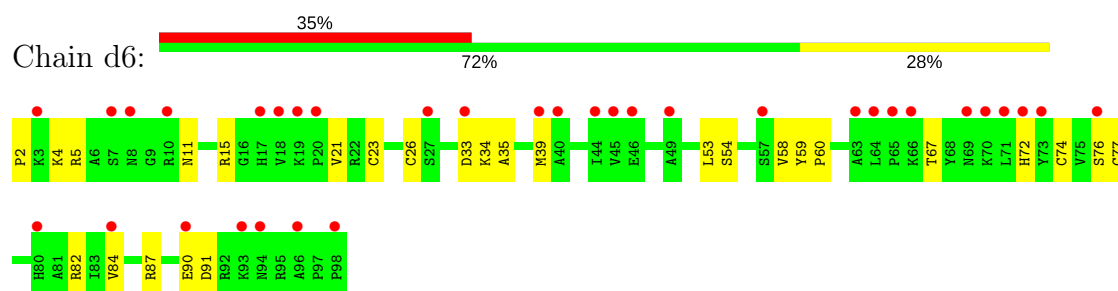
- Molecule 27: 40S ribosomal protein S25-A



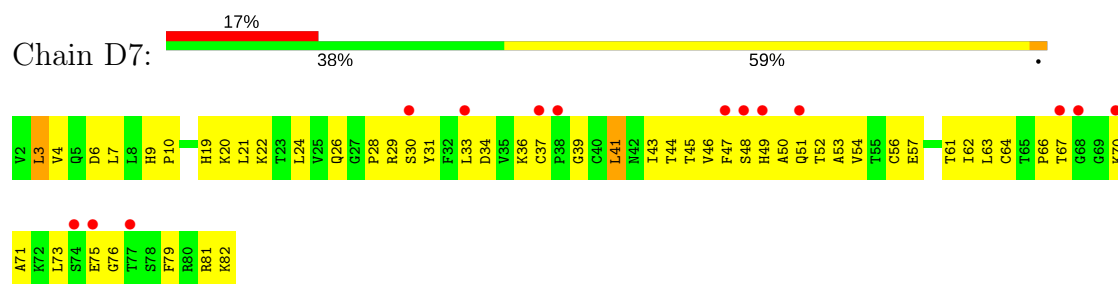
- Molecule 28: 40S ribosomal protein S26-B



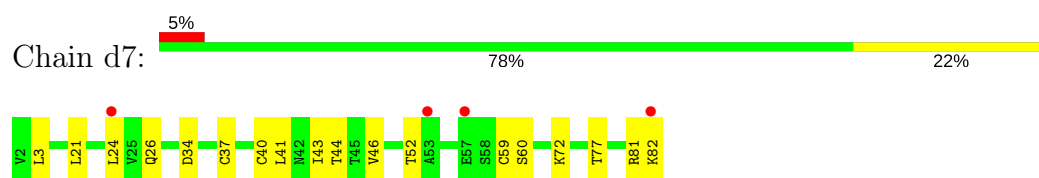
- Molecule 28: 40S ribosomal protein S26-B



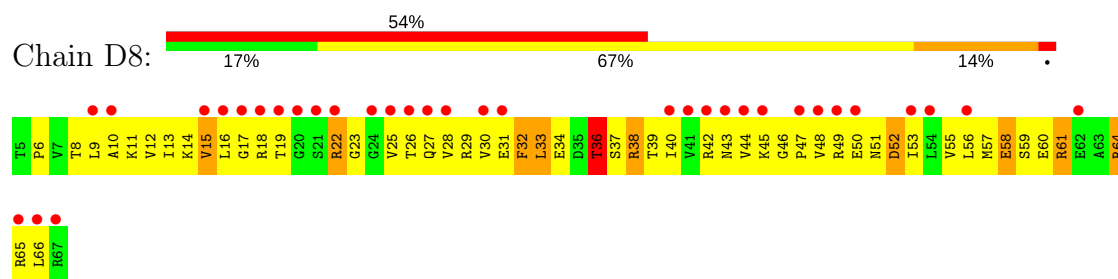
- Molecule 29: 40S ribosomal protein S27-A



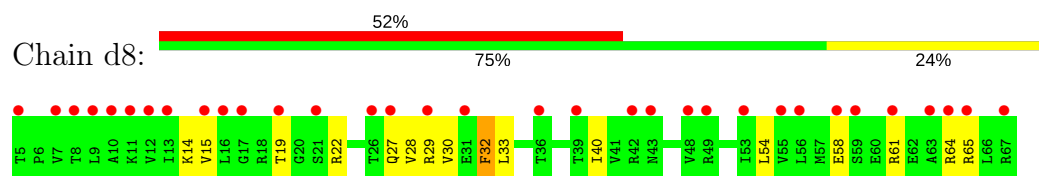
- Molecule 29: 40S ribosomal protein S27-A



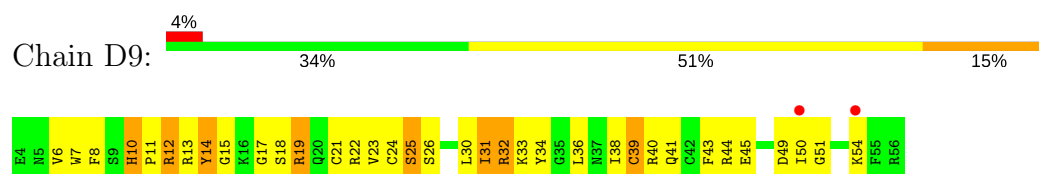
- Molecule 30: 40S ribosomal protein S28-A



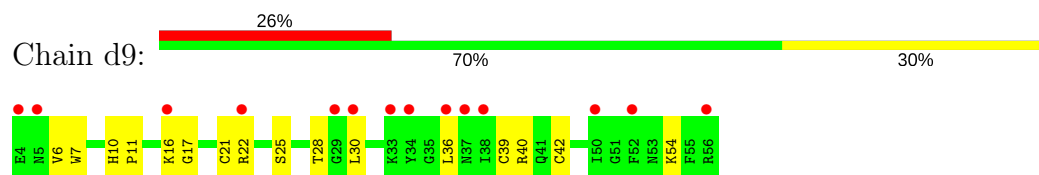
- Molecule 30: 40S ribosomal protein S28-A



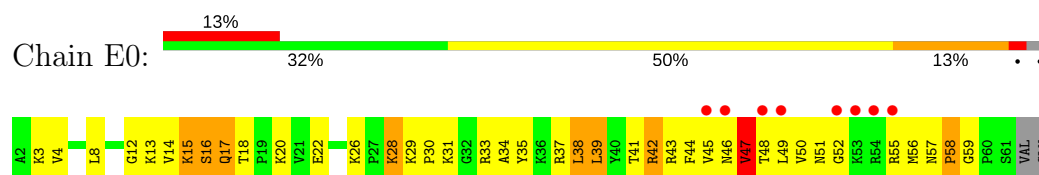
- Molecule 31: 40S ribosomal protein S29-A



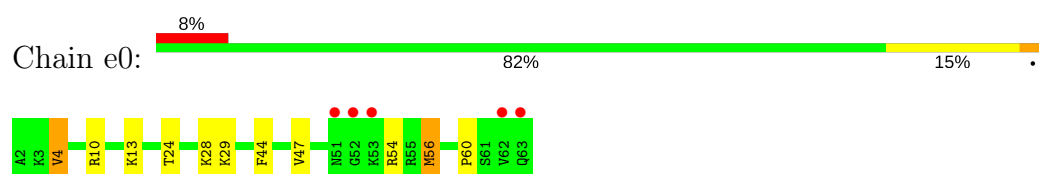
- Molecule 31: 40S ribosomal protein S29-A



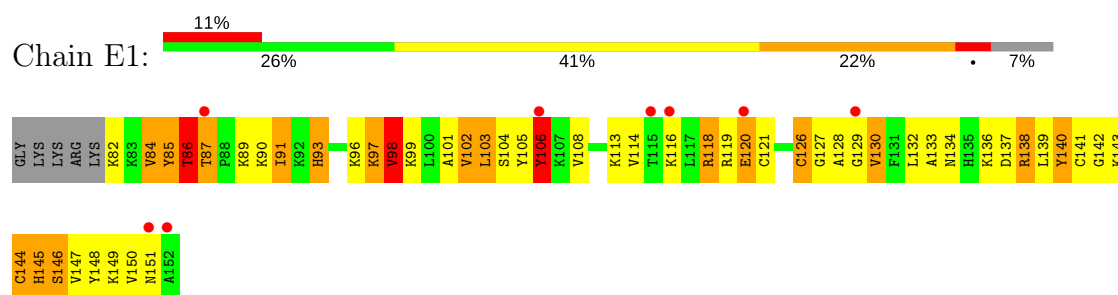
- Molecule 32: 40S ribosomal protein S30-A



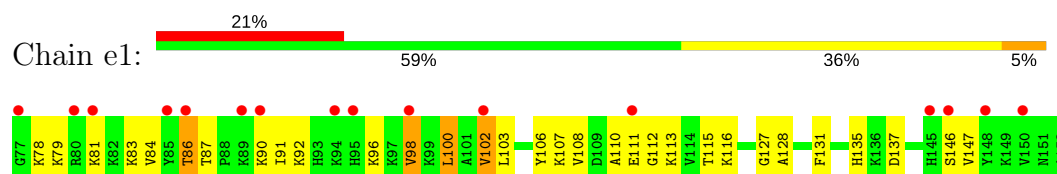
- Molecule 32: 40S ribosomal protein S30-A



- Molecule 33: Ubiquitin-40S ribosomal protein S31

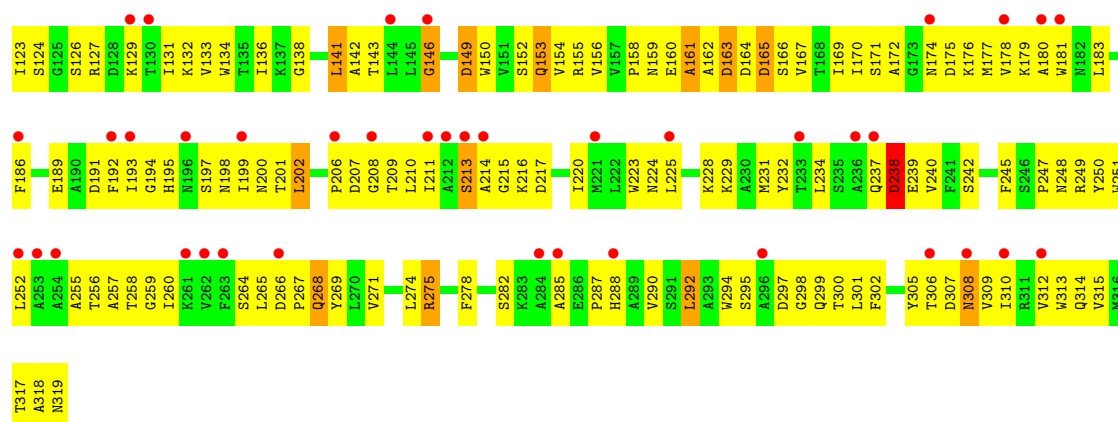


- Molecule 33: Ubiquitin-40S ribosomal protein S31

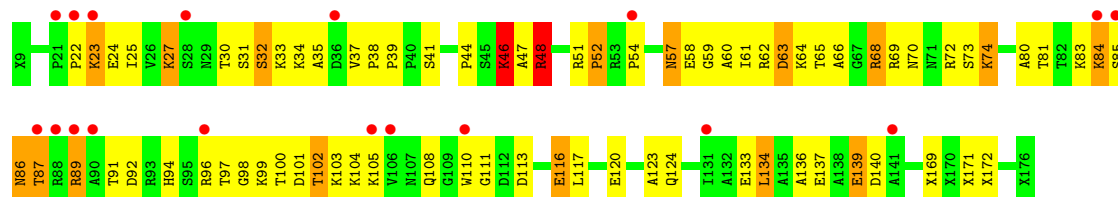


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

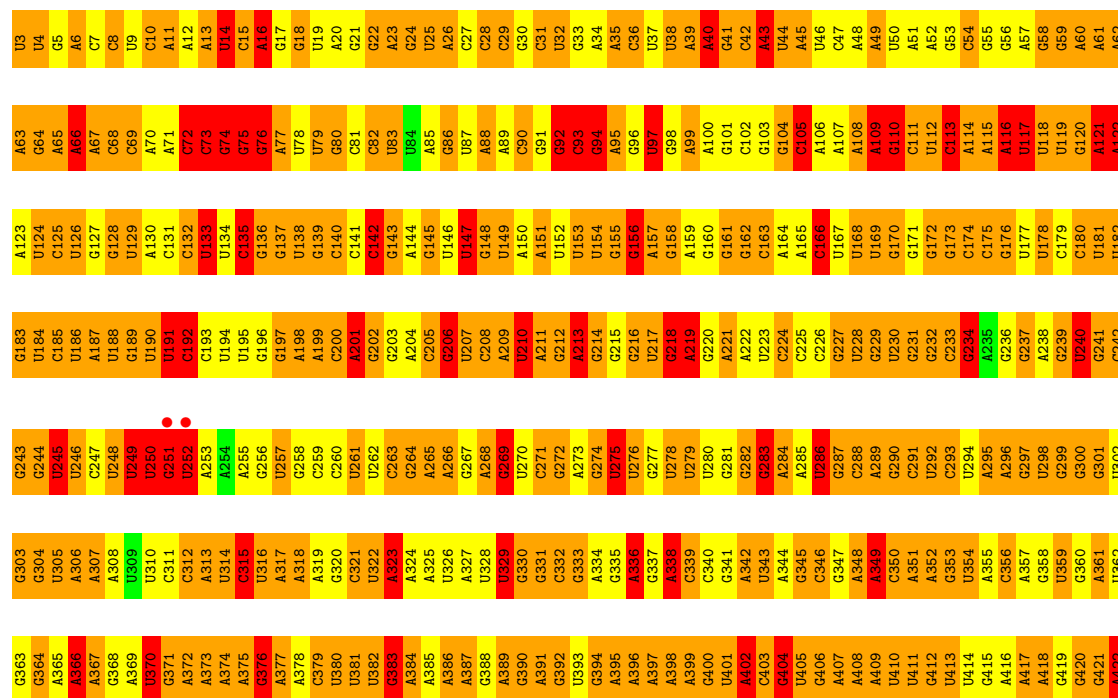




- Molecule 35: Ribosome-bound protein Stm1,Suppressor protein STM1,Ribosome-bound protein Stm1



- Molecule 36: 25S ribosomal RNA



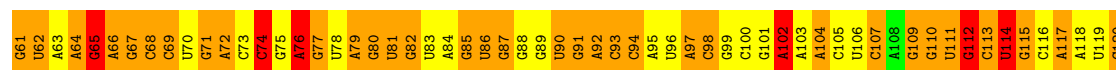
U1378	U1379	A1318	G1319	U1258	C1186	A1136	C1076	C1016	U956	A896	A836	U776	A716	A656	C596	U536	A423
G1379	G1380	G1381	G1382	A1259	A1197	C1137	U1077	C1017	C957	U897	A837	U777	C717	A657	G597	A537	G424
A1381	A1382	A1383	A1384	A1260	C1198	G1138	U1078	G1018	C958	U898	G838	U778	G718	G658	C598	C538	G425
G1385	G1386	G1387	G1388	A1261	C1199	G1139	U1079	G1019	C959	U899	G839	U779	G719	G659	C599	C539	G426
U1387	U1388	U1389	U1390	A1262	A1200	G1140	A1080	G1020	U960	G900	C840	A780	A720	A660	G600	U540	C427
U1391	U1392	U1393	U1394	A1263	C1201	C1141	U1081	G1021	C961	G901	A841	G781	G721	G661	U601	U541	A428
U1395	U1396	U1397	U1398	A1264	A1202	G1142	U1082	U1022	A962	G902	G842	U782	G722	U662	A602	G542	U429
U1401	U1402	U1403	U1404	U1265	A1203	A1143	G1083	C1023	G963	U903	A843	A783	U723	C663	A603	C543	U430
U1405	U1406	U1407	U1408	U1266	A1204	U1144	A1084	G1024	G964	A904	G844	A784	U724	U664	G604	C544	U431
U1409	U1410	U1411	U1412	U1267	A1205	G1145	A1085	A1025	A965	U905	G845	A785	G725	A665	U605	U545	A432
U1413	U1414	U1415	U1416	U1268	G1206	U1146	A1086	A1026	U966	A906	A846	A786	G726	A666	C606	C546	A433
U1417	U1418	U1419	U1420	U1269	G1207	G1147	U1087	U1027	A967	G907	A847	G787	G727	C667	A607	G547	U434
U1421	U1422	U1423	U1424	U1270	G1208	U1148	U1088	U1028	G968	G908	A848	G788	G728	G668	A608	G548	U435
U1425	U1426	U1427	U1428	U1271	G1209	G1149	G1089	G1029	C969	G909	C849	A789	C729	U669	G609	U549	A436
U1429	U1430	U1431	U1432	A1272	U1210	A1150	G1090	A1030	A970	G910	C850	A790	C730	C670	G610	A550	G437
U1433	U1434	U1435	U1436	A1273	U1211	U1151	A1091	C1031	G971	C911	C851	A791	C731	U671	A611	A551	A438
U1437	U1438	U1439	U1440	A1274	A1212	G1152	A1092	C1032	A972	G912	U852	G792	C732	U672	A612	U552	A439
U1441	U1442	U1443	U1444	A1275	G1213	A1153	A1093	U1033	A973	A913	G853	G793	G733	U673	G613	U553	A440
U1445	U1446	U1447	U1448	A1276	U1214	A1154	U1094	U1034	G974	A914	G854	U794	C734	G674	C614	A554	G494
U1449	U1450	U1451	U1452	U1277	U1215	C1155	U1095	G1035	C975	A915	U855	G795	A735	C675	U615	U555	G495
U1453	U1454	U1455	U1456	A1278	C1216	C1156	U1096	A1036	U976	G916	G856	G796	A736	G676	U616	C496	G496
U1457	U1458	U1459	U1460	C1279	U1217	G1157	U1097	C1037	C977	A917	G857	G797	G737	A677	G617	A557	C497
U1461	U1462	U1463	U1464	A1280	U1218	A1158	A1098	C1038	G978	C918	A858	G798	G738	U678	C618	U558	A498
U1465	U1466	U1467	U1468	A1281	G1219	U1159	A1099	U1039	U979	A919	G859	G799	G739	U679	A619	A559	G499
U1469	U1470	U1471	U1472	U1282	U1220	C1160	U1100	A1040	A980	U920	G860	G799	G740	G680	U620	C560	C500
U1473	U1474	U1475	U1476	C1221	A1221	G1161	G1101	U1041	U981	A921	C861	A801	U741	U681	A621	C561	A501
U1477	U1478	U1479	U1480	G1222	A1222	A1162	A1102	U1042	C982	C922	U862	C802	G742	U682	A622	C562	U502
U1481	U1482	U1483	U1484	A1283	G1223	A1163	A1103	C1043	A983	C923	G863	C803	G743	U683	A623	C563	C503
U1485	U1486	U1487	U1488	A1284	C1224	G1164	G1104	U1044	G984	A924	G864	C804	A744	G684	G624	U564	A504
U1489	U1490	U1491	U1492	A1285	A1225	A1165	A1105	U1045	U985	A925	U865	G805	G745	G685	G625	U565	G505
U1493	U1494	U1495	U1496	U1286	G1226	G1166	G1106	A1046	U986	A926	A866	A806	A746	G686	U626	U566	U506
U1497	U1498	U1499	U1500	C1227	U1227	U1167	C1107	A1047	U987	C927	G867	A807	A747	U687	U627	G567	U507
U1501	U1502	U1503	U1504	A1288	C1228	U1168	U1108	U1048	U988	C928	C868	A808	A748	G688	A628	G568	U508
U1505	U1506	U1507	U1508	A1289	G1229	U1169	U1109	C1049	A989	A929	G869	G809	C749	U689	U629	A569	U509
U1509	U1510	U1511	U1512	A1290	U1230	A1170	U1110	U1050	U990	C930	G870	A810	G750	A690	A630	A570	G510
U1513	U1514	U1515	U1516	A1291	G1231	G1171	U1111	U1051	G991	C931	U871	U811	A751	A691	U631	U571	G511
U1517	U1518	U1519	U1520	A1292	C1232	U1172	U1112	U1052	A992	U932	U872	G812	C752	A692	G632	C572	U512
U1521	U1522	U1523	U1524	U1293	G1233	U1173	G1113	A1053	G993	A933	C873	G813	C753	A693	C633	C573	G513
U1525	U1526	U1527	U1528	A1294	U1234	G1174	U1114	A1054	G994	G934	U874	U814	G754	C694	C634	U574	G514
U1529	U1530	U1531	U1532	U1295	G1235	C1175	G1115	U1055	U995	U935	G875	G815	U755	C695	G635	C575	G515
U1533	U1534	U1535	U1536	A1296	U1236	C1176	G1116	U1056	A996	A936	A876	A816	U756	C696	C636	C576	A516
U1537	U1538	U1539	U1540	C1297	G1237	G1177	G1117	A1057	A997	G937	C877	A817	C757	A697	C637	C577	C517
U1541	U1542	U1543	U1544	U1298	C1238	U1178	G1118	U1058	A998	C938	U878	G818	U758	U698	G638	A578	G518
U1545	U1546	U1547	U1548	A1299	C1239	A1179	C1119	G1059	G999	U939	U879	U819	U759	A699	G639	G579	A519
U1549	U1550	U1551	U1552	A1300	U1240	A1180	A1120	U1060	C1000	G940	G880	A820	G760	C700	U640	C580	U520
U1553	U1554	U1555	U1556	A1301	U1241	U1181	U1121	A1061	G1001	G941	C881	U821	A761	G701	C641	U581	A521
U1557	U1558	U1559	U1560	A1302	G1242	A1182	U1122	A1062	A1002	U942	A882	G822	U762	C702	U642	C582	A522
U1561	U1562	U1563	U1564	A1303	G1243	C1183	U1123	G1063	U1003	U943	A883	C823	G763	G703	U643	G583	A523
U1565	U1566	U1567	U1568	U1304	U1244	A1184	U1124	A1064	A1004	C944	A884	C824	U764	U704	G644	G584	U524
U1569	U1570	U1571	U1572	A1305	A1245	C1185	U1125	A1065	G1005	U945	U885	U825	C765	A705	A645	C585	C525
U1573	U1574	U1575	U1576	G1307	G1246	G1186	G1126	G1066	A1006	U946	C886	G826	U766	A706	A646	C586	C526
U1577	U1578	U1579	U1580	A1308	U1247	C1187	G1127	U1067	U1007	G947	G887	A827	U767	U707	A647	U587	A527
U1581	U1582	U1583	U1584	U1309	C1248	U1188	U1128	C1068	U1008	C948	A888	A828	C768	A708	C648	C588	U528
U1585	U1586	U1587	U1588	G1310	U1249	U1189	U1129	C1069	A1009	G949	U889	U829	G769	A709	A649	A589	U529
U1589	U1590	U1591	U1592	G1311	G1250	A1190	U1130	U1070	G1010	G950	C890	U830	G770	A710	C650	G590	G530
U1593	U1594	U1595	U1596	A1312	U1251	U1191	U1131	U1071	A1011	A951	G891	A831	A771	A711	G651	G591	A531
U1597	U1598	U1599	U1600	G1313	C1252	C1192	C1132	G1072	G1012	A952	U892	G832	U772	G712	G652	A532	A532
U1601	U1602	U1603	U1604	U1314	C1253	A1193	A1133	U1073	G1013	G953	C893	G833	G773	U713	A653	C593	G533
U1605	U1606	U1607	U1608	U1315	G1254	U1194	A1134	U1074	G1014	U954	G894	U834	G774	G714	C654	U594	U534
U1609	U1610	U1611	U1612	A1316	C1255	U1195	A1135	U1075	U1015	U955	A895	U835	A775	A715	C655	G595	G535

C2415	G2355	A2295	C2235	U2175	G2115	C1918	A1858	A1798	G1738	G1878	G1818	A1558	A1498	U1438
U2416	A2356	A2296	G2236	U2176	G2116	G1919	A1859	A1799	U1739	A1679	A1619	A1559	C1499	U1439
A2417	G2357	A2297	C2237	G2177	A2117	G1920	G1860	A1800	U1740	U1680	U1620	G1560	G1500	G1440
G2418	A2358	U2298	G2238	A2178	C2118	A1921	A1801	A1741	A1741	U1681	U1621	G1561	U1501	G1441
A2419	G2359	A2299	G2239	C2179	A2119	A1922	U1862	U1742	U1742	U1682	U1622	C1562	U1502	U1442
C2420	C2360	G2300	G2240	G2180	A2120	G1923	G1863	C1803	G1743	A1683	G1623	G1563	A1503	G1443
U2421	A2361	U2301	U2241	C2181	G2121	U1924	A1864	A1804	G1744	U1684	G1624	U1564	A1504	G1444
C2422	C2362	G2302	A2242	A2182	G2122	U1925	A1865	C1805	U1745	U1685	G1625	G1565	A1505	U1445
U2423	A2363	A2303	A2243	A2183	G2123	C1926	C1866	A1806	U1746	U1686	U1626	G1566	A1506	A1446
G2424	C2364	A2304	A2244	U2184	G1927	G1927	G1867	G1807	G1747	U1687	U1627	G1567	G1507	G1447
A2425	G2365	G2305	C2245	G2185	A2125	G1928	G1868	G1808	G1748	U1688	C1628	U1568	C1508	U1448
U2426	C2366	G2306	G2246	U2186	A2126	G1929	G1869	A1809	A1749	U1689	U1629	U1569	A1509	A1449
U2427	G2367	G2307	G2247	C2187	U2127	A1930	C1870	A1810	A1750	C1690	U1630	U1570	G1510	G1450
U2428	A2368	C2308	C2248	A2188	C2128	U1931	U1871	G1811	G1751	G1691	C1631	A1571	U1511	C1451
G2429	G2369	A2309	G2249	U2189	U2129	A1932	C1872	G1812	A1752	U1692	A1632	U1572	U1512	A1452
A2430	C2370	G2310	G2250	U2190	G2130	A1933	U1873	G1813	G1753	C1693	C1633	G1573	G1513	A1453
C2431	A2371	G2311	G2251	U2191	A2131	G1934	A1874	A1814	G1754	U1694	G1634	C1574	A1514	A1454
A2432	G2372	A2312	A2252	C2192	C2132	G1935	G1875	U1815	C1755	U1695	G1635	A1575	A1515	U1455
U2433	A2373	G2313	G2253	U2193	U2133	A1936	U1876	A1816	G1756	A1696	U1636	G1576	C1516	A1456
C2434	C2374	U2314	U2254	G2194	G2134	U1937	U1877	G1817	A1757	A1697	A1637	G1577	G1517	U1457
G2435	G2375	G2315	A2255	C2195	U2135	U1938	G1878	U1818	G1758	C1698	A1638	C1578	U1518	U1458
U2436	C2376	A2316	G2256	C2196	C2136	G1939	A1879	U1819	C1759	A1699	C1639	C1579	G1519	C1459
G2437	G2377	A2317	C2257	C2197	U2137	G1940	U1880	U1820	A1760	G1700	G1640	A1580	G1520	A1460
A2438	C2378	U2318	U2258	A2198	A2138	U1941	A1881	U1821	C1761	C1701	U1641	C1581	U1521	A1461
U2439	U2379	G2319	A2259	G2199	A2139	U1942	G1882	G1822	C1762	U1702	A1642	G1582	U1522	A1462
G2440	A2380	A2320	U2260	U2200	U2140	C1943	A1883	A1823	U1763	U1703	A1643	A1583	U1523	U1463
A2441	G2381	A2321	G2261	G2201	U2141	U1944	A1884	U1824	U1764	A1704	C1644	U1584	A1524	G1464
G2442	C2382	C2322	A2262	C2202	A2142	A1945	U1885	G1825	U1765	U1705	U1645	C1585	G1525	A1465
A2443	G2383	C2323	C2263	U2203	A2143	A1946	A1886	C1826	G1766	G1706	G1646	G1586	U1526	G1466
C2444	A2384	A2324	U2264	C2204	A2144	G1947	A1887	C1827	C1767	A1707	A1647	A1587	U1527	G1467
U2445	G2385	G2325	C2265	U2205	C2145	G1948	U1888	A1828	U1768	C1708	A1648	U1588	G1528	A1468
G2446	A2386	A2326	U2266	G2206	C2146	G1949	U1889	G1829	G1769	C1709	U1649	A1589	A1529	C1469
U2501	C2387	U2327	C2267	A2207	A2147	U1950	U1890	G1830	G1770	C1710	G1650	G1590	U1530	U1470
A2502	U2388	U2328	U2268	U2208	U2148	G1951	A1891	U1831	C1771	G1711	U1651	G1591	C1531	U1471
U2503	G2389	C2329	U2269	U2209	A2149	G1952	G1892	C1832	U1772	G1712	G1652	G1592	U1472	U1472
G2505	A2390	G2330	C2270	G2210	C2150	G1953	A1893	G1833	C1773	G1713	G1653	A1593	U1533	G1473
U2506	C2391	C2331	A2271	U2211	G2151	G1954	U1894	U1834	G1774	A1714	G1654	A1594	A1534	A1474
C2507	G2392	A2332	G2272	C2212	A2152	U1955	A1895	A1835	G1775	A1715	G1655	U1595	A1535	A1475
U2508	C2393	C2333	G2273	A2213	U2153	A2093	A1896	C1836	G1776	U1716	A1656	C1596	G1536	G1476
G2509	G2394	U2334	U2274	A2214	U2154	C2094	G1897	U1837	U1777	U1717	C1657	C1597	A1537	A1477
U2510	C2395	G2335	A2275	A2215	G2155	G2095	G1898	G1838	G1778	G1718	G1658	G1598	G1538	C1478
A2511	G2396	U2336	C2276	G2216	C2156	A2096	G1899	A1839	C1779	G1719	U1659	G1599	A1539	U1479
C2512	A2397	C2337	G2277	U2217	G2157	U2097	A1900	U1840	G1780	U1720	G1660	U1600	U1540	G1480
U2513	G2398	C2338	C2278	G2218	A2158	C2098	A1901	U1841	C1781	U1721	G1661	U1601	G1541	A1481
A2514	A2399	C2339	U2279	A2219	U2159	A2099	G1902	A1842	U1782	U1722	G1662	A1602	G1542	A1482
U2515	C2400	G2340	G2280	A2220	G2160	A2100	U1903	C1843	U1783	A1723	C1663	A1603	G1543	G1483
G2516	A2401	A2341	A2281	G2221	G2161	C2101	C1904	C1844	G1784	U1724	G1664	G1604	G1544	U1484
U2517	G2402	U2342	U2282	A2222	U2162	U2102	G1905	G1845	U1785	C1725	C1665	A1605	A1545	G1485
C2518	G2403	C2343	G2283	A2223	C2163	G2103	G1906	C1846	G1786	C1726	G1666	U1606	A1546	G1486
A2519	A2404	U2344	C2284	A2224	A2164	A2104	C1907	A1847	A1787	G1727	A1667	U1607	G1547	G1487
U2520	C2405	A2345	C2285	U2225	G2165	G2105	A1908	G1848	C1788	G1728	C1668	C1608	G1548	G1488
G2521	G2406	C2346	U2286	U2226	A2166	A2106	A1909	C1849	G1789	A1729	C1669	C1609	U1549	A1489
C2522	C2407	U2347	G2287	C2227	A2167	A2107	U1910	A1850	G1790	G1730	C1670	G1610	C1550	A1490
A2523	G2408	A2348	A2288	A2228	A2168	C2108	G1911	G1851	C1791	A1731	C1671	G1611	C1551	A1491
U2524	U2409	U2349	G2289	A2229	G2169	U2109	G1912	G1852	C1792	U1732	U1672	A1612	G1552	G1492
G2525	G2410	C2350	C2290	U2230	U2170	G2110	A1913	U1853	C1793	G1733	G1673	A1613	U1553	G1493
C2526	U2411	U2351	A2291	C2231	G2171	G2111	G1914	C1854	G1794	G1734	G1674	C1614	U1554	U1494
U2527	G2412	A2352	U2292	A2232	A2172	U2112	U1915	U1855	U1795	G1735	G1675	C1615	U1555	U1495
G2528	A2413	C2353	C2293	A2233	U2173	A2113	U1916	G1856	G1796	G1736	A1676	U1616	C1556	C1496
A2529	G2414	C2354	U2294	G2234	G2174	C2114	C1917	C1857	A1797	U1737	G1677	G1617	A1557	C1497

C3311	U3251	U3131	U3071	A3011	U2891	G2831	U2771	C2711	G2551	A2591	G2530
U3312	G3252	C3132	C3072	A3012	A2892	C2832	C2772	U2712	U2652	G2592	C2531
C3313	G3253	C3133	A3073	U3013	A2893	A2833	C2773	U2713	C2653	A2593	U2532
U3314	G3254	A3134	G3074	U3014	C2894	G2834	G2774	G2714	C2654	C2594	G2533
G3315	U3255	U3135	G3075	G3015	A2895	U2835	U2775	A2715	A2655	A2595	U2534
U3316	G3256	G3136	C3076	A3016	A2896	G2836	C2776	U2716	U2656	A2596	A2535
U3317	C3257	C3137	A3077	A3017	A2897	A2837	G2777	U2717	U2657	U2597	A2536
G3318	U3258	U3138	U3078	C3018	A2898	A2838	G2778	U2718	U2658	G2598	U2537
U3319	G3259	A3139	U3079	U3019	A2899	G2839	U2779	U2719	C2659	U2599	U2538
A3320	G3260	G3140	G3080	U3020	A2900	C2840	U2780	G2720	G2660	C2600	C2539
C3321	C3261	A3141	C3081	A3021	G2901	G2841	U2781	A2721	G2661	A2601	A2540
A3322	U3262	G3142	G3082	G3022	A2902	U2842	U2782	U2722	G2662	G2602	U2541
G3323	G3263	C3143	C3083	U3023	A2903	U2843	U2783	U2723	G2663	G2603	U2542
C3324	G3264	G3144	C3084	A3024	U2904	C2844	G2784	U2724	C2664	U2804	U2543
G3325	G3265	G3145	G3085	G3025	U2905	A2845	U2785	U2725	U2665	G2605	U2544
G3326	G3266	G3146	A3086	G3026	C2906	U2846	G2786	G2726	C2666	G2606	C2545
A3327	A3267	G3147	G3087	A3027	G2907	A2847	G2787	A2727	U2667	G2607	U2546
G3328	U3268	U3148	G3088	G3028	G2908	G2848	G2788	G2728	U2668	G2608	A2547
A3329	U3269	G3149	C3089	A3029	U2909	C2849	U2789	U2729	G2669	A2609	C2548
U3330	A3270	A3150	U3090	G3030	A2910	G2850	U2790	G2730	C2670	G2610	G2549
U3331	G3271	U3151	A3091	G3031	A2911	A2851	G2791	U2731	A2671	U2611	U2550
C3332	C3272	U3152	C3092	A3032	G2912	C2852	U2792	G2732	G2672	U2612	U2551
A3333	A3273	U3153	C3093	A3033	G2913	A2853	G2793	A2733	A2673	U2613	C2552
U3334	A3274	C3154	A3094	C3034	U2914	U2854	G2794	A2734	A2674	G2614	U2553
A3335	U3275	U3155	U3095	A3035	U2915	U2855	U2795	U2735	C2675	G2615	A2554
G3336	G3276	U3156	C3096	G3036	U2916	G2856	G2796	A2736	A2676	C2616	C2555
U3337	U3277	G3157	G3097	U3037	G2917	C2857	G2797	G2737	U2677	U2617	C2556
C3338	C3278	U3158	G3098	U3038	G2918	U2858	C2798	A2738	A2678	U2618	U2557
A3339	G3279	G3159	C3099	C3039	A2919	U2859	U2799	A2739	A2679	G2619	U2558
U3340	U3280	U3160	U3100	A3040	U2920	G2860	G2800	A2740	A2680	G2620	U2559
U3341	U3281	C3161	G3101	U3041	U2921	U2861	A2801	C2741	U2681	G2621	G2560
U3282	U3282	C3162	G3102	U3042	G2922	U2862	A2802	C2742	C2682	G2622	A2561
U3283	U3283	A3163	A3103	C3043	C2923	G2863	A2803	A2743	U2683	G2623	
G3344	C3284	C3164	U3104	G3044	U2924	A2864	A2804	U2744	C2684	G2624	G2564
C3345	C3285	A3165	U3105	G3045	G2925	U2865	G2805	G2745	C2685	G2625	U2565
G3346	G3286	C3166	A3106	A3046	A2926	U2866	G2806	A2746	A2686	A2626	C2566
A3347	A3287	U3167	U3107	U3047	C2927	G2867	U2807	A2747	G2687	C2627	C2567
G3348	G3288	A3168	G3108	A3048	C2928	U2868	A2808	A2748	U2688	A2628	C2568
G3289	G3289	U3169	G3109	A3049	C2929	U2869	A2809	G2749	A2689	U2629	A2569
G3290	G3290	A3170	C3110	U3050	A2930	C2870	C2810	U2750	G2690	G2630	U2570
G3291	G3291	U3171	U3111	G3051	C2931	G2871	A2811	G2751	A2691	U2631	U2571
A3292	A3292	A3172	G3112	G3052	U2932	A2872	C2812	U2752	A2692	G2632	C2572
U3293	U3293	G3173	G3113	G3053	A2933	U2873	A2813	G2753	C2693	U2633	G2573
A3294	A3294	A3174	A3114	U3054	A2934	G2874	G2814	G2754	A2694	U2634	C2574
A3295	A3295	U3175	C3115	U3055	U2935	U2875	G2815	C2755	A2695	A2635	G2575
A3296	A3296	G3176	G3116	U3056	A2936	C2876	G2816	C2756	A2696	A2636	G2576
U3297	U3297	G3177	C3117	U3057	G2937	G2877	A2817	U2757	A2697	A2637	U2577
C3298	C3298	A3178	C3118	U3058	U2938	G2878	U2818	A2758	G2698	C2638	U2578
G3299	G3299	U3179	U3119	G3059	G2939	C2879	A2819	U2759	G2699	G2639	G2579
U3300	U3300	A3180	C3120	C3060	A2940	U2880	A2820	C2760	G2700	A2640	U2580
U3301	U3301	G3181	U3121	G3061	A2941	C2881	C2821	G2761	U2701	U2641	U2581
U3302	G3242	G3182	A3122	G3062	U2942	U2882	U2822	A2762	A2702	A2642	C2582
A3303	A3243	A3183	C3123	C3063	G2943	U2883	G2823	U2763	A2703	A2643	C2583
U3304	A3244	A3184	G3124	U3064	G2944	C2884	G2824	C2764	A2704	C2644	U2584
U3305	A3245	U3185	U3125	G3065	A2945	C2885	C2825	G2765	A2705	G2645	G2585
A3306	U3306	A3186	C3126	A3066	A2946	U2886	U2826	U2766	G2706	C2646	G2586
A3307	G3247	A3187	A3127	C3067	G2947	A2887	U2827	U2767	C2707	A2647	U2587
C3308	C3248	G3188	G3128	U3068	G2948	U2888	G2828	U2768	C2708	G2648	U2588
G3309	G3249	A3189	A3129	G3069	U2949	C2889	U2829	A2769	C2709	A2649	G2589
A3310	U3250	C3190	A3130	A3070	G2950	A2890	G2830	G2770	C2710	U2650	A2590

• Molecule 37: 5S ribosomal RNA

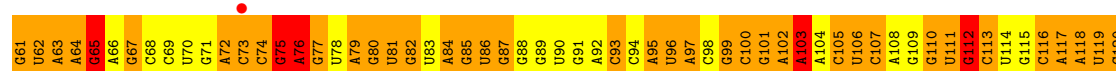
Chain 3: 



U121

• Molecule 37: 5S ribosomal RNA

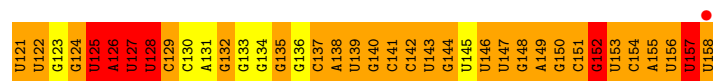
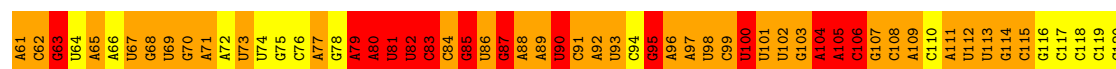
Chain 7: 



U121

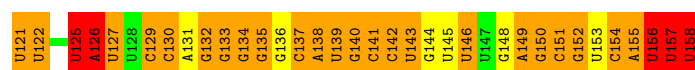
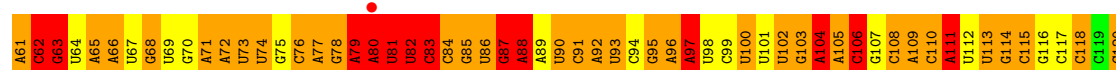
• Molecule 38: 5.8S ribosomal RNA

Chain 4: 

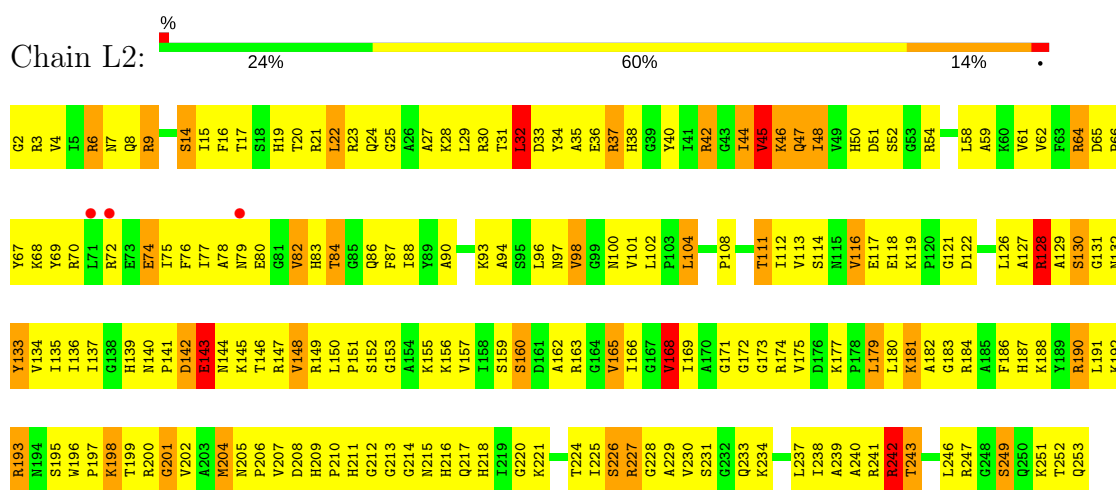


• Molecule 38: 5.8S ribosomal RNA

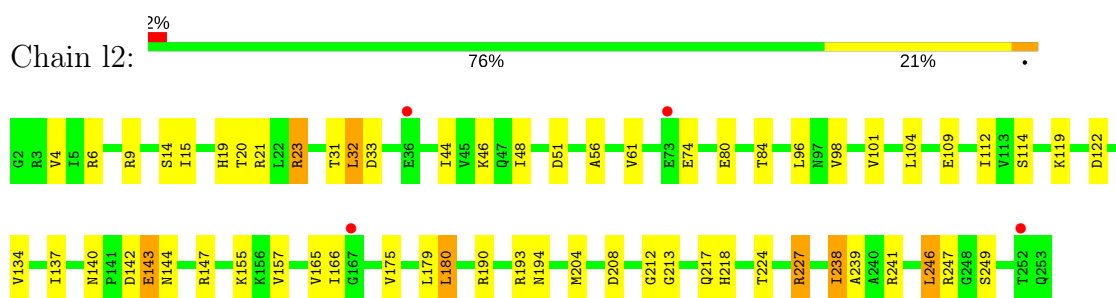
Chain 8: 



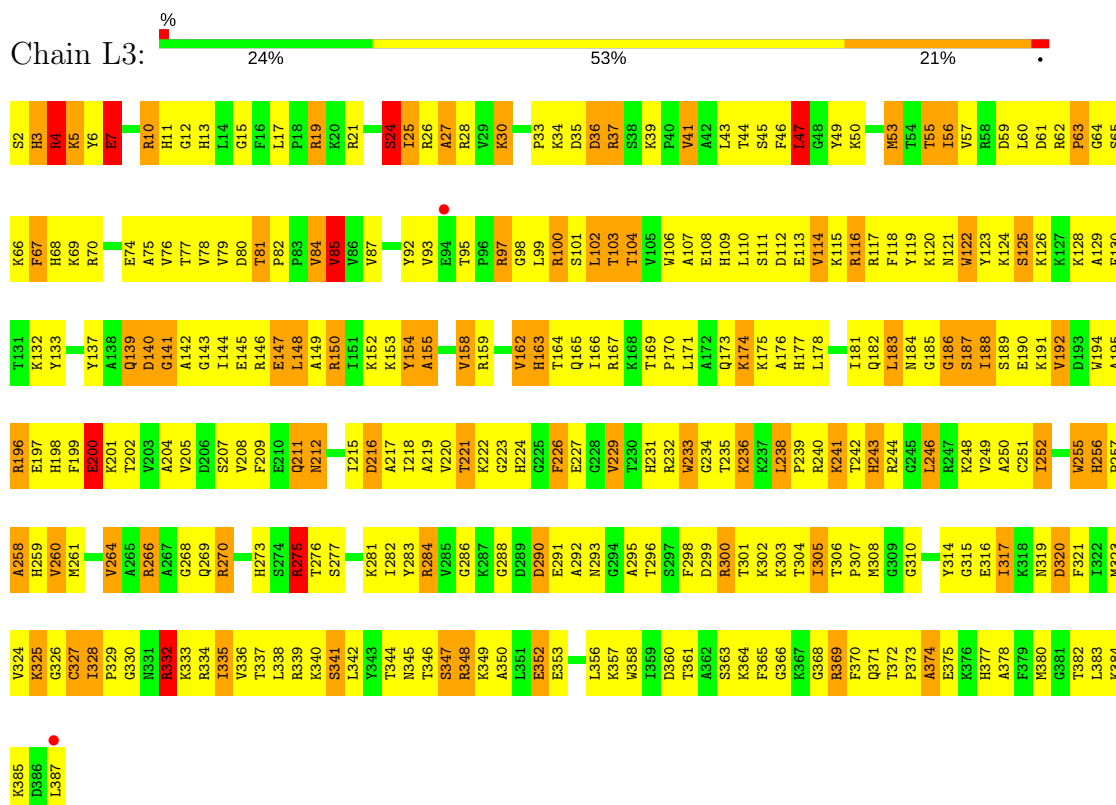
• Molecule 39: 60S ribosomal protein L2-A



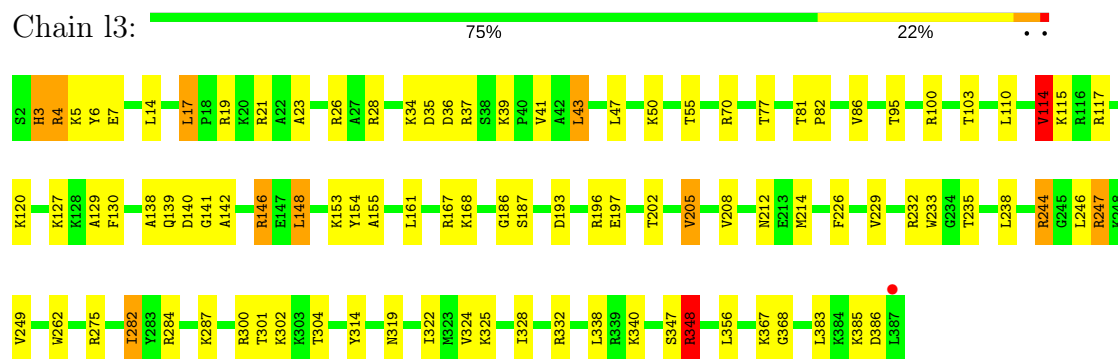
• Molecule 39: 60S ribosomal protein L2-A



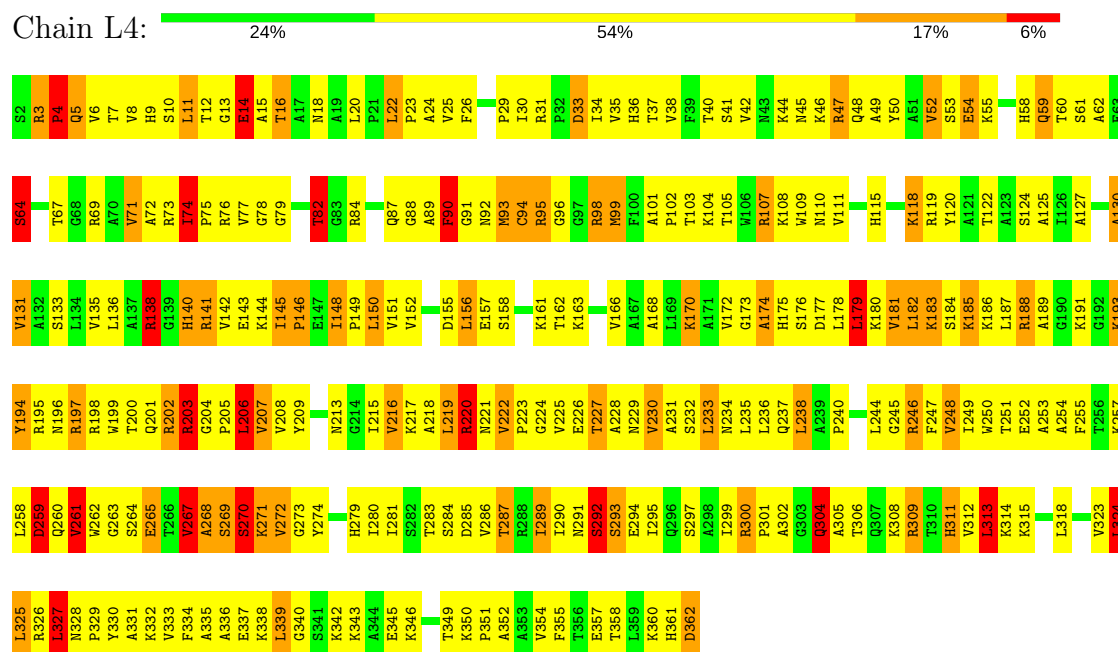
• Molecule 40: 60S ribosomal protein L3



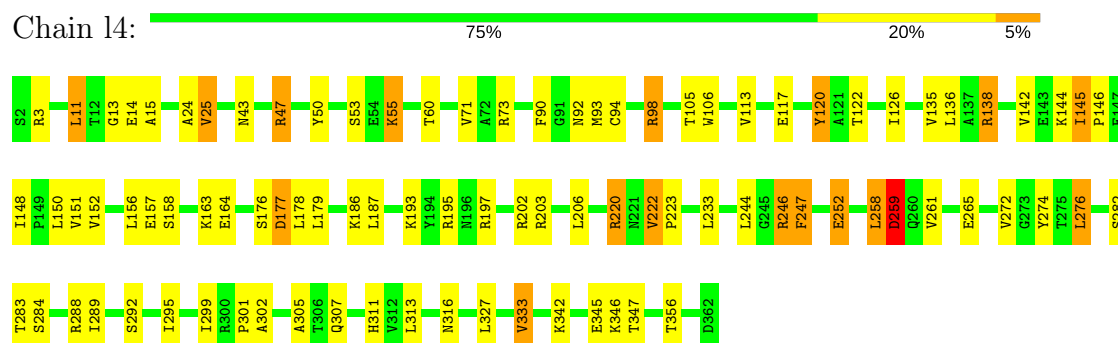
• Molecule 40: 60S ribosomal protein L3



• Molecule 41: 60S ribosomal protein L4-A

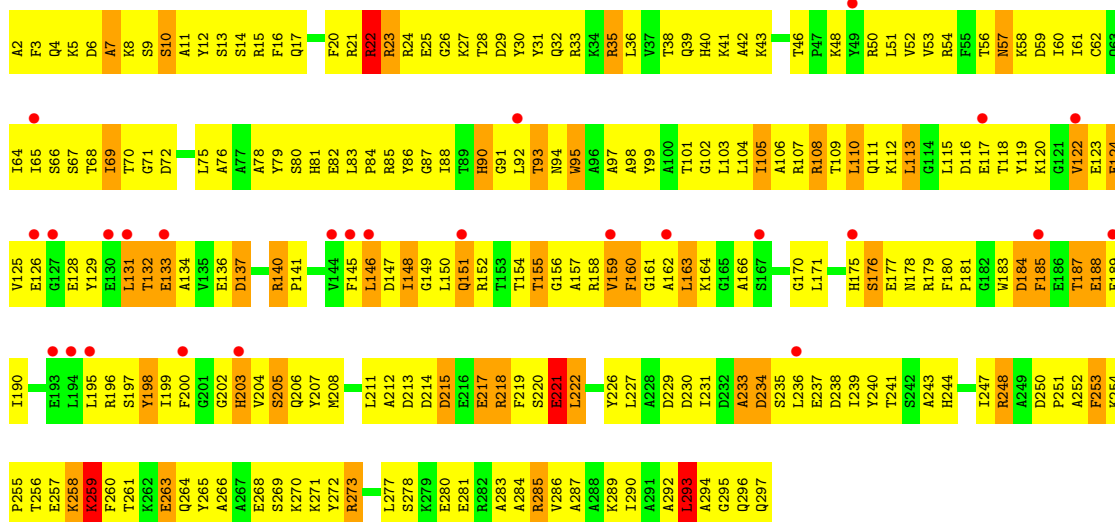


• Molecule 41: 60S ribosomal protein L4-A

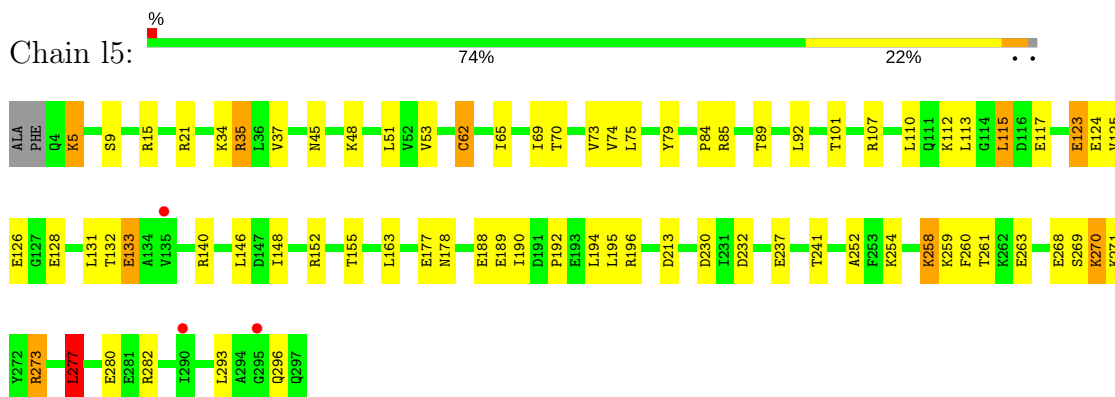


• Molecule 42: 60S ribosomal protein L5

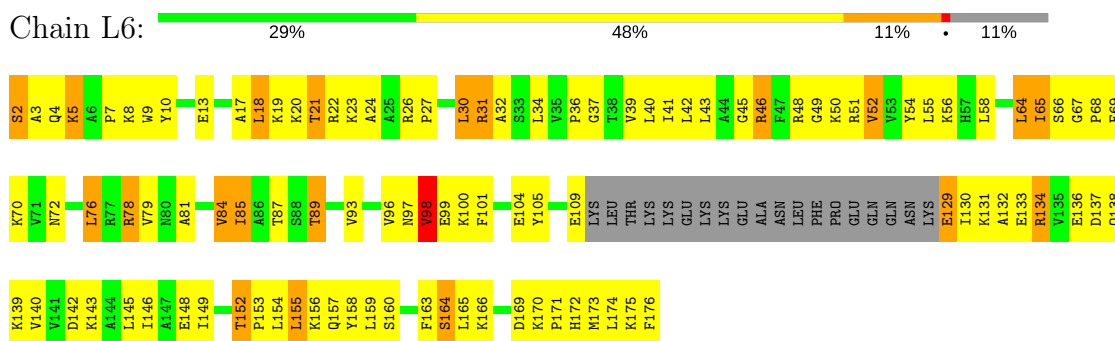




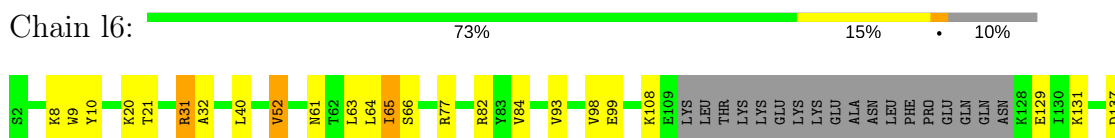
• Molecule 42: 60S ribosomal protein L5



• Molecule 43: 60S ribosomal protein L6-A



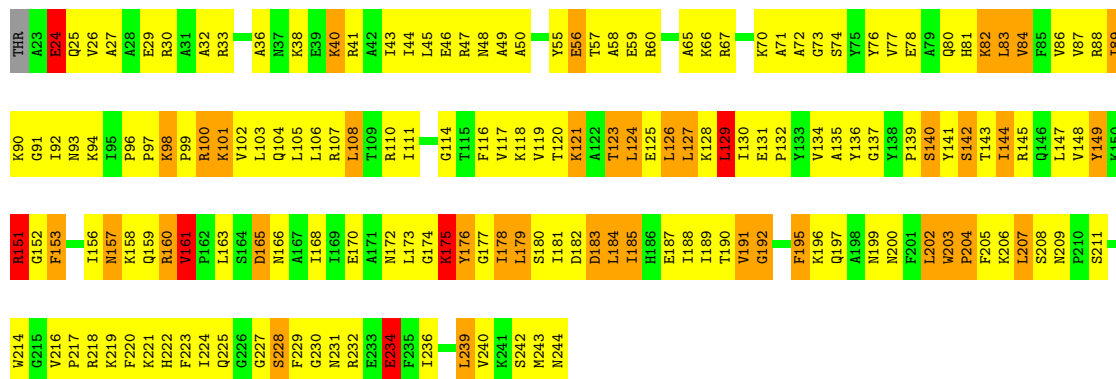
• Molecule 43: 60S ribosomal protein L6-A





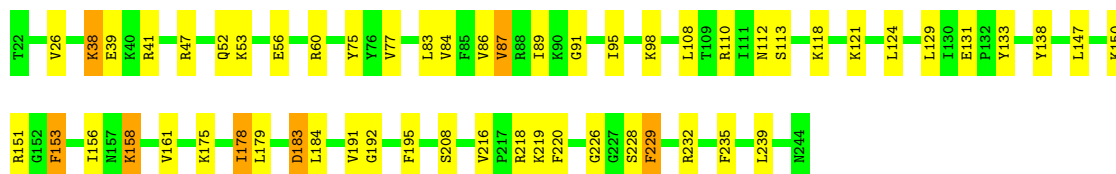
• Molecule 44: 60S ribosomal protein L7-A

Chain L7: 24% 56% 17%



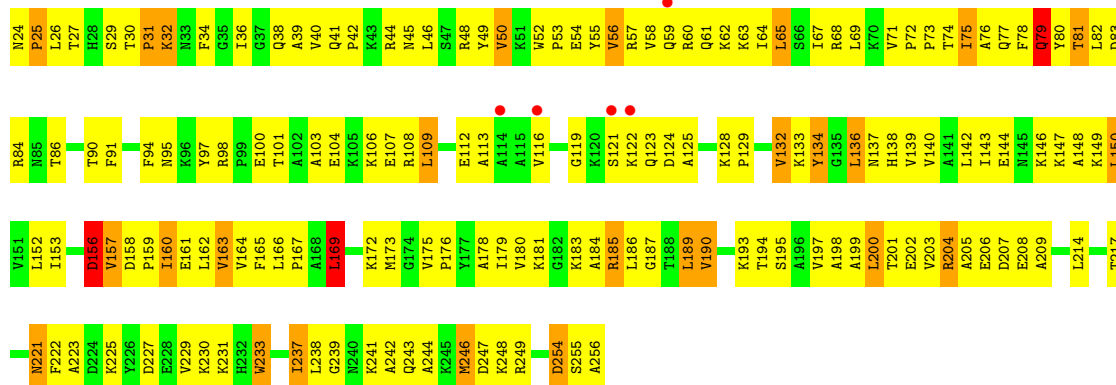
• Molecule 44: 60S ribosomal protein L7-A

Chain L7: 75% 22%



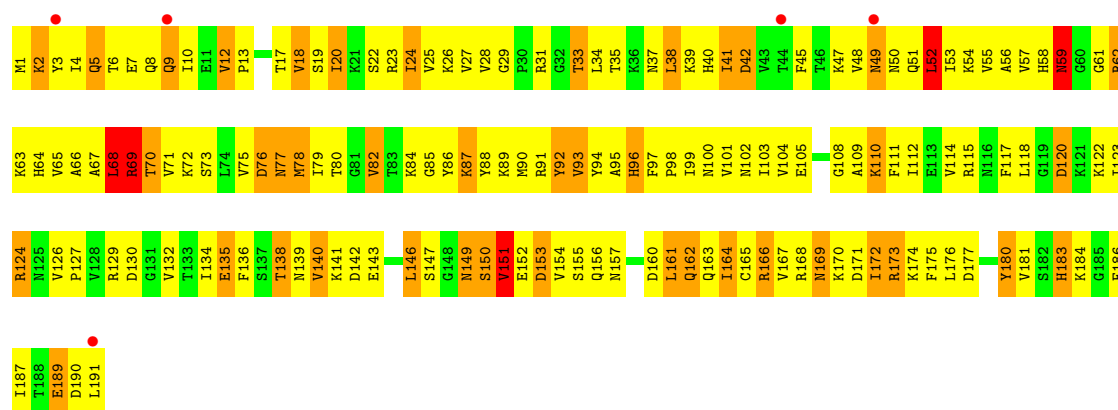
• Molecule 45: 60S ribosomal protein L8-A

Chain L8: 2% 29% 58% 11%

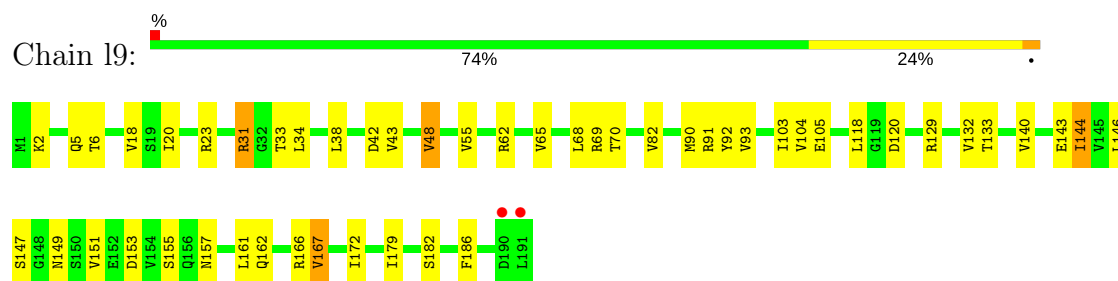


• Molecule 46: 60S ribosomal protein L9-A

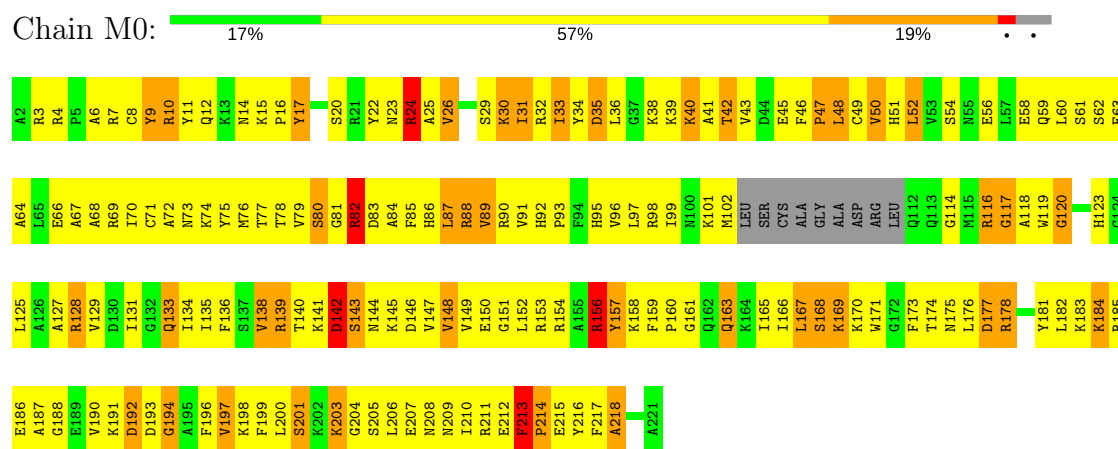
Chain L9: 3% 19% 57% 22%



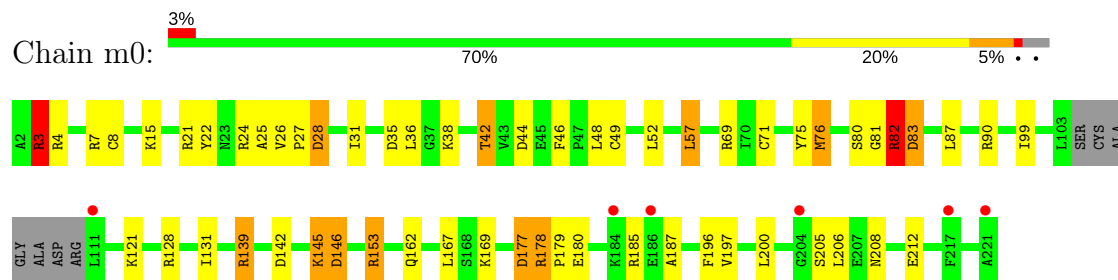
• Molecule 46: 60S ribosomal protein L9-A



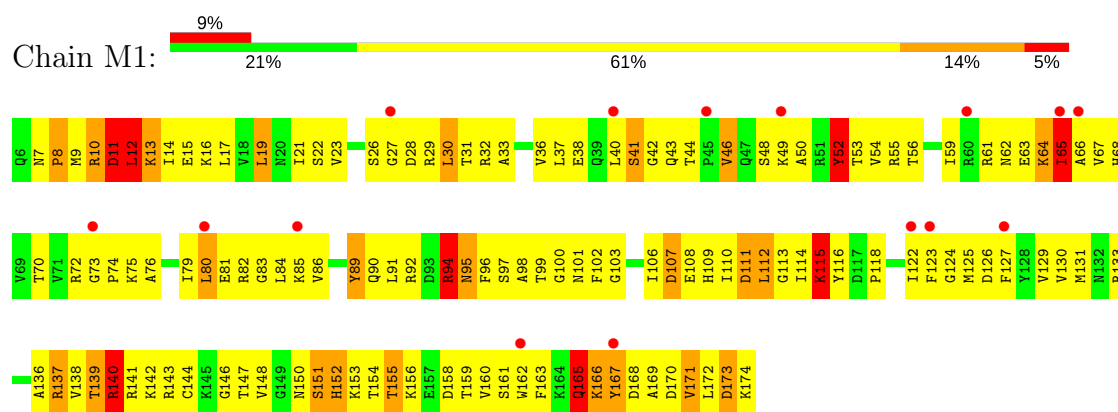
• Molecule 47: 60S ribosomal protein L10



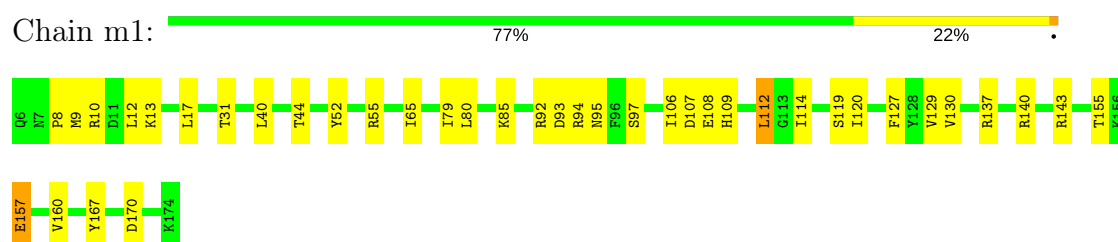
• Molecule 47: 60S ribosomal protein L10



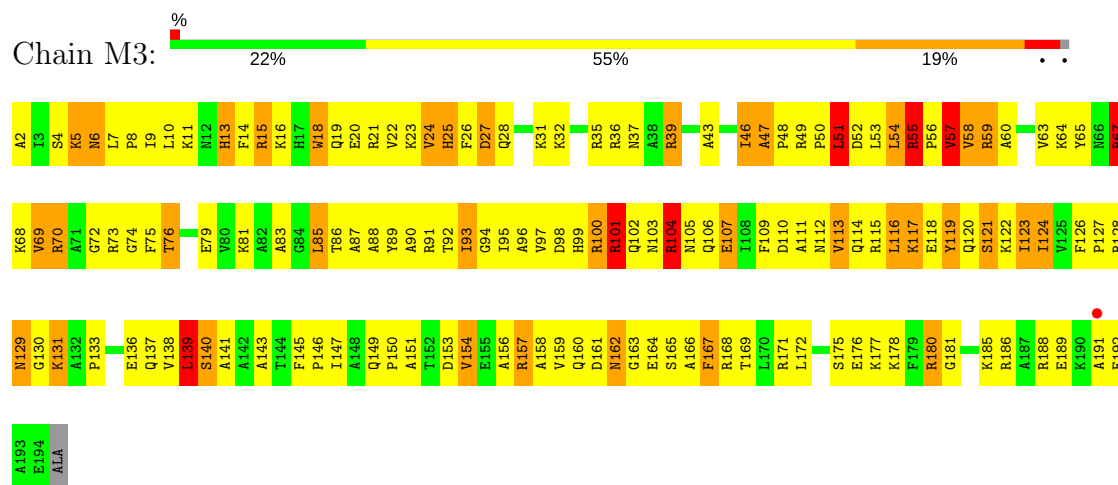
• Molecule 48: 60S ribosomal protein L11-B



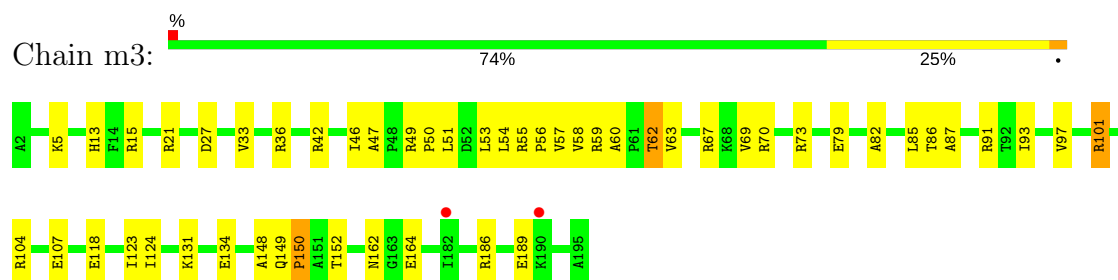
- Molecule 48: 60S ribosomal protein L11-B



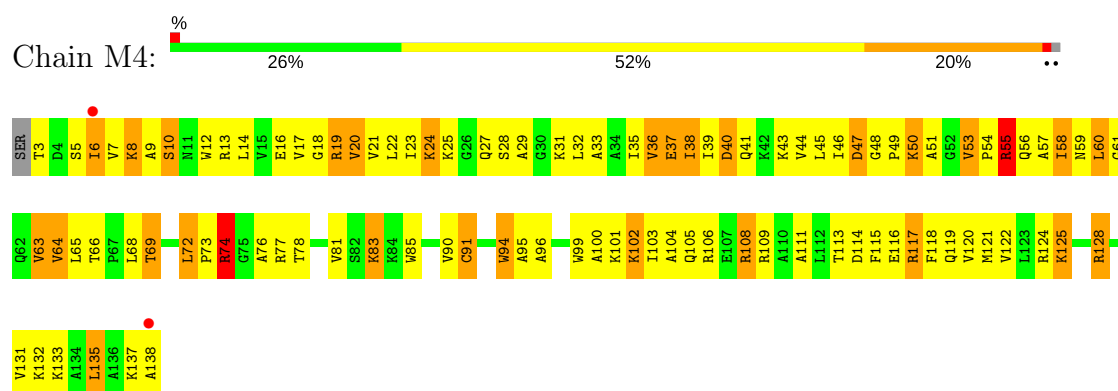
- Molecule 49: 60S ribosomal protein L13-A



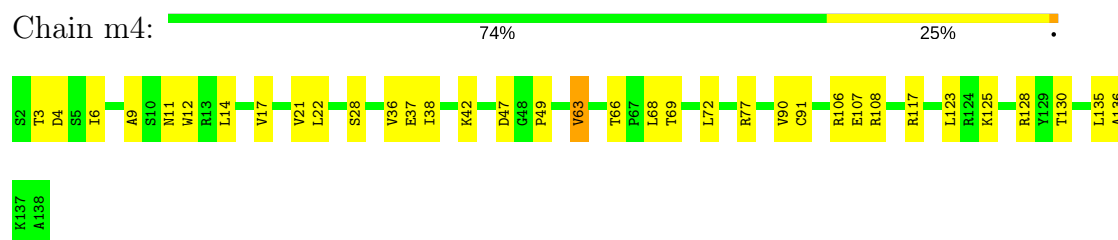
- Molecule 49: 60S ribosomal protein L13-A



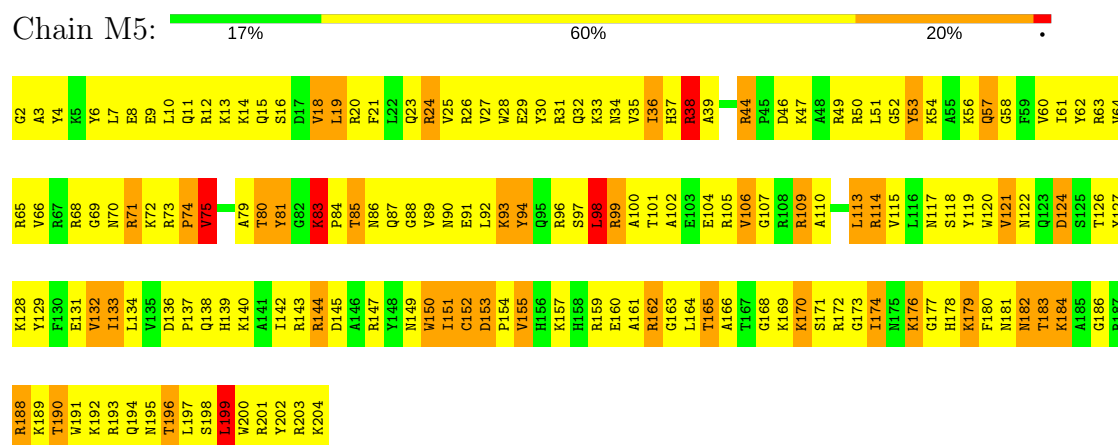
- Molecule 50: 60S ribosomal protein L14-A



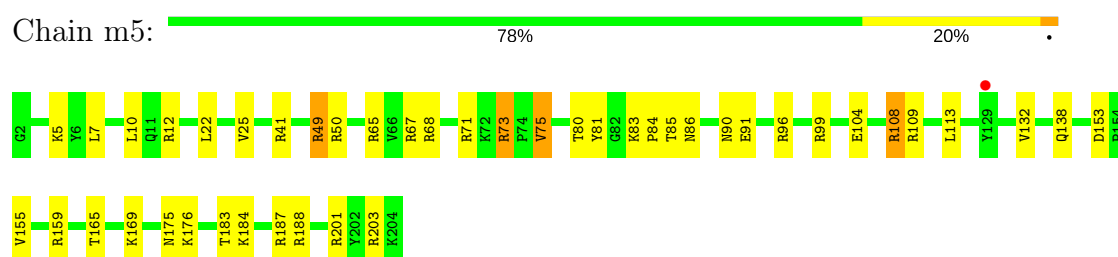
- Molecule 50: 60S ribosomal protein L14-A



- Molecule 51: 60S ribosomal protein L15-A

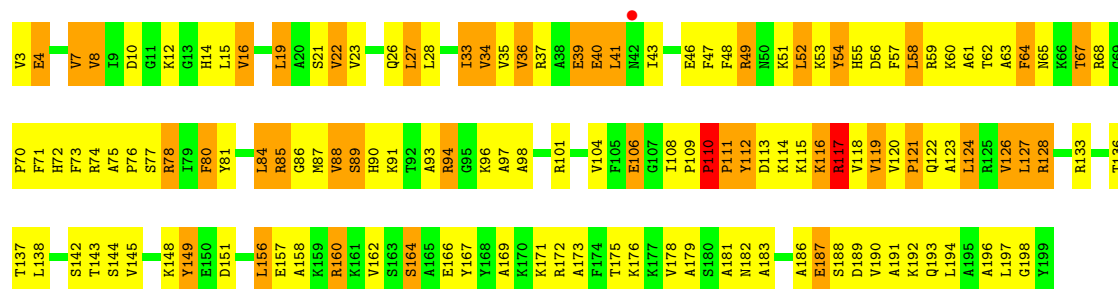


- Molecule 51: 60S ribosomal protein L15-A



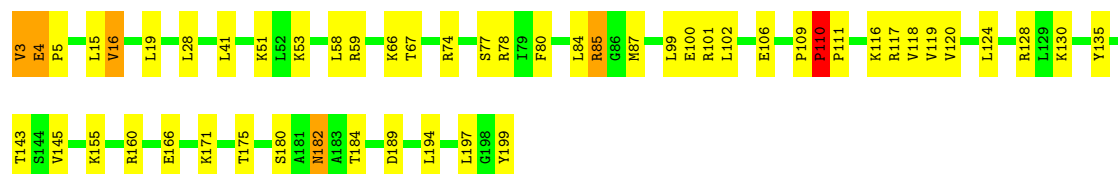
- Molecule 52: 60S ribosomal protein L16-A





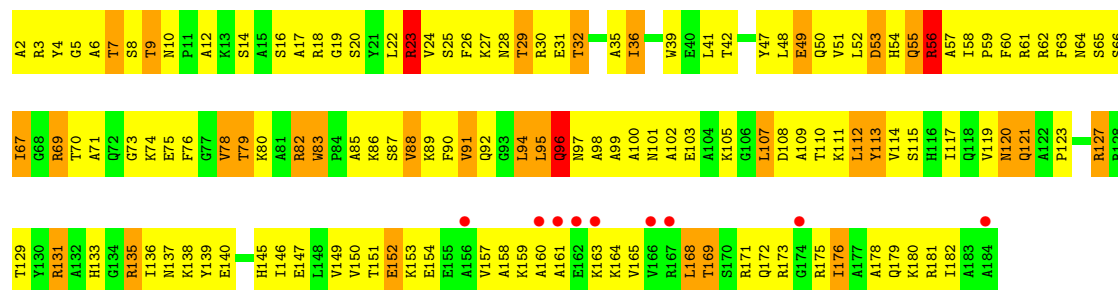
• Molecule 52: 60S ribosomal protein L16-A

Chain m6: 74% 23%



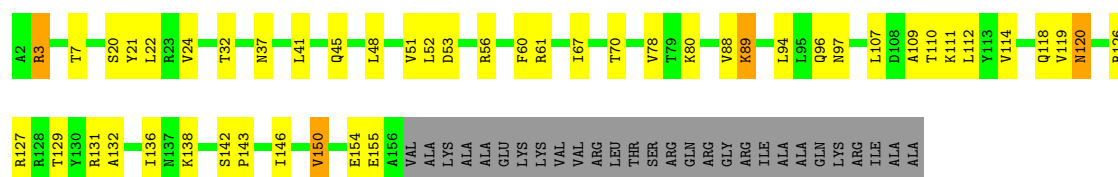
• Molecule 53: 60S ribosomal protein L17-A

Chain M7: 5% 25% 57% 16%



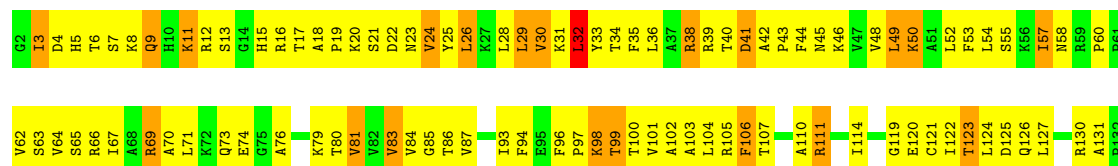
• Molecule 53: 60S ribosomal protein L17-A

Chain m7: 58% 24% 15%



• Molecule 54: 60S ribosomal protein L18-A

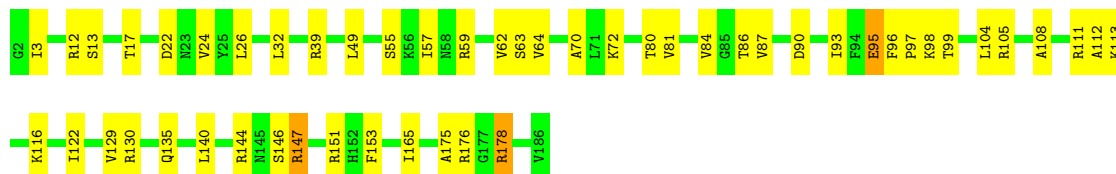
Chain M8: 25% 57% 17%





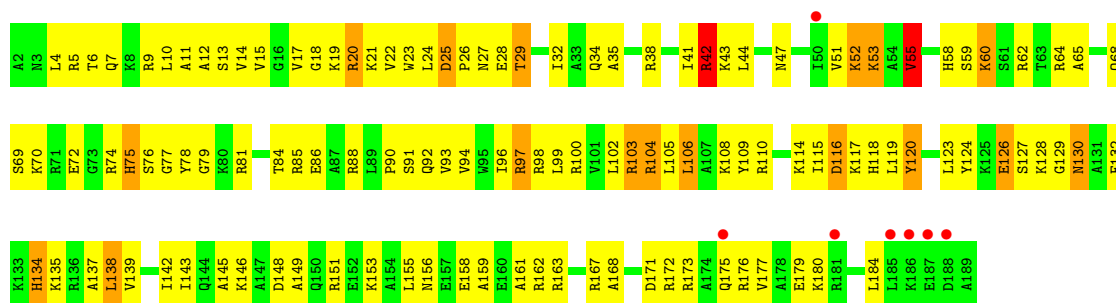
- Molecule 54: 60S ribosomal protein L18-A

Chain m8: 72% 26%



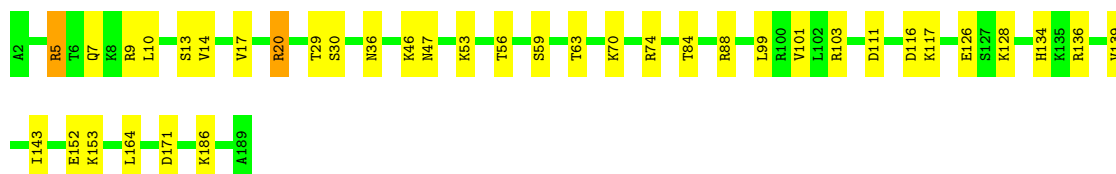
- Molecule 55: 60S ribosomal protein L19-A

Chain M9: 



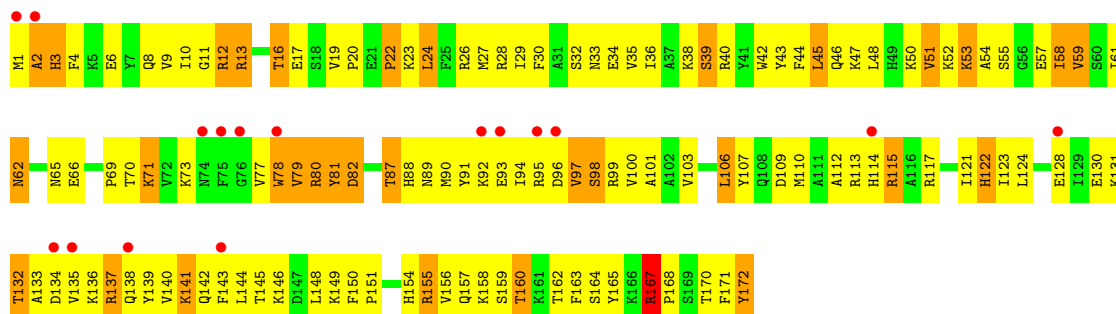
- Molecule 55: 60S ribosomal protein L19-A

Chain m9:  80% 19%

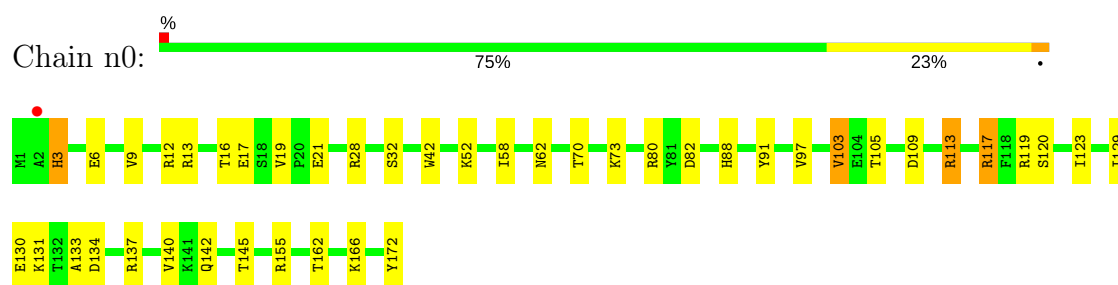


- Molecule 56: 60S ribosomal protein L20-A

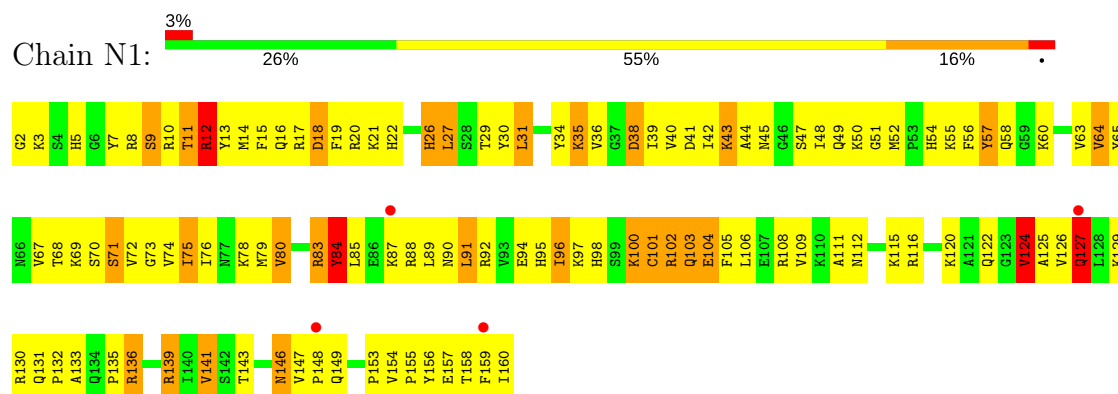
Chain N0: 



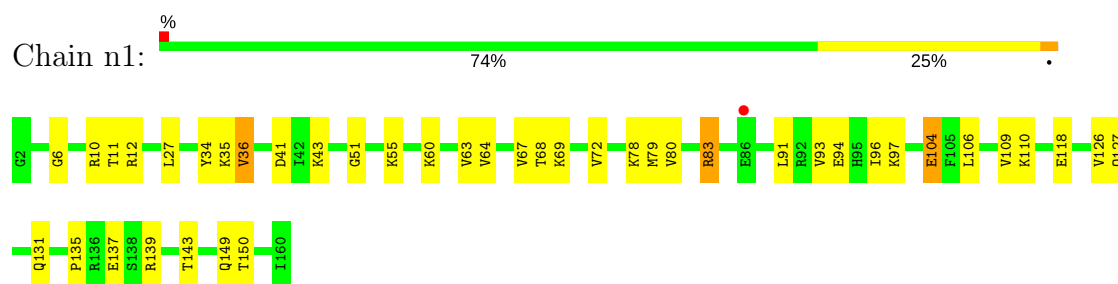
- Molecule 56: 60S ribosomal protein L20-A



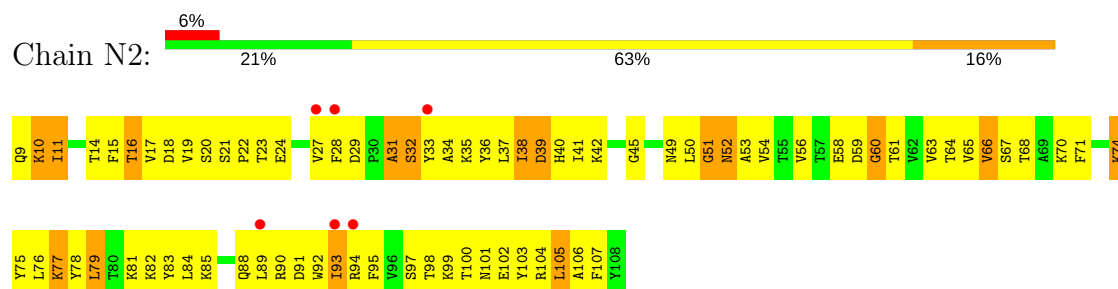
- Molecule 57: 60S ribosomal protein L21-A



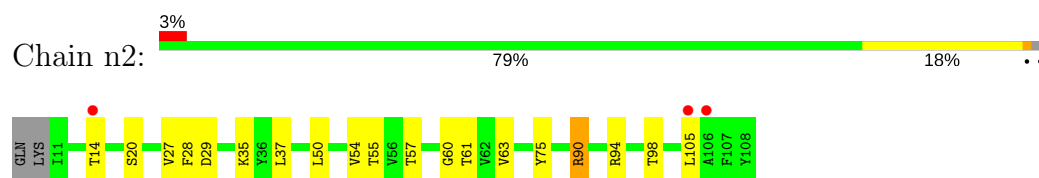
- Molecule 57: 60S ribosomal protein L21-A



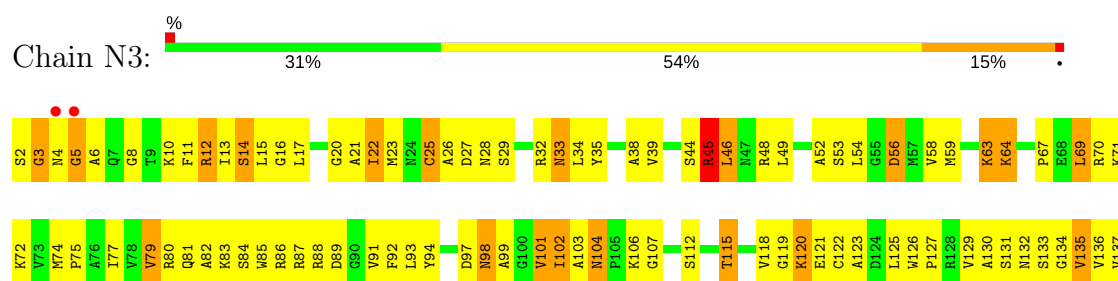
- Molecule 58: 60S ribosomal protein L22-A



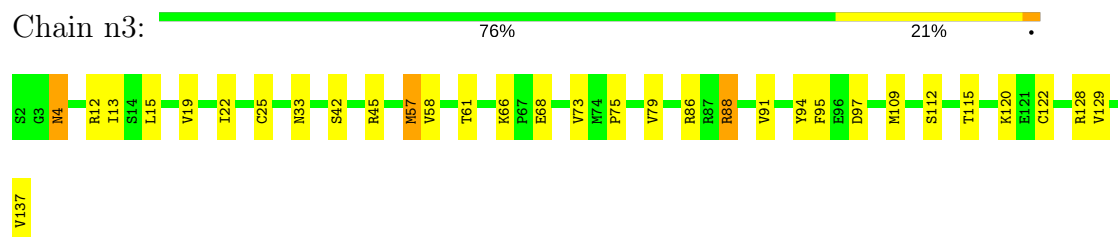
- Molecule 58: 60S ribosomal protein L22-A



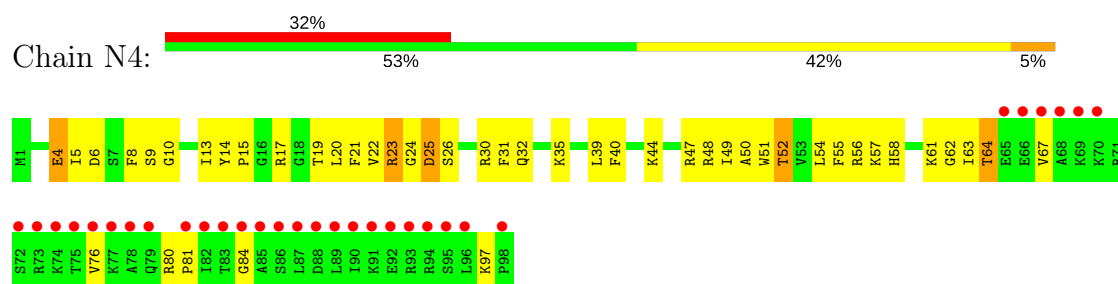
- Molecule 59: 60S ribosomal protein L23-A



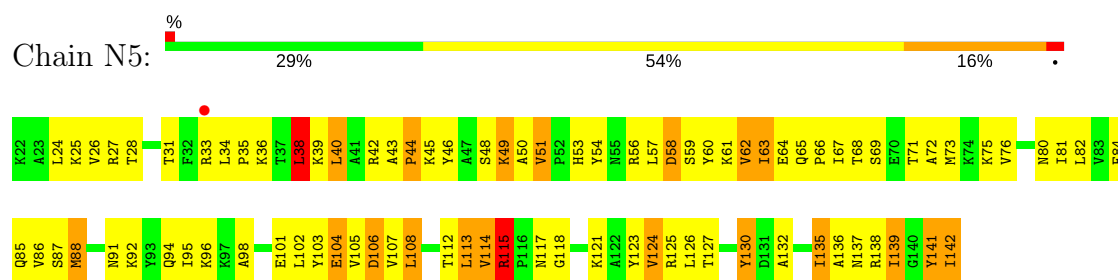
- Molecule 59: 60S ribosomal protein L23-A



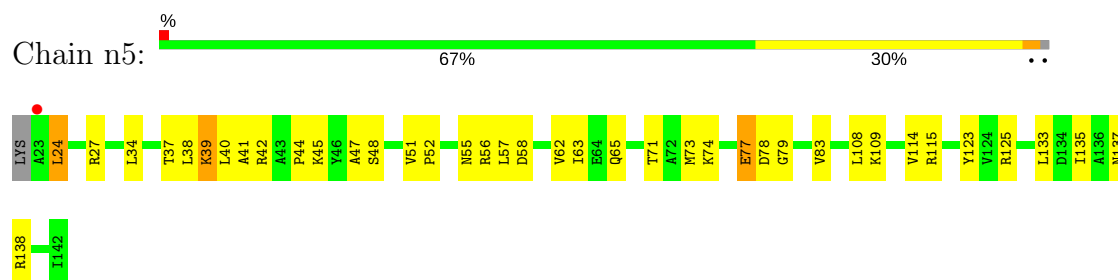
- Molecule 60: 60S ribosomal protein L24-A



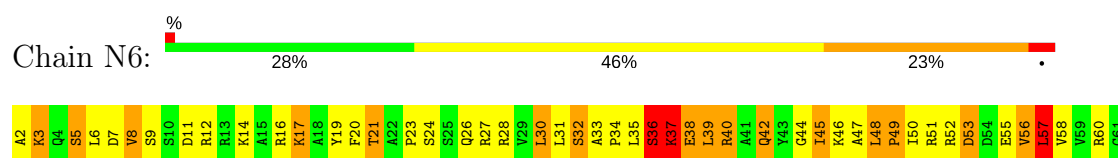
- Molecule 61: 60S ribosomal protein L25



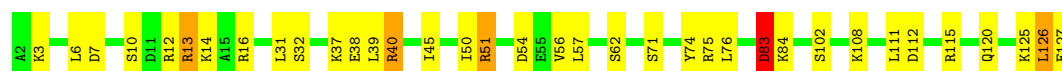
- Molecule 61: 60S ribosomal protein L25



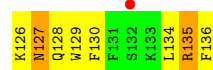
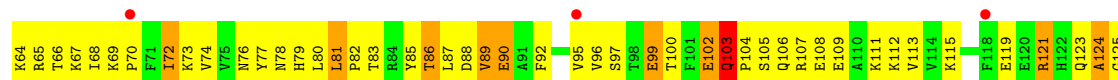
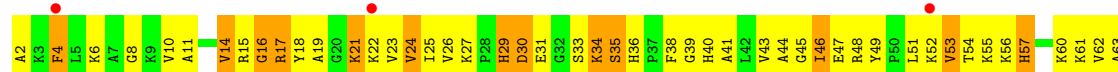
- Molecule 62: 60S ribosomal protein L26-A



- Molecule 62: 60S ribosomal protein L26-A



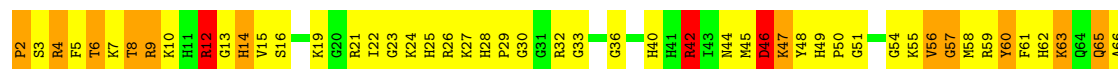
- Molecule 63: 60S ribosomal protein L27-A



- Molecule 63: 60S ribosomal protein L27-A

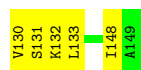
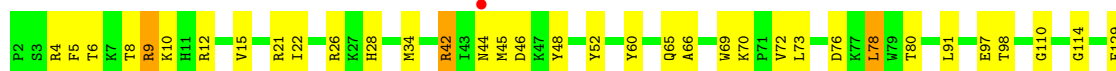
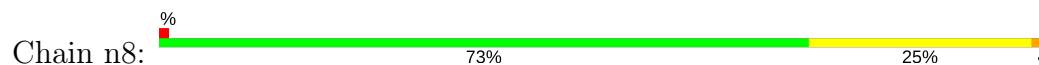


- Molecule 64: 60S ribosomal protein L28

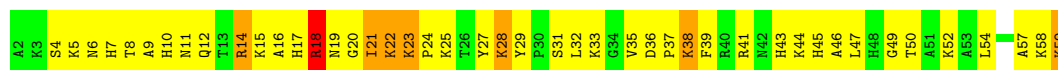




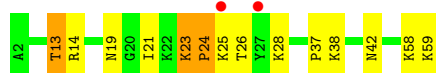
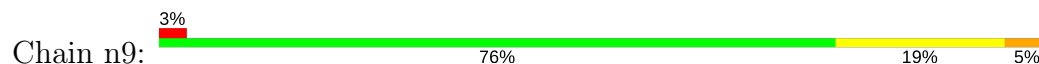
- Molecule 64: 60S ribosomal protein L28



- Molecule 65: 60S ribosomal protein L29



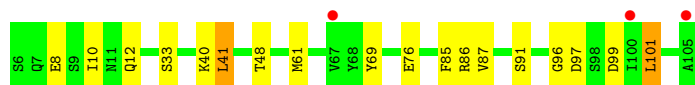
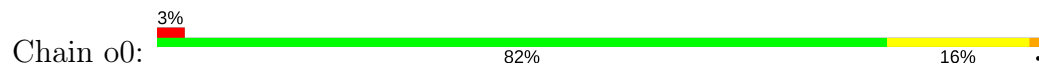
- Molecule 65: 60S ribosomal protein L29



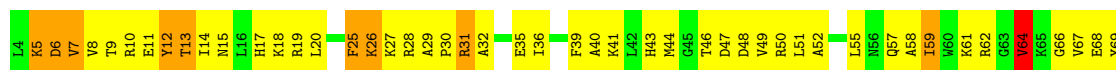
- Molecule 66: 60S ribosomal protein L30

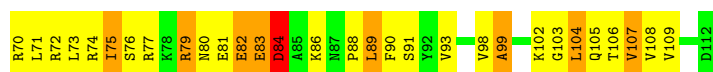


- Molecule 66: 60S ribosomal protein L30

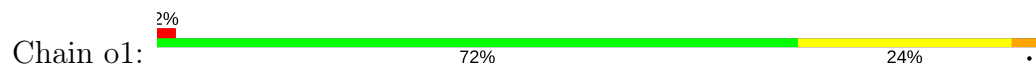


- Molecule 67: 60S ribosomal protein L31-A

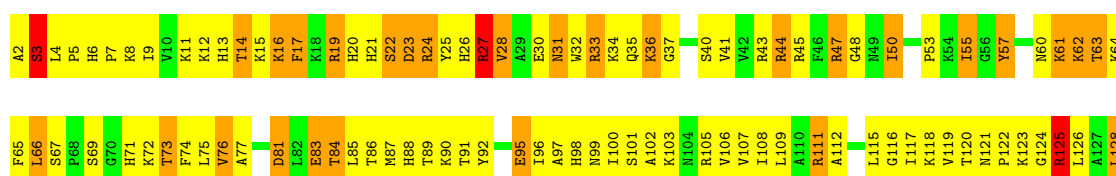




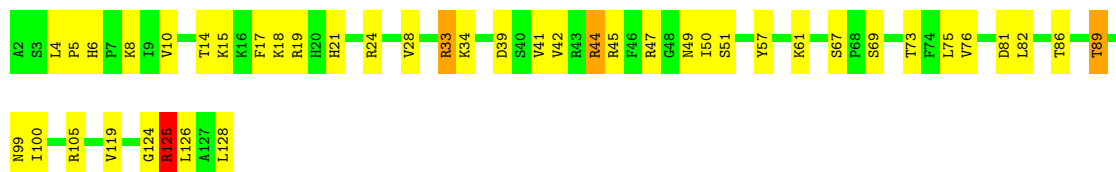
- Molecule 67: 60S ribosomal protein L31-A



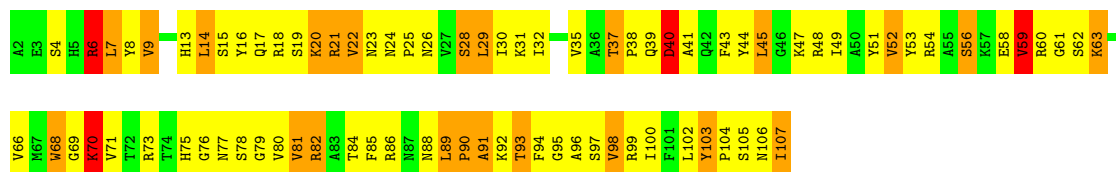
- Molecule 68: 60S ribosomal protein L32



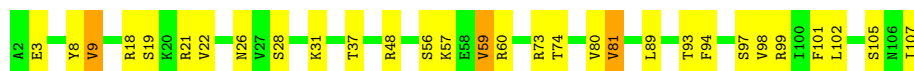
- Molecule 68: 60S ribosomal protein L32



- Molecule 69: 60S ribosomal protein L33-A

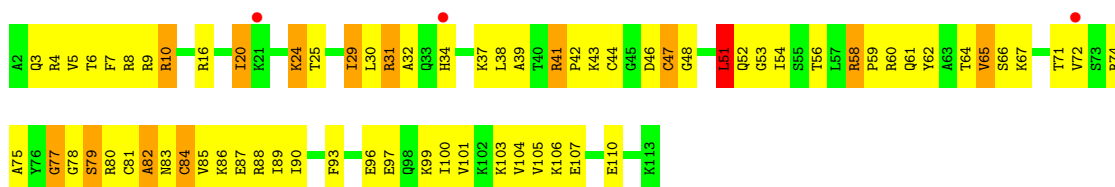


- Molecule 69: 60S ribosomal protein L33-A

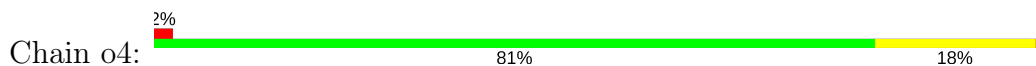


- Molecule 70: 60S ribosomal protein L34-A

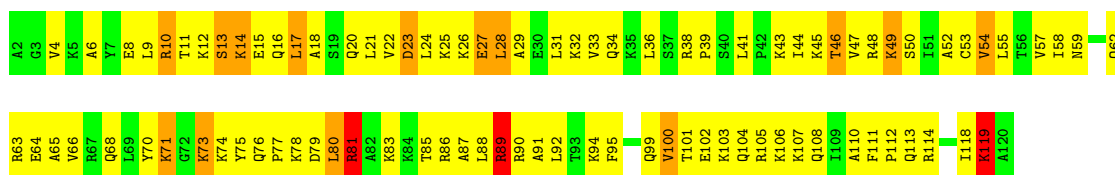




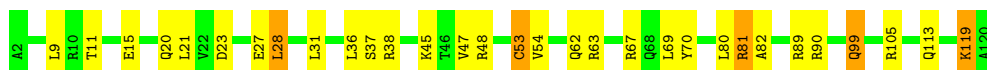
- Molecule 70: 60S ribosomal protein L34-A



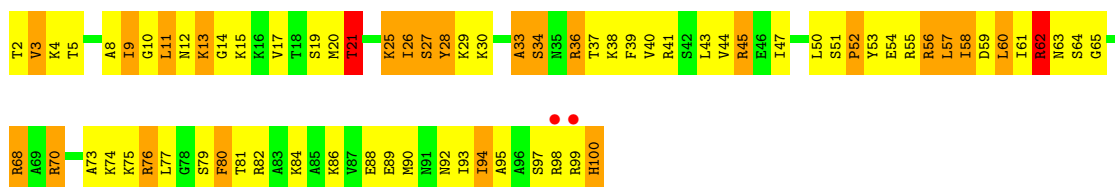
- Molecule 71: 60S ribosomal protein L35-A



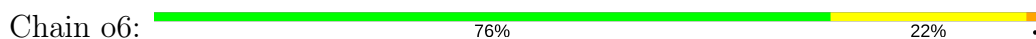
- Molecule 71: 60S ribosomal protein L35-A



- Molecule 72: 60S ribosomal protein L36-A

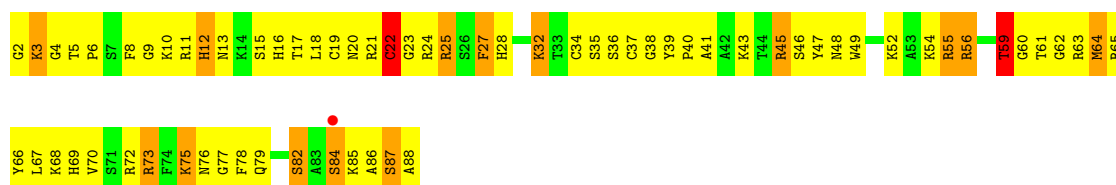


- Molecule 72: 60S ribosomal protein L36-A

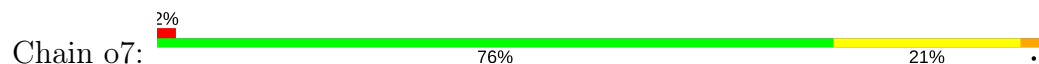


- Molecule 73: 60S ribosomal protein L37-A





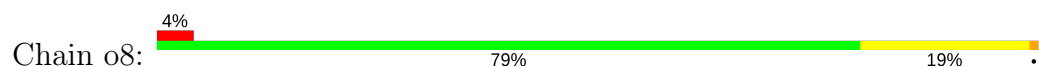
- Molecule 73: 60S ribosomal protein L37-A



- Molecule 74: 60S ribosomal protein L38



- Molecule 74: 60S ribosomal protein L38



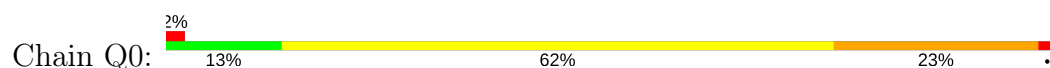
- Molecule 75: 60S ribosomal protein L39



- Molecule 75: 60S ribosomal protein L39



- Molecule 76: Ubiquitin-60S ribosomal protein L40



- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain q0:  71% 29%



- Molecule 77: 60S ribosomal protein L41-A

Chain Q1:  24% 52% 24%



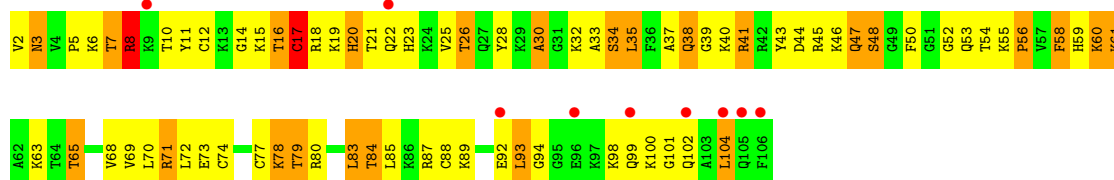
- Molecule 77: 60S ribosomal protein L41-A

Chain q1:  64% 32% .




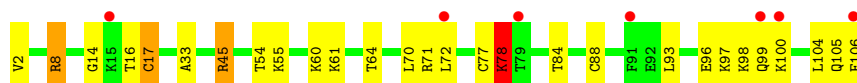
- Molecule 78: 60S ribosomal protein L42-A

Chain Q2:  9% 28% 48% 23% .



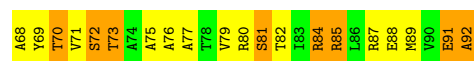
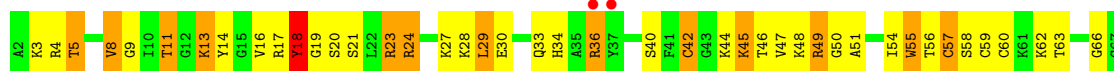
- Molecule 78: 60S ribosomal protein L42-A

Chain q2:  7% 73% 23% . .

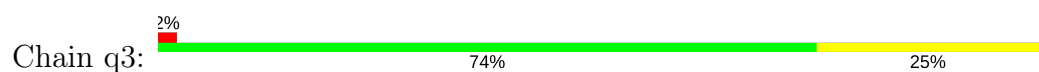


- Molecule 79: 60S ribosomal protein L43-A

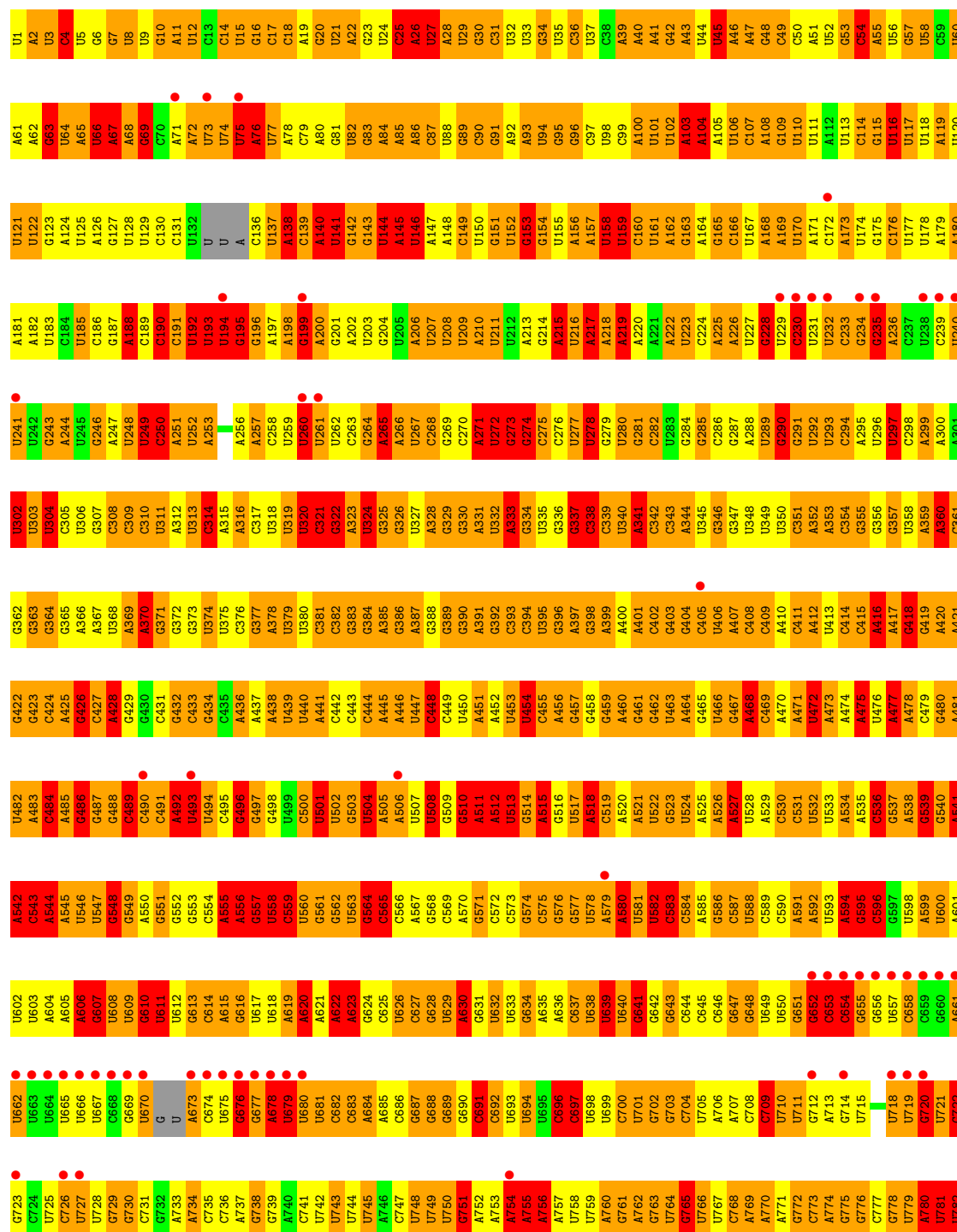
Chain Q3:  2% 31% 45% 23% .



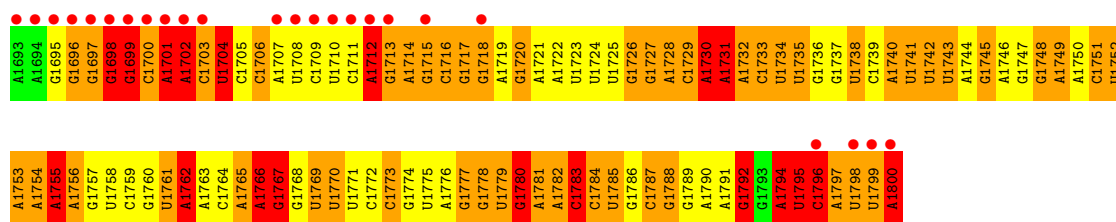
- Molecule 79: 60S ribosomal protein L43-A



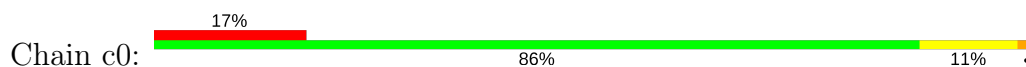
• Molecule 80: 18S ribosomal RNA



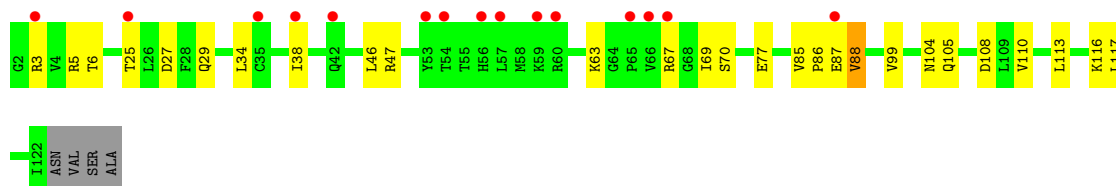
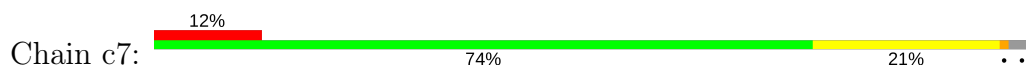
A1633	A1573	G1513	U1452	A1391	A1331	G1270	U1206	G1146	A1086	A1026	A966	A906	U843	G783
C1634	G1574	U1514	G1453	U1392	C1332	G1271	C1207	A1147	A1087	A1027	A967	A907	A844	C784
A1635	G1575	A1515	G1454	C1393	C1333	U1272	A1208	C1148	A1088	C1028	U968	U908	G845	C785
C1636	A1576	A1516	G1455	G1394	U1334	G1273	C1209	G1149	U1089	U1029	C969	U909	G846	C786
G1637	A1577	U1517	C1456	G1395	U1335	C1274	C1210	G1150	C1090	A1030	A970	C910	A847	C787
C1638	U1578	U1518	C1457	G1396	U1336	A1275	A1211	A1151	A1091	U1031	A971	U911	G848	C788
A1639	U1579	U1519	G1458	U1397	A1337	U1276	G1212	A1152	A1092	G1032	C972	U912	C849	C789
C1640	C1580	U1520	C1459	U1398	C1338	G1277	G1213	G1153	A1093	C1033	A973	G913	A850	C790
C1641	U1581	G1521	A1460	U1399	C1339	G1278	U1214	G1154	A1094	C1034	A974	G914	U851	C791
U1642	A1582	U1522	C1461	A1400	U1340	C1279	G1215	G1155	C975	U1095	C976	A915	U852	C792
U1643	A1583	G1523	G1462	A1401	A1341	C1280	C1216	C1156	C1096	A1036	A977	U917	A856	C793
C1644	G1584	A1524	C1463	C1402	C1342	G1281	G1218	A1157	U1097	C1037	A978	U918	U857	C794
G1645	U1585	A1525	G1464	C1403	U1343		G1219	C1158	U1098	U1038	A979	U919	G858	C795
C1646	A1586	A1526	C1465	C1404	A1344		A1219	C1159	U1099	A1039	A979	A919	A859	C796
U1647	A1587	U1527	G1466	G1405	A1345	C1284	C1220	A1160	G1100	G1040	G980	U920	U860	C797
G1648	G1588	U1528	C1467	A1406	A1346	U1285	A1221	A1161	G1101	G1041	A981	U921	U861	C798
C1649	A1589	U1529	U1468	U1407	U1347	A1287	C1222	C1162	G1102	G1042	U982	G922	A862	C799
U1650	G1590	C1530		G1408	A1348	G1294		A1163	A983	A1043	A984	A924	A864	C800
A1651	C1591	G1531	A1471	G1409	G1349	U1289	U1225	G1164	U1104	U1044	G984	A924	U864	C801
C1652	A1592	U1532	C1472	A1410	U1350	G1290	A1226	C1165	C1105	C1045	G985	G925	A865	C802
C1653	A1593	U1533	U1473	A1411	G1351	U1291	A1227	A1166	G1106	G1046	G986	A926	G866	C803
G1654	G1594	G1534	G1474	G1412	G1352	G1292	G1228	G1167	G1107	G1047	G987	C927	G867	C804
A1655	U1595	U1535	A1475	U1413	C1359	U1293	G1229	U1168	A988	G1048	A988	U928	G868	C805
C1656	C1596	G1536	C1476	U1414	A1360	G1294	A1230	G1169	G1108	U1049	U989	A929	A869	C806
U1657	A1597	C1537	G1477	U1415	U1361	G1295	U1231	G1170	G1110	G1050	C990	A930	C870	C807
G1658	U1598	U1538	G1478	G1416	U1362	A1296	U1232	A1171	G1111	G1051	G991	C931	C871	C808
A1659	G1599	G1539	U1479	A1417	U1363	G1297	G1233	G1172	A992	U1052	A993	U932	G872	C809
A1660	A1600	U1540	G1480	G1418	G1358	U1298	A1234	C1173	G1112	G1053	A994	U933	G873	C810
G1661	C1601	G1541	C1481	G1419	C1359	G1299	C1235	C1174	A1113	U1054	G994	C874	C875	C811
C1662	A1602	U1542	C1482	A1420	A1360	A1300	A1236	U1175	U1115	U1055	A995	U935	C876	C812
G1663	G1603	A1543	A1483	A1421	U1361	G1237	G1237	G1176	A1116	U1056	U996	G936	G876	C813
C1664	A1604	U1544	G1484	A1422	U1362	U1302	A1238	C1177	U1117	U1057	A997	C937	G877	C814
U1665	G1605	A1545	C1485	U1423	U1363	U1303	U1239	G1178	G998	U1058	A998	G938	G878	C815
C1666	C1606	U1546	G1486	A1424	G1364	G1304	U1240	G1179	U999	U1059	U999	A939	G879	C816
A1667	G1607	A1487	A1487	A1425	A1371	U1311	U1249	U1186	C1000	U1060	C1000	A940	C880	C817
G1668	U1608	G1548	G1488	C1426	U1366	U1306	A1242	U1187	G1127	C1067	C1007	U947	A887	C818
U1669	U1609	C1549	U1489	A1427	U1367	U1307	G1243	U1188	G1128	C1068	G1008	G948	U888	C819
G1670	G1610	A1550	C1490	G1428	G1368	G1308	A1244	A1183	C1123	U1062	G1002	G942	U882	C820
A1671	A1611	U1551	U1491	G1429	U1369	C1309	G1245	A1184	A1124	G1064	U1004	C943	C883	C821
G1672	U1612	U1552	A1492	U1430	U1370	U1310		U1185	A1125	A1065	A1005	A944	A884	C822
C1673	A1613	G1553	C1493	C1431	U1377	C1317	G1255	C1192	A1132	C1072	U1012	A951	A891	C823
A1674	A1614	U1554	C1494	U1432	U1378	G1318	A1256	A1193	A1133	G1073	G953	G954	A892	C824
C1675	G1615	A1555	C1495	G1433	C1373	A1319	U1257	A1194	C1134	G1074	G1014	A955	U893	C825
U1676	G1616	U1556	U1496		C1374	U1320	C1252	C1195	U1135	C1075	U1015	A956	G895	C826
C1677	U1617	U1557	U1497	A1436	A1375	U1315	C1253	A1196	C1016	A1076	C1016	C956	U896	C827
A1678	C1618	U1558	G1498	U1437	C1376	G1316	U1254	C1197	A1137	C1077	G957	C957	G897	C828
G1679	C1619	A1559	G1499	G1438	U1377	C1317	G1255	G1198	A1138	C1078	U1018	U958	A898	C829
C1680	C1620	U1560	C1500	C1439	U1378	G1318	A1257	G1199	A1139	U1079	A1019	U959	A899	C830
A1681	U1621	U1561	C1501	C1440	C1379	A1319	U1257	G1200	G1140	U1080	A1020	U960	G897	C831
G1682	G1622	U1562	G1502	C1441	U1380	U1320	U1258	G1201	G1141	C1079	C1021	U961	A901	C832
C1683	C1623	C1563	A1503	U1442	U1381	A1321		A1202	A1142	C1082	C1022	C962	G902	C833
U1684	C1624	U1564	A1504	U1443	A1382	A1322	G1261	C1197	A1137	A1076	U1017	C956	G897	C834
G1685	C1625	A1565	A1505	A1444	G1383	C1323	U1262	G1198	A1138	C1078	U1018	U958	A898	C835
C1686	U1626	U1566	G1506	G1445	A1384	G1324	G1263	G1199	A1139	U1079	A1019	U959	A899	C836
U1687	U1627	U1567	G1507	A1446	G1385	A1325	G1264	G1200	G1140	U1080	A1020	U960	G897	C837
G1688	U1628	C1568	U1508	C1447	G1386	A1326	G1265	G1201	G1141	A1081	C1021	U961	A901	C838
A1689	G1629	A1569	C1509	G1448	G1387	C1327	U1266	A1202	A1142	C1082	C1022	C962	G902	C839
G1690	U1630	U1510	A1509	U1449	A1388	G1328	G1267	A1203	A1143	G1083	U1023	A963	U903	C840
A1691	A1631	U1511	U1510	U1450	C1389	A1329	G1268	A1204	A1144	A1084	U1024	U964	G904	C841
G1692	C1632	G1572	G1512	C1451	U1390	G1330	U1269	C1205	U1145	G1085	A1025	U965	A905	C842



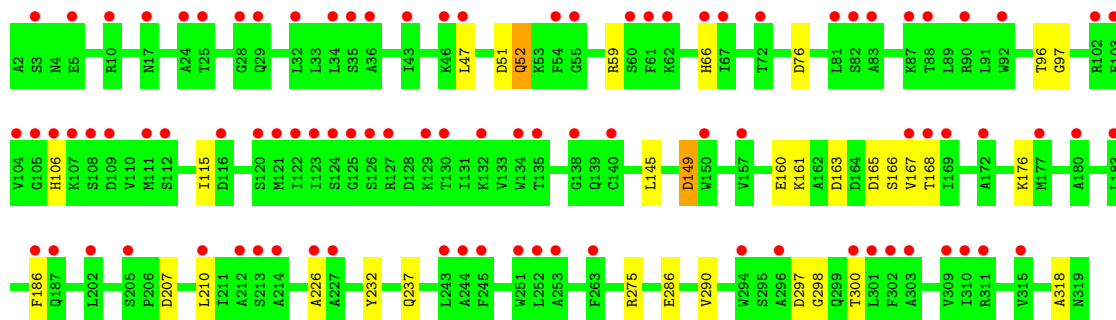
- Molecule 81: 40S ribosomal protein S10-A,40S Ribosomal Protein S10



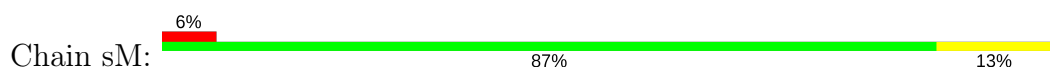
- Molecule 82: ES17



- Molecule 83: Guanine nucleotide-binding protein subunit beta-like protein



- Molecule 84: Suppressor protein STM1, Ribosome-bound protein Stm1



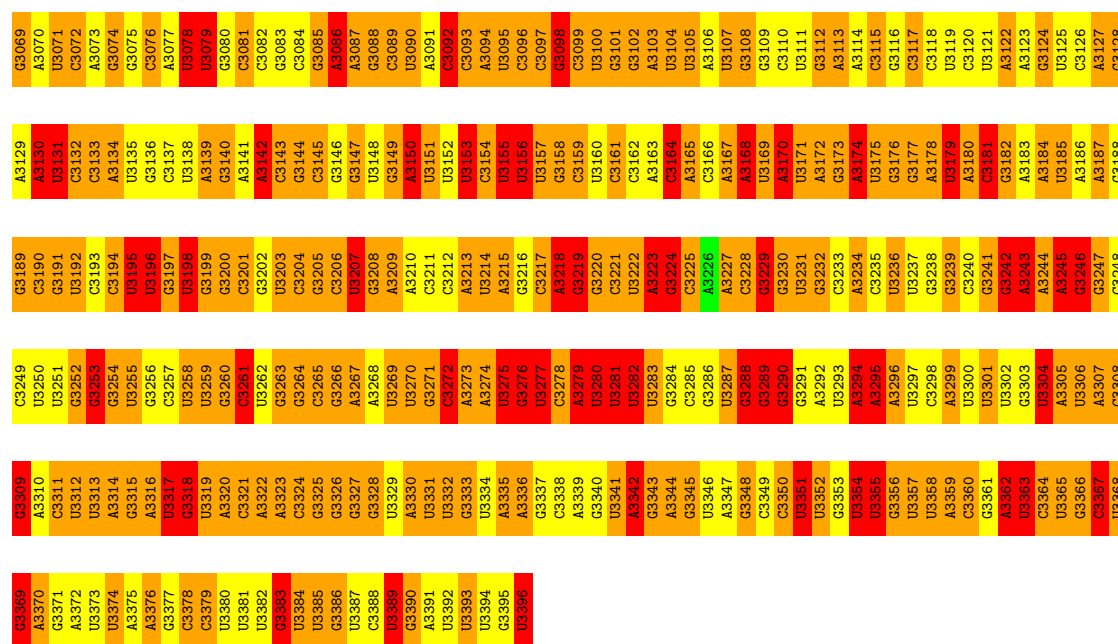
- Molecule 85: 25S ribosomal RNA



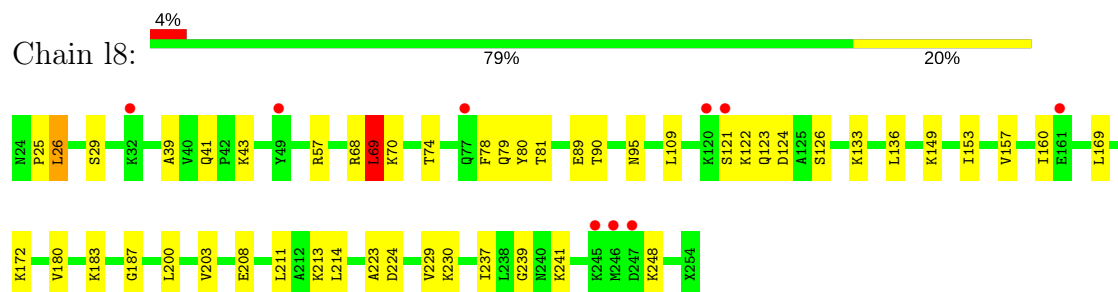
G950	A951	G952	G953	G954	G955	G956	G957	G958	G959	G960	G961	G962	G963	G964	G965	G966	G967	G968	G969	G970	G971	G972	G973	G974	G975	G976	G977	G978	G979	G980	G981	G982	G983	G984	G985	G986	G987	G988	G989	G990	G991	G992	G993	G994	G995	G996	G997	G998	G999	C1000	G1001	A1002	A1003	A1004	G1005	A1006	U1007	U1008	U1009																																																																																																																																																																																																																																			
A830	G831	G832	G833	G834	G835	G836	G837	G838	G839	G840	G841	G842	G843	G844	G845	G846	G847	G848	G849	G850	G851	G852	G853	G854	G855	G856	G857	G858	G859	G860	G861	G862	G863	G864	G865	G866	G867	G868	G869	G870	G871	G872	G873	G874	G875	G876	G877	G878	G879	G880	G881	G882	G883	G884	G885	G886	G887	G888	G889																																																																																																																																																																																																																																			
G770	A771	G772	G773	G774	G775	G776	G777	G778	G779	G780	G781	G782	G783	G784	G785	G786	G787	G788	G789	G790	G791	G792	G793	G794	G795	G796	G797	G798	G799	G800	G801	G802	G803	G804	G805	G806	G807	G808	G809	G810	G811	G812	G813	G814	G815	G816	G817	G818	G819	G820	G821	G822	G823	G824	G825	G826	G827	G828																																																																																																																																																																																																																																				
C650	G651	G652	G653	G654	G655	G656	G657	G658	G659	G660	G661	G662	G663	G664	G665	G666	G667	G668	G669	G670	G671	G672	G673	G674	G675	G676	G677	G678	G679	G680	G681	G682	G683	G684	G685	G686	G687	G688	G689	G690	G691	G692	G693	G694	G695	G696	G697	G698	G699	G700	G701	G702	G703	G704	G705	G706	G707	G708	G709																																																																																																																																																																																																																																			
G590	G591	A592	C593	G594	G595	G596	G597	G598	G599	G600	G601	G602	G603	G604	G605	G606	G607	G608	G609	G610	G611	G612	G613	G614	G615	G616	G617	G618	G619	G620	G621	G622	G623	G624	G625	G626	G627	G628	G629	G630	G631	G632	G633	G634	G635	G636	G637	G638	G639	G640	G641	G642	G643	G644	G645	G646	G647	G648	A649																																																																																																																																																																																																																																			
G530	G531	A532	C533	G534	G535	G536	G537	G538	G539	G540	G541	G542	C543	C544	G545	G546	G547	G548	G549	G550	G551	G552	G553	G554	G555	G556	G557	G558	G559	G560	G561	G562	G563	G564	G565	G566	G567	G568	G569	G570	G571	G572	G573	G574	G575	G576	G577	G578	G579	G580	G581	G582	G583	G584	G585	G586	G587	G588	A589																																																																																																																																																																																																																																			
A423	G424	G425	G426	G427	G428	G429	G430	G431	G432	G433	G434	G435	A436	A437	A438	C439	G440	G441	G442	G443	G444	G445	G446	G447	G448	G449	G450	G451	G452	G453	G454	G455	G456	G457	G458	G459	G460	G461	G462	G463	G464	G465	G466	G467	G468	G469	G470	G471	G472	G473	G474	G475	G476	G477	G478	G479																																																																																																																																																																																																																																						
G363	G364	A365	A366	A367	G368	A369	G370	G371	A372	G373	A374	A375	G376	A377	G378	G379	G380	G381	G382	G383	A384	A385	A386	A387	G388	A389	G390	A391	G392	G393	G394	A395	A396	A397	A398	A399	G400	G401	G402	G403	G404	G405	G406	G407	G408	G409	G410	G411	G412	G413	G414	G415	G416	G417	G418	G419	G420	G421	G422	G423	G424	G425	G426	G427	G428	G429	G430	G431	G432	G433	G434	G435	G436	G437	G438	G439	G440	G441	G442	G443	G444	G445	G446	G447	G448	G449	G450	G451	G452	G453	G454	G455	G456	G457	G458	G459	G460	G461	G462	G463	G464	G465	G466	G467	G468	G469	G470	G471	G472	G473	G474	G475	G476	G477	G478	G479	G480	G481	G482	G483	G484	G485	G486	G487	G488	G489	G490	G491	G492	G493	G494	G495	G496	G497	G498	G499	G500	G501	G502	G503	G504	G505	G506	G507	G508	G509	G510	G511	G512	G513	G514	G515	G516	G517	G518	G519	G520	G521	G522	G523	G524	G525	G526	G527	G528	G529	G530	G531	G532	G533	G534	G535	G536	G537	G538	G539	G540	G541	G542	G543	G544	G545	G546	G547	G548	G549	G550	G551	G552	G553	G554	G555	G556	G557	G558	G559	G560	G561	G562	G563	G564	G565	G566	G567	G568	G569	G570	G571	G572	G573	G574	G575	G576	G577	G578	G579	G580	G581	G582	G583	G584	G585	G586	G587	G588	G589	G590	G591	G592	G593	G594	G595	G596	G597	G598	G599	G600	G601	G602	G603	G604	G605	G606	G607	G608	G609	G610	G611	G612	G613	G614	G615	G616	G617	G618	G619	G620	G621	G622	G623	G624	G625	G626	G627	G628	G629	G630	G631	G632	G633	G634	G635	G636	G637	G638	G639	G640	G641	G642	G643	G644	G645	G646	G647	G648	G649
G243	G244	U245	U246	C247	U248	U249	U250	G251	U252	C253	U254	A255	A256	G257	U258	C259	G260	U261	U262	C263	G264	C265	A266	U267	A268	G269	U270	C271	C272	C273	A274	G275	U276	G277	U278	U279	U280	G281	G282	G283	A284	A285	C286	G287	C288	A289	G290	C291	U292	G293	C294	U295	A296	G297	U298	G299	G300	G301	A302	U303																																																																																																																																																																																																																																		
G303	G304	U305	A306	A307	A308	U309	U310	C311	C312	A313	C314	U315	C316	U317	A318	C319	G320	U321	U322	C323	A324	C325	U326	A327	U328	G329	U330	C331	C332	C333	A334	G335	A336	G337	A338	C339	C340	G341	A342	U343	A344	G345	C346	G347	A348	A349	C350	A351	A352	G353	U354	A355	C356	A357	U358	U359	G360	A361	U362																																																																																																																																																																																																																																			
U3	U4	G5	A6	C7	C8	U9	C10	A11	A12	A13	A14	C15	A16	G17	G18	U19	A20	G21	G22	A23	G24	U25	A26	C27	C28	C29	G30	C31	U32	G33	A34	A35	C36	U37	U38	A39	A40	G41	C42	A43	U44	A45	U46	C47	A48	A49	U50	A51	A52	G53	C54	G55	G56	A57	G58	G59	A60	A61	A62																																																																																																																																																																																																																																			

C1861	C1791	A1731	C1671	G1611	C1551	A1491	G1431	G1371	G1311	A1251	U1191	G1131	U1071	G1010
G1852	C1792	U1732	C1672	A1612	C1552	A1492	C1432	C1372	C1312	A1252	C1192	C1132	G1072	A1011
U1853	C1793	G1733	G1673	A1613	U1553	G1493	A1433	A1373	C1313	U1253	G1193	A1133	U1073	G1012
C1854	G1794	G1734	G1674	C1614	U1554	U1494	G1434	G1374	C1314	C1254	G1194	A1134	U1074	G1013
U1855	U1795	G1735	G1675	U1615	U1555	U1495	A1435	U1375	U1315	C1255	C1195	A1135	C1075	U1014
C1856	G1796	G1736	G1676	C1616	C1556	A1496	U1436	C1376	C1316	G1256	C1196	A1136	C1076	U1015
C1857	U1797	G1737	G1677	G1617	A1557	C1497	U1437	G1377	A1317	C1257	C1197	C1137	U1077	C1016
A1858	C1798	C1738	G1678	C1618	U1558	A1498	U1438	U1378	A1318	U1258	C1198	U1138	U1078	G1017
A1859	U1799	U1739	G1679	A1619	A1559	C1499	U1439	G1379	G1319	U1259	C1199	U1139	A1079	C1018
C1860	G1800	U1740	G1680	C1620	U1560	G1500	G1440	G1380	C1320	A1260	A1200	C1140	U1080	G1019
G1861	U1801	A1741	G1681	A1621	G1561	U1501	G1441	A1381	C1321	G1261	C1201	C1141	U1081	G1020
C1862	C1802	U1742	G1682	G1622	C1562	A1502	U1442	G1382	U1322	G1262	A1202	G1142	U1082	G1021
G1863	G1803	G1743	G1683	G1623	C1563	A1503	G1443	G1383	G1323	A1263	C1203	A1143	G1083	U1022
A1864	A1804	G1744	U1684	G1624	U1564	A1504	G1444	U1384	U1324	G1264	A1204	U1144	A1084	C1023
C1865	C1805	C1745	C1685	A1625	G1565	C1505	U1445	C1385	U1325	U1265	A1205	G1145	A1085	G1024
A1866	A1806	U1746	A1686	A1626	U1566	A1506	A1446	A1386	A1326	U1266	G1206	G1146	C1086	U1025
A1867	G1807	G1747	U1687	U1627	U1567	G1507	U1447	G1387	C1327	U1267	G1207	G1147	G1087	A1026
G1868	G1808	G1748	U1688	C1628	U1568	C1508	U1448	U1388	C1328	G1268	U1208	G1148	U1088	A1027
A1869	A1809	A1749	G1689	U1629	U1569	A1509	U1449	G1389	U1329	U1269	G1209	G1149	G1089	U1028
C1870	C1890	U1750	C1690	U1630	U1570	G1510	G1450	A1390	A1330	A1270	U1210	A1150	G1090	G1029
U1871	A1811	G1751	G1691	C1631	U1571	C1511	C1451	C1391	U1331	A1271	U1211	U1151	A1091	C1032
C1872	C1812	A1752	G1692	A1632	U1572	U1512	A1452	G1392	A1332	C1272	A1212	G1152	C1092	C1033
U1873	G1813	G1753	C1693	C1633	G1573	C1513	A1453	A1393	C1333	A1273	G1213	A1153	A1093	U1034
A1874	A1814	G1754	U1694	G1634	C1574	A1514	A1454	A1394	U1334	A1274	U1214	A1154	U1094	G1035
G1875	U1815	G1755	U1695	G1635	A1575	A1515	U1455	G1395	C1335	C1275	U1215	C1155	U1095	G1036
U1876	A1816	C1756	A1696	U1636	G1576	C1516	A1456	C1396	U1336	U1276	C1216	C1156	U1096	A1037
G1877	G1817	A1757	A1697	A1637	G1577	U1517	U1457	C1397	A1337	C1277	U1217	G1157	G1097	A1038
G1878	U1818	G1758	C1698	A1638	U1578	A1518	U1458	U1398	C1338	A1278	U1218	A1158	A1098	C1039
A1879	A1819	U1759	A1699	C1639	C1579	G1519	C1459	A1399	C1339	C1279	U1219	A1159	A1099	U1039
U1880	U1820	A1760	G1700	G1640	A1580	U1520	A1460	G1400	G1340	C1280	U1220	C1160	U1100	A1040
A1881	C1821	C1761	C1701	U1641	C1581	G1521	A1461	A1401	U1341	G1281	A1221	G1161	G1101	U1041
C1882	C1822	C1762	U1702	A1642	C1582	U1522	A1462	C1402	C1342	G1282	G1222	U1162	A1102	U1042
A1883	A1823	U1763	G1703	A1643	U1583	G1523	A1463	A1403	A1343	C1283	A1223	A1163	A1103	C1043
A1884	U1824	U1764	U1704	C1644	U1584	A1524	G1464	G1404	G1344	G1284	C1224	G1164	G1104	U1044
U1885	G1825	G1765	C1705	U1645	C1585	G1525	A1465	A1405	G1345	G1285	G1225	A1165	A1105	C1045
A1886	C1826	G1766	G1706	G1646	G1586	U1526	G1466	A1406	G1346	A1286	C1226	G1166	G1106	A1046
A1887	G1827	G1767	A1707	A1647	A1587	G1527	A1467	A1407	U1347	U1287	C1227	U1167	C1107	A1047
U1888	A1828	U1768	C1708	A1648	A1588	G1528	A1468	G1408	U1348	U1288	C1228	U1168	U1108	A1048
G1889	G1829	G1769	C1709	U1649	A1589	U1529	C1469	G1409	G1349	G1289	G1229	A1169	U1109	C1049
A1890	U1830	G1770	C1710	G1650	G1590	U1530	U1470	U1410	A1350	A1290	G1230	A1170	U1110	U1050
A1891	C1831	C1771	G1711	U1651	G1591	C1531	U1471	C1411	U1351	A1291	A1231	G1171	U1111	U1051
G1892	G1832	U1772	G1712	G1652	G1592	C1532	U1472	G1412	A1352	C1292	G1232	G1172	A1112	U1052
A1893	C1833	C1773	G1713	G1653	A1593	U1533	G1473	G1413	U1353	U1293	G1233	U1173	G1113	A1053
U1894	A1834	C1774	A1714	A1654	A1594	A1534	A1474	G1414	G1354	A1294	G1234	G1174	U1114	A1054
A1895	A1835	G1775	A1715	G1655	U1595	A1535	A1475	U1415	A1355	G1295	U1235	C1175	G1115	A1055
A1896	C1836	G1776	A1716	A1656	G1596	C1536	G1476	C1416	U1356	C1296	G1236	G1176	G1116	U1056
G1897	U1837	U1777	U1717	C1657	C1597	A1537	A1477	G1417	G1357	C1297	G1237	G1177	G1117	A1057
G1898	G1838	G1778	G1718	G1658	G1598	C1538	G1478	A1418	C1358	C1298	C1238	G1178	C1118	U1058
G1899	A1839	C1779	G1719	U1659	U1599	A1539	U1479	A1419	C1359	U1299	G1239	A1179	C1119	G1059
A1900	U1840	G1780	U1720	C1660	U1600	U1540	G1480	C1420	C1360	G1300	A1240	A1180	U1120	U1060
A1901	A1841	C1781	U1721	G1661	U1601	G1541	A1481	G1421	U1361	A1301	U1241	A1181	U1121	A1061
G1902	C1842	U1782	U1722	G1662	A1602	G1542	A1482	G1422	G1362	A1302	U1242	A1182	U1122	A1062
U1903	C1843	U1783	C1723	C1663	A1603	G1543	G1483	C1423	A1363	A1303	G1243	C1183	U1123	G1063
C1904	C1844	G1784	U1724	G1664	G1604	A1544	U1484	C1424	C1364	A1304	A1244	A1184	U1124	A1064
G1905	G1845	U1785	C1725	G1665	A1605	A1545	G1485	U1425	G1365	U1305	A1245	C1185	U1125	A1065
G1906	G1846	G1786	C1726	G1666	A1606	A1546	G1486	C1426	A1366	G1306	G1246	G1186	G1126	G1066
C1907	A1847	A1787	G1727	A1667	U1607	G1547	G1487	U1427	G1367	G1307	U1247	C1187	G1127	U1067
A1908	G1848	C1788	G1728	G1668	C1608	C1548	G1488	A1428	U1368	A1308	G1248	C1188	U1128	C1068
U1909	C1849	G1789	A1729	C1669	G1609	U1549	A1489	G1429	A1369	U1309	G1249	C1189	A1129	G1069
A1910	A1850	G1790	G1730	C1670	G1610	C1550	A1490	U1430	G1370	G1310	G1250	A1190	A1130	U1070

G3009	U2949	C2869	A2769	C2709	A2649	G2528	U2410	C2350	C2290	C2230	G2110	A1911
U3010	G2950	A2890	G2770	C2710	U2650	A2528	U2411	U2351	A2291	C2231	G2111	U1912
A3011	G2951	A2891	G2771	C2711	G2651	G2530	G2412	A2352	U2292	A2232	U2112	A1913
A3012	G2952	A2892	C2772	U2712	U2652	G2531	A2413	G2353	C2293	A2233	A2113	G1914
U3013	G2953	A2893	C2773	U2713	G2653	U2532	G2414	C2354	U2294	G2234	C2114	A1915
U3014	G2954	A2894	C2774	G2714	C2654	G2533	G2415	G2355	A2295	G2235	G2115	U1916
G3015	U2955	G2895	U2775	A2715	U2655	G2534	U2416	A2356	A2296	G2236	G2116	C1917
A3016	A2956	G2896	G2776	U2716	A2656	G2535	U2417	A2357	U2297	C2237	A2117	C1918
A3017	G2957	A2897	G2777	U2717	A2657	A2536	G2418	G2358	U2298	G2238	G2118	G1919
G3018	A2958	G2898	G2778	U2718	G2658	U2537	A2419	C2359	A2299	G2239	C2119	U1920
U3019	G2959	A2899	G2779	U2719	G2659	U2538	G2420	G2360	G2300	G2240	A2120	A1921
U3020	G2960	A2900	U2780	G2720	G2660	G2539	G2421	A2361	U2301	A2241	G2121	A1922
A3021	G2961	G2901	U2781	A2721	G2661	A2540	U2422	G2362	G2302	A2242	G2122	G1923
G3022	U2962	A2902	U2782	U2722	G2662	U2541	U2423	A2363	A2303	A2243	G2123	U1924
U3023	C2963	G2903	U2783	U2723	G2663	U2542	A2424	G2364	C2304	A2244	G2124	U1925
A3024	G2964	U2904	G2784	U2724	G2664	U2543	G2425	G2365	G2305	A2245	G2125	G1926
G3025	U2965	A2905	A2785	U2725	U2665	U2544	U2426	G2366	C2306	G2246	A2126	G1927
C3026	G2966	G2906	G2786	C2726	C2666	G2546	U2427	G2367	G2307	G2247	U2127	G1928
A3027	A2967	G2907	G2787	A2727	A2667	U2547	U2428	A2368	C2308	G2248	C2128	G1929
G3028	G2968	C2908	C2788	U2728	U2668	C2548	U2429	G2369	A2309	G2249	U2129	A1930
U3029	A2969	U2909	U2789	U2729	G2669	C2549	A2430	G2370	U2310	G2250	G2130	U1931
G3030	G3030	A2910	G2790	G2730	G2670	U2550	C2431	G2371	G2311	G2251	A2131	A1932
A3031	A2911	A2851	G2791	U2731	A2671	U2551	A2432	A2372	A2312	A2252	C2132	A1933
A3032	G2912	C2852	A2792	G2732	G2672	G2552	U2433	A2373	A2313	G2253	U2133	G1934
A3033	G2913	A2853	G2793	A2733	G2673	U2553	U2434	C2374	U2314	U2254	G2134	G1935
G3034	U2974	U2854	G2794	A2734	A2674	A2554	G2435	G2375	G2315	A2255	U2135	A1936
A3035	U2975	U2855	U2795	U2735	C2675	G2555	U2436	G2376	G2316	A2256	C2136	U1937
G3036	A2976	G2856	G2796	A2736	U2676	G2556	G2437	A2377	A2317	G2257	U2137	U1938
U3037	G2977	G2857	C2797	G2737	G2677	U2557	A2438	C2378	U2318	U2258	A2138	G1939
G3038	U3038	U2858	G2798	A2738	A2678	U2558	U2439	U2379	A2319	A2259	A2139	G1940
G3039	U2979	U2859	A2799	A2739	U2679	U2559	G2440	U2380	A2320	U2260	U2140	C1941
A3040	U2980	U2860	G2800	A2740	A2680	C2560	A2441	G2381	A2321	G2261	U2141	U1942
U3041	U2981	U2861	A2801	C2741	U2681	G2561	G2442	G2382	C2322	A2262	A2142	C1943
A2982	U2982	U2862	A2802	G2742	G2682	A2562	A2443	C2383	G2323	G2263	A2143	A1944
C3043	C2983	G2863	A2803	A2743	U2683	G2563	A2444	A2384	A2324	U2264	A2144	A1945
G3044	G2984	A2864	A2804	U2744	C2684	U2564	G2503	G2385	G2325	G2265	A2145	A1946
G3045	G2985	U2865	G2805	G2745	C2685	U2565	U2504	A2386	A2326	U2266	C2146	G1947
A3046	U2986	U2866	U2806	A2746	A2686	G2566	U2505	A2387	U2327	G2267	A2147	G1948
U3047	A2987	C2867	U2807	U2747	G2687	C2567	U2506	U2388	U2328	U2268	U2148	G1949
A3048	C2988	U2868	A2808	A2748	A2688	C2568	C2507	C2389	C2329	U2269	A2149	U1950
U3049	U2989	U2869	C2809	G2749	U2689	A2569	U2508	A2390	C2330	A2270	G2150	C1951
G3050	G2990	C2870	C2810	U2750	G2690	U2570	U2509	G2391	C2331	A2271	C2151	G1952
U3051	A2991	G2871	U2811	G2751	A2691	U2571	U2510	G2392	G2332	G2272	C2152	G1953
G3052	U2992	A2872	C2812	U2752	A2692	G2572	A2511	G2393	G2333	G2273	U2153	A2093
C3053	G2993	U2873	A2813	G2753	C2693	G2573	C2512	G2394	U2334	U2274	U2154	C2094
U3054	A2994	G2874	G2814	G2754	A2694	G2574	U2513	G2395	G2335	A2275	G2155	G2095
U3055	A2995	U2875	G2815	C2755	A2695	G2575	U2514	G2396	U2336	G2276	C2156	A2096
U3056	U2996	C2876	G2816	C2756	A2696	G2576	A2515	A2397	C2337	G2277	G2157	U2097
U3057	G2997	G2877	A2817	U2757	A2697	C2577	U2516	A2398	C2338	C2278	A2158	C2098
U3058	U2998	G2878	U2818	A2758	G2698	U2578	U2517	A2399	C2339	A2279	U2159	A2099
G3059	U2999	C2879	A2819	U2759	G2699	U2579	C2518	G2400	U2340	A2280	G2160	A2100
C3060	A3000	U2880	A2820	G2760	U2700	A2580	A2519	A2401	A2341	A2281	G2161	C2101
G3061	G3061	C2881	C2821	U2761	U2701	U2581	A2520	A2402	U2342	U2282	U2162	U2102
C3062	C3002	U2882	A2702	A2762	C2642	C2582	U2521	G2403	G2343	G2283	C2163	U2103
C3063	G3003	G2883	G2823	U2763	A2703	C2583	G2522	U2404	U2344	A2284	A2164	A2104
U3064	A2944	G2884	A2704	G2764	C2644	G2584	A2523	C2405	A2345	C2285	G2165	G2105
G3065	A3005	C2885	A2705	G2765	A2705	G2585	A2524	G2406	C2346	U2286	A2166	A2106
U3066	A3006	U2886	G2706	U2766	G2706	G2586	G2525	U2407	U2347	C2287	A2167	A2107
C3067	U3007	A2887	G2707	U2767	U2647	U2587	C2526	U2408	A2348	G2288	A2168	C2108
U3068	A3008	G2888	G2708	U2768	C2708	U2588	G2527	G2409	U2349	U2289	G2169	U2109



- Molecule 86: 60S ribosomal protein L8-A,60S Ribosomal Protein L8

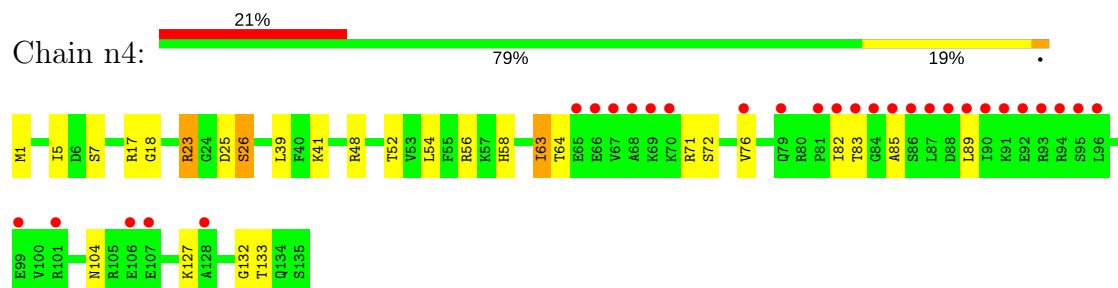


- Molecule 87: 60S Ribosomal Protein L12

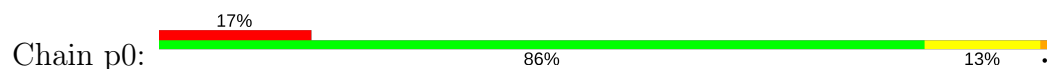
Chain m2: 100%

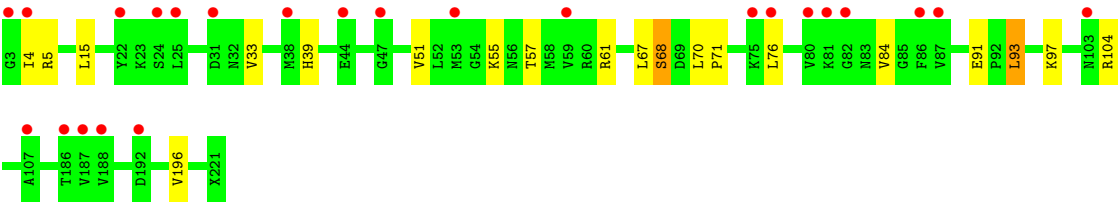
There are no outlier residues recorded for this chain.

- Molecule 88: 60S ribosomal protein L24-A



- Molecule 89: 60S Ribosomal Protein P0





● Molecule 90: 60S Ribosomal Protein P1/2



There are no outlier residues recorded for this chain.

● Molecule 90: 60S Ribosomal Protein P1/2



● Molecule 91: Peptidyl-tRNA analog ACCA-Leu-Phe



● Molecule 91: Peptidyl-tRNA analog ACCA-Leu-Phe



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	434.73Å 286.77Å 303.15Å 90.00° 98.87° 90.00°	Depositor
Resolution (Å)	148.72 – 3.50 149.76 – 3.50	Depositor EDS
% Data completeness (in resolution range)	99.8 (148.72-3.50) 99.7 (149.76-3.50)	Depositor EDS
R_{merge}	0.61	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.34 (at 3.49Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.261 , 0.312 0.261 , 0.311	Depositor DCC
R_{free} test set	18368 reflections (2.00%)	DCC
Wilson B-factor (Å ²)	83.6	Xtriage
Anisotropy	0.146	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 52.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.84	EDS
Total number of atoms	411589	wwPDB-VP
Average B, all atoms (Å ²)	64.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.58% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, SPS, OHX, MG, 8AN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	2	1.53	426/42467 (1.0%)	2.41	4031/66169 (6.1%)
2	S0	0.67	0/1617	0.76	0/2215
2	s0	0.78	0/1623	0.86	1/2222 (0.0%)
3	S1	0.59	0/1735	0.75	1/2335 (0.0%)
3	s1	0.82	2/1748 (0.1%)	0.95	5/2352 (0.2%)
4	S2	0.73	0/1665	0.81	0/2263
4	s2	0.86	2/1665 (0.1%)	0.96	4/2263 (0.2%)
5	S3	0.68	0/1759	0.78	0/2368
5	s3	0.70	0/1759	0.79	0/2368
6	S4	0.85	2/2109 (0.1%)	0.91	2/2839 (0.1%)
6	s4	0.84	1/2109 (0.0%)	0.98	1/2839 (0.0%)
7	S5	0.66	0/1629	0.76	0/2202
7	s5	0.65	1/1629 (0.1%)	0.76	1/2202 (0.0%)
8	S6	0.84	3/1823 (0.2%)	0.92	5/2439 (0.2%)
8	s6	0.93	1/1779 (0.1%)	1.01	6/2379 (0.3%)
9	S7	0.73	2/1506 (0.1%)	0.79	0/2028
9	s7	0.78	0/1516	0.85	2/2043 (0.1%)
10	S8	0.79	1/1514 (0.1%)	0.90	2/2021 (0.1%)
10	s8	0.94	2/1514 (0.1%)	1.00	5/2021 (0.2%)
11	S9	0.75	2/1519 (0.1%)	0.88	1/2035 (0.0%)
11	s9	0.84	1/1519 (0.1%)	0.97	4/2035 (0.2%)
12	C0	0.62	0/725	0.72	0/978
13	C1	0.86	1/1195 (0.1%)	0.84	0/1612
13	c1	0.94	1/1194 (0.1%)	0.96	1/1610 (0.1%)
14	C2	0.59	0/873	0.72	0/1185
14	c2	0.47	0/873	0.63	0/1185
15	C3	0.75	0/1215	0.86	1/1638 (0.1%)
15	c3	0.86	1/1215 (0.1%)	0.93	0/1638
16	C4	0.59	0/901	0.75	0/1217
16	c4	0.85	0/960	0.97	0/1290
17	C5	0.85	2/988 (0.2%)	0.85	0/1327
17	c5	0.74	0/1010	0.85	1/1356 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
18	C6	0.65	0/1125	0.80	2/1510 (0.1%)
18	c6	0.69	0/1131	0.74	0/1518
19	C7	0.66	0/935	0.76	0/1254
20	C8	0.70	0/1211	0.82	0/1628
20	c8	0.76	1/1211 (0.1%)	0.87	0/1628
21	C9	0.66	0/1130	0.75	0/1517
21	c9	0.70	0/1130	0.79	1/1517 (0.1%)
22	D0	0.64	0/865	0.80	1/1169 (0.1%)
22	d0	0.72	0/892	0.75	0/1205
23	D1	0.72	0/693	0.83	0/935
23	d1	0.87	0/693	0.96	1/935 (0.1%)
24	D2	0.81	0/1038	0.90	2/1395 (0.1%)
24	d2	0.90	2/1038 (0.2%)	0.95	2/1395 (0.1%)
25	D3	0.85	1/1139 (0.1%)	0.90	1/1518 (0.1%)
25	d3	1.05	1/1139 (0.1%)	1.07	4/1518 (0.3%)
26	D4	0.79	0/1087	0.85	0/1449
26	d4	0.93	0/1087	1.04	5/1449 (0.3%)
27	D5	0.66	0/571	0.78	0/768
27	d5	0.78	1/566 (0.2%)	0.76	0/761
28	D6	0.68	0/782	0.78	1/1047 (0.1%)
28	d6	0.84	2/782 (0.3%)	0.99	1/1047 (0.1%)
29	D7	0.76	0/620	0.80	0/838
29	d7	0.82	2/620 (0.3%)	0.89	0/838
30	D8	0.69	0/499	0.82	1/670 (0.1%)
30	d8	0.69	0/499	0.91	0/670
31	D9	0.76	1/452 (0.2%)	0.80	0/600
31	d9	0.78	1/452 (0.2%)	0.80	0/600
32	E0	0.74	0/483	0.78	0/643
32	e0	0.94	1/499 (0.2%)	0.94	1/665 (0.2%)
33	E1	0.72	0/577	0.80	0/770
33	e1	0.66	0/619	0.77	0/822
34	SR	0.57	0/2490	0.71	0/3389
35	SM	0.77	1/925 (0.1%)	0.87	1/1240 (0.1%)
36	1	2.49	4418/75394 (5.9%)	3.49	15681/117545 (13.3%)
37	3	2.00	80/2883 (2.8%)	3.26	543/4491 (12.1%)
37	7	2.57	171/2883 (5.9%)	3.80	680/4491 (15.1%)
38	4	2.46	206/3746 (5.5%)	3.78	898/5832 (15.4%)
38	8	2.34	182/3746 (4.9%)	3.37	707/5832 (12.1%)
39	L2	1.18	7/1948 (0.4%)	1.22	16/2617 (0.6%)
39	l2	1.09	6/1946 (0.3%)	1.23	16/2614 (0.6%)
40	L3	1.18	16/3146 (0.5%)	1.19	19/4228 (0.4%)
40	l3	1.33	19/3146 (0.6%)	1.32	33/4228 (0.8%)
41	L4	1.29	18/2800 (0.6%)	1.30	28/3790 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
41	l4	1.26	14/2800 (0.5%)	1.22	18/3790 (0.5%)
42	L5	1.02	5/2425 (0.2%)	1.04	10/3271 (0.3%)
42	l5	1.23	14/2408 (0.6%)	1.22	17/3248 (0.5%)
43	L6	1.21	2/1260 (0.2%)	1.15	3/1694 (0.2%)
43	l6	1.16	4/1269 (0.3%)	1.26	12/1705 (0.7%)
44	L7	1.32	12/1821 (0.7%)	1.23	14/2451 (0.6%)
44	l7	1.44	19/1828 (1.0%)	1.23	15/2461 (0.6%)
45	L8	0.98	2/1836 (0.1%)	0.99	3/2481 (0.1%)
46	L9	1.10	6/1539 (0.4%)	1.11	10/2073 (0.5%)
46	l9	1.19	4/1539 (0.3%)	1.21	13/2073 (0.6%)
47	M0	1.15	9/1741 (0.5%)	1.18	14/2335 (0.6%)
47	m0	1.24	5/1758 (0.3%)	1.37	21/2358 (0.9%)
48	M1	0.93	3/1374 (0.2%)	0.97	2/1842 (0.1%)
48	m1	1.05	4/1374 (0.3%)	1.17	10/1842 (0.5%)
49	M3	1.20	10/1568 (0.6%)	1.23	13/2106 (0.6%)
49	m3	1.05	3/1573 (0.2%)	1.20	13/2113 (0.6%)
50	M4	1.11	5/1068 (0.5%)	1.15	6/1438 (0.4%)
50	m4	1.21	7/1074 (0.7%)	1.27	10/1446 (0.7%)
51	M5	1.19	7/1757 (0.4%)	1.28	19/2354 (0.8%)
51	m5	1.10	5/1757 (0.3%)	1.16	10/2354 (0.4%)
52	M6	1.40	18/1585 (1.1%)	1.37	22/2128 (1.0%)
52	m6	1.50	13/1585 (0.8%)	1.35	22/2128 (1.0%)
53	M7	1.29	4/1443 (0.3%)	1.14	10/1944 (0.5%)
53	m7	1.47	17/1250 (1.4%)	1.29	13/1683 (0.8%)
54	M8	1.26	11/1465 (0.8%)	1.22	11/1965 (0.6%)
54	m8	1.23	10/1465 (0.7%)	1.30	11/1965 (0.6%)
55	M9	0.93	0/1538	0.98	2/2050 (0.1%)
55	m9	0.96	2/1538 (0.1%)	1.05	8/2050 (0.4%)
56	N0	1.20	4/1481 (0.3%)	1.15	6/1990 (0.3%)
56	n0	1.35	11/1481 (0.7%)	1.23	9/1990 (0.5%)
57	N1	1.16	3/1300 (0.2%)	1.13	5/1743 (0.3%)
57	n1	1.32	10/1300 (0.8%)	1.20	10/1743 (0.6%)
58	N2	0.95	0/812	0.90	1/1099 (0.1%)
58	n2	0.94	0/794	1.00	2/1076 (0.2%)
59	N3	1.16	5/1018 (0.5%)	1.21	8/1369 (0.6%)
59	n3	1.39	11/1018 (1.1%)	1.34	13/1369 (0.9%)
60	N4	0.94	1/712 (0.1%)	0.97	3/958 (0.3%)
61	N5	1.14	3/979 (0.3%)	1.16	7/1321 (0.5%)
61	n5	1.11	4/974 (0.4%)	1.19	4/1314 (0.3%)
62	N6	1.17	7/1004 (0.7%)	1.33	12/1341 (0.9%)
62	n6	1.17	5/1004 (0.5%)	1.34	15/1341 (1.1%)
63	N7	0.91	0/1118	0.91	1/1497 (0.1%)
63	n7	0.96	2/1118 (0.2%)	0.95	3/1497 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
64	N8	1.22	4/1204 (0.3%)	1.24	11/1612 (0.7%)
64	n8	1.25	10/1204 (0.8%)	1.26	10/1612 (0.6%)
65	N9	1.08	1/473 (0.2%)	1.14	2/629 (0.3%)
65	n9	1.17	2/473 (0.4%)	1.16	2/629 (0.3%)
66	O0	0.81	0/751	0.91	0/1008
66	o0	0.94	1/775 (0.1%)	0.99	2/1040 (0.2%)
67	O1	1.07	3/890 (0.3%)	1.07	4/1196 (0.3%)
67	o1	1.23	5/897 (0.6%)	1.22	5/1205 (0.4%)
68	O2	1.40	13/1041 (1.2%)	1.34	14/1394 (1.0%)
68	o2	1.24	6/1041 (0.6%)	1.33	11/1394 (0.8%)
69	O3	1.50	10/868 (1.2%)	1.22	7/1168 (0.6%)
69	o3	1.54	13/868 (1.5%)	1.32	7/1168 (0.6%)
70	O4	1.01	1/890 (0.1%)	1.14	7/1189 (0.6%)
70	o4	1.03	2/890 (0.2%)	1.11	6/1189 (0.5%)
71	O5	1.18	5/978 (0.5%)	1.26	11/1301 (0.8%)
71	o5	0.96	2/974 (0.2%)	1.13	6/1297 (0.5%)
72	O6	0.99	0/778	1.15	3/1034 (0.3%)
72	o6	1.03	2/777 (0.3%)	1.16	3/1033 (0.3%)
73	O7	1.30	2/696 (0.3%)	1.29	7/923 (0.8%)
73	o7	1.25	4/696 (0.6%)	1.16	3/923 (0.3%)
74	O8	0.96	2/618 (0.3%)	1.08	3/826 (0.4%)
74	o8	0.83	0/614	1.01	3/822 (0.4%)
75	O9	1.09	1/443 (0.2%)	1.31	7/588 (1.2%)
75	o9	1.02	0/443	1.26	6/588 (1.0%)
76	Q0	1.15	3/423 (0.7%)	1.21	4/562 (0.7%)
76	q0	1.33	6/423 (1.4%)	1.22	3/562 (0.5%)
77	Q1	0.79	0/234	1.15	3/300 (1.0%)
77	q1	0.96	0/234	1.40	2/300 (0.7%)
78	Q2	1.22	3/860 (0.3%)	1.23	7/1136 (0.6%)
78	q2	1.32	4/860 (0.5%)	1.33	9/1136 (0.8%)
79	Q3	1.26	9/701 (1.3%)	1.31	7/934 (0.7%)
79	q3	1.22	6/701 (0.9%)	1.10	3/934 (0.3%)
80	6	1.94	1088/42790 (2.5%)	2.88	5446/66673 (8.2%)
81	c0	0.60	0/693	0.62	0/933
82	c7	0.69	0/914	0.83	1/1224 (0.1%)
83	sR	0.61	0/2495	0.72	0/3395
84	sM	0.87	1/481 (0.2%)	0.90	0/644
85	5	2.61	4902/75414 (6.5%)	3.71	16861/117575 (14.3%)
86	l8	0.92	1/1765 (0.1%)	0.95	3/2387 (0.1%)
88	n4	1.08	0/1052	1.10	7/1398 (0.5%)
89	p0	0.82	0/977	0.84	2/1313 (0.2%)
91	P	2.37	2/40 (5.0%)	4.21	9/60 (15.0%)
91	p	13.84	3/43 (7.0%)	5.74	11/64 (17.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
All	All	1.87	11986/430104 (2.8%)	2.68	45668/631544 (7.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
6	S4	0	2
9	s7	0	1
11	S9	0	1
17	c5	0	1
19	C7	0	1
22	d0	0	1
25	d3	0	1
27	D5	0	1
33	E1	0	2
39	L2	0	1
40	L3	0	1
40	l3	0	1
41	L4	0	2
41	l4	0	1
42	l5	0	2
44	L7	0	1
44	l7	0	2
47	M0	0	1
49	m3	0	1
52	M6	0	1
52	m6	0	1
53	M7	0	2
56	n0	0	2
57	N1	0	1
64	n8	0	1
65	N9	0	1
65	n9	0	1
68	o2	0	1
75	o9	0	1
80	6	0	1
81	c0	0	1
85	5	0	1
All	All	0	39

All (11986) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
91	p	74	C	P-O5'	89.50	2.49	1.59
37	7	63	A	C6-N6	27.75	1.56	1.33
80	6	1498	G	C8-N7	24.00	1.45	1.30
85	5	748	U	C4-O4	23.12	1.42	1.23
80	6	54	C	C4-N4	22.95	1.54	1.33
80	6	678	A	N7-C5	22.31	1.52	1.39
80	6	818	C	C4-N4	21.89	1.53	1.33
80	6	1673	G	C6-O6	21.52	1.43	1.24
80	6	347	G	C6-O6	21.13	1.43	1.24
85	5	383	G	C6-O6	20.38	1.42	1.24
80	6	1498	G	N7-C5	19.38	1.50	1.39
78	q2	17	CYS	CB-SG	19.33	2.15	1.82
36	1	1103	A	N9-C4	19.26	1.49	1.37
85	5	1772	U	C4-O4	19.02	1.38	1.23
85	5	2707	C	C4-N4	18.87	1.50	1.33
85	5	2208	A	C6-N6	18.74	1.49	1.33
85	5	3008	A	N9-C4	-18.67	1.26	1.37
80	6	420	A	C6-N6	18.44	1.48	1.33
80	6	410	A	P-OP1	17.80	1.79	1.49
80	6	1070	C	C4-N4	17.72	1.49	1.33
85	5	2656	A	N9-C4	-17.62	1.27	1.37
80	6	1143	A	N7-C5	17.34	1.49	1.39
80	6	1107	G	P-OP1	17.28	1.78	1.49
80	6	1498	G	N9-C8	17.21	1.49	1.37
36	1	440	A	N3-C4	17.04	1.45	1.34
80	6	32	U	C4-O4	16.74	1.37	1.23
80	6	264	G	C8-N7	16.65	1.41	1.30
80	6	122	U	C5-C6	16.64	1.49	1.34
85	5	1149	G	N9-C8	16.63	1.49	1.37
85	5	39	A	N3-C4	-16.49	1.25	1.34
85	5	1047	A	N9-C4	-16.41	1.28	1.37
85	5	39	A	N9-C4	-16.38	1.28	1.37
6	S4	82	TYR	C-N	-16.37	1.03	1.34
80	6	1051	G	C8-N7	16.35	1.40	1.30
36	1	967	A	N9-C4	-16.28	1.28	1.37
80	6	382	C	P-OP2	16.20	1.76	1.49
85	5	2124	G	C6-O6	16.19	1.38	1.24
78	Q2	17	CYS	CB-SG	16.10	2.09	1.82
85	5	2603	G	C8-N7	15.97	1.40	1.30
85	5	2725	U	C4-O4	15.96	1.36	1.23
85	5	2358	A	P-OP2	15.89	1.75	1.49
85	5	1124	U	C4-O4	15.86	1.36	1.23
80	6	423	G	C8-N7	15.85	1.40	1.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2896	A	N9-C4	-15.79	1.28	1.37
80	6	1449	U	C4-O4	15.74	1.36	1.23
36	1	440	A	N9-C4	15.72	1.47	1.37
85	5	2401	A	N3-C4	15.72	1.44	1.34
85	5	777	U	C5-C6	15.49	1.48	1.34
85	5	1887	A	N9-C4	-15.46	1.28	1.37
85	5	981	U	C2-N3	15.45	1.48	1.37
36	1	433	A	N9-C4	-15.23	1.28	1.37
80	6	419	G	N7-C5	15.19	1.48	1.39
80	6	54	C	N3-C4	15.17	1.44	1.33
80	6	1109	G	N7-C5	15.15	1.48	1.39
80	6	818	C	N3-C4	15.04	1.44	1.33
36	1	1352	A	N3-C4	14.89	1.43	1.34
36	1	2636	A	N3-C4	-14.89	1.25	1.34
36	1	346	C	N1-C6	-14.85	1.28	1.37
36	1	1372	C	N1-C6	-14.84	1.28	1.37
36	1	338	A	N3-C4	-14.82	1.25	1.34
36	1	2619	G	C6-N1	-14.79	1.29	1.39
85	5	3061	G	P-OP2	14.79	1.74	1.49
36	1	585	A	N9-C4	-14.75	1.28	1.37
37	7	65	G	P-OP2	14.73	1.74	1.49
36	1	1352	A	N9-C4	14.73	1.46	1.37
85	5	2984	C	N1-C6	-14.72	1.28	1.37
36	1	948	C	N1-C6	-14.65	1.28	1.37
80	6	1653	C	N1-C6	-14.57	1.28	1.37
36	1	1165	A	N9-C4	-14.53	1.29	1.37
36	1	3000	A	N9-C4	-14.46	1.29	1.37
80	6	872	G	C6-O6	14.42	1.37	1.24
80	6	1155	G	C8-N7	14.41	1.39	1.30
85	5	1862	U	C4-O4	14.35	1.35	1.23
80	6	1137	A	N9-C4	-14.33	1.29	1.37
37	7	63	A	C5-C6	14.32	1.53	1.41
85	5	1190	A	N3-C4	-14.25	1.26	1.34
85	5	2319	U	C4-O4	14.21	1.35	1.23
36	1	1371	G	N3-C4	-14.17	1.25	1.35
80	6	818	C	C2-N3	14.16	1.47	1.35
80	6	1214	U	C4-O4	14.15	1.34	1.23
85	5	774	G	C6-O6	14.15	1.36	1.24
80	6	1109	G	C8-N7	14.14	1.39	1.30
85	5	1935	G	C8-N7	14.14	1.39	1.30
80	6	463	U	C4-O4	14.10	1.34	1.23
85	5	868	C	N1-C6	-14.10	1.28	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1582	C	N1-C6	14.08	1.45	1.37
85	5	1440	G	N3-C4	-14.07	1.25	1.35
85	5	653	A	N9-C4	-14.05	1.29	1.37
80	6	1353	U	C5-C6	14.05	1.46	1.34
85	5	2401	A	N9-C4	14.05	1.46	1.37
36	1	885	U	C2-N3	-14.04	1.27	1.37
85	5	1849	C	N1-C6	-14.03	1.28	1.37
85	5	2986	U	P-OP1	14.03	1.72	1.49
80	6	54	C	C2-N3	13.99	1.47	1.35
38	4	92	A	N9-C4	-13.97	1.29	1.37
85	5	2966	G	N7-C5	-13.96	1.30	1.39
36	1	80	G	C6-N1	-13.94	1.29	1.39
36	1	646	A	N3-C4	-13.94	1.26	1.34
36	1	324	A	N3-C4	-13.86	1.26	1.34
85	5	777	U	N1-C6	13.84	1.50	1.38
36	1	201	A	N9-C4	-13.83	1.29	1.37
85	5	3239	G	C8-N7	13.81	1.39	1.30
85	5	3040	A	N9-C4	-13.81	1.29	1.37
80	6	1652	C	P-OP1	13.81	1.72	1.49
36	1	2811	A	N3-C4	-13.80	1.26	1.34
85	5	2375	G	N7-C5	-13.80	1.30	1.39
85	5	653	A	C5-C6	-13.77	1.28	1.41
80	6	991	G	P-OP2	13.74	1.72	1.49
80	6	1051	G	N9-C8	13.72	1.47	1.37
36	1	653	A	N7-C5	-13.70	1.31	1.39
36	1	1435	A	N7-C5	-13.68	1.31	1.39
36	1	637	C	N1-C6	-13.66	1.28	1.37
36	1	343	U	C2-N3	-13.65	1.28	1.37
80	6	122	U	N1-C6	13.63	1.50	1.38
80	6	469	C	C2-O2	13.61	1.36	1.24
85	5	653	A	N7-C5	-13.60	1.31	1.39
85	5	981	U	N1-C6	13.59	1.50	1.38
85	5	3239	G	N7-C5	13.59	1.47	1.39
80	6	1672	G	N7-C5	13.57	1.47	1.39
36	1	1143	A	N3-C4	-13.55	1.26	1.34
36	1	2397	A	N9-C4	-13.55	1.29	1.37
85	5	965	A	C5-C4	-13.54	1.29	1.38
80	6	1155	G	N7-C5	13.53	1.47	1.39
85	5	2707	C	C2-N3	13.50	1.46	1.35
36	1	962	A	N3-C4	-13.47	1.26	1.34
85	5	1674	G	P-OP2	13.47	1.71	1.49
80	6	1294	G	C8-N7	13.46	1.39	1.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2819	A	N9-C4	-13.46	1.29	1.37
36	1	2207	A	N9-C4	13.42	1.46	1.37
85	5	3008	A	N3-C4	-13.39	1.26	1.34
85	5	933	A	C5-C4	-13.39	1.29	1.38
85	5	647	A	N3-C4	-13.38	1.26	1.34
85	5	3003	G	N3-C4	-13.34	1.26	1.35
37	7	63	A	N9-C4	13.29	1.45	1.37
85	5	2626	A	N3-C4	-13.27	1.26	1.34
36	1	1886	A	N3-C4	-13.26	1.26	1.34
36	1	1891	A	N9-C4	-13.24	1.29	1.37
36	1	3103	A	N9-C4	-13.23	1.29	1.37
85	5	657	A	N9-C4	-13.21	1.29	1.37
85	5	2350	C	N1-C6	-13.17	1.29	1.37
85	5	3010	U	C2-N3	-13.16	1.28	1.37
36	1	1760	A	N9-C4	13.15	1.45	1.37
85	5	2707	C	N3-C4	13.14	1.43	1.33
80	6	1007	C	P-OP2	13.14	1.71	1.49
85	5	1332	A	N7-C5	-13.12	1.31	1.39
85	5	2851	A	P-OP1	13.12	1.71	1.49
80	6	1027	A	N9-C4	-13.11	1.29	1.37
36	1	972	A	N9-C4	-13.10	1.29	1.37
36	1	1143	A	N9-C4	-13.10	1.29	1.37
85	5	2288	G	N3-C4	-13.10	1.26	1.35
38	4	79	A	C5-C4	13.10	1.48	1.38
85	5	2724	U	C4-O4	13.09	1.34	1.23
36	1	823	C	N1-C6	-13.08	1.29	1.37
85	5	2970	C	N1-C6	-13.08	1.29	1.37
85	5	345	G	N7-C5	-13.04	1.31	1.39
80	6	129	U	C2-O2	13.01	1.34	1.22
85	5	2635	A	N3-C4	-12.99	1.27	1.34
37	7	60	G	P-OP1	12.97	1.71	1.49
36	1	992	A	N3-C4	-12.95	1.27	1.34
41	L4	94	CYS	CB-SG	-12.95	1.60	1.82
80	6	595	G	P-OP2	12.91	1.70	1.49
85	5	820	A	N3-C4	-12.90	1.27	1.34
80	6	871	G	C6-O6	12.89	1.35	1.24
85	5	1850	A	N7-C5	-12.83	1.31	1.39
85	5	1281	G	C8-N7	12.82	1.38	1.30
80	6	46	A	N3-C4	-12.81	1.27	1.34
85	5	1301	A	N9-C4	-12.80	1.30	1.37
80	6	923	A	N9-C4	-12.79	1.30	1.37
85	5	2320	A	N9-C4	-12.78	1.30	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	317	C	N1-C6	-12.75	1.29	1.37
85	5	1281	G	N7-C5	12.73	1.46	1.39
85	5	1919	G	N7-C5	-12.73	1.31	1.39
85	5	657	A	C5-C6	-12.71	1.29	1.41
36	1	516	A	N9-C4	-12.68	1.30	1.37
36	1	2360	C	N1-C6	-12.66	1.29	1.37
36	1	343	U	N1-C6	-12.66	1.26	1.38
85	5	1189	C	N1-C6	-12.62	1.29	1.37
80	6	1719	A	P-OP2	12.61	1.70	1.49
36	1	992	A	N9-C4	-12.58	1.30	1.37
36	1	2169	G	N7-C5	12.57	1.46	1.39
85	5	1524	A	N3-C4	-12.54	1.27	1.34
36	1	2896	A	N3-C4	-12.53	1.27	1.34
80	6	1293	U	C5-C6	12.52	1.45	1.34
36	1	363	G	C6-N1	-12.52	1.30	1.39
17	C5	52	LYS	C-N	12.51	1.58	1.34
80	6	1051	G	N7-C5	12.51	1.46	1.39
36	1	1371	G	N9-C8	-12.51	1.29	1.37
85	5	818	C	N1-C6	-12.49	1.29	1.37
85	5	40	A	N9-C4	-12.47	1.30	1.37
85	5	981	U	N1-C2	12.47	1.49	1.38
37	3	102	A	N9-C4	-12.47	1.30	1.37
85	5	1935	G	N9-C8	12.47	1.46	1.37
36	1	653	A	C5-C6	-12.46	1.29	1.41
85	5	3091	A	N3-C4	-12.45	1.27	1.34
36	1	2618	G	C6-N1	-12.43	1.30	1.39
85	5	2603	G	N9-C8	12.43	1.46	1.37
85	5	965	A	C5-C6	-12.43	1.29	1.41
85	5	436	A	N7-C5	12.42	1.46	1.39
85	5	1375	G	N7-C5	-12.40	1.31	1.39
36	1	921	A	C5-C4	-12.39	1.30	1.38
36	1	981	U	C2-N3	12.36	1.46	1.37
85	5	383	G	C6-N1	12.36	1.48	1.39
38	8	80	A	N9-C4	12.36	1.45	1.37
36	1	970	A	N9-C4	-12.34	1.30	1.37
85	5	1880	U	C2-N3	-12.34	1.29	1.37
85	5	2389	C	N1-C6	-12.33	1.29	1.37
36	1	806	A	N9-C4	-12.33	1.30	1.37
85	5	846	A	N3-C4	-12.33	1.27	1.34
38	8	23	U	C2-N3	-12.32	1.29	1.37
36	1	672	A	N9-C4	-12.30	1.30	1.37
37	7	73	C	N1-C6	12.29	1.44	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2368	A	N7-C5	-12.26	1.31	1.39
85	5	3312	U	C4-O4	12.26	1.33	1.23
85	5	2280	A	N3-C4	-12.25	1.27	1.34
85	5	2316	G	C6-N1	-12.25	1.30	1.39
85	5	1432	C	N3-C4	-12.23	1.25	1.33
85	5	3309	G	N7-C5	-12.20	1.31	1.39
36	1	1103	A	N3-C4	12.17	1.42	1.34
85	5	1429	G	C6-N1	-12.17	1.31	1.39
36	1	1459	C	N1-C6	-12.16	1.29	1.37
85	5	798	G	N7-C5	-12.16	1.31	1.39
85	5	2338	C	N1-C6	-12.12	1.29	1.37
85	5	3106	A	N9-C4	-12.12	1.30	1.37
85	5	1301	A	N3-C4	-12.11	1.27	1.34
85	5	870	G	N7-C5	12.11	1.46	1.39
85	5	295	A	N9-C4	-12.10	1.30	1.37
85	5	3327	G	C6-O6	12.08	1.35	1.24
85	5	1136	A	N9-C4	-12.07	1.30	1.37
85	5	1190	A	N9-C4	-12.07	1.30	1.37
36	1	38	U	N1-C2	-12.07	1.27	1.38
36	1	1375	G	N3-C4	-12.05	1.27	1.35
36	1	1297	C	N1-C6	-12.05	1.29	1.37
38	8	138	A	N9-C8	-12.04	1.28	1.37
36	1	695	C	N1-C6	-12.02	1.29	1.37
85	5	3308	C	N1-C6	-12.02	1.29	1.37
36	1	2607	G	N9-C8	-12.01	1.29	1.37
38	4	65	A	N9-C4	-12.01	1.30	1.37
80	6	1673	G	C5-C6	12.00	1.54	1.42
36	1	1154	A	C5-C4	-11.99	1.30	1.38
85	5	1350	A	C5-C6	11.98	1.51	1.41
85	5	1135	A	N3-C4	-11.97	1.27	1.34
85	5	1935	G	N7-C5	11.95	1.46	1.39
36	1	2321	A	N9-C4	-11.95	1.30	1.37
85	5	3093	C	N1-C6	-11.94	1.29	1.37
36	1	433	A	N3-C4	-11.93	1.27	1.34
85	5	421	G	C6-N1	-11.92	1.31	1.39
85	5	3336	A	N3-C4	-11.92	1.27	1.34
85	5	2188	A	N3-C4	-11.92	1.27	1.34
80	6	1729	C	N1-C6	-11.91	1.30	1.37
80	6	33	U	C4-O4	11.89	1.33	1.23
85	5	2964	G	N7-C5	11.86	1.46	1.39
85	5	980	A	C5-C6	11.83	1.51	1.41
85	5	1348	U	N1-C6	11.82	1.48	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	204	G	N7-C5	11.81	1.46	1.39
85	5	1149	G	C8-N7	11.81	1.38	1.30
85	5	3104	U	N1-C2	-11.81	1.27	1.38
85	5	1348	U	C2-N3	11.80	1.46	1.37
85	5	647	A	N9-C8	-11.79	1.28	1.37
85	5	980	A	N7-C5	11.79	1.46	1.39
36	1	651	G	C6-N1	-11.79	1.31	1.39
36	1	970	A	N3-C4	-11.78	1.27	1.34
36	1	363	G	N1-C2	-11.77	1.28	1.37
85	5	3184	A	N9-C4	-11.76	1.30	1.37
36	1	2409	G	N9-C8	-11.75	1.29	1.37
85	5	957	C	N1-C6	-11.75	1.30	1.37
36	1	2902	A	N9-C4	-11.74	1.30	1.37
36	1	201	A	N3-C4	-11.74	1.27	1.34
36	1	324	A	N9-C4	-11.73	1.30	1.37
85	5	2933	A	N3-C4	-11.72	1.27	1.34
38	4	79	A	C5-C6	11.71	1.51	1.41
85	5	1662	G	C6-O6	11.71	1.34	1.24
85	5	3139	A	N3-C4	-11.71	1.27	1.34
85	5	1103	A	N3-C4	11.71	1.41	1.34
85	5	189	G	C6-N1	-11.69	1.31	1.39
36	1	516	A	N3-C4	-11.69	1.27	1.34
38	4	106	C	N1-C6	-11.68	1.30	1.37
85	5	1661	G	C8-N7	11.68	1.38	1.30
85	5	2374	C	N1-C6	-11.68	1.30	1.37
85	5	1159	A	C5-C6	-11.68	1.30	1.41
85	5	2987	A	N3-C4	-11.68	1.27	1.34
85	5	2988	C	N1-C6	-11.67	1.30	1.37
36	1	885	U	N3-C4	-11.67	1.27	1.38
36	1	2321	A	N3-C4	-11.66	1.27	1.34
36	1	904	A	N9-C4	-11.66	1.30	1.37
36	1	986	U	C2-N3	-11.66	1.29	1.37
85	5	1330	A	N3-C4	-11.65	1.27	1.34
80	6	1727	G	C6-O6	11.64	1.34	1.24
85	5	1661	G	N9-C8	11.64	1.46	1.37
36	1	1093	A	C6-N1	11.62	1.43	1.35
85	5	1661	G	N7-C5	11.62	1.46	1.39
85	5	2248	C	N1-C6	-11.61	1.30	1.37
36	1	2621	G	N7-C5	-11.60	1.32	1.39
85	5	999	G	C5-C4	-11.60	1.30	1.38
36	1	343	U	N1-C2	-11.60	1.28	1.38
80	6	1800	A	N9-C4	11.60	1.44	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2233	A	C6-N1	-11.60	1.27	1.35
36	1	1351	U	C2-N3	11.60	1.45	1.37
36	1	2736	A	N9-C4	-11.60	1.30	1.37
80	6	652	G	C5-C4	11.58	1.46	1.38
85	5	189	G	N3-C4	-11.57	1.27	1.35
80	6	423	G	N9-C8	11.56	1.46	1.37
36	1	2748	A	N9-C4	-11.56	1.30	1.37
85	5	3139	A	N9-C4	-11.56	1.30	1.37
36	1	1178	G	C6-N1	-11.54	1.31	1.39
36	1	2605	G	N3-C4	-11.53	1.27	1.35
85	5	1476	G	N9-C8	-11.53	1.29	1.37
85	5	3039	C	N1-C6	-11.53	1.30	1.37
36	1	637	C	N3-C4	-11.52	1.25	1.33
36	1	967	A	N3-C4	-11.52	1.27	1.34
36	1	2169	G	C5-C6	11.51	1.53	1.42
36	1	895	A	N9-C4	-11.51	1.30	1.37
85	5	2804	A	N3-C4	-11.51	1.27	1.34
85	5	958	C	N1-C6	-11.49	1.30	1.37
85	5	2188	A	N9-C4	-11.48	1.30	1.37
37	7	80	G	C6-N1	-11.47	1.31	1.39
1	2	555	A	N9-C4	11.47	1.44	1.37
85	5	2663	G	C6-O6	11.47	1.34	1.24
38	4	79	A	N7-C5	11.46	1.46	1.39
85	5	1451	C	N1-C6	-11.46	1.30	1.37
85	5	2304	C	N1-C6	-11.45	1.30	1.37
36	1	1154	A	N3-C4	-11.45	1.27	1.34
36	1	1133	A	N9-C4	-11.45	1.30	1.37
36	1	1348	U	C2-O2	11.44	1.32	1.22
36	1	19	U	N1-C2	-11.43	1.28	1.38
36	1	1843	C	N1-C6	-11.43	1.30	1.37
85	5	2656	A	N3-C4	-11.43	1.27	1.34
36	1	2381	G	N7-C5	-11.42	1.32	1.39
38	4	8	C	N1-C6	-11.42	1.30	1.37
85	5	2871	G	N9-C8	11.42	1.45	1.37
36	1	3349	C	N1-C6	11.42	1.44	1.37
85	5	981	U	N3-C4	11.41	1.48	1.38
85	5	2359	C	N1-C6	-11.40	1.30	1.37
85	5	2741	C	N1-C6	-11.40	1.30	1.37
85	5	3157	U	N1-C2	11.39	1.48	1.38
36	1	2637	A	N3-C4	-11.38	1.28	1.34
85	5	970	A	N9-C4	-11.38	1.31	1.37
38	8	80	A	C5-C4	11.38	1.46	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2431	C	N1-C6	-11.37	1.30	1.37
85	5	3015	G	N9-C8	-11.37	1.29	1.37
36	1	499	G	N7-C5	-11.37	1.32	1.39
85	5	870	G	C8-N7	11.37	1.37	1.30
85	5	2819	A	N9-C8	-11.36	1.28	1.37
38	4	53	A	N3-C4	-11.36	1.28	1.34
80	6	204	G	C8-N7	11.35	1.37	1.30
36	1	1100	U	N1-C2	-11.34	1.28	1.38
37	7	10	C	N1-C6	-11.34	1.30	1.37
36	1	343	U	C2-O2	-11.33	1.12	1.22
36	1	71	A	N3-C4	-11.32	1.28	1.34
85	5	1881	A	N3-C4	-11.32	1.28	1.34
36	1	88	A	N3-C4	-11.31	1.28	1.34
85	5	933	A	N7-C5	-11.31	1.32	1.39
85	5	367	A	N9-C4	-11.30	1.31	1.37
36	1	100	A	N9-C4	-11.29	1.31	1.37
85	5	408	A	N3-C4	-11.29	1.28	1.34
36	1	2983	C	N3-C4	-11.28	1.26	1.33
36	1	2971	A	N9-C4	11.28	1.44	1.37
36	1	1103	A	N7-C5	11.27	1.46	1.39
85	5	2943	G	N3-C4	-11.26	1.27	1.35
36	1	2326	A	N9-C4	-11.26	1.31	1.37
36	1	2758	A	N7-C5	11.24	1.46	1.39
40	L3	251	CYS	CB-SG	-11.24	1.63	1.82
36	1	2736	A	N3-C4	-11.23	1.28	1.34
36	1	967	A	C6-N1	-11.23	1.27	1.35
85	5	756	U	N1-C2	-11.23	1.28	1.38
36	1	2943	G	N7-C5	-11.23	1.32	1.39
85	5	2417	U	C4-O4	11.22	1.32	1.23
85	5	2656	A	N7-C5	-11.22	1.32	1.39
85	5	1114	U	N1-C2	-11.22	1.28	1.38
80	6	1728	A	N9-C4	-11.21	1.31	1.37
36	1	522	A	N9-C4	-11.20	1.31	1.37
36	1	3011	A	N9-C8	-11.19	1.28	1.37
36	1	921	A	N3-C4	-11.19	1.28	1.34
36	1	2128	C	N1-C6	-11.19	1.30	1.37
36	1	2726	C	N3-C4	-11.19	1.26	1.33
36	1	2147	A	N9-C4	-11.17	1.31	1.37
37	7	101	G	N7-C5	-11.17	1.32	1.39
36	1	356	C	N1-C6	-11.17	1.30	1.37
36	1	2636	A	C6-N1	-11.16	1.27	1.35
36	1	3130	A	N3-C4	-11.15	1.28	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	98	G	N3-C4	-11.15	1.27	1.35
36	1	338	A	N7-C5	-11.15	1.32	1.39
1	2	776	A	N9-C4	11.14	1.44	1.37
85	5	3272	C	N1-C6	-11.13	1.30	1.37
36	1	1426	C	N3-C4	-11.13	1.26	1.33
80	6	1353	U	N1-C6	11.13	1.48	1.38
36	1	1371	G	N9-C4	-11.13	1.29	1.38
36	1	2607	G	N9-C4	-11.12	1.29	1.38
36	1	2341	A	N9-C4	-11.12	1.31	1.37
85	5	953	G	C6-N1	-11.12	1.31	1.39
80	6	1092	A	P-OP1	11.12	1.67	1.49
36	1	799	G	N3-C4	-11.10	1.27	1.35
36	1	1655	G	C5-C4	-11.10	1.30	1.38
85	5	948	C	N1-C6	-11.10	1.30	1.37
85	5	2215	A	N9-C4	-11.10	1.31	1.37
36	1	2754	G	C6-N1	-11.10	1.31	1.39
85	5	1137	C	N1-C6	-11.10	1.30	1.37
85	5	367	A	N7-C5	-11.09	1.32	1.39
85	5	1475	A	N9-C4	-11.09	1.31	1.37
37	7	101	G	N9-C8	-11.09	1.30	1.37
85	5	523	A	N9-C4	-11.09	1.31	1.37
1	2	312	A	N3-C4	-11.08	1.28	1.34
85	5	3206	C	N3-C4	-11.07	1.26	1.33
85	5	31	C	N3-C4	-11.07	1.26	1.33
85	5	1314	C	N1-C6	-11.06	1.30	1.37
36	1	924	G	N7-C5	-11.06	1.32	1.39
36	1	1164	G	N7-C5	-11.06	1.32	1.39
85	5	1370	G	C6-N1	-11.05	1.31	1.39
36	1	882	A	N9-C4	-11.05	1.31	1.37
85	5	2608	G	N9-C8	-11.05	1.30	1.37
36	1	942	U	C4-O4	11.04	1.32	1.23
85	5	3153	U	N1-C2	11.04	1.48	1.38
36	1	865	U	C2-N3	-11.02	1.30	1.37
85	5	914	A	N7-C5	-11.01	1.32	1.39
36	1	59	G	N7-C5	-11.01	1.32	1.39
36	1	1143	A	N9-C8	-11.01	1.28	1.37
85	5	2354	C	N1-C2	-11.01	1.29	1.40
37	7	79	A	P-OP2	11.01	1.67	1.49
80	6	703	G	C6-O6	11.00	1.34	1.24
80	6	678	A	N3-C4	11.00	1.41	1.34
36	1	1372	C	N3-C4	-10.99	1.26	1.33
36	1	41	G	N7-C5	-10.98	1.32	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	957	C	N1-C6	-10.98	1.30	1.37
85	5	3006	A	N3-C4	-10.98	1.28	1.34
80	6	46	A	N9-C4	-10.98	1.31	1.37
85	5	2132	C	N1-C6	-10.97	1.30	1.37
38	4	79	A	N3-C4	10.96	1.41	1.34
1	2	28	A	N9-C4	-10.96	1.31	1.37
36	1	1165	A	N3-C4	-10.95	1.28	1.34
85	5	2417	U	N3-C4	10.96	1.48	1.38
36	1	955	U	N1-C6	-10.95	1.28	1.38
36	1	3275	U	N1-C6	10.95	1.47	1.38
85	5	2197	C	N1-C6	-10.94	1.30	1.37
37	3	81	U	C2-N3	-10.94	1.30	1.37
85	5	3396	U	P-OP2	10.93	1.67	1.49
85	5	1303	A	C5-C6	-10.92	1.31	1.41
36	1	576	C	N1-C6	-10.92	1.30	1.37
85	5	2819	A	N3-C4	-10.91	1.28	1.34
36	1	343	U	N3-C4	-10.91	1.28	1.38
36	1	2627	C	N1-C6	-10.91	1.30	1.37
85	5	947	G	N9-C8	-10.91	1.30	1.37
37	7	110	G	N9-C4	-10.91	1.29	1.38
85	5	73	C	N1-C6	-10.90	1.30	1.37
85	5	1184	A	N9-C4	-10.90	1.31	1.37
36	1	1308	A	N3-C4	-10.90	1.28	1.34
38	4	33	A	N3-C4	-10.90	1.28	1.34
85	5	2799	A	N3-C4	-10.89	1.28	1.34
36	1	1117	G	C5-C4	-10.89	1.30	1.38
85	5	1332	A	N9-C4	-10.89	1.31	1.37
85	5	1405	U	C2-N3	-10.88	1.30	1.37
36	1	2799	A	N3-C4	-10.88	1.28	1.34
36	1	3275	U	C2-N3	10.88	1.45	1.37
85	5	2256	A	N3-C4	10.88	1.41	1.34
36	1	1299	U	N1-C2	-10.87	1.28	1.38
80	6	1109	G	N9-C8	10.87	1.45	1.37
85	5	417	A	N9-C4	-10.87	1.31	1.37
85	5	1140	G	N9-C4	-10.86	1.29	1.38
36	1	189	G	N3-C4	-10.86	1.27	1.35
85	5	836	A	N9-C4	-10.86	1.31	1.37
36	1	338	A	N9-C4	-10.86	1.31	1.37
36	1	1308	A	N7-C5	-10.86	1.32	1.39
80	6	110	U	C4-O4	10.85	1.32	1.23
85	5	947	G	N3-C4	-10.83	1.27	1.35
85	5	926	A	N9-C4	-10.83	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2933	A	C6-N1	-10.83	1.27	1.35
36	1	653	A	N9-C4	-10.82	1.31	1.37
36	1	780	A	N3-C4	-10.82	1.28	1.34
85	5	1221	A	P-OP2	10.82	1.67	1.49
80	6	1681	A	N9-C4	-10.82	1.31	1.37
85	5	1887	A	N7-C5	-10.82	1.32	1.39
85	5	2639	G	N7-C5	-10.82	1.32	1.39
85	5	2341	A	N9-C4	-10.82	1.31	1.37
85	5	1146	C	N1-C6	-10.81	1.30	1.37
85	5	1205	A	C5-C4	-10.81	1.31	1.38
85	5	3091	A	C6-N1	-10.80	1.27	1.35
36	1	640	U	N1-C6	-10.79	1.28	1.38
36	1	18	G	N7-C5	-10.79	1.32	1.39
36	1	2296	A	N9-C4	-10.79	1.31	1.37
85	5	933	A	N9-C8	-10.79	1.29	1.37
80	6	1659	A	N3-C4	-10.78	1.28	1.34
36	1	958	C	N1-C6	-10.77	1.30	1.37
85	5	2603	G	C5-C4	10.77	1.45	1.38
85	5	2296	A	N9-C4	-10.77	1.31	1.37
36	1	100	A	C6-N1	-10.77	1.28	1.35
85	5	826	G	N7-C5	-10.77	1.32	1.39
36	1	1150	A	C6-N1	-10.76	1.28	1.35
85	5	2282	U	C2-N3	-10.76	1.30	1.37
85	5	2405	C	N3-C4	-10.75	1.26	1.33
80	6	25	C	C2-O2	10.74	1.34	1.24
36	1	588	G	C6-N1	-10.74	1.32	1.39
36	1	1150	A	N3-C4	-10.74	1.28	1.34
85	5	2754	G	C6-N1	-10.73	1.32	1.39
85	5	2643	A	N9-C4	-10.73	1.31	1.37
80	6	1670	G	N3-C4	-10.72	1.27	1.35
37	7	102	A	N9-C4	-10.72	1.31	1.37
36	1	1847	A	C6-N1	-10.72	1.28	1.35
85	5	2877	G	N9-C8	10.72	1.45	1.37
36	1	2387	A	N9-C4	-10.71	1.31	1.37
85	5	1850	A	N3-C4	-10.70	1.28	1.34
85	5	965	A	N3-C4	-10.69	1.28	1.34
38	8	138	A	N7-C5	-10.69	1.32	1.39
36	1	2601	A	C5-C4	-10.69	1.31	1.38
36	1	933	A	N7-C5	-10.68	1.32	1.39
36	1	796	U	C2-N3	-10.68	1.30	1.37
36	1	1397	C	N1-C6	-10.68	1.30	1.37
85	5	2375	G	C5-C4	-10.67	1.30	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2702	A	N7-C5	-10.67	1.32	1.39
37	7	57	G	N7-C5	-10.66	1.32	1.39
1	2	1638	A	N3-C4	-10.66	1.28	1.34
85	5	2316	G	N3-C4	-10.66	1.27	1.35
85	5	3052	G	C6-N1	-10.66	1.32	1.39
85	5	576	C	N1-C6	-10.66	1.30	1.37
85	5	2421	U	C2-O2	-10.66	1.12	1.22
36	1	1431	G	C6-N1	-10.64	1.32	1.39
85	5	1924	U	C2-N3	-10.64	1.30	1.37
85	5	1350	A	C5-C4	10.64	1.46	1.38
85	5	1140	G	C5-C4	-10.64	1.30	1.38
85	5	94	G	N9-C4	-10.63	1.29	1.38
85	5	519	A	N7-C5	-10.63	1.32	1.39
38	8	79	A	C5-C4	10.63	1.46	1.38
85	5	2867	C	N1-C6	-10.62	1.30	1.37
80	6	1734	U	N1-C2	-10.61	1.28	1.38
37	7	63	A	C5-C4	10.61	1.46	1.38
85	5	919	U	C2-N3	-10.61	1.30	1.37
85	5	1170	A	N3-C4	-10.61	1.28	1.34
85	5	1872	C	N3-C4	-10.61	1.26	1.33
85	5	306	A	N9-C4	-10.60	1.31	1.37
85	5	953	G	C5-C4	-10.60	1.30	1.38
85	5	844	G	N3-C4	-10.60	1.28	1.35
85	5	3325	G	N9-C4	-10.60	1.29	1.38
85	5	1613	A	N9-C4	-10.60	1.31	1.37
85	5	2851	A	C6-N1	-10.60	1.28	1.35
36	1	1094	U	C2-N3	10.59	1.45	1.37
36	1	1589	A	N3-C4	-10.58	1.28	1.34
85	5	1192	C	N1-C2	10.57	1.50	1.40
85	5	1907	C	N1-C6	-10.57	1.30	1.37
85	5	880	G	N9-C8	-10.56	1.30	1.37
85	5	582	G	N3-C4	-10.55	1.28	1.35
36	1	1578	C	C2-N3	10.54	1.44	1.35
36	1	345	G	N9-C8	-10.54	1.30	1.37
36	1	2632	G	C5-C4	-10.54	1.30	1.38
36	1	1467	A	C5-C4	-10.53	1.31	1.38
36	1	2215	A	N9-C4	-10.53	1.31	1.37
85	5	61	A	N3-C4	-10.53	1.28	1.34
85	5	1330	A	C5-C4	-10.52	1.31	1.38
85	5	1350	A	N7-C5	10.52	1.45	1.39
36	1	2647	A	N7-C5	-10.51	1.32	1.39
80	6	742	U	C2-N3	10.51	1.45	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1423	C	N1-C6	-10.50	1.30	1.37
85	5	3382	U	N1-C2	10.50	1.48	1.38
36	1	547	G	C6-N1	10.48	1.46	1.39
38	4	47	C	N3-C4	-10.48	1.26	1.33
36	1	780	A	C6-N1	-10.47	1.28	1.35
36	1	912	G	N9-C8	-10.47	1.30	1.37
85	5	2313	A	N3-C4	-10.47	1.28	1.34
36	1	2797	C	N1-C6	-10.47	1.30	1.37
85	5	2300	G	C6-N1	-10.46	1.32	1.39
85	5	1055	A	N3-C4	-10.45	1.28	1.34
38	8	114	G	C6-N1	10.45	1.46	1.39
85	5	1133	A	C6-N6	10.45	1.42	1.33
85	5	2702	A	N3-C4	-10.45	1.28	1.34
36	1	651	G	N9-C8	-10.44	1.30	1.37
85	5	1391	C	N1-C6	-10.44	1.30	1.37
85	5	2133	U	N1-C2	-10.44	1.29	1.38
85	5	2099	A	N9-C4	10.44	1.44	1.37
85	5	2136	C	P-OP1	10.44	1.66	1.49
85	5	1909	A	C5-C6	-10.43	1.31	1.41
38	4	137	C	N1-C6	-10.43	1.30	1.37
36	1	2619	G	N1-C2	-10.43	1.29	1.37
85	5	2224	A	N9-C4	-10.43	1.31	1.37
85	5	2399	A	N9-C4	-10.43	1.31	1.37
36	1	2286	U	C2-N3	-10.42	1.30	1.37
85	5	1662	G	N9-C8	-10.42	1.30	1.37
36	1	100	A	N3-C4	-10.42	1.28	1.34
36	1	646	A	C6-N1	-10.42	1.28	1.35
36	1	2222	A	N7-C5	-10.41	1.33	1.39
85	5	397	A	C5-C4	-10.41	1.31	1.38
85	5	2296	A	C5-C4	-10.41	1.31	1.38
37	7	73	C	N1-C2	10.41	1.50	1.40
80	6	1136	U	C2-N3	-10.41	1.30	1.37
85	5	2958	A	N7-C5	-10.40	1.33	1.39
85	5	1155	C	C4-C5	-10.38	1.34	1.43
85	5	2288	G	C6-N1	-10.38	1.32	1.39
85	5	3234	A	N7-C5	10.38	1.45	1.39
85	5	1397	C	N1-C6	-10.38	1.30	1.37
85	5	1889	G	N7-C5	-10.38	1.33	1.39
85	5	345	G	N9-C8	-10.38	1.30	1.37
36	1	402	A	N3-C4	-10.37	1.28	1.34
85	5	3003	G	C6-N1	-10.37	1.32	1.39
85	5	965	A	C6-N1	-10.36	1.28	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	979	U	P-OP1	10.36	1.66	1.49
37	7	85	G	C5-C6	-10.36	1.31	1.42
85	5	1867	A	N7-C5	-10.36	1.33	1.39
80	6	436	A	N3-C4	-10.35	1.28	1.34
85	5	965	A	N9-C4	-10.35	1.31	1.37
36	1	2377	G	N7-C5	-10.35	1.33	1.39
85	5	342	A	N3-C4	-10.34	1.28	1.34
85	5	348	A	N9-C4	-10.34	1.31	1.37
85	5	2395	G	N3-C4	-10.33	1.28	1.35
38	4	94	C	N1-C6	-10.33	1.30	1.37
36	1	2667	A	N9-C4	-10.32	1.31	1.37
85	5	1343	A	N9-C4	-10.32	1.31	1.37
85	5	3305	A	N9-C4	-10.32	1.31	1.37
85	5	649	A	C5-C6	-10.32	1.31	1.41
85	5	2405	C	C2-N3	-10.31	1.27	1.35
85	5	2821	C	N1-C6	-10.31	1.30	1.37
85	5	2941	A	N3-C4	-10.31	1.28	1.34
36	1	948	C	N1-C2	-10.30	1.29	1.40
36	1	2746	A	N3-C4	-10.30	1.28	1.34
85	5	918	C	N3-C4	10.30	1.41	1.33
85	5	2982	A	C5-C4	-10.30	1.31	1.38
85	5	31	C	C2-N3	-10.30	1.27	1.35
36	1	87	U	N1-C2	-10.29	1.29	1.38
36	1	2824	G	N3-C4	-10.29	1.28	1.35
85	5	1405	U	N3-C4	-10.29	1.29	1.38
85	5	2368	A	N3-C4	-10.29	1.28	1.34
36	1	522	A	N7-C5	-10.28	1.33	1.39
38	4	52	A	C5-C4	-10.28	1.31	1.38
85	5	3299	A	N3-C4	-10.28	1.28	1.34
36	1	780	A	N9-C4	-10.28	1.31	1.37
36	1	2232	A	N9-C4	-10.27	1.31	1.37
36	1	652	G	C5-C4	-10.27	1.31	1.38
36	1	585	A	C5-C6	-10.26	1.31	1.41
36	1	786	A	C6-N1	-10.26	1.28	1.35
85	5	639	G	N9-C4	-10.26	1.29	1.38
36	1	267	G	C6-N1	10.26	1.46	1.39
85	5	2768	U	P-OP2	10.25	1.66	1.49
36	1	57	A	N9-C4	-10.25	1.31	1.37
80	6	94	U	C2-N3	-10.25	1.30	1.37
85	5	2628	A	C6-N1	-10.25	1.28	1.35
36	1	70	A	N9-C4	-10.25	1.31	1.37
36	1	1901	A	N3-C4	-10.25	1.28	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	941	G	C6-N1	-10.24	1.32	1.39
85	5	1590	G	N7-C5	-10.24	1.33	1.39
85	5	367	A	C5-C4	-10.23	1.31	1.38
85	5	2202	C	N1-C6	-10.23	1.31	1.37
36	1	882	A	N7-C5	-10.23	1.33	1.39
85	5	2931	C	N1-C6	-10.23	1.31	1.37
85	5	2381	G	N7-C5	-10.22	1.33	1.39
36	1	1796	G	N7-C5	-10.22	1.33	1.39
80	6	1744	A	N9-C4	-10.22	1.31	1.37
37	7	117	A	N3-C4	-10.22	1.28	1.34
85	5	1432	C	C2-N3	-10.22	1.27	1.35
80	6	755	A	N9-C4	-10.20	1.31	1.37
85	5	2885	C	N1-C6	-10.20	1.31	1.37
85	5	2365	C	N1-C6	-10.19	1.31	1.37
36	1	1850	A	N9-C4	-10.19	1.31	1.37
36	1	27	C	N3-C4	-10.19	1.26	1.33
85	5	963	G	N1-C2	-10.19	1.29	1.37
36	1	828	A	N9-C4	-10.18	1.31	1.37
36	1	2502	A	N9-C4	10.18	1.44	1.37
85	5	397	A	N3-C4	-10.18	1.28	1.34
36	1	992	A	C6-N1	-10.18	1.28	1.35
80	6	1293	U	N1-C6	10.18	1.47	1.38
85	5	2762	A	N3-C4	-10.18	1.28	1.34
85	5	2312	A	N3-C4	-10.17	1.28	1.34
85	5	407	A	N7-C5	-10.17	1.33	1.39
85	5	2401	A	C6-N1	10.17	1.42	1.35
80	6	46	A	C6-N1	-10.17	1.28	1.35
85	5	1429	G	N1-C2	-10.17	1.29	1.37
85	5	3067	C	N1-C6	-10.16	1.31	1.37
85	5	1884	A	N3-C4	-10.16	1.28	1.34
85	5	2890	A	N3-C4	-10.15	1.28	1.34
36	1	812	G	N3-C4	-10.15	1.28	1.35
85	5	647	A	C5-C4	-10.15	1.31	1.38
36	1	676	G	N7-C5	-10.15	1.33	1.39
37	7	84	A	N3-C4	-10.15	1.28	1.34
85	5	1434	G	N3-C4	-10.14	1.28	1.35
80	6	441	A	N3-C4	-10.14	1.28	1.34
85	5	94	G	C5-C4	-10.14	1.31	1.38
85	5	1294	A	N3-C4	-10.14	1.28	1.34
85	5	330	G	N7-C5	10.13	1.45	1.39
36	1	703	G	C6-N1	-10.13	1.32	1.39
85	5	962	A	C6-N1	-10.13	1.28	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1295	G	N3-C4	-10.13	1.28	1.35
85	5	2116	G	N7-C5	-10.13	1.33	1.39
85	5	2627	C	N1-C6	-10.13	1.31	1.37
85	5	1409	G	P-OP1	10.12	1.66	1.49
85	5	3127	A	P-OP2	10.12	1.66	1.49
36	1	1102	A	N9-C4	-10.12	1.31	1.37
36	1	1153	A	N7-C5	-10.12	1.33	1.39
85	5	647	A	N7-C5	-10.11	1.33	1.39
85	5	2342	U	N1-C6	-10.11	1.28	1.38
36	1	796	U	N3-C4	-10.11	1.29	1.38
85	5	636	C	N1-C6	-10.11	1.31	1.37
1	2	312	A	N7-C5	-10.10	1.33	1.39
36	1	3103	A	N3-C4	-10.10	1.28	1.34
36	1	282	G	C6-N1	-10.10	1.32	1.39
38	4	65	A	N3-C4	-10.10	1.28	1.34
36	1	585	A	N7-C5	-10.09	1.33	1.39
85	5	2335	G	N1-C2	-10.09	1.29	1.37
85	5	3209	A	C5-C6	10.09	1.50	1.41
36	1	951	A	N9-C4	-10.09	1.31	1.37
36	1	3046	A	N7-C5	-10.09	1.33	1.39
85	5	941	G	C5-C4	-10.09	1.31	1.38
85	5	1133	A	N3-C4	-10.09	1.28	1.34
85	5	2738	A	N3-C4	-10.09	1.28	1.34
36	1	970	A	N7-C5	-10.09	1.33	1.39
85	5	2187	G	N7-C5	-10.09	1.33	1.39
36	1	947	G	N3-C4	-10.07	1.28	1.35
36	1	1316	C	N1-C6	-10.06	1.31	1.37
85	5	938	C	N1-C6	-10.06	1.31	1.37
36	1	400	G	N7-C5	-10.05	1.33	1.39
36	1	1432	C	N1-C6	-10.05	1.31	1.37
85	5	658	G	N3-C4	-10.06	1.28	1.35
85	5	2943	G	C5-C6	-10.06	1.32	1.42
80	6	754	A	N9-C4	10.05	1.43	1.37
85	5	795	G	N7-C5	-10.05	1.33	1.39
85	5	2821	C	N1-C2	-10.05	1.30	1.40
36	1	2376	G	C6-N1	-10.05	1.32	1.39
85	5	1145	G	C5-C4	-10.04	1.31	1.38
85	5	962	A	N3-C4	-10.04	1.28	1.34
36	1	2375	G	C5-C4	-10.04	1.31	1.38
51	M5	152	CYS	CB-SG	-10.03	1.65	1.82
36	1	641	C	N1-C6	-10.03	1.31	1.37
36	1	2345	A	N3-C4	-10.03	1.28	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1140	G	N9-C8	-10.03	1.30	1.37
85	5	837	A	C5-C4	-10.02	1.31	1.38
80	6	1143	A	C8-N7	10.02	1.38	1.31
85	5	1792	C	N1-C6	-10.02	1.31	1.37
85	5	1141	C	N1-C6	-10.02	1.31	1.37
80	6	1030	A	N3-C4	-10.01	1.28	1.34
80	6	678	A	C5-C4	10.01	1.45	1.38
36	1	400	G	C5-C6	-10.00	1.32	1.42
85	5	3273	A	N3-C4	-10.00	1.28	1.34
80	6	423	G	N7-C5	9.99	1.45	1.39
85	5	3141	A	N7-C5	-9.99	1.33	1.39
36	1	583	G	N3-C4	-9.99	1.28	1.35
36	1	2873	U	N3-C4	-9.99	1.29	1.38
36	1	818	C	N1-C6	-9.99	1.31	1.37
85	5	1357	G	C6-N1	-9.98	1.32	1.39
85	5	2637	A	N3-C4	-9.98	1.28	1.34
36	1	2359	C	N1-C6	-9.98	1.31	1.37
36	1	1121	U	C2-N3	-9.98	1.30	1.37
36	1	921	A	C6-N1	-9.98	1.28	1.35
80	6	264	G	N7-C5	9.97	1.45	1.39
36	1	1137	C	N1-C6	-9.97	1.31	1.37
85	5	652	G	N3-C4	-9.97	1.28	1.35
80	6	1649	G	C8-N7	9.96	1.36	1.30
36	1	2139	A	C6-N1	-9.96	1.28	1.35
85	5	1135	A	C6-N1	-9.96	1.28	1.35
36	1	100	A	N7-C5	-9.95	1.33	1.39
80	6	1765	A	N3-C4	-9.96	1.28	1.34
85	5	3375	A	N7-C5	-9.95	1.33	1.39
36	1	949	C	N1-C6	-9.95	1.31	1.37
85	5	1309	U	N1-C2	-9.95	1.29	1.38
36	1	1517	G	N3-C4	-9.94	1.28	1.35
85	5	2389	C	N3-C4	-9.94	1.26	1.33
85	5	726	G	N7-C5	-9.94	1.33	1.39
85	5	1661	G	C5-C4	9.93	1.45	1.38
36	1	678	G	N7-C5	-9.93	1.33	1.39
36	1	2333	C	N1-C6	-9.92	1.31	1.37
85	5	653	A	N3-C4	-9.92	1.28	1.34
85	5	2977	G	C5-C4	-9.92	1.31	1.38
85	5	2964	G	C6-N1	-9.92	1.32	1.39
85	5	407	A	N3-C4	-9.91	1.28	1.34
36	1	199	A	N9-C4	9.91	1.43	1.37
36	1	2427	U	C2-N3	-9.91	1.30	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	420	G	N9-C8	-9.91	1.30	1.37
85	5	706	A	N9-C4	-9.91	1.31	1.37
79	q3	55	TRP	CB-CG	-9.91	1.32	1.50
85	5	2920	U	N1-C2	-9.90	1.29	1.38
36	1	3142	A	N3-C4	-9.90	1.28	1.34
36	1	3155	U	C2-N3	9.90	1.44	1.37
85	5	2851	A	N3-C4	-9.90	1.28	1.34
80	6	420	A	N3-C4	-9.89	1.28	1.34
85	5	326	U	C2-N3	9.89	1.44	1.37
85	5	2642	A	N9-C4	-9.89	1.31	1.37
36	1	984	G	C5-C4	-9.89	1.31	1.38
85	5	2302	G	C6-N1	-9.88	1.32	1.39
85	5	921	A	N3-C4	-9.88	1.28	1.34
36	1	1375	G	N7-C5	-9.87	1.33	1.39
36	1	2646	C	N1-C6	-9.87	1.31	1.37
85	5	2864	A	C5-C4	-9.87	1.31	1.38
36	1	808	A	C5-C4	-9.87	1.31	1.38
85	5	99	A	N9-C4	-9.87	1.31	1.37
85	5	947	G	N9-C4	-9.87	1.30	1.38
36	1	1156	C	N1-C6	-9.86	1.31	1.37
85	5	970	A	C5-C4	-9.86	1.31	1.38
85	5	2644	C	N3-C4	-9.86	1.27	1.33
36	1	3114	A	C5-C4	-9.84	1.31	1.38
85	5	642	U	C2-N3	-9.84	1.30	1.37
85	5	229	G	N3-C4	-9.84	1.28	1.35
85	5	282	G	C6-N1	-9.84	1.32	1.39
85	5	3	U	N1-C2	9.84	1.47	1.38
36	1	2785	A	N3-C4	-9.83	1.28	1.34
36	1	639	G	N9-C8	-9.83	1.30	1.37
36	1	1468	A	N9-C4	-9.83	1.31	1.37
36	1	2149	A	N9-C4	-9.83	1.31	1.37
36	1	1589	A	N9-C4	-9.83	1.31	1.37
36	1	2976	A	N3-C4	-9.83	1.28	1.34
36	1	1298	C	N1-C6	-9.82	1.31	1.37
36	1	2095	G	N7-C5	9.82	1.45	1.39
85	5	2379	U	N1-C2	-9.82	1.29	1.38
36	1	3277	U	N1-C2	9.81	1.47	1.38
36	1	796	U	C2-O2	-9.81	1.13	1.22
37	7	100	C	N1-C6	-9.81	1.31	1.37
37	3	101	G	N3-C4	-9.80	1.28	1.35
85	5	37	U	N1-C6	-9.80	1.29	1.38
36	1	252	U	N1-C2	9.80	1.47	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1891	A	N3-C4	-9.80	1.28	1.34
85	5	351	A	N3-C4	-9.80	1.28	1.34
85	5	2400	G	N7-C5	-9.80	1.33	1.39
80	6	264	G	N9-C8	9.79	1.44	1.37
85	5	509	U	C4-O4	9.79	1.31	1.23
85	5	2145	A	N9-C4	-9.79	1.31	1.37
85	5	925	A	N9-C4	-9.79	1.31	1.37
80	6	94	U	N1-C2	-9.78	1.29	1.38
36	1	1161	G	N7-C5	-9.78	1.33	1.39
85	5	519	A	C5-C6	-9.78	1.32	1.41
36	1	1154	A	C6-N1	-9.78	1.28	1.35
80	6	754	A	N3-C4	9.78	1.40	1.34
85	5	1362	G	C6-N1	-9.78	1.32	1.39
85	5	1444	G	N7-C5	-9.77	1.33	1.39
85	5	2799	A	C6-N1	-9.77	1.28	1.35
36	1	806	A	C5-C6	-9.77	1.32	1.41
36	1	787	G	N7-C5	-9.77	1.33	1.39
38	4	54	A	N7-C5	-9.77	1.33	1.39
36	1	682	U	N1-C2	-9.76	1.29	1.38
36	1	1093	A	N3-C4	9.76	1.40	1.34
36	1	2633	U	N1-C6	-9.76	1.29	1.38
85	5	1140	G	C8-N7	-9.76	1.25	1.30
36	1	1308	A	C6-N1	-9.76	1.28	1.35
80	6	93	A	N3-C4	-9.75	1.28	1.34
85	5	408	A	C6-N1	-9.75	1.28	1.35
85	5	1880	U	C2-O2	-9.75	1.13	1.22
85	5	2353	G	N7-C5	-9.75	1.33	1.39
85	5	61	A	N7-C5	-9.74	1.33	1.39
85	5	914	A	N9-C4	-9.74	1.32	1.37
36	1	2956	A	N7-C5	-9.74	1.33	1.39
85	5	1444	G	C6-O6	9.74	1.32	1.24
85	5	82	C	N1-C6	-9.73	1.31	1.37
85	5	826	G	C5-C6	-9.73	1.32	1.42
85	5	1291	A	N9-C4	-9.73	1.32	1.37
85	5	1377	G	C6-N1	-9.73	1.32	1.39
36	1	1181	U	C2-N3	-9.72	1.30	1.37
85	5	946	U	N1-C6	-9.72	1.29	1.38
38	8	14	C	N1-C6	-9.72	1.31	1.37
36	1	3178	A	N7-C5	-9.72	1.33	1.39
85	5	3388	C	N3-C4	-9.71	1.27	1.33
36	1	2985	C	N1-C6	-9.71	1.31	1.37
36	1	2992	U	N1-C2	-9.71	1.29	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1781	A	N7-C5	-9.70	1.33	1.39
80	6	46	A	N7-C5	-9.70	1.33	1.39
36	1	666	A	N9-C8	-9.70	1.29	1.37
36	1	915	A	N3-C4	-9.70	1.29	1.34
36	1	1375	G	N9-C8	-9.69	1.31	1.37
85	5	2643	A	C5-C6	-9.69	1.32	1.41
80	6	1131	A	N7-C5	-9.69	1.33	1.39
36	1	751	A	N9-C4	-9.69	1.32	1.37
36	1	1373	A	N3-C4	-9.68	1.29	1.34
85	5	656	A	N9-C4	-9.68	1.32	1.37
36	1	2185	G	N3-C4	-9.67	1.28	1.35
85	5	607	A	N3-C4	-9.67	1.29	1.34
85	5	3312	U	C2-N3	9.67	1.44	1.37
37	3	82	G	N3-C4	-9.67	1.28	1.35
85	5	872	U	C2-N3	-9.67	1.30	1.37
36	1	2910	A	N9-C4	-9.66	1.32	1.37
85	5	91	G	N3-C4	-9.66	1.28	1.35
85	5	1294	A	C6-N1	-9.66	1.28	1.35
38	8	138	A	C5-C4	-9.66	1.31	1.38
36	1	962	A	C6-N1	-9.66	1.28	1.35
36	1	2978	U	N1-C2	9.66	1.47	1.38
36	1	665	A	N7-C5	-9.65	1.33	1.39
36	1	1502	C	N1-C6	-9.65	1.31	1.37
85	5	945	C	N1-C6	-9.65	1.31	1.37
36	1	1859	A	N3-C4	-9.65	1.29	1.34
36	1	2286	U	N3-C4	-9.64	1.29	1.38
85	5	2317	A	C5-C4	-9.64	1.31	1.38
36	1	2704	A	N3-C4	-9.64	1.29	1.34
85	5	3040	A	N3-C4	-9.64	1.29	1.34
85	5	1315	U	N1-C6	-9.64	1.29	1.38
80	6	678	A	C8-N7	9.62	1.38	1.31
85	5	1161	G	C5-C4	-9.62	1.31	1.38
36	1	885	U	C4-O4	-9.62	1.16	1.23
85	5	2318	U	C4-O4	9.62	1.31	1.23
85	5	1841	A	N7-C5	-9.62	1.33	1.39
85	5	3335	A	C5-C6	-9.62	1.32	1.41
85	5	2762	A	N7-C5	-9.62	1.33	1.39
36	1	2610	G	N7-C5	-9.61	1.33	1.39
85	5	1117	G	C5-C4	-9.61	1.31	1.38
36	1	2409	G	C5-C4	-9.61	1.31	1.38
80	6	1663	G	N7-C5	-9.61	1.33	1.39
85	5	1307	G	C5-C4	-9.61	1.31	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2618	G	N1-C2	-9.60	1.30	1.37
85	5	2208	A	C5-C4	9.60	1.45	1.38
85	5	2239	G	N9-C4	-9.60	1.30	1.38
36	1	2746	A	C6-N1	-9.60	1.28	1.35
85	5	172	G	N7-C5	9.60	1.45	1.39
85	5	1440	G	N9-C4	-9.60	1.30	1.38
36	1	267	G	N1-C2	9.59	1.45	1.37
80	6	295	A	C5-C4	-9.59	1.32	1.38
1	2	28	A	N3-C4	-9.59	1.29	1.34
85	5	2341	A	N3-C4	-9.59	1.29	1.34
36	1	284	A	N7-C5	-9.58	1.33	1.39
85	5	893	C	N1-C6	-9.58	1.31	1.37
85	5	1312	C	N1-C2	-9.57	1.30	1.40
85	5	1863	G	C6-O6	9.57	1.32	1.24
85	5	2138	A	N3-C4	-9.57	1.29	1.34
80	6	1756[A]	A	P-OP2	9.57	1.65	1.49
80	6	1756[B]	A	P-OP2	9.57	1.65	1.49
36	1	682	U	C2-N3	-9.57	1.31	1.37
85	5	354	U	N1-C2	-9.56	1.29	1.38
85	5	2275	A	C5-C6	-9.56	1.32	1.41
85	5	2985	C	N3-C4	-9.56	1.27	1.33
36	1	2911	A	N9-C4	-9.55	1.32	1.37
85	5	912	G	N7-C5	-9.55	1.33	1.39
85	5	3023	U	N1-C2	-9.55	1.29	1.38
36	1	811	U	N1-C6	-9.55	1.29	1.38
36	1	361	A	C6-N1	-9.54	1.28	1.35
85	5	54	C	N1-C6	-9.54	1.31	1.37
85	5	1408	G	N9-C4	-9.54	1.30	1.38
85	5	421	G	N1-C2	-9.54	1.30	1.37
85	5	1545	A	N9-C4	-9.54	1.32	1.37
85	5	1069	C	N3-C4	-9.54	1.27	1.33
85	5	1184	A	N3-C4	-9.53	1.29	1.34
1	2	47	A	N7-C5	-9.53	1.33	1.39
85	5	1865	A	N9-C4	-9.53	1.32	1.37
36	1	2608	G	N7-C5	-9.52	1.33	1.39
85	5	3186	A	C6-N1	-9.52	1.28	1.35
36	1	2693	C	N1-C6	-9.52	1.31	1.37
85	5	1867	A	N3-C4	-9.52	1.29	1.34
85	5	3207	U	C2-N3	9.52	1.44	1.37
85	5	3294	A	N3-C4	-9.52	1.29	1.34
37	7	11	A	N9-C4	-9.51	1.32	1.37
85	5	633	C	N1-C6	-9.51	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2798	C	N3-C4	-9.51	1.27	1.33
36	1	815	G	N3-C4	-9.51	1.28	1.35
36	1	1890	U	N1-C2	-9.51	1.29	1.38
85	5	919	U	N1-C2	-9.51	1.29	1.38
85	5	1108	U	N1-C2	-9.51	1.29	1.38
85	5	195	U	N1-C2	-9.50	1.29	1.38
36	1	2605	G	N9-C4	-9.50	1.30	1.38
85	5	2208	A	C5-C6	9.50	1.49	1.41
36	1	52	A	C5-C4	-9.50	1.32	1.38
85	5	3277	U	N1-C6	9.50	1.46	1.38
85	5	817	A	C5-C4	-9.49	1.32	1.38
85	5	1348	U	N1-C2	9.49	1.47	1.38
85	5	2280	A	N9-C4	-9.49	1.32	1.37
36	1	1536	G	C6-N1	-9.49	1.32	1.39
36	1	2864	A	N3-C4	-9.49	1.29	1.34
80	6	1095	U	C4-O4	9.49	1.31	1.23
85	5	3119	U	N1-C2	-9.49	1.30	1.38
85	5	2302	G	N3-C4	-9.49	1.28	1.35
36	1	2919	A	N7-C5	-9.49	1.33	1.39
85	5	2313	A	N9-C4	-9.49	1.32	1.37
1	2	157	A	N9-C4	-9.49	1.32	1.37
85	5	506	U	N1-C6	-9.49	1.29	1.38
36	1	665	A	C5-C4	-9.48	1.32	1.38
80	6	1745	G	N3-C4	-9.48	1.28	1.35
36	1	596	C	N1-C6	-9.48	1.31	1.37
36	1	971	G	C5-C4	-9.48	1.31	1.38
36	1	1308	A	N9-C4	-9.48	1.32	1.37
85	5	2941	A	N9-C4	-9.48	1.32	1.37
85	5	3303	G	C6-N1	-9.48	1.32	1.39
36	1	364	G	N3-C4	-9.47	1.28	1.35
36	1	61	A	C6-N1	-9.47	1.28	1.35
85	5	2363	A	N3-C4	-9.47	1.29	1.34
36	1	1147	G	N9-C8	-9.47	1.31	1.37
36	1	2811	A	C6-N1	-9.47	1.28	1.35
36	1	437	G	C6-N1	9.47	1.46	1.39
36	1	2983	C	N1-C6	-9.46	1.31	1.37
85	5	652	G	N7-C5	9.46	1.45	1.39
36	1	659	G	N7-C5	-9.46	1.33	1.39
36	1	1901	A	N9-C4	-9.45	1.32	1.37
80	6	364	G	N7-C5	-9.45	1.33	1.39
36	1	313	A	N3-C4	-9.45	1.29	1.34
36	1	2174	G	N3-C4	-9.45	1.28	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1405	U	N1-C2	-9.45	1.30	1.38
1	2	508	U	C2-N3	9.45	1.44	1.37
1	2	1336	U	C4-O4	9.44	1.31	1.23
36	1	1348	U	N1-C2	9.44	1.47	1.38
85	5	2275	A	N7-C5	-9.44	1.33	1.39
85	5	1524	A	N9-C4	-9.44	1.32	1.37
85	5	1444	G	N9-C8	-9.43	1.31	1.37
40	l3	314	TYR	CD2-CE2	-9.43	1.25	1.39
36	1	2639	G	N7-C5	-9.43	1.33	1.39
85	5	2429	G	N3-C4	-9.43	1.28	1.35
36	1	935	U	C2-O2	-9.43	1.13	1.22
85	5	1484	U	N1-C6	-9.42	1.29	1.38
85	5	882	A	N3-C4	-9.42	1.29	1.34
85	5	1301	A	C6-N1	-9.42	1.28	1.35
85	5	2369	G	N1-C2	-9.42	1.30	1.37
36	1	699	A	N9-C4	-9.42	1.32	1.37
85	5	1142	G	N3-C4	-9.42	1.28	1.35
85	5	1349	G	N3-C4	9.41	1.42	1.35
85	5	3314	A	N3-C4	-9.41	1.29	1.34
85	5	2404	A	N9-C4	9.41	1.43	1.37
85	5	397	A	N9-C8	-9.40	1.30	1.37
36	1	2097	U	C2-N3	9.40	1.44	1.37
36	1	535	G	N3-C4	-9.40	1.28	1.35
36	1	928	C	N3-C4	-9.40	1.27	1.33
36	1	3140	G	C6-N1	-9.40	1.32	1.39
85	5	1915	A	N3-C4	-9.39	1.29	1.34
85	5	2386	A	C6-N1	-9.39	1.28	1.35
85	5	2809	C	N1-C6	-9.39	1.31	1.37
85	5	3000	A	N9-C4	-9.39	1.32	1.37
41	l4	299	ILE	C-N	-9.39	1.12	1.34
36	1	968	G	C5-C4	-9.39	1.31	1.38
37	3	51	A	N9-C4	9.38	1.43	1.37
36	1	440	A	N7-C5	9.38	1.44	1.39
85	5	1133	A	N7-C5	-9.38	1.33	1.39
85	5	2879	C	N1-C2	-9.38	1.30	1.40
36	1	1116	G	N3-C4	-9.38	1.28	1.35
85	5	846	A	N9-C4	-9.37	1.32	1.37
85	5	1133	A	N9-C4	-9.37	1.32	1.37
85	5	1661	G	P-OP1	9.37	1.64	1.49
85	5	2363	A	N7-C5	-9.37	1.33	1.39
85	5	2635	A	N9-C4	-9.37	1.32	1.37
40	l3	314	TYR	CD1-CE1	-9.37	1.25	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1121	U	N1-C2	-9.37	1.30	1.38
36	1	1057	A	N3-C4	-9.37	1.29	1.34
85	5	1486	G	N3-C4	-9.37	1.28	1.35
85	5	634	C	N1-C6	-9.36	1.31	1.37
85	5	2213	A	N9-C4	-9.36	1.32	1.37
36	1	2864	A	N9-C4	-9.36	1.32	1.37
85	5	2312	A	C5-C4	-9.36	1.32	1.38
85	5	1612	A	N3-C4	-9.35	1.29	1.34
85	5	2335	G	C6-N1	-9.35	1.33	1.39
36	1	1391	C	N1-C6	-9.35	1.31	1.37
36	1	2704	A	C6-N1	-9.35	1.29	1.35
80	6	1119	G	N7-C5	-9.35	1.33	1.39
36	1	402	A	N9-C8	-9.34	1.30	1.37
85	5	953	G	N3-C4	-9.34	1.28	1.35
13	c1	128	CYS	CB-SG	-9.34	1.66	1.82
85	5	2624	G	N7-C5	-9.34	1.33	1.39
85	5	2985	C	C2-N3	-9.34	1.28	1.35
85	5	1047	A	C5-C6	-9.34	1.32	1.41
80	6	742	U	N3-C4	9.34	1.46	1.38
85	5	918	C	C2-N3	9.34	1.43	1.35
36	1	933	A	N3-C4	-9.33	1.29	1.34
36	1	1429	G	N9-C8	-9.33	1.31	1.37
85	5	2943	G	N7-C5	-9.33	1.33	1.39
85	5	780	A	N9-C4	-9.33	1.32	1.37
85	5	820	A	C6-N1	-9.33	1.29	1.35
85	5	3181	C	N1-C6	-9.32	1.31	1.37
36	1	614	C	N1-C6	-9.32	1.31	1.37
85	5	364	G	N3-C4	-9.32	1.28	1.35
36	1	2132	C	N1-C6	-9.32	1.31	1.37
37	3	82	G	N7-C5	-9.31	1.33	1.39
85	5	1303	A	N3-C4	-9.31	1.29	1.34
85	5	1317	A	N9-C4	-9.31	1.32	1.37
36	1	102	C	N1-C6	-9.31	1.31	1.37
85	5	2380	U	N1-C6	-9.31	1.29	1.38
85	5	194	U	C2-N3	-9.31	1.31	1.37
85	5	609	G	N9-C4	-9.31	1.30	1.38
85	5	2417	U	C2-N3	9.31	1.44	1.37
85	5	3067	C	N3-C4	-9.31	1.27	1.33
85	5	1348	U	N3-C4	9.30	1.46	1.38
85	5	3343	G	C6-O6	9.30	1.32	1.24
1	2	47	A	N3-C4	-9.30	1.29	1.34
85	5	367	A	C5-C6	-9.30	1.32	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	909	G	N9-C8	-9.30	1.31	1.37
85	5	2620	G	C6-N1	-9.29	1.33	1.39
36	1	94	G	C6-N1	-9.29	1.33	1.39
36	1	1352	A	C6-N1	9.29	1.42	1.35
36	1	967	A	N7-C5	-9.29	1.33	1.39
85	5	2381	G	N3-C4	-9.29	1.28	1.35
36	1	505	G	N3-C4	-9.28	1.28	1.35
36	1	1441	G	C6-N1	-9.28	1.33	1.39
36	1	2881	C	N1-C6	-9.28	1.31	1.37
36	1	2971	A	N7-C5	-9.28	1.33	1.39
85	5	1332	A	N3-C4	-9.28	1.29	1.34
85	5	2893	C	N1-C2	-9.28	1.30	1.40
36	1	1346	G	N3-C4	-9.28	1.28	1.35
36	1	2426	U	C2-N3	-9.28	1.31	1.37
36	1	2609	A	N3-C4	-9.28	1.29	1.34
85	5	2245	C	N1-C6	-9.28	1.31	1.37
36	1	3275	U	C2-O2	9.28	1.30	1.22
85	5	3052	G	N3-C4	-9.28	1.28	1.35
36	1	970	A	C6-N1	-9.28	1.29	1.35
36	1	82	C	N1-C6	-9.27	1.31	1.37
36	1	810	A	N7-C5	-9.27	1.33	1.39
85	5	2851	A	N7-C5	-9.27	1.33	1.39
36	1	2657	A	C6-N1	-9.27	1.29	1.35
37	7	101	G	N9-C4	-9.27	1.30	1.38
38	4	1	A	N9-C4	-9.26	1.32	1.37
85	5	1350	A	N9-C4	9.26	1.43	1.37
36	1	1352	A	C5-C4	9.26	1.45	1.38
85	5	2736	A	N3-C4	-9.26	1.29	1.34
36	1	1116	G	N9-C8	-9.26	1.31	1.37
36	1	2403	G	N3-C4	-9.26	1.28	1.35
36	1	437	G	N7-C5	9.25	1.44	1.39
36	1	3011	A	C5-C4	-9.25	1.32	1.38
85	5	817	A	C5-C6	-9.25	1.32	1.41
85	5	2784	G	C6-N1	-9.25	1.33	1.39
37	7	99	G	C6-N1	-9.25	1.33	1.39
36	1	68	C	N1-C6	-9.25	1.31	1.37
36	1	972	A	N3-C4	-9.25	1.29	1.34
36	1	364	G	C6-N1	-9.25	1.33	1.39
85	5	3125	U	N1-C2	-9.25	1.30	1.38
85	5	40	A	N7-C5	-9.24	1.33	1.39
36	1	897	U	C2-N3	-9.24	1.31	1.37
36	1	1400	G	N9-C8	-9.24	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2207	A	N3-C4	9.24	1.40	1.34
85	5	358	G	N3-C4	-9.24	1.28	1.35
36	1	2208	A	N9-C4	9.24	1.43	1.37
36	1	55	G	N9-C8	-9.23	1.31	1.37
36	1	984	G	N7-C5	-9.23	1.33	1.39
85	5	1868	G	N7-C5	-9.23	1.33	1.39
85	5	1307	G	N9-C8	-9.23	1.31	1.37
85	5	2364	G	N7-C5	-9.23	1.33	1.39
36	1	2607	G	N7-C5	-9.23	1.33	1.39
85	5	639	G	N3-C4	-9.23	1.28	1.35
85	5	2329	C	N1-C6	-9.23	1.31	1.37
85	5	1115	G	N7-C5	-9.23	1.33	1.39
68	O2	57	TYR	CD2-CE2	-9.22	1.25	1.39
36	1	1435	A	C5-C4	-9.22	1.32	1.38
80	6	1264	G	C5-C4	9.22	1.44	1.38
85	5	2138	A	N7-C5	-9.22	1.33	1.39
85	5	647	A	C6-N1	-9.22	1.29	1.35
36	1	912	G	N7-C5	-9.21	1.33	1.39
85	5	1129	A	N7-C5	-9.21	1.33	1.39
36	1	2837	A	N3-C4	-9.21	1.29	1.34
80	6	1075	C	P-OP1	9.21	1.64	1.49
85	5	367	A	N3-C4	-9.21	1.29	1.34
36	1	904	A	C6-N1	-9.21	1.29	1.35
36	1	917	A	C5-C4	-9.20	1.32	1.38
85	5	907	G	N9-C8	-9.20	1.31	1.37
85	5	2798	C	N1-C6	-9.20	1.31	1.37
36	1	2409	G	N3-C4	-9.20	1.29	1.35
80	6	1418	G	C6-O6	9.20	1.32	1.24
85	5	275	U	C2-N3	-9.20	1.31	1.37
85	5	712	G	N9-C8	-9.20	1.31	1.37
85	5	787	G	N9-C8	-9.19	1.31	1.37
85	5	3239	G	N9-C8	9.20	1.44	1.37
85	5	2737	C	N1-C6	-9.19	1.31	1.37
80	6	818	C	C5-C6	9.19	1.41	1.34
36	1	934	G	N3-C4	-9.19	1.29	1.35
80	6	628	G	C6-N1	-9.19	1.33	1.39
36	1	1395	G	C6-N1	-9.18	1.33	1.39
85	5	23	A	N7-C5	-9.18	1.33	1.39
85	5	895	A	N3-C4	-9.18	1.29	1.34
85	5	1332	A	C6-N1	-9.18	1.29	1.35
36	1	962	A	C5-C4	-9.18	1.32	1.38
36	1	1799	A	N9-C4	-9.18	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	11	C	N1-C6	-9.18	1.31	1.37
85	5	2848	G	N3-C4	-9.18	1.29	1.35
36	1	812	G	N9-C4	-9.17	1.30	1.38
85	5	2392	C	C2-N3	-9.17	1.28	1.35
85	5	2850	G	N9-C8	-9.17	1.31	1.37
36	1	547	G	N1-C2	9.17	1.45	1.37
85	5	1461	A	N3-C4	-9.17	1.29	1.34
36	1	27	C	N1-C6	-9.17	1.31	1.37
36	1	914	A	N3-C4	-9.17	1.29	1.34
36	1	2425	G	C6-N1	-9.17	1.33	1.39
85	5	1874	A	N7-C5	-9.17	1.33	1.39
85	5	2637	A	C6-N1	-9.16	1.29	1.35
85	5	1764	U	N1-C2	9.16	1.46	1.38
85	5	2415	C	N1-C6	-9.16	1.31	1.37
36	1	2697	A	C6-N1	-9.16	1.29	1.35
36	1	2957	G	N3-C4	-9.16	1.29	1.35
85	5	937	G	N9-C8	-9.16	1.31	1.37
36	1	37	U	N1-C6	-9.16	1.29	1.38
80	6	463	U	C2-N3	9.16	1.44	1.37
85	5	1303	A	N9-C4	-9.16	1.32	1.37
38	8	99	C	N1-C6	-9.16	1.31	1.37
80	6	441	A	C6-N1	-9.15	1.29	1.35
36	1	2296	A	N3-C4	-9.15	1.29	1.34
36	1	1578	C	N3-C4	9.15	1.40	1.33
80	6	313	U	N1-C6	-9.15	1.29	1.38
36	1	952	A	N3-C4	-9.15	1.29	1.34
85	5	1152	G	N9-C4	-9.14	1.30	1.38
36	1	19	U	C2-N3	-9.14	1.31	1.37
36	1	1432	C	N3-C4	-9.14	1.27	1.33
85	5	2618	G	C6-N1	-9.14	1.33	1.39
38	4	17	A	N3-C4	-9.13	1.29	1.34
85	5	1429	G	N9-C4	-9.13	1.30	1.38
36	1	808	A	N1-C2	-9.13	1.26	1.34
36	1	1394	A	C5-C4	-9.12	1.32	1.38
85	5	2188	A	C6-N1	-9.12	1.29	1.35
85	5	2883	U	N1-C6	-9.13	1.29	1.38
85	5	1903	U	C2-N3	9.12	1.44	1.37
85	5	1914	G	N3-C4	-9.12	1.29	1.35
85	5	2891	U	C2-N3	-9.12	1.31	1.37
85	5	504	A	C5-C6	-9.12	1.32	1.41
36	1	2902	A	N3-C4	-9.12	1.29	1.34
85	5	3093	C	N1-C2	-9.12	1.31	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3395	G	C2'-O2'	9.12	1.53	1.41
36	1	943	U	N1-C2	-9.11	1.30	1.38
80	6	1659	A	N9-C4	-9.11	1.32	1.37
36	1	2523	A	N9-C4	9.10	1.43	1.37
38	8	15	G	N3-C4	-9.10	1.29	1.35
36	1	2892	A	N9-C4	-9.10	1.32	1.37
85	5	2958	A	N3-C4	-9.10	1.29	1.34
36	1	1157	G	C6-N1	-9.10	1.33	1.39
36	1	1907	C	N1-C6	-9.10	1.31	1.37
36	1	1172	G	N9-C4	-9.10	1.30	1.38
36	1	3130	A	N7-C5	-9.10	1.33	1.39
85	5	804	C	N1-C6	-9.10	1.31	1.37
85	5	1390	A	C6-N1	-9.10	1.29	1.35
36	1	56	G	C5-C6	-9.09	1.33	1.42
85	5	2320	A	N3-C4	-9.09	1.29	1.34
85	5	2877	G	N7-C5	9.09	1.44	1.39
36	1	1409	G	N9-C8	-9.09	1.31	1.37
36	1	2636	A	N7-C5	-9.09	1.33	1.39
85	5	1688	U	N1-C2	9.09	1.46	1.38
85	5	883	A	C6-N1	-9.09	1.29	1.35
36	1	1148	G	C5-C6	-9.08	1.33	1.42
36	1	1905	G	N3-C4	-9.08	1.29	1.35
36	1	2931	C	N1-C6	-9.08	1.31	1.37
85	5	235	A	N3-C4	-9.08	1.29	1.34
36	1	651	G	C5-C4	-9.08	1.31	1.38
85	5	1456	A	N3-C4	-9.08	1.29	1.34
36	1	619	A	C5-C4	9.07	1.45	1.38
36	1	3143	C	N1-C6	-9.07	1.31	1.37
36	1	2127	U	N1-C2	-9.07	1.30	1.38
36	1	2619	G	C6-O6	-9.07	1.16	1.24
85	5	2872	A	N9-C4	-9.07	1.32	1.37
36	1	780	A	N7-C5	-9.07	1.33	1.39
85	5	2644	C	N1-C6	-9.07	1.31	1.37
36	1	2141	U	C2-N3	-9.06	1.31	1.37
38	8	20	U	N1-C2	-9.06	1.30	1.38
36	1	578	A	C5-C4	-9.06	1.32	1.38
36	1	336	A	N7-C5	9.06	1.44	1.39
85	5	2247	G	N3-C4	-9.06	1.29	1.35
80	6	99	C	N1-C6	-9.05	1.31	1.37
85	5	1213	G	N9-C4	-9.05	1.30	1.38
36	1	3309	G	N3-C4	-9.05	1.29	1.35
36	1	583	G	N9-C4	-9.04	1.30	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	987	G	C8-N7	9.04	1.36	1.30
85	5	2113	A	C6-N1	-9.04	1.29	1.35
36	1	2145	A	N9-C4	-9.04	1.32	1.37
36	1	585	A	N3-C4	-9.04	1.29	1.34
36	1	894	G	N7-C5	-9.04	1.33	1.39
85	5	2244	A	N3-C4	-9.04	1.29	1.34
85	5	2603	G	N7-C5	9.04	1.44	1.39
85	5	1919	G	N3-C4	-9.04	1.29	1.35
36	1	60	A	N3-C4	-9.03	1.29	1.34
36	1	76	G	C6-N1	-9.03	1.33	1.39
36	1	307	A	C6-N1	-9.03	1.29	1.35
36	1	2365	C	N1-C6	-9.03	1.31	1.37
85	5	1438	U	N1-C2	-9.03	1.30	1.38
85	5	2732	G	P-OP2	9.03	1.64	1.49
36	1	1660	C	N1-C6	-9.03	1.31	1.37
36	1	1164	G	N9-C8	-9.03	1.31	1.37
85	5	235	A	N9-C4	-9.03	1.32	1.37
36	1	2896	A	N9-C8	-9.02	1.30	1.37
36	1	656	A	N7-C5	-9.02	1.33	1.39
85	5	1294	A	N9-C4	-9.02	1.32	1.37
85	5	2895	G	N3-C4	-9.02	1.29	1.35
80	6	163	G	N9-C4	-9.01	1.30	1.38
36	1	1370	G	N7-C5	-9.01	1.33	1.39
85	5	774	G	C6-N1	9.01	1.45	1.39
85	5	1405	U	N1-C6	-9.01	1.29	1.38
85	5	3275	U	N1-C2	9.01	1.46	1.38
85	5	965	A	N7-C5	-9.01	1.33	1.39
36	1	2972	G	C2-N2	9.00	1.43	1.34
85	5	2348	A	N7-C5	-9.00	1.33	1.39
36	1	1320	C	N1-C6	-9.00	1.31	1.37
85	5	1318	A	C6-N1	-9.00	1.29	1.35
36	1	921	A	N1-C2	-9.00	1.26	1.34
36	1	1126	G	N7-C5	-9.00	1.33	1.39
38	4	27	U	C2-N3	-9.00	1.31	1.37
80	6	204	G	N9-C8	9.00	1.44	1.37
85	5	1321	G	N3-C4	-9.00	1.29	1.35
85	5	3090	U	N1-C2	-9.00	1.30	1.38
36	1	1377	G	N7-C5	-8.99	1.33	1.39
36	1	2618	G	N3-C4	-8.99	1.29	1.35
85	5	2138	A	N9-C4	-8.99	1.32	1.37
85	5	2754	G	N3-C4	-8.99	1.29	1.35
85	5	2909	U	C2-N3	-8.99	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	510	G	N7-C5	-8.99	1.33	1.39
36	1	2138	A	C5-C6	-8.99	1.32	1.41
85	5	278	U	N1-C2	-8.99	1.30	1.38
36	1	2756	C	N3-C4	-8.98	1.27	1.33
38	8	15	G	C6-N1	-8.98	1.33	1.39
80	6	94	U	N3-C4	-8.98	1.30	1.38
85	5	649	A	N7-C5	-8.98	1.33	1.39
85	5	2275	A	C5-C4	-8.98	1.32	1.38
85	5	3032	A	N7-C5	-8.98	1.33	1.39
36	1	1150	A	C5-C4	-8.98	1.32	1.38
36	1	1133	A	N3-C4	-8.98	1.29	1.34
85	5	3130	A	N3-C4	-8.97	1.29	1.34
36	1	625	G	C6-N1	-8.97	1.33	1.39
38	4	4	C	N1-C6	-8.97	1.31	1.37
85	5	1934	G	N1-C2	8.97	1.45	1.37
85	5	1136	A	N3-C4	-8.97	1.29	1.34
36	1	928	C	N1-C6	-8.96	1.31	1.37
36	1	1761	C	N1-C6	8.96	1.42	1.37
85	5	1293	U	N1-C6	-8.96	1.29	1.38
85	5	3003	G	N9-C4	-8.96	1.30	1.38
36	1	1458	U	N1-C2	-8.96	1.30	1.38
85	5	1152	G	N7-C5	-8.96	1.33	1.39
85	5	2715	A	N7-C5	-8.96	1.33	1.39
85	5	163	C	N1-C6	8.95	1.42	1.37
85	5	3056	U	N1-C2	-8.95	1.30	1.38
85	5	1901	A	N3-C4	-8.95	1.29	1.34
36	1	505	G	C5-C4	-8.95	1.32	1.38
36	1	871	U	N1-C2	-8.95	1.30	1.38
85	5	2363	A	C5-C6	-8.95	1.32	1.41
37	7	51	A	N3-C4	-8.95	1.29	1.34
38	4	33	A	N9-C4	-8.94	1.32	1.37
85	5	195	U	N1-C6	-8.94	1.29	1.38
85	5	1454	A	N9-C4	-8.94	1.32	1.37
85	5	2644	C	C2-N3	-8.94	1.28	1.35
80	6	635	A	N3-C4	-8.94	1.29	1.34
85	5	3111	U	N1-C2	-8.94	1.30	1.38
36	1	2502	A	N3-C4	8.93	1.40	1.34
85	5	933	A	N9-C4	-8.93	1.32	1.37
85	5	2895	G	N9-C8	-8.93	1.31	1.37
36	1	283	G	N7-C5	-8.93	1.33	1.39
80	6	241	U	C2-N3	8.93	1.44	1.37
85	5	868	C	N1-C2	-8.93	1.31	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	729	A	N9-C4	-8.93	1.32	1.37
85	5	2580	A	C2'-O2'	8.93	1.53	1.41
36	1	969	C	N1-C6	-8.92	1.31	1.37
38	4	116	G	N9-C4	-8.92	1.30	1.38
52	m6	16	VAL	CB-CG2	-8.92	1.34	1.52
80	6	1300	A	C6-N1	-8.92	1.29	1.35
85	5	2123	G	N9-C4	-8.92	1.30	1.38
36	1	439	C	N1-C6	8.92	1.42	1.37
80	6	448	C	N1-C6	-8.92	1.31	1.37
85	5	1332	A	C5-C6	-8.92	1.33	1.41
85	5	2401	A	C5-C6	8.92	1.49	1.41
85	5	953	G	C5-C6	-8.91	1.33	1.42
85	5	1490	A	C6-N1	-8.91	1.29	1.35
85	5	2833	A	N3-C4	-8.91	1.29	1.34
36	1	67	A	N3-C4	-8.91	1.29	1.34
85	5	2401	A	C5-C4	8.91	1.45	1.38
85	5	3277	U	C2-N3	8.91	1.44	1.37
38	8	17	A	C5-C6	-8.91	1.33	1.41
85	5	609	G	N3-C4	-8.91	1.29	1.35
85	5	2702	A	N9-C4	-8.91	1.32	1.37
36	1	2396	G	N7-C5	-8.90	1.33	1.39
36	1	2645	G	N9-C8	-8.90	1.31	1.37
80	6	1749	A	N9-C4	-8.90	1.32	1.37
36	1	3310	A	N7-C5	-8.90	1.33	1.39
85	5	2368	A	C6-N1	-8.90	1.29	1.35
85	5	2881	C	N1-C6	-8.90	1.31	1.37
36	1	3005	A	N7-C5	-8.89	1.33	1.39
85	5	614	C	C2-N3	-8.89	1.28	1.35
85	5	963	G	C6-N1	-8.89	1.33	1.39
36	1	2833	A	N9-C4	-8.89	1.32	1.37
85	5	2354	C	N1-C6	-8.89	1.31	1.37
36	1	996	A	C6-N1	-8.89	1.29	1.35
85	5	2598	G	N7-C5	-8.89	1.33	1.39
36	1	287	G	N7-C5	-8.89	1.33	1.39
36	1	2991	A	N9-C4	-8.89	1.32	1.37
38	4	99	C	N1-C6	-8.89	1.31	1.37
36	1	1379	G	N3-C4	-8.88	1.29	1.35
36	1	2862	U	C2-N3	-8.88	1.31	1.37
85	5	2199	G	N7-C5	-8.88	1.33	1.39
85	5	2824	G	N7-C5	-8.88	1.33	1.39
36	1	79	U	C2-O2	-8.88	1.14	1.22
36	1	1825	G	N9-C4	-8.88	1.30	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	722	G	N9-C8	-8.88	1.31	1.37
85	5	2908	G	N9-C4	-8.88	1.30	1.38
36	1	2375	G	N9-C8	-8.88	1.31	1.37
85	5	1870	C	N1-C6	-8.88	1.31	1.37
85	5	3135	U	N3-C4	-8.88	1.30	1.38
36	1	2169	G	N9-C4	8.88	1.45	1.38
85	5	2885	C	C2-N3	-8.87	1.28	1.35
85	5	2973	G	N3-C4	-8.87	1.29	1.35
36	1	1933	A	N9-C4	-8.87	1.32	1.37
36	1	2296	A	C5-C4	-8.87	1.32	1.38
36	1	1202	A	N7-C5	-8.86	1.33	1.39
85	5	1103	A	N9-C4	8.86	1.43	1.37
85	5	1356	U	C2-N3	8.86	1.44	1.37
36	1	2333	C	N3-C4	-8.86	1.27	1.33
36	1	1101	G	N9-C8	-8.86	1.31	1.37
85	5	2602	G	N3-C4	-8.86	1.29	1.35
42	l5	62	CYS	CB-SG	-8.86	1.67	1.82
85	5	1309	U	N1-C6	-8.85	1.29	1.38
36	1	1202	A	C5-C6	-8.85	1.33	1.41
36	1	2727	A	N3-C4	-8.85	1.29	1.34
85	5	3106	A	N3-C4	-8.85	1.29	1.34
85	5	1779	C	C2'-O2'	8.84	1.53	1.41
38	4	52	A	N3-C4	-8.84	1.29	1.34
38	8	3	A	C5-C4	-8.84	1.32	1.38
80	6	1659	A	C6-N1	-8.84	1.29	1.35
85	5	798	G	N3-C4	-8.84	1.29	1.35
85	5	3276	G	N7-C5	8.84	1.44	1.39
85	5	658	G	N7-C5	-8.84	1.33	1.39
36	1	1152	G	C6-N1	-8.84	1.33	1.39
36	1	1154	A	N7-C5	-8.84	1.33	1.39
36	1	1382	G	C5-C4	-8.84	1.32	1.38
80	6	1765	A	N9-C4	-8.84	1.32	1.37
85	5	417	A	C5-C4	-8.84	1.32	1.38
85	5	1199	C	N1-C2	-8.84	1.31	1.40
85	5	1134	G	N3-C4	-8.83	1.29	1.35
85	5	2968	G	N1-C2	-8.83	1.30	1.37
38	4	25	G	N9-C8	-8.83	1.31	1.37
85	5	824	C	N1-C6	-8.83	1.31	1.37
85	5	325	A	N3-C4	-8.83	1.29	1.34
85	5	1924	U	N3-C4	-8.83	1.30	1.38
85	5	2960	C	N3-C4	-8.83	1.27	1.33
36	1	1655	G	C6-N1	-8.83	1.33	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3106	A	C6-N1	-8.83	1.29	1.35
85	5	515	C	N1-C2	-8.82	1.31	1.40
85	5	1497	C	N1-C2	-8.82	1.31	1.40
38	8	85	G	N7-C5	8.82	1.44	1.39
36	1	2957	G	N9-C4	-8.82	1.30	1.38
80	6	1495	C	P-OP1	8.82	1.64	1.49
85	5	2960	C	N1-C6	-8.82	1.31	1.37
36	1	2799	A	C6-N1	-8.82	1.29	1.35
36	1	1762	C	C2-N3	8.81	1.42	1.35
38	4	138	A	N3-C4	-8.81	1.29	1.34
80	6	347	G	C6-N1	8.81	1.45	1.39
85	5	1203	A	N3-C4	-8.81	1.29	1.34
85	5	1350	A	N3-C4	8.81	1.40	1.34
85	5	2602	G	C6-N1	-8.81	1.33	1.39
85	5	1874	A	C5-C6	-8.81	1.33	1.41
36	1	1135	A	N3-C4	-8.80	1.29	1.34
36	1	1557	A	N9-C4	-8.80	1.32	1.37
85	5	3350	C	N1-C6	8.80	1.42	1.37
36	1	879	U	C2-N3	-8.80	1.31	1.37
36	1	637	C	C2-N3	-8.80	1.28	1.35
80	6	122	U	N3-C4	8.79	1.46	1.38
85	5	2166	A	N9-C4	-8.79	1.32	1.37
36	1	2619	G	N3-C4	-8.79	1.29	1.35
80	6	295	A	N9-C4	-8.79	1.32	1.37
37	3	41	G	N7-C5	-8.79	1.33	1.39
80	6	333	A	N3-C4	-8.79	1.29	1.34
85	5	1497	C	N1-C6	-8.79	1.31	1.37
36	1	88	A	N9-C4	-8.78	1.32	1.37
85	5	3008	A	N9-C8	-8.78	1.30	1.37
85	5	1177	G	C6-N1	-8.78	1.33	1.39
36	1	98	G	N9-C4	-8.78	1.30	1.38
85	5	833	G	C6-N1	-8.78	1.33	1.39
85	5	523	A	N3-C4	-8.78	1.29	1.34
36	1	228	U	C2-N3	-8.78	1.31	1.37
36	1	857	G	N7-C5	-8.78	1.33	1.39
85	5	1733	G	C8-N7	8.78	1.36	1.30
85	5	2928	C	N1-C6	-8.78	1.31	1.37
36	1	3181	C	N3-C4	-8.77	1.27	1.33
85	5	592	A	N9-C4	-8.77	1.32	1.37
85	5	2919	A	N9-C4	-8.77	1.32	1.37
1	2	1188	C	N1-C6	-8.77	1.31	1.37
36	1	44	U	C2-N3	-8.77	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	648	C	N1-C6	-8.77	1.31	1.37
85	5	1850	A	N9-C4	-8.77	1.32	1.37
85	5	2337	C	N1-C6	-8.77	1.31	1.37
85	5	3173	G	C6-N1	-8.77	1.33	1.39
85	5	2119	A	C5-C6	-8.77	1.33	1.41
36	1	915	A	N9-C4	-8.76	1.32	1.37
85	5	2698	G	N9-C8	-8.76	1.31	1.37
36	1	79	U	N3-C4	-8.76	1.30	1.38
36	1	1392	G	C5-C4	-8.76	1.32	1.38
38	4	52	A	C6-N1	-8.76	1.29	1.35
80	6	1659	A	N7-C5	-8.76	1.33	1.39
85	5	1127	G	N9-C8	-8.76	1.31	1.37
85	5	2172	A	C5-C6	-8.76	1.33	1.41
36	1	672	A	C5-C6	-8.76	1.33	1.41
36	1	970	A	C5-C4	-8.76	1.32	1.38
36	1	1132	C	N3-C4	-8.76	1.27	1.33
85	5	2610	G	N7-C5	-8.76	1.33	1.39
36	1	2128	C	N3-C4	-8.75	1.27	1.33
36	1	2377	G	N9-C4	-8.75	1.30	1.38
85	5	3059	G	C6-N1	-8.75	1.33	1.39
85	5	1432	C	C2-O2	-8.75	1.16	1.24
36	1	662	U	N1-C2	-8.75	1.30	1.38
36	1	3273	A	C5-C4	-8.75	1.32	1.38
85	5	2628	A	N3-C4	-8.75	1.29	1.34
85	5	2966	G	C5-C6	-8.75	1.33	1.42
36	1	33	G	N9-C8	-8.75	1.31	1.37
36	1	1196	C	N1-C6	8.75	1.42	1.37
85	5	2233	A	N3-C4	-8.75	1.29	1.34
85	5	879	U	N1-C6	-8.75	1.30	1.38
85	5	2428	U	N1-C2	-8.75	1.30	1.38
85	5	2303	A	N9-C4	-8.74	1.32	1.37
85	5	599	C	N1-C6	-8.74	1.31	1.37
85	5	793	C	C4-C5	-8.74	1.35	1.43
85	5	2317	A	N3-C4	-8.74	1.29	1.34
37	7	80	G	N1-C2	-8.74	1.30	1.37
36	1	2368	A	N3-C4	-8.74	1.29	1.34
36	1	2967	A	N3-C4	-8.74	1.29	1.34
85	5	996	A	N7-C5	-8.74	1.34	1.39
36	1	2684	C	N1-C6	-8.73	1.31	1.37
85	5	2380	U	N1-C2	-8.73	1.30	1.38
36	1	955	U	N1-C2	-8.73	1.30	1.38
85	5	666	A	N9-C4	-8.73	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3311	C	N1-C2	-8.73	1.31	1.40
36	1	1196	C	N3-C4	8.73	1.40	1.33
85	5	1897	G	N7-C5	-8.73	1.34	1.39
85	5	2381	G	C6-N1	-8.73	1.33	1.39
85	5	1889	G	C5-C4	-8.72	1.32	1.38
36	1	1099	A	N9-C4	-8.72	1.32	1.37
85	5	425	G	N3-C4	-8.72	1.29	1.35
36	1	621	A	C6-N1	8.71	1.41	1.35
36	1	2387	A	C5-C6	-8.72	1.33	1.41
36	1	2820	A	N7-C5	-8.72	1.34	1.39
85	5	164	A	N9-C4	8.72	1.43	1.37
85	5	391	A	N3-C4	-8.71	1.29	1.34
85	5	1063	G	N7-C5	-8.71	1.34	1.39
36	1	1495	U	N1-C6	-8.71	1.30	1.38
36	1	943	U	N1-C6	-8.71	1.30	1.38
36	1	1355	A	N7-C5	8.71	1.44	1.39
36	1	1114	U	C2-N3	-8.71	1.31	1.37
36	1	1175	C	N1-C6	-8.71	1.31	1.37
36	1	1142	G	N9-C8	-8.71	1.31	1.37
36	1	3265	C	N1-C6	-8.71	1.31	1.37
38	4	35	C	N1-C6	-8.71	1.31	1.37
85	5	1662	G	N3-C4	-8.71	1.29	1.35
85	5	2950	G	N7-C5	-8.71	1.34	1.39
85	5	3052	G	N9-C8	-8.71	1.31	1.37
48	M1	144	CYS	CB-SG	-8.71	1.67	1.82
80	6	102	U	N1-C2	-8.70	1.30	1.38
36	1	2209	U	C2-N3	8.70	1.43	1.37
85	5	1889	G	C5-C6	-8.70	1.33	1.42
85	5	2386	A	N7-C5	-8.70	1.34	1.39
85	5	2741	C	N1-C2	-8.70	1.31	1.40
36	1	2732	G	C6-N1	-8.70	1.33	1.39
85	5	508	U	C4-O4	8.70	1.30	1.23
85	5	3310	A	C5-C4	-8.70	1.32	1.38
36	1	808	A	C6-N1	-8.70	1.29	1.35
36	1	865	U	N3-C4	-8.70	1.30	1.38
36	1	1176	C	N1-C6	-8.70	1.31	1.37
85	5	2858	U	C2-N3	-8.70	1.31	1.37
36	1	1348	U	C2-N3	8.69	1.43	1.37
85	5	858	A	N9-C4	-8.70	1.32	1.37
85	5	2703	A	N7-C5	-8.70	1.34	1.39
36	1	25	U	N1-C2	-8.69	1.30	1.38
85	5	2734	A	N3-C4	-8.69	1.29	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2871	G	N7-C5	8.69	1.44	1.39
36	1	583	G	C6-N1	-8.69	1.33	1.39
80	6	1103	U	C2-N3	-8.69	1.31	1.37
85	5	2929	C	N3-C4	-8.69	1.27	1.33
36	1	760	G	N3-C4	-8.69	1.29	1.35
36	1	290	G	C5-C4	-8.69	1.32	1.38
36	1	630	A	C5-C4	-8.68	1.32	1.38
36	1	1105	A	N9-C4	-8.68	1.32	1.37
56	n0	9	VAL	CB-CG2	-8.68	1.34	1.52
36	1	2761	G	N9-C8	-8.68	1.31	1.37
36	1	3155	U	N1-C2	8.68	1.46	1.38
36	1	2853	A	N3-C4	-8.68	1.29	1.34
36	1	2918	G	N7-C5	-8.68	1.34	1.39
36	1	2838	A	N9-C4	-8.68	1.32	1.37
85	5	1047	A	N3-C4	-8.68	1.29	1.34
85	5	1648	A	N9-C4	-8.68	1.32	1.37
36	1	711	A	C5-C4	-8.67	1.32	1.38
85	5	629	U	N1-C2	-8.67	1.30	1.38
36	1	682	U	N1-C6	-8.67	1.30	1.38
36	1	3086	A	N3-C4	-8.67	1.29	1.34
80	6	678	A	N9-C8	8.67	1.44	1.37
37	7	96	U	N1-C2	-8.67	1.30	1.38
85	5	343	U	N1-C2	-8.67	1.30	1.38
85	5	2724	U	C2-N3	8.67	1.43	1.37
80	6	94	U	N1-C6	-8.67	1.30	1.38
85	5	2358	A	N7-C5	-8.67	1.34	1.39
80	6	1747	G	N9-C4	-8.66	1.31	1.38
85	5	1189	C	N1-C2	-8.66	1.31	1.40
36	1	962	A	N9-C4	-8.66	1.32	1.37
85	5	509	U	N1-C2	-8.66	1.30	1.38
85	5	919	U	N3-C4	-8.66	1.30	1.38
38	8	50	C	N1-C6	-8.66	1.31	1.37
85	5	433	A	N7-C5	-8.66	1.34	1.39
85	5	872	U	C4-C5	-8.66	1.35	1.43
38	4	138	A	C5-C6	-8.65	1.33	1.41
36	1	2824	G	C2-N3	-8.65	1.25	1.32
40	13	168	LYS	C-N	-8.65	1.14	1.34
36	1	1373	A	C5-C4	-8.65	1.32	1.38
36	1	2958	A	C6-N1	-8.65	1.29	1.35
85	5	266	A	N3-C4	-8.65	1.29	1.34
36	1	867	G	N3-C4	-8.64	1.29	1.35
36	1	699	A	N3-C4	-8.64	1.29	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2941	A	N7-C5	-8.64	1.34	1.39
36	1	883	A	N3-C4	-8.64	1.29	1.34
36	1	2976	A	C6-N1	-8.64	1.29	1.35
36	1	3243	A	N3-C4	-8.64	1.29	1.34
85	5	2946	A	N7-C5	-8.64	1.34	1.39
36	1	1459	C	C2-O2	-8.64	1.16	1.24
36	1	1898	G	C5-C4	-8.64	1.32	1.38
85	5	2342	U	C2-N3	-8.64	1.31	1.37
36	1	522	A	C5-C6	-8.63	1.33	1.41
36	1	2911	A	N3-C4	-8.63	1.29	1.34
36	1	1141	C	N1-C6	-8.63	1.31	1.37
85	5	2172	A	N3-C4	-8.63	1.29	1.34
36	1	299	G	N7-C5	-8.63	1.34	1.39
36	1	1111	U	N1-C2	-8.63	1.30	1.38
80	6	1728	A	N3-C4	-8.63	1.29	1.34
85	5	2894	C	N1-C6	-8.63	1.31	1.37
85	5	2671	A	N9-C4	-8.63	1.32	1.37
80	6	15	U	C2-N3	-8.63	1.31	1.37
36	1	197	G	C5-C6	-8.62	1.33	1.42
36	1	1203	A	N9-C4	-8.62	1.32	1.37
80	6	579	A	N3-C4	8.62	1.40	1.34
85	5	1403	C	N1-C6	-8.62	1.31	1.37
36	1	757	C	N1-C6	-8.62	1.31	1.37
80	6	751	G	P-OP2	8.62	1.63	1.49
85	5	3200	G	C5-C6	-8.62	1.33	1.42
36	1	3277	U	C2-O2	8.62	1.30	1.22
85	5	266	A	C6-N1	-8.62	1.29	1.35
36	1	1877	U	C2-O2	-8.62	1.14	1.22
36	1	588	G	C5-C4	-8.62	1.32	1.38
36	1	1112	A	C5-C4	-8.61	1.32	1.38
36	1	1426	C	N1-C6	-8.61	1.31	1.37
38	4	79	A	C6-N1	8.61	1.41	1.35
85	5	1170	A	N9-C8	-8.62	1.30	1.37
85	5	1190	A	C6-N1	-8.61	1.29	1.35
85	5	784	A	N3-C4	-8.61	1.29	1.34
85	5	988	U	N1-C2	-8.61	1.30	1.38
36	1	433	A	C5-C4	-8.61	1.32	1.38
85	5	919	U	N1-C6	-8.61	1.30	1.38
36	1	4	U	C2-N3	8.61	1.43	1.37
36	1	651	G	N1-C2	-8.61	1.30	1.37
85	5	1671	C	P-OP2	8.61	1.63	1.49
36	1	911	C	N1-C6	-8.60	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3011	A	N9-C4	-8.60	1.32	1.37
85	5	408	A	N9-C8	-8.60	1.30	1.37
85	5	1909	A	N7-C5	-8.60	1.34	1.39
85	5	2296	A	C6-N1	-8.60	1.29	1.35
36	1	2413	A	N9-C4	-8.60	1.32	1.37
36	1	3166	C	N1-C6	8.60	1.42	1.37
38	4	138	A	N7-C5	-8.60	1.34	1.39
85	5	2600	C	N1-C6	-8.60	1.31	1.37
85	5	2964	G	C5-C6	8.60	1.50	1.42
1	2	1190	C	N1-C6	-8.59	1.31	1.37
36	1	635	G	N9-C8	-8.59	1.31	1.37
36	1	2408	U	N1-C6	-8.59	1.30	1.38
80	6	1311	U	P-OP2	8.59	1.63	1.49
85	5	1497	C	C4-C5	-8.59	1.36	1.43
85	5	1887	A	N9-C8	-8.59	1.30	1.37
85	5	3183	A	C6-N1	-8.59	1.29	1.35
85	5	2099	A	N3-C4	8.59	1.40	1.34
36	1	2858	U	N1-C2	-8.59	1.30	1.38
36	1	3210	A	C6-N1	-8.59	1.29	1.35
80	6	1121	C	N1-C6	-8.59	1.31	1.37
85	5	2381	G	C5-C6	-8.58	1.33	1.42
85	5	3277	U	N1-C2	8.58	1.46	1.38
36	1	56	G	C5-C4	-8.58	1.32	1.38
36	1	2204	C	N1-C6	-8.58	1.32	1.37
36	1	2140	U	N1-C2	-8.58	1.30	1.38
36	1	2847	A	N7-C5	-8.58	1.34	1.39
36	1	328	U	C2-O2	-8.58	1.14	1.22
38	4	97	A	N3-C4	-8.58	1.29	1.34
85	5	1935	G	C5-C4	8.58	1.44	1.38
85	5	2698	G	C6-N1	-8.58	1.33	1.39
85	5	3102	G	N3-C4	-8.58	1.29	1.35
36	1	33	G	N7-C5	-8.57	1.34	1.39
36	1	2752	U	N3-C4	-8.57	1.30	1.38
85	5	1153	A	C6-N1	-8.57	1.29	1.35
36	1	87	U	N1-C6	-8.57	1.30	1.38
85	5	1171	G	N3-C4	-8.56	1.29	1.35
85	5	3390	G	C5-C6	-8.56	1.33	1.42
36	1	407	A	N9-C4	-8.56	1.32	1.37
36	1	2415	C	N1-C6	-8.56	1.32	1.37
85	5	807	A	N9-C4	-8.56	1.32	1.37
85	5	3184	A	C5-C6	-8.56	1.33	1.41
36	1	402	A	N9-C4	-8.56	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3281	U	N1-C2	8.56	1.46	1.38
85	5	896	A	C5-C4	-8.56	1.32	1.38
85	5	2283	G	N9-C4	-8.56	1.31	1.38
36	1	699	A	C6-N1	-8.55	1.29	1.35
37	3	17	A	N3-C4	-8.56	1.29	1.34
85	5	822	G	N3-C4	-8.56	1.29	1.35
85	5	941	G	N1-C2	-8.56	1.30	1.37
85	5	1316	C	C2'-O2'	8.55	1.52	1.41
85	5	1373	A	N9-C4	-8.55	1.32	1.37
36	1	3261	C	N1-C6	-8.55	1.32	1.37
85	5	2831	G	N7-C5	-8.55	1.34	1.39
85	5	1205	A	N7-C5	-8.55	1.34	1.39
85	5	1851	G	N7-C5	-8.55	1.34	1.39
85	5	2756	C	N1-C2	-8.55	1.31	1.40
36	1	1323	G	N9-C8	-8.55	1.31	1.37
85	5	1477	A	N3-C4	-8.54	1.29	1.34
36	1	726	G	C5-C4	-8.54	1.32	1.38
80	6	1296	A	N9-C4	-8.54	1.32	1.37
85	5	672	A	C5-C4	-8.54	1.32	1.38
36	1	1156	C	N3-C4	-8.54	1.27	1.33
68	O2	35	GLN	CB-CG	-8.54	1.29	1.52
85	5	295	A	C5-C6	-8.54	1.33	1.41
85	5	2315	G	C6-N1	-8.53	1.33	1.39
37	7	80	G	C5-C4	-8.53	1.32	1.38
85	5	2343	C	N1-C6	-8.53	1.32	1.37
85	5	2817	A	C5-C4	-8.53	1.32	1.38
36	1	402	A	C5-C4	-8.53	1.32	1.38
85	5	978	G	N1-C2	-8.53	1.30	1.37
85	5	2389	C	C2-N3	-8.53	1.28	1.35
36	1	934	G	N7-C5	-8.52	1.34	1.39
85	5	343	U	N1-C6	-8.52	1.30	1.38
80	6	1625	C	P-OP2	8.52	1.63	1.49
36	1	1150	A	N9-C4	-8.52	1.32	1.37
38	8	80	A	O3'-P	8.52	1.71	1.61
36	1	1351	U	N3-C4	8.52	1.46	1.38
85	5	2989	U	N1-C2	-8.52	1.30	1.38
36	1	984	G	C5-C6	-8.51	1.33	1.42
36	1	1172	G	N3-C4	-8.51	1.29	1.35
36	1	440	A	C6-N1	8.51	1.41	1.35
85	5	654	C	N1-C6	-8.51	1.32	1.37
36	1	1152	G	N3-C4	-8.51	1.29	1.35
36	1	1603	A	C5-C4	-8.51	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1901	A	C6-N1	-8.51	1.29	1.35
85	5	980	A	C5-C4	8.51	1.44	1.38
36	1	273	A	N9-C4	-8.51	1.32	1.37
36	1	800	G	C2-N3	-8.51	1.25	1.32
80	6	574	G	N9-C8	-8.51	1.31	1.37
85	5	933	A	N3-C4	-8.51	1.29	1.34
85	5	1352	A	N9-C4	8.51	1.43	1.37
38	4	36	G	N3-C4	-8.50	1.29	1.35
36	1	1474	A	N3-C4	-8.50	1.29	1.34
36	1	48	A	N3-C4	-8.50	1.29	1.34
85	5	28	C	N1-C6	-8.50	1.32	1.37
85	5	607	A	N9-C4	-8.50	1.32	1.37
85	5	3015	G	C5-C4	-8.50	1.32	1.38
38	8	80	A	C6-N1	8.49	1.41	1.35
36	1	384	A	N3-C4	-8.49	1.29	1.34
85	5	1404	G	N7-C5	-8.49	1.34	1.39
37	7	14	U	N1-C2	-8.49	1.30	1.38
1	2	1305	A	N9-C4	-8.49	1.32	1.37
85	5	2146	C	N1-C6	-8.49	1.32	1.37
85	5	2646	C	N3-C4	-8.49	1.28	1.33
80	6	1712	A	N9-C4	8.49	1.43	1.37
85	5	3138	U	N1-C2	-8.49	1.30	1.38
1	2	1715	A	N3-C4	-8.48	1.29	1.34
85	5	274	G	C6-N1	8.48	1.45	1.39
52	m6	3	VAL	CB-CG2	8.48	1.70	1.52
36	1	652	G	C6-N1	-8.48	1.33	1.39
36	1	1148	G	N7-C5	-8.48	1.34	1.39
37	3	51	A	N3-C4	8.48	1.40	1.34
36	1	1915	A	C6-N1	-8.48	1.29	1.35
85	5	348	A	N3-C4	-8.48	1.29	1.34
85	5	2900	A	C6-N1	-8.48	1.29	1.35
36	1	2341	A	C5-C4	-8.48	1.32	1.38
80	6	331	A	N3-C4	-8.48	1.29	1.34
36	1	1623	G	P-OP2	8.48	1.63	1.49
85	5	580	C	N3-C4	-8.48	1.28	1.33
85	5	2359	C	C4-C5	-8.48	1.36	1.43
85	5	2652	U	N1-C2	-8.48	1.30	1.38
85	5	2930	A	N9-C4	-8.48	1.32	1.37
85	5	525	C	N1-C6	-8.47	1.32	1.37
85	5	1165	A	C6-N1	-8.47	1.29	1.35
38	8	15	G	P-OP2	8.47	1.63	1.49
85	5	756	U	N1-C6	-8.47	1.30	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	427	C	N1-C6	-8.47	1.32	1.37
85	5	2986	U	N1-C6	-8.47	1.30	1.38
36	1	241	G	C6-N1	8.47	1.45	1.39
80	6	623	A	N9-C4	-8.47	1.32	1.37
1	2	961	A	N3-C4	-8.46	1.29	1.34
36	1	1154	A	N9-C8	-8.46	1.30	1.37
85	5	813	G	C5-C6	-8.46	1.33	1.42
36	1	2808	A	C5-C6	-8.46	1.33	1.41
85	5	358	G	C5-C6	-8.46	1.33	1.42
85	5	20	A	N3-C4	-8.46	1.29	1.34
85	5	2962	U	N1-C2	-8.46	1.30	1.38
85	5	3154	C	N1-C6	8.46	1.42	1.37
36	1	811	U	C2-N3	-8.45	1.31	1.37
85	5	811	U	N1-C6	-8.46	1.30	1.38
36	1	1406	A	C5-C4	-8.45	1.32	1.38
36	1	1410	U	C2-N3	-8.45	1.31	1.37
36	1	2979	U	C2-N3	-8.45	1.31	1.37
36	1	1800	A	N3-C4	-8.45	1.29	1.34
36	1	2197	C	N1-C6	-8.45	1.32	1.37
36	1	895	A	N7-C5	-8.44	1.34	1.39
36	1	907	G	N9-C8	-8.45	1.31	1.37
80	6	757	A	N9-C4	-8.45	1.32	1.37
36	1	2100	A	N3-C4	8.44	1.40	1.34
85	5	1180	A	N3-C4	-8.44	1.29	1.34
85	5	2126	A	N9-C4	-8.44	1.32	1.37
36	1	211	A	N9-C4	-8.44	1.32	1.37
85	5	1137	C	N3-C4	-8.44	1.28	1.33
85	5	1418	A	N7-C5	-8.44	1.34	1.39
85	5	2968	G	N9-C8	-8.44	1.31	1.37
85	5	2276	G	N3-C4	-8.44	1.29	1.35
85	5	2377	G	C6-N1	-8.44	1.33	1.39
85	5	383	G	N1-C2	8.44	1.44	1.37
36	1	2890	A	C6-N1	-8.43	1.29	1.35
38	4	58	G	N9-C8	-8.43	1.31	1.37
85	5	826	G	C5-C4	-8.43	1.32	1.38
37	7	101	G	N3-C4	-8.43	1.29	1.35
36	1	650	C	C4-C5	-8.43	1.36	1.43
85	5	2727	A	N7-C5	-8.43	1.34	1.39
85	5	2909	U	N1-C6	-8.43	1.30	1.38
36	1	656	A	C5-C6	-8.43	1.33	1.41
85	5	2377	G	N9-C8	-8.43	1.31	1.37
85	5	248	U	N1-C2	8.43	1.46	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2273	G	C6-O6	8.43	1.31	1.24
1	2	420	A	C6-N1	-8.43	1.29	1.35
36	1	1306	G	N3-C4	-8.43	1.29	1.35
36	1	3277	U	C2-N3	8.43	1.43	1.37
36	1	1765	U	N1-C2	8.43	1.46	1.38
85	5	774	G	N1-C2	8.43	1.44	1.37
85	5	3375	A	C5-C6	-8.42	1.33	1.41
85	5	1330	A	N7-C5	-8.42	1.34	1.39
57	n1	104	GLU	CB-CG	8.42	1.68	1.52
36	1	1302	A	N9-C4	-8.42	1.32	1.37
85	5	1433	A	N7-C5	-8.42	1.34	1.39
85	5	2692	A	N9-C4	-8.42	1.32	1.37
36	1	2100	A	N9-C4	8.41	1.42	1.37
85	5	2609	A	N9-C8	-8.41	1.31	1.37
36	1	3015	G	N7-C5	-8.41	1.34	1.39
50	M4	64	VAL	CB-CG1	-8.41	1.35	1.52
36	1	1800	A	N9-C4	-8.41	1.32	1.37
36	1	2778	G	N9-C4	-8.41	1.31	1.38
36	1	2363	A	N9-C8	-8.41	1.31	1.37
37	3	72	A	N9-C4	-8.41	1.32	1.37
36	1	1799	A	N3-C4	-8.41	1.29	1.34
36	1	3114	A	C6-N1	-8.41	1.29	1.35
85	5	645	A	N3-C4	-8.41	1.29	1.34
85	5	2732	G	N3-C4	-8.41	1.29	1.35
36	1	307	A	N3-C4	-8.40	1.29	1.34
85	5	512	U	C2-N3	-8.40	1.31	1.37
85	5	2156	C	N1-C6	-8.40	1.32	1.37
85	5	909	G	N3-C4	-8.40	1.29	1.35
85	5	2294	U	N1-C2	-8.40	1.30	1.38
85	5	3103	A	N3-C4	-8.40	1.29	1.34
36	1	3338	C	N1-C6	8.40	1.42	1.37
85	5	1078	U	C4-O4	8.40	1.30	1.23
85	5	2093	A	N9-C8	8.40	1.44	1.37
85	5	2345	A	N9-C4	-8.40	1.32	1.37
1	2	1107	A	N9-C4	-8.39	1.32	1.37
36	1	956	U	N1-C2	-8.39	1.30	1.38
36	1	2733	A	N3-C4	-8.39	1.29	1.34
37	3	95	A	C6-N1	-8.39	1.29	1.35
85	5	1104	G	C6-N1	-8.39	1.33	1.39
36	1	640	U	C2-O2	-8.39	1.14	1.22
36	1	1162	U	N1-C6	-8.39	1.30	1.38
85	5	3103	A	N9-C4	-8.39	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3272	C	N1-C2	-8.39	1.31	1.40
85	5	2987	A	N9-C8	-8.39	1.31	1.37
38	4	92	A	N3-C4	-8.38	1.29	1.34
85	5	651	G	N7-C5	-8.38	1.34	1.39
85	5	957	C	N3-C4	-8.38	1.28	1.33
85	5	2136	C	N1-C6	-8.38	1.32	1.37
85	5	2736	A	N9-C4	-8.38	1.32	1.37
36	1	640	U	N3-C4	-8.38	1.30	1.38
38	4	47	C	C2-N3	-8.38	1.29	1.35
85	5	1949	G	C6-N1	8.38	1.45	1.39
36	1	2222	A	N9-C4	-8.38	1.32	1.37
85	5	2282	U	C2-O2	-8.38	1.14	1.22
38	8	23	U	N3-C4	-8.38	1.30	1.38
36	1	1905	G	N7-C5	-8.38	1.34	1.39
36	1	2847	A	C5-C6	-8.38	1.33	1.41
85	5	2407	C	N1-C2	-8.37	1.31	1.40
38	4	104	A	N7-C5	-8.37	1.34	1.39
36	1	703	G	N1-C2	-8.37	1.31	1.37
36	1	1799	A	C6-N1	-8.37	1.29	1.35
36	1	2401	A	C5-C6	-8.37	1.33	1.41
85	5	2956	A	C3'-C2'	8.37	1.62	1.52
36	1	2150	G	N7-C5	-8.37	1.34	1.39
36	1	726	G	C6-N1	-8.37	1.33	1.39
36	1	1765	U	C2-N3	8.37	1.43	1.37
85	5	1003	A	N3-C4	-8.37	1.29	1.34
85	5	2402	A	C6-N1	-8.37	1.29	1.35
37	3	103	A	N9-C4	-8.36	1.32	1.37
36	1	2180	G	N7-C5	-8.36	1.34	1.39
85	5	2569	A	N9-C4	8.36	1.42	1.37
38	8	137	C	N1-C2	-8.36	1.31	1.40
85	5	896	A	N7-C5	-8.36	1.34	1.39
36	1	812	G	C5-C4	-8.36	1.32	1.38
36	1	645	A	N3-C4	-8.36	1.29	1.34
85	5	1654	A	N3-C4	-8.36	1.29	1.34
85	5	3035	A	C5-C4	-8.36	1.32	1.38
85	5	2745	G	C6-O6	8.36	1.31	1.24
80	6	1081	A	N3-C4	8.35	1.39	1.34
36	1	1371	G	C6-N1	-8.35	1.33	1.39
85	5	391	A	N9-C4	-8.35	1.32	1.37
85	5	616	G	C6-O6	8.35	1.31	1.24
85	5	2321	A	N9-C4	-8.35	1.32	1.37
44	17	235	PHE	CB-CG	-8.35	1.37	1.51

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1157	G	N9-C8	-8.35	1.32	1.37
85	5	1281	G	N9-C8	8.35	1.43	1.37
85	5	1328	C	N1-C6	-8.35	1.32	1.37
85	5	2339	C	C4-C5	-8.35	1.36	1.43
85	5	2615	G	C5-C6	-8.35	1.34	1.42
36	1	980	A	N3-C4	8.35	1.39	1.34
36	1	2938	G	N7-C5	-8.35	1.34	1.39
80	6	295	A	N9-C8	-8.35	1.31	1.37
85	5	39	A	C6-N1	-8.35	1.29	1.35
36	1	1330	A	N3-C4	-8.34	1.29	1.34
85	5	2833	A	C6-N1	-8.34	1.29	1.35
1	2	505	A	N9-C4	8.34	1.42	1.37
80	6	1643	U	C2-N3	-8.34	1.31	1.37
85	5	361	A	C6-N1	-8.34	1.29	1.35
85	5	1107	C	N1-C6	-8.34	1.32	1.37
85	5	1887	A	N3-C4	-8.34	1.29	1.34
36	1	2957	G	C5-C4	-8.34	1.32	1.38
85	5	390	G	N7-C5	-8.34	1.34	1.39
85	5	814	U	C2-N3	-8.34	1.31	1.37
85	5	2987	A	N9-C4	-8.34	1.32	1.37
85	5	883	A	N3-C4	-8.34	1.29	1.34
36	1	434	U	C2-N3	-8.34	1.31	1.37
85	5	2172	A	N7-C5	-8.34	1.34	1.39
38	8	44	A	N7-C5	-8.34	1.34	1.39
85	5	656	A	C5-C6	-8.34	1.33	1.41
36	1	2885	C	N1-C6	-8.33	1.32	1.37
36	1	3123	A	N3-C4	-8.33	1.29	1.34
80	6	1665	U	N1-C2	-8.33	1.31	1.38
80	6	1755	A	P-OP2	8.33	1.63	1.49
85	5	3083	G	N1-C2	-8.33	1.31	1.37
36	1	369	A	C5-C6	-8.33	1.33	1.41
85	5	997	A	C6-N1	-8.33	1.29	1.35
1	2	776	A	N3-C4	8.33	1.39	1.34
36	1	642	U	C2-N3	-8.33	1.31	1.37
85	5	2379	U	N3-C4	-8.33	1.30	1.38
85	5	3136	G	C6-N1	-8.33	1.33	1.39
85	5	2256	A	C6-N1	8.33	1.41	1.35
1	2	67	A	N9-C4	-8.32	1.32	1.37
85	5	1528	G	C6-N1	-8.32	1.33	1.39
85	5	607	A	C6-N1	-8.32	1.29	1.35
85	5	2523	A	N9-C4	8.32	1.42	1.37
85	5	1871	U	C2-N3	-8.32	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3243	A	N7-C5	-8.32	1.34	1.39
36	1	21	G	N3-C4	-8.31	1.29	1.35
36	1	2767	U	C2-N3	-8.31	1.31	1.37
85	5	2892	A	N7-C5	-8.31	1.34	1.39
85	5	3178	A	N9-C8	-8.31	1.31	1.37
85	5	273	A	N9-C4	-8.31	1.32	1.37
85	5	1312	C	N1-C6	-8.31	1.32	1.37
85	5	1429	G	N3-C4	-8.31	1.29	1.35
85	5	2147	A	N7-C5	-8.31	1.34	1.39
36	1	2847	A	N3-C4	-8.31	1.29	1.34
85	5	2620	G	C5-C6	-8.31	1.34	1.42
85	5	2860	U	C2-O2	8.31	1.29	1.22
36	1	2385	G	N9-C8	-8.31	1.32	1.37
85	5	1349	G	C6-N1	8.31	1.45	1.39
85	5	2394	G	N7-C5	-8.30	1.34	1.39
38	8	79	A	N9-C8	8.30	1.44	1.37
36	1	110	G	N3-C4	-8.30	1.29	1.35
36	1	1360	C	N1-C6	-8.30	1.32	1.37
85	5	1408	G	N9-C8	-8.30	1.32	1.37
85	5	2785	A	N9-C4	-8.30	1.32	1.37
36	1	2381	G	N3-C4	-8.29	1.29	1.35
80	6	682	C	N1-C6	8.29	1.42	1.37
36	1	283	G	C5-C6	-8.29	1.34	1.42
1	2	338	C	N1-C6	-8.29	1.32	1.37
36	1	3318	G	C6-N1	-8.29	1.33	1.39
85	5	306	A	N3-C4	-8.29	1.29	1.34
85	5	417	A	N9-C8	-8.29	1.31	1.37
85	5	1166	G	N9-C8	-8.29	1.32	1.37
85	5	301	G	N9-C8	-8.29	1.32	1.37
85	5	1727	G	C6-N1	-8.29	1.33	1.39
85	5	3050	U	C2-N3	-8.29	1.31	1.37
36	1	2414	G	N3-C4	-8.29	1.29	1.35
36	1	2800	G	N7-C5	-8.29	1.34	1.39
80	6	83	G	C6-N1	8.29	1.45	1.39
80	6	1778	G	N9-C8	-8.28	1.32	1.37
85	5	2847	A	N9-C8	-8.29	1.31	1.37
85	5	2976	A	N3-C4	-8.28	1.29	1.34
17	C5	50	THR	CA-CB	8.28	1.74	1.53
80	6	1030	A	N9-C4	-8.28	1.32	1.37
85	5	94	G	N9-C8	-8.28	1.32	1.37
85	5	1129	A	N9-C4	-8.28	1.32	1.37
38	8	21	C	N3-C4	-8.28	1.28	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1498	G	C5-C4	8.28	1.44	1.38
85	5	2239	G	C6-N1	-8.28	1.33	1.39
85	5	3318	G	N3-C4	-8.28	1.29	1.35
85	5	1454	A	N7-C5	-8.28	1.34	1.39
36	1	2374	C	N1-C6	-8.28	1.32	1.37
38	4	13	A	N7-C5	-8.28	1.34	1.39
85	5	273	A	N3-C4	-8.28	1.29	1.34
85	5	3177	G	N3-C4	-8.28	1.29	1.35
38	4	53	A	C6-N1	-8.27	1.29	1.35
85	5	358	G	N7-C5	-8.27	1.34	1.39
85	5	806	A	N9-C4	-8.27	1.32	1.37
85	5	2671	A	N3-C4	-8.27	1.29	1.34
85	5	49	A	C5-C6	-8.27	1.33	1.41
85	5	418	A	C5-C6	-8.27	1.33	1.41
85	5	798	G	C5-C6	-8.27	1.34	1.42
85	5	3088	G	N3-C4	-8.27	1.29	1.35
85	5	3361	G	C6-O6	8.27	1.31	1.24
36	1	499	G	C5-C6	-8.27	1.34	1.42
36	1	1401	A	C6-N1	-8.27	1.29	1.35
36	1	975	C	N1-C6	-8.27	1.32	1.37
36	1	994	G	C6-N1	-8.27	1.33	1.39
36	1	1312	C	N1-C6	-8.27	1.32	1.37
85	5	1477	A	N7-C5	-8.27	1.34	1.39
36	1	94	G	C5-C4	-8.27	1.32	1.38
36	1	1115	G	N3-C4	-8.26	1.29	1.35
36	1	1923	C	N1-C6	-8.26	1.32	1.37
71	O5	64	GLU	CG-CD	8.26	1.64	1.51
80	6	543	C	N1-C6	8.26	1.42	1.37
85	5	519	A	N9-C4	-8.26	1.32	1.37
85	5	1177	G	N1-C2	-8.26	1.31	1.37
85	5	2136	C	C2-O2	-8.26	1.17	1.24
36	1	684	G	C5-C6	-8.26	1.34	1.42
36	1	1476	G	C5-C4	-8.26	1.32	1.38
36	1	2137	U	C2-N3	-8.26	1.31	1.37
1	2	1638	A	C6-N1	-8.26	1.29	1.35
36	1	1197	A	C5-C4	-8.26	1.32	1.38
85	5	976	U	C2-N3	-8.26	1.31	1.37
85	5	2929	C	C2-N3	-8.26	1.29	1.35
85	5	2714	G	N3-C4	-8.26	1.29	1.35
85	5	2885	C	N3-C4	-8.26	1.28	1.33
85	5	1199	C	N1-C6	-8.25	1.32	1.37
85	5	2404	A	N3-C4	8.25	1.39	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2645	G	N3-C4	-8.25	1.29	1.35
36	1	44	U	N3-C4	-8.24	1.31	1.38
36	1	1311	G	N9-C8	-8.24	1.32	1.37
85	5	283	G	C5-C6	-8.24	1.34	1.42
85	5	630	A	C6-N1	-8.24	1.29	1.35
85	5	2880	U	N3-C4	-8.24	1.31	1.38
37	7	84	A	C6-N1	-8.24	1.29	1.35
36	1	2214	A	N3-C4	-8.24	1.29	1.34
85	5	511	G	N7-C5	-8.24	1.34	1.39
85	5	3336	A	N9-C4	-8.24	1.32	1.37
36	1	652	G	N3-C4	-8.24	1.29	1.35
85	5	1491	A	C5-C4	-8.24	1.32	1.38
36	1	357	A	N7-C5	-8.24	1.34	1.39
36	1	2933	A	N7-C5	-8.24	1.34	1.39
38	4	40	A	N7-C5	-8.24	1.34	1.39
80	6	1300	A	N3-C4	-8.24	1.29	1.34
85	5	978	G	C6-N1	-8.24	1.33	1.39
85	5	3147	G	P-OP1	8.23	1.62	1.49
36	1	882	A	N3-C4	-8.23	1.29	1.34
36	1	2752	U	C2-N3	-8.23	1.31	1.37
36	1	2823	G	N9-C8	-8.23	1.32	1.37
85	5	1896	A	N3-C4	-8.23	1.29	1.34
85	5	2198	A	N9-C4	-8.23	1.32	1.37
85	5	751	A	N9-C4	-8.23	1.32	1.37
85	5	1902	G	N7-C5	-8.23	1.34	1.39
85	5	2393	G	N3-C4	-8.23	1.29	1.35
85	5	1135	A	N7-C5	-8.23	1.34	1.39
37	7	88	G	N3-C4	-8.22	1.29	1.35
85	5	2978	U	N1-C2	8.22	1.46	1.38
36	1	411	U	N1-C2	-8.22	1.31	1.38
80	6	1645	G	C2-N3	-8.22	1.26	1.32
36	1	644	G	C6-N1	-8.22	1.33	1.39
85	5	2906	C	P-OP1	8.22	1.62	1.49
37	7	88	G	C6-N1	-8.22	1.33	1.39
36	1	1450	G	C6-N1	-8.21	1.33	1.39
36	1	2906	C	N1-C6	-8.21	1.32	1.37
36	1	71	A	C6-N1	-8.21	1.29	1.35
36	1	894	G	C6-N1	-8.21	1.33	1.39
36	1	2691	A	N9-C4	-8.21	1.32	1.37
85	5	809	G	N7-C5	-8.21	1.34	1.39
85	5	812	G	N3-C4	-8.21	1.29	1.35
85	5	999	G	N7-C5	-8.21	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2804	A	N9-C4	-8.21	1.32	1.37
36	1	2946	A	C6-N1	-8.21	1.29	1.35
85	5	2939	G	C6-N1	-8.21	1.33	1.39
64	n8	46	ASP	CB-CG	8.21	1.69	1.51
85	5	1907	C	C2-O2	-8.21	1.17	1.24
36	1	2522	G	C5-C4	8.21	1.44	1.38
36	1	2343	C	N1-C6	-8.20	1.32	1.37
36	1	619	A	C6-N1	8.20	1.41	1.35
80	6	436	A	N9-C4	-8.20	1.32	1.37
85	5	970	A	N9-C8	-8.20	1.31	1.37
85	5	2819	A	C5-C4	-8.20	1.33	1.38
85	5	2957	G	C5-C4	-8.20	1.32	1.38
36	1	437	G	N3-C4	8.20	1.41	1.35
47	M0	213	PHE	C-N	8.20	1.49	1.34
1	2	1789	A	N9-C4	8.20	1.42	1.37
36	1	2991	A	N3-C4	-8.20	1.29	1.34
36	1	3010	U	C2-N3	-8.19	1.32	1.37
85	5	933	A	C6-N1	-8.20	1.29	1.35
85	5	2377	G	N3-C4	-8.20	1.29	1.35
36	1	656	A	N3-C4	-8.19	1.29	1.34
36	1	952	A	C6-N1	-8.19	1.29	1.35
36	1	1512	U	N1-C2	-8.19	1.31	1.38
85	5	1303	A	N7-C5	-8.19	1.34	1.39
85	5	2609	A	C5-C4	-8.19	1.33	1.38
85	5	2369	G	C6-N1	-8.19	1.33	1.39
43	L6	109	GLU	CG-CD	8.19	1.64	1.51
85	5	2375	G	C6-N1	-8.19	1.33	1.39
36	1	94	G	N1-C2	-8.18	1.31	1.37
36	1	274	G	N3-C4	-8.18	1.29	1.35
36	1	711	A	N9-C8	-8.18	1.31	1.37
85	5	863	C	N1-C6	-8.18	1.32	1.37
85	5	880	G	C5-C4	-8.18	1.32	1.38
36	1	658	G	N3-C4	-8.18	1.29	1.35
36	1	1418	A	N9-C4	-8.18	1.32	1.37
38	4	96	A	N3-C4	-8.18	1.29	1.34
85	5	2862	U	C2-N3	-8.18	1.32	1.37
85	5	3312	U	N3-C4	8.18	1.45	1.38
38	8	80	A	N3-C4	8.18	1.39	1.34
36	1	319	A	C6-N1	-8.18	1.29	1.35
73	o7	88	ALA	CA-CB	8.18	1.69	1.52
36	1	1427	U	N1-C6	-8.17	1.30	1.38
36	1	1613	A	N7-C5	-8.17	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1765	U	N3-C4	8.17	1.45	1.38
85	5	1143	A	N9-C4	-8.17	1.32	1.37
36	1	914	A	C6-N1	-8.17	1.29	1.35
85	5	342	A	C5-C4	-8.17	1.33	1.38
85	5	2328	U	N1-C2	-8.17	1.31	1.38
36	1	2817	A	C5-C4	-8.17	1.33	1.38
36	1	2933	A	N9-C4	-8.17	1.32	1.37
85	5	147	U	N1-C2	-8.17	1.31	1.38
85	5	924	G	C6-N1	-8.17	1.33	1.39
80	6	451	A	N9-C4	-8.16	1.32	1.37
1	2	1010	A	C5-C6	-8.16	1.33	1.41
36	1	28	C	N1-C6	-8.16	1.32	1.37
85	5	584	G	N9-C8	-8.16	1.32	1.37
36	1	2296	A	N9-C8	-8.16	1.31	1.37
36	1	2945	G	C5-C6	-8.16	1.34	1.42
36	1	857	G	N3-C4	-8.16	1.29	1.35
38	8	63	G	N3-C4	-8.16	1.29	1.35
36	1	1094	U	N1-C2	8.16	1.45	1.38
36	1	408	A	N9-C8	-8.15	1.31	1.37
36	1	414	U	C2-N3	-8.15	1.32	1.37
36	1	1147	G	N3-C4	-8.15	1.29	1.35
36	1	1536	G	N3-C4	-8.15	1.29	1.35
85	5	519	A	C5-C4	-8.15	1.33	1.38
85	5	695	C	N1-C6	-8.15	1.32	1.37
85	5	3195	U	N1-C2	8.15	1.45	1.38
85	5	3198	U	C4-C5	-8.15	1.36	1.43
36	1	859	G	N7-C5	-8.15	1.34	1.39
36	1	2111	G	N9-C8	-8.15	1.32	1.37
36	1	2119	A	C5-C6	-8.15	1.33	1.41
80	6	919	A	N7-C5	-8.15	1.34	1.39
85	5	1155	C	N1-C6	-8.15	1.32	1.37
36	1	391	A	N9-C4	8.15	1.42	1.37
85	5	907	G	C5-C4	-8.15	1.32	1.38
85	5	1302	A	C5-C4	-8.15	1.33	1.38
85	5	1370	G	N1-C2	-8.15	1.31	1.37
36	1	2207	A	C6-N1	8.14	1.41	1.35
36	1	2409	G	N7-C5	-8.14	1.34	1.39
40	L3	255	TRP	CE3-CZ3	-8.14	1.24	1.38
85	5	2189	U	N1-C2	-8.14	1.31	1.38
80	6	1100	G	C6-N1	-8.14	1.33	1.39
85	5	3048	A	N7-C5	-8.14	1.34	1.39
36	1	423	A	N9-C4	-8.14	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1311	G	N7-C5	-8.14	1.34	1.39
36	1	2987	A	N9-C8	-8.14	1.31	1.37
85	5	1473	G	N9-C8	-8.14	1.32	1.37
37	7	73	C	N3-C4	8.14	1.39	1.33
36	1	2373	A	N3-C4	-8.13	1.29	1.34
36	1	2987	A	N9-C4	-8.13	1.32	1.37
80	6	1133	A	N9-C4	-8.14	1.32	1.37
85	5	1887	A	C5-C6	-8.14	1.33	1.41
85	5	2324	A	C5-C6	-8.13	1.33	1.41
85	5	2409	G	N1-C2	-8.13	1.31	1.37
36	1	13	A	N7-C5	-8.13	1.34	1.39
36	1	701	G	N9-C8	-8.13	1.32	1.37
36	1	1430	U	N1-C2	-8.13	1.31	1.38
80	6	570	A	N7-C5	-8.13	1.34	1.39
37	7	63	A	C6-N1	8.13	1.41	1.35
36	1	159	A	N9-C4	-8.13	1.32	1.37
80	6	561	G	P-OP2	8.13	1.62	1.49
80	6	1748	G	N9-C8	-8.13	1.32	1.37
85	5	1093	A	N7-C5	8.13	1.44	1.39
37	7	45	A	C6-N1	-8.13	1.29	1.35
85	5	1634	G	N7-C5	-8.13	1.34	1.39
85	5	498	A	N3-C4	-8.13	1.29	1.34
36	1	1657	C	N1-C6	-8.12	1.32	1.37
85	5	1886	A	N9-C4	-8.12	1.32	1.37
85	5	2850	G	N3-C4	-8.12	1.29	1.35
36	1	3265	C	N1-C2	-8.12	1.32	1.40
85	5	1356	U	C2-O2	8.12	1.29	1.22
80	6	54	C	C4-C5	8.12	1.49	1.43
80	6	1649	G	N9-C4	-8.12	1.31	1.38
1	2	1640	U	N1-C2	8.12	1.45	1.38
80	6	49	C	N1-C6	-8.12	1.32	1.37
85	5	780	A	N7-C5	-8.11	1.34	1.39
85	5	2185	G	N9-C8	-8.12	1.32	1.37
36	1	905	U	N1-C2	-8.11	1.31	1.38
36	1	936	A	C6-N1	-8.11	1.29	1.35
36	1	2908	G	C5-C4	-8.11	1.32	1.38
85	5	2698	G	N3-C4	-8.11	1.29	1.35
85	5	647	A	N9-C4	-8.11	1.32	1.37
85	5	1315	U	C2-N3	-8.11	1.32	1.37
80	6	347	G	N9-C8	-8.10	1.32	1.37
80	6	1122	G	N9-C8	-8.10	1.32	1.37
85	5	660	A	C6-N1	-8.10	1.29	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1053	A	N3-C4	-8.10	1.29	1.34
85	5	1307	G	N7-C5	-8.10	1.34	1.39
85	5	2715	A	N3-C4	-8.10	1.29	1.34
36	1	1433	A	N7-C5	-8.10	1.34	1.39
85	5	1117	G	N3-C4	-8.10	1.29	1.35
85	5	2786	G	N3-C4	-8.10	1.29	1.35
85	5	36	C	N1-C6	-8.10	1.32	1.37
36	1	341	G	N7-C5	-8.10	1.34	1.39
36	1	578	A	N3-C4	-8.10	1.29	1.34
85	5	887	G	N7-C5	-8.10	1.34	1.39
85	5	3047	U	N3-C4	-8.10	1.31	1.38
36	1	2954	U	N1-C6	-8.10	1.30	1.38
85	5	995	U	C2-O2	-8.10	1.15	1.22
36	1	1371	G	C5-C4	-8.09	1.32	1.38
36	1	2853	A	N9-C4	-8.09	1.32	1.37
36	1	2919	A	C5-C6	-8.09	1.33	1.41
37	7	101	G	C5-C4	-8.09	1.32	1.38
1	2	420	A	N3-C4	-8.09	1.29	1.34
85	5	908	G	N7-C5	-8.09	1.34	1.39
36	1	911	C	C2-O2	-8.09	1.17	1.24
36	1	986	U	C4-O4	-8.09	1.17	1.23
36	1	3046	A	N9-C8	-8.09	1.31	1.37
40	l3	262	TRP	CB-CG	-8.09	1.35	1.50
64	n8	52	TYR	CD2-CE2	-8.09	1.27	1.39
36	1	1511	U	N1-C2	-8.09	1.31	1.38
36	1	3210	A	N3-C4	-8.09	1.29	1.34
80	6	419	G	C8-N7	8.08	1.35	1.30
85	5	2871	G	C5-C4	8.08	1.44	1.38
36	1	2610	G	N3-C4	-8.08	1.29	1.35
85	5	2981	U	C2-O2	-8.08	1.15	1.22
85	5	421	G	N3-C4	-8.08	1.29	1.35
85	5	634	C	C2-N3	-8.08	1.29	1.35
85	5	2653	C	N1-C2	-8.08	1.32	1.40
85	5	2864	A	N1-C2	-8.08	1.27	1.34
36	1	419	G	N9-C8	-8.07	1.32	1.37
36	1	900	G	N7-C5	-8.07	1.34	1.39
85	5	644	G	N3-C4	-8.07	1.29	1.35
85	5	1180	A	C5-C4	-8.07	1.33	1.38
85	5	2957	G	N7-C5	-8.07	1.34	1.39
85	5	2980	U	C2-O2	-8.07	1.15	1.22
36	1	1372	C	C2-N3	-8.07	1.29	1.35
36	1	2222	A	C6-N1	-8.07	1.29	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1594	A	N3-C4	-8.07	1.30	1.34
85	5	721	G	C6-N1	8.07	1.45	1.39
85	5	2619	G	N1-C2	-8.07	1.31	1.37
85	5	1124	U	C4-C5	8.06	1.50	1.43
36	1	1723	A	N7-C5	-8.06	1.34	1.39
85	5	498	A	N9-C4	-8.06	1.33	1.37
85	5	431	U	C4-O4	8.06	1.30	1.23
85	5	1850	A	N9-C8	-8.06	1.31	1.37
85	5	3273	A	N9-C4	-8.06	1.33	1.37
36	1	45	A	N3-C4	-8.06	1.30	1.34
36	1	1936	A	N3-C4	-8.06	1.30	1.34
85	5	895	A	N7-C5	-8.06	1.34	1.39
85	5	1408	G	N7-C5	-8.06	1.34	1.39
85	5	2190	U	N1-C6	-8.06	1.30	1.38
85	5	2933	A	C5-C4	-8.05	1.33	1.38
85	5	1301	A	N7-C5	-8.05	1.34	1.39
85	5	1651	U	C4-O4	8.05	1.30	1.23
1	2	1113	G	N7-C5	-8.05	1.34	1.39
1	2	1640	U	N1-C6	8.05	1.45	1.38
36	1	2349	U	C2-N3	-8.05	1.32	1.37
80	6	336	G	N7-C5	-8.05	1.34	1.39
85	5	430	U	N1-C2	-8.05	1.31	1.38
85	5	1432	C	C4-N4	-8.05	1.26	1.33
85	5	2386	A	N3-C4	-8.05	1.30	1.34
36	1	47	C	N1-C6	-8.05	1.32	1.37
36	1	1103	A	C6-N1	8.05	1.41	1.35
36	1	1891	A	N9-C8	-8.05	1.31	1.37
36	1	653	A	C5-C4	-8.04	1.33	1.38
36	1	1906	G	N7-C5	-8.05	1.34	1.39
85	5	1757	A	N9-C4	8.05	1.42	1.37
85	5	1764	U	C2-N3	8.05	1.43	1.37
80	6	1081	A	C5-C4	8.04	1.44	1.38
36	1	1431	G	N3-C4	-8.04	1.29	1.35
36	1	2650	U	N3-C4	-8.04	1.31	1.38
85	5	774	G	C5-C4	8.04	1.44	1.38
85	5	1295	G	C6-N1	-8.04	1.33	1.39
85	5	2320	A	N7-C5	-8.04	1.34	1.39
38	8	20	U	N1-C6	-8.04	1.30	1.38
80	6	1777	G	N3-C4	-8.04	1.29	1.35
1	2	1096	A	N7-C5	-8.04	1.34	1.39
36	1	1142	G	C5-C4	-8.04	1.32	1.38
41	L4	52	VAL	CB-CG1	-8.04	1.35	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	645	C	N1-C6	8.03	1.42	1.37
36	1	30	G	C6-N1	-8.03	1.33	1.39
85	5	560	G	N7-C5	-8.03	1.34	1.39
85	5	1413	G	C8-N7	8.03	1.35	1.30
85	5	3010	U	N3-C4	-8.03	1.31	1.38
85	5	61	A	N9-C4	-8.03	1.33	1.37
85	5	3124	G	N3-C4	-8.03	1.29	1.35
36	1	2956	A	N3-C4	-8.03	1.30	1.34
80	6	1161	C	N3-C4	-8.03	1.28	1.33
85	5	2399	A	N7-C5	-8.03	1.34	1.39
85	5	2896	A	N9-C4	-8.03	1.33	1.37
36	1	583	G	N9-C8	-8.02	1.32	1.37
36	1	2408	U	C2-N3	-8.02	1.32	1.37
85	5	999	G	N9-C4	-8.02	1.31	1.38
85	5	2828	G	N7-C5	-8.02	1.34	1.39
36	1	361	A	C5-C4	-8.02	1.33	1.38
36	1	619	A	N3-C4	8.02	1.39	1.34
85	5	1133	A	N9-C8	-8.02	1.31	1.37
85	5	3371	G	C5-C4	-8.02	1.32	1.38
41	L4	261	VAL	CB-CG2	-8.02	1.36	1.52
85	5	653	A	C5-C4	-8.02	1.33	1.38
85	5	1524	A	N7-C5	-8.02	1.34	1.39
85	5	1448	U	N1-C6	-8.01	1.30	1.38
36	1	1132	C	N1-C6	-8.01	1.32	1.37
36	1	2524	A	N9-C4	-8.01	1.33	1.37
85	5	711	A	N3-C4	-8.01	1.30	1.34
85	5	194	U	N3-C4	-8.01	1.31	1.38
1	2	1064	A	N3-C4	8.01	1.39	1.34
85	5	1235	U	C2'-O2'	8.01	1.52	1.41
36	1	1655	G	N3-C4	-8.00	1.29	1.35
85	5	2876	C	N3-C4	-8.00	1.28	1.33
85	5	3275	U	C2-N3	8.00	1.43	1.37
85	5	3144	G	P-OP2	8.00	1.62	1.49
36	1	57	A	N7-C5	-8.00	1.34	1.39
36	1	364	G	N9-C4	-8.00	1.31	1.38
85	5	592	A	N7-C5	-8.00	1.34	1.39
85	5	2875	U	N1-C2	-8.00	1.31	1.38
36	1	2337	C	N1-C2	-8.00	1.32	1.40
36	1	3142	A	C6-N1	-8.00	1.29	1.35
36	1	706	A	N9-C4	-7.99	1.33	1.37
36	1	962	A	N7-C5	-7.99	1.34	1.39
36	1	2773	C	N1-C6	-7.99	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1155	G	N9-C8	7.99	1.43	1.37
85	5	430	U	P-OP2	7.99	1.62	1.49
38	8	17	A	N7-C5	-7.99	1.34	1.39
85	5	2404	A	C6-N1	7.99	1.41	1.35
36	1	895	A	N3-C4	-7.99	1.30	1.34
36	1	2805	G	C8-N7	-7.99	1.26	1.30
85	5	2505	U	N1-C2	7.99	1.45	1.38
85	5	11	A	N3-C4	-7.99	1.30	1.34
85	5	938	C	N1-C2	-7.99	1.32	1.40
36	1	936	A	N7-C5	-7.99	1.34	1.39
36	1	655	C	N1-C6	-7.99	1.32	1.37
36	1	700	C	N1-C6	-7.99	1.32	1.37
85	5	2883	U	N1-C2	-7.99	1.31	1.38
85	5	408	A	N9-C4	-7.98	1.33	1.37
36	1	803	C	N1-C2	-7.98	1.32	1.40
80	6	1070	C	C5-C6	7.98	1.40	1.34
85	5	2646	C	C2-N3	-7.98	1.29	1.35
36	1	1673	G	N3-C4	-7.98	1.29	1.35
36	1	2682	C	N1-C6	-7.98	1.32	1.37
80	6	943	C	P-OP1	7.98	1.62	1.49
85	5	1372	C	N3-C4	-7.98	1.28	1.33
37	7	92	A	C5-C4	-7.98	1.33	1.38
85	5	2540	A	N9-C4	7.98	1.42	1.37
36	1	1341	U	N1-C6	-7.98	1.30	1.38
85	5	666	A	N3-C4	-7.98	1.30	1.34
85	5	1313	G	N9-C8	-7.98	1.32	1.37
36	1	1933	A	N3-C4	-7.98	1.30	1.34
36	1	1136	A	N9-C4	-7.97	1.33	1.37
85	5	2300	G	N1-C2	-7.97	1.31	1.37
36	1	2096	A	N9-C4	7.97	1.42	1.37
36	1	2800	G	N9-C8	-7.97	1.32	1.37
36	1	2945	G	N9-C4	-7.97	1.31	1.38
85	5	1477	A	N9-C4	-7.97	1.33	1.37
36	1	2939	G	C6-N1	-7.97	1.33	1.39
36	1	635	G	N7-C5	-7.97	1.34	1.39
80	6	333	A	C6-N1	-7.97	1.29	1.35
80	6	1742	U	N1-C2	-7.97	1.31	1.38
85	5	1047	A	N7-C5	-7.97	1.34	1.39
37	7	94	C	C2-N3	-7.97	1.29	1.35
36	1	1772	U	C2-N3	-7.96	1.32	1.37
85	5	1915	A	C6-N1	-7.96	1.29	1.35
36	1	2379	U	N1-C6	-7.96	1.30	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2288	G	N1-C2	-7.96	1.31	1.37
37	7	80	G	N3-C4	-7.96	1.29	1.35
85	5	3106	A	N7-C5	-7.96	1.34	1.39
85	5	2957	G	N9-C4	-7.96	1.31	1.38
85	5	1851	G	N9-C8	-7.95	1.32	1.37
85	5	2145	A	N7-C5	-7.95	1.34	1.39
85	5	2623	G	C5-C4	-7.95	1.32	1.38
85	5	1193	A	C6-N1	-7.95	1.29	1.35
36	1	342	A	C5-C4	-7.95	1.33	1.38
36	1	2607	G	C8-N7	-7.95	1.26	1.30
36	1	2647	A	C5-C6	-7.95	1.33	1.41
36	1	1346	G	N9-C4	-7.95	1.31	1.38
36	1	2201	G	C5-C6	-7.95	1.34	1.42
85	5	2733	A	N9-C8	-7.95	1.31	1.37
36	1	429	U	N1-C6	-7.95	1.30	1.38
36	1	1915	A	N3-C4	-7.95	1.30	1.34
85	5	1177	G	N3-C4	-7.95	1.29	1.35
85	5	2808	A	N3-C4	-7.95	1.30	1.34
85	5	3278	C	N3-C4	7.95	1.39	1.33
36	1	1057	A	C6-N1	-7.94	1.29	1.35
36	1	810	A	N9-C4	-7.94	1.33	1.37
36	1	1345	G	N9-C4	-7.94	1.31	1.38
85	5	1904	C	C2-N3	-7.94	1.29	1.35
36	1	1886	A	N9-C4	-7.94	1.33	1.37
36	1	952	A	N9-C4	-7.94	1.33	1.37
36	1	936	A	N9-C4	-7.94	1.33	1.37
36	1	1764	U	C2-N3	7.94	1.43	1.37
85	5	1371	G	N9-C4	-7.94	1.31	1.38
85	5	1420	C	N3-C4	-7.94	1.28	1.33
85	5	1589	A	N7-C5	-7.94	1.34	1.39
38	4	115	C	N1-C6	-7.94	1.32	1.37
36	1	405	U	C4-C5	-7.93	1.36	1.43
80	6	1649	G	N9-C8	7.93	1.43	1.37
80	6	1745	G	N9-C8	-7.93	1.32	1.37
36	1	2130	G	N7-C5	-7.93	1.34	1.39
36	1	2165	G	N7-C5	-7.93	1.34	1.39
85	5	197	G	N7-C5	-7.93	1.34	1.39
85	5	958	C	N3-C4	-7.93	1.28	1.33
36	1	1114	U	N1-C6	-7.93	1.30	1.38
80	6	628	G	N3-C4	-7.93	1.29	1.35
36	1	1619	A	C6-N1	7.93	1.41	1.35
36	1	3167	A	C6-N1	7.93	1.41	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1375	G	N9-C4	-7.93	1.31	1.38
37	3	2	G	N3-C4	-7.92	1.29	1.35
80	6	53	G	N3-C4	-7.92	1.29	1.35
85	5	802	C	N1-C2	-7.92	1.32	1.40
85	5	1901	A	C6-N1	-7.92	1.30	1.35
36	1	3309	G	C6-N1	-7.92	1.34	1.39
37	3	82	G	C6-N1	-7.92	1.34	1.39
85	5	2816	G	N7-C5	-7.92	1.34	1.39
36	1	1119	C	N1-C6	-7.92	1.32	1.37
36	1	1350	A	C6-N1	7.92	1.41	1.35
85	5	90	C	N1-C6	-7.92	1.32	1.37
85	5	641	C	N1-C2	-7.92	1.32	1.40
59	n3	25	CYS	CB-SG	-7.92	1.68	1.82
36	1	951	A	N3-C4	-7.92	1.30	1.34
85	5	711	A	N9-C4	-7.92	1.33	1.37
38	4	144	G	N9-C8	-7.92	1.32	1.37
36	1	242	C	N1-C6	7.92	1.41	1.37
85	5	1529	A	N9-C4	-7.92	1.33	1.37
85	5	1912	U	N1-C2	-7.92	1.31	1.38
80	6	646	C	N1-C6	7.92	1.41	1.37
36	1	899	U	N3-C4	-7.91	1.31	1.38
38	4	6	U	N1-C2	-7.91	1.31	1.38
85	5	530	G	C5-C6	-7.91	1.34	1.42
85	5	651	G	N9-C4	-7.91	1.31	1.38
85	5	2947	G	N9-C8	-7.91	1.32	1.37
37	7	43	U	C2-N3	-7.91	1.32	1.37
48	m1	109	HIS	CA-C	-7.91	1.32	1.52
85	5	2860	U	N1-C2	7.91	1.45	1.38
38	4	111	A	N3-C4	-7.91	1.30	1.34
85	5	817	A	N7-C5	-7.91	1.34	1.39
36	1	918	C	N1-C2	-7.91	1.32	1.40
36	1	786	A	N3-C4	-7.91	1.30	1.34
80	6	1744	A	N9-C8	-7.91	1.31	1.37
36	1	1164	G	C5-C4	-7.90	1.32	1.38
36	1	283	G	N9-C4	-7.90	1.31	1.38
36	1	2702	A	N7-C5	-7.90	1.34	1.39
85	5	3177	G	C2-N3	-7.90	1.26	1.32
85	5	96	G	N9-C4	-7.90	1.31	1.38
85	5	1484	U	N1-C2	-7.90	1.31	1.38
36	1	2721	A	N7-C5	-7.90	1.34	1.39
85	5	679	U	N1-C2	-7.90	1.31	1.38
85	5	1907	C	C2-N3	-7.90	1.29	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2743	A	N3-C4	-7.90	1.30	1.34
36	1	789	A	C6-N1	-7.89	1.30	1.35
36	1	1159	A	N3-C4	-7.89	1.30	1.34
85	5	3056	U	N1-C6	-7.89	1.30	1.38
36	1	665	A	C5-C6	-7.89	1.33	1.41
85	5	383	G	C5-C4	7.89	1.43	1.38
36	1	2227	C	N1-C6	-7.89	1.32	1.37
36	1	2347	U	C2-N3	-7.89	1.32	1.37
80	6	10	G	N7-C5	-7.89	1.34	1.39
85	5	358	G	C2-N3	-7.89	1.26	1.32
85	5	2623	G	N9-C8	-7.89	1.32	1.37
36	1	978	G	N9-C4	-7.89	1.31	1.38
36	1	635	G	C5-C4	-7.88	1.32	1.38
36	1	1522	U	C2-O2	-7.88	1.15	1.22
80	6	119	A	N3-C4	-7.88	1.30	1.34
80	6	403	G	N9-C4	-7.88	1.31	1.38
36	1	1655	G	C5-C6	-7.88	1.34	1.42
36	1	2145	A	N3-C4	-7.88	1.30	1.34
36	1	1613	A	N9-C4	-7.88	1.33	1.37
36	1	2601	A	N9-C8	-7.88	1.31	1.37
36	1	2946	A	C5-C4	-7.88	1.33	1.38
36	1	2375	G	N3-C4	-7.88	1.29	1.35
85	5	2394	G	C5-C4	-7.88	1.32	1.38
36	1	1450	G	C6-O6	-7.88	1.17	1.24
80	6	449	C	N1-C6	-7.88	1.32	1.37
85	5	2415	C	N3-C4	-7.88	1.28	1.33
36	1	1450	G	N9-C4	-7.88	1.31	1.38
80	6	754	A	C6-N1	7.88	1.41	1.35
85	5	274	G	C6-O6	7.88	1.31	1.24
85	5	948	C	N1-C2	-7.87	1.32	1.40
85	5	364	G	N9-C4	-7.87	1.31	1.38
85	5	716	A	N9-C4	-7.87	1.33	1.37
37	7	88	G	N9-C8	-7.87	1.32	1.37
38	8	84	C	N1-C6	7.87	1.41	1.37
36	1	1564	U	N1-C2	7.87	1.45	1.38
37	7	38	U	N1-C2	-7.87	1.31	1.38
85	5	1143	A	N9-C8	-7.87	1.31	1.37
85	5	2979	U	C2-N3	-7.87	1.32	1.37
80	6	340	U	N1-C2	-7.87	1.31	1.38
36	1	2637	A	C6-N1	-7.87	1.30	1.35
85	5	905	U	N1-C6	-7.87	1.30	1.38
85	5	3204	C	N1-C6	-7.87	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1372	C	N1-C2	-7.86	1.32	1.40
36	1	2296	A	C6-N1	-7.86	1.30	1.35
80	6	1142	A	N3-C4	-7.86	1.30	1.34
36	1	836	A	N3-C4	-7.86	1.30	1.34
85	5	830	A	N7-C5	-7.86	1.34	1.39
85	5	1140	G	N7-C5	-7.86	1.34	1.39
85	5	2190	U	N1-C2	-7.86	1.31	1.38
80	6	541	A	N9-C4	7.86	1.42	1.37
85	5	2996	U	C2-N3	7.86	1.43	1.37
38	4	98	U	N1-C2	-7.86	1.31	1.38
85	5	3239	G	C5-C4	7.86	1.43	1.38
36	1	52	A	C6-N1	-7.85	1.30	1.35
1	2	1778	U	C2-N3	7.85	1.43	1.37
80	6	40	A	N3-C4	-7.85	1.30	1.34
85	5	853	G	N3-C4	-7.85	1.29	1.35
85	5	1934	G	C6-O6	7.85	1.31	1.24
36	1	2275	A	N3-C4	-7.85	1.30	1.34
36	1	1655	G	N7-C5	-7.85	1.34	1.39
36	1	3174	A	N7-C5	-7.85	1.34	1.39
85	5	2129	U	C2-N3	-7.85	1.32	1.37
36	1	2390	A	C6-N1	-7.84	1.30	1.35
85	5	1897	G	C5-C6	-7.84	1.34	1.42
36	1	1151	U	C2-N3	7.84	1.43	1.37
36	1	1333	C	C2-O2	-7.84	1.17	1.24
85	5	872	U	N1-C2	-7.84	1.31	1.38
36	1	1382	G	N3-C4	-7.84	1.29	1.35
36	1	1435	A	N3-C4	-7.84	1.30	1.34
36	1	2913	C	N1-C6	-7.84	1.32	1.37
85	5	2411	U	N1-C6	-7.84	1.30	1.38
85	5	806	A	N7-C5	-7.84	1.34	1.39
85	5	2327	U	N1-C6	-7.84	1.30	1.38
36	1	1877	U	C2-N3	-7.84	1.32	1.37
36	1	2368	A	C5-C4	-7.84	1.33	1.38
36	1	2733	A	C6-N6	7.84	1.40	1.33
85	5	2370	G	C6-N1	-7.84	1.34	1.39
36	1	2143	A	C6-N1	-7.83	1.30	1.35
36	1	411	U	C2-N3	-7.83	1.32	1.37
80	6	103	A	O3'-P	7.83	1.70	1.61
85	5	1145	G	N9-C8	-7.83	1.32	1.37
36	1	799	G	N9-C8	-7.83	1.32	1.37
36	1	808	A	C6-N6	-7.83	1.27	1.33
1	2	1076	A	N3-C4	-7.83	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	640	U	N1-C2	-7.83	1.31	1.38
85	5	1519	G	C5-C6	-7.83	1.34	1.42
85	5	1159	A	N7-C5	-7.83	1.34	1.39
85	5	3277	U	N3-C4	7.83	1.45	1.38
80	6	1774	G	C6-N1	-7.83	1.34	1.39
85	5	38	U	N1-C2	-7.83	1.31	1.38
85	5	2124	G	N3-C4	-7.83	1.29	1.35
85	5	3305	A	N3-C4	-7.83	1.30	1.34
80	6	92	A	N9-C4	-7.82	1.33	1.37
80	6	463	U	N3-C4	7.82	1.45	1.38
85	5	2791	G	N3-C4	-7.82	1.29	1.35
36	1	108	A	C5-C4	-7.82	1.33	1.38
36	1	836	A	N9-C4	-7.82	1.33	1.37
37	3	84	A	C6-N1	-7.82	1.30	1.35
85	5	1310	G	N7-C5	-7.82	1.34	1.39
85	5	2333	C	N1-C2	-7.82	1.32	1.40
38	4	10	A	N3-C4	-7.82	1.30	1.34
85	5	249	U	N1-C2	7.82	1.45	1.38
85	5	2734	A	N7-C5	-7.82	1.34	1.39
1	2	630	A	N9-C4	-7.82	1.33	1.37
36	1	2185	G	C2-N3	-7.82	1.26	1.32
36	1	3130	A	N9-C4	-7.82	1.33	1.37
85	5	1902	G	C5-C4	-7.82	1.32	1.38
1	2	594	A	N9-C4	7.82	1.42	1.37
36	1	43	A	N9-C4	-7.82	1.33	1.37
85	5	1842	A	N9-C4	-7.82	1.33	1.37
36	1	1083	G	C6-N1	-7.82	1.34	1.39
36	1	1115	G	N7-C5	-7.82	1.34	1.39
36	1	1410	U	N3-C4	-7.82	1.31	1.38
36	1	3171	U	C2-N3	7.82	1.43	1.37
80	6	58	U	C4-O4	7.82	1.29	1.23
80	6	266	A	C6-N1	-7.82	1.30	1.35
85	5	164	A	N3-C4	7.82	1.39	1.34
85	5	1509	A	N7-C5	7.82	1.44	1.39
85	5	3049	A	N3-C4	-7.82	1.30	1.34
85	5	355	A	N3-C4	-7.81	1.30	1.34
85	5	2686	A	N9-C4	-7.81	1.33	1.37
36	1	1136	A	N9-C8	-7.81	1.31	1.37
85	5	2363	A	N9-C4	-7.81	1.33	1.37
36	1	305	U	N3-C4	-7.81	1.31	1.38
85	5	926	A	N3-C4	-7.81	1.30	1.34
36	1	53	G	N9-C8	-7.81	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	411	U	N1-C6	-7.81	1.30	1.38
36	1	787	G	C5-C4	-7.81	1.32	1.38
85	5	421	G	C8-N7	-7.81	1.26	1.30
85	5	2215	A	C5-C6	-7.81	1.34	1.41
85	5	1909	A	N9-C4	-7.80	1.33	1.37
36	1	2525	G	N3-C4	-7.80	1.29	1.35
52	M6	126	VAL	CB-CG1	-7.80	1.36	1.52
36	1	115	A	C5-C4	-7.80	1.33	1.38
36	1	305	U	N1-C2	-7.80	1.31	1.38
85	5	953	G	N9-C4	-7.80	1.31	1.38
85	5	1114	U	N1-C6	-7.80	1.30	1.38
36	1	2897	A	N9-C4	-7.80	1.33	1.37
36	1	3391	A	N9-C4	-7.80	1.33	1.37
85	5	2761	G	C5-C4	-7.80	1.32	1.38
36	1	2222	A	N3-C4	-7.79	1.30	1.34
36	1	2771	U	N1-C2	7.79	1.45	1.38
36	1	45	A	N9-C4	-7.79	1.33	1.37
85	5	2914	G	C5-C4	-7.79	1.32	1.38
1	2	354	C	N1-C6	-7.79	1.32	1.37
36	1	1441	G	N3-C4	-7.79	1.29	1.35
36	1	2317	A	N3-C4	-7.79	1.30	1.34
85	5	939	U	N1-C2	-7.79	1.31	1.38
36	1	1459	C	N3-C4	-7.78	1.28	1.33
85	5	2796	G	C5-C4	-7.78	1.32	1.38
36	1	2824	G	N9-C4	-7.78	1.31	1.38
85	5	1158	A	N9-C4	-7.78	1.33	1.37
85	5	1896	A	C5-C6	-7.78	1.34	1.41
36	1	165	A	C5-C4	7.78	1.44	1.38
36	1	1131	G	N9-C8	-7.78	1.32	1.37
85	5	844	G	C6-N1	-7.78	1.34	1.39
85	5	2951	G	N3-C4	-7.78	1.30	1.35
85	5	3243	A	N9-C8	-7.78	1.31	1.37
36	1	1395	G	C5-C4	-7.78	1.32	1.38
36	1	2508	U	C2-N3	7.78	1.43	1.37
38	8	52	A	N7-C5	-7.78	1.34	1.39
80	6	673	A	N9-C4	7.78	1.42	1.37
85	5	108	A	C5-C4	-7.78	1.33	1.38
85	5	941	G	C6-O6	-7.78	1.17	1.24
85	5	630	A	N9-C8	-7.78	1.31	1.37
85	5	1546	A	N9-C4	-7.78	1.33	1.37
36	1	815	G	C6-N1	-7.77	1.34	1.39
85	5	1343	A	N3-C4	-7.77	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1432	C	N1-C6	-7.77	1.32	1.37
36	1	3123	A	N9-C4	-7.77	1.33	1.37
85	5	1468	A	N9-C4	-7.77	1.33	1.37
1	2	1732	A	N9-C4	-7.77	1.33	1.37
36	1	407	A	N7-C5	-7.77	1.34	1.39
80	6	353	A	N9-C4	-7.77	1.33	1.37
85	5	896	A	C5-C6	-7.77	1.34	1.41
85	5	3041	U	C4-O4	-7.77	1.17	1.23
36	1	1758	G	N7-C5	7.77	1.44	1.39
85	5	715	A	C6-N1	-7.77	1.30	1.35
36	1	811	U	N3-C4	-7.76	1.31	1.38
36	1	2704	A	N7-C5	-7.76	1.34	1.39
85	5	1139	G	N9-C4	-7.76	1.31	1.38
80	6	1775	U	N1-C2	-7.76	1.31	1.38
85	5	1475	A	N7-C5	-7.76	1.34	1.39
80	6	1070	C	C2-N3	7.76	1.42	1.35
85	5	1438	U	N1-C6	-7.76	1.30	1.38
85	5	2909	U	N1-C2	-7.76	1.31	1.38
36	1	915	A	C5-C4	-7.76	1.33	1.38
85	5	640	U	N1-C6	-7.76	1.30	1.38
85	5	2280	A	N7-C5	-7.76	1.34	1.39
36	1	2752	U	N1-C6	-7.76	1.30	1.38
36	1	3107	U	C2-N3	-7.76	1.32	1.37
62	N6	88	GLU	CG-CD	7.76	1.63	1.51
85	5	1113	G	N3-C4	-7.76	1.30	1.35
85	5	1477	A	C5-C6	-7.76	1.34	1.41
59	N3	8	GLY	C-O	-7.75	1.11	1.23
36	1	942	U	C2-O2	-7.75	1.15	1.22
36	1	1429	G	N1-C2	-7.75	1.31	1.37
36	1	2832	C	N3-C4	-7.75	1.28	1.33
36	1	2908	G	N1-C2	-7.75	1.31	1.37
36	1	2396	G	N3-C4	-7.75	1.30	1.35
85	5	48	A	N3-C4	-7.75	1.30	1.34
85	5	895	A	C6-N1	-7.75	1.30	1.35
85	5	2920	U	N1-C6	-7.75	1.30	1.38
36	1	865	U	N1-C2	-7.75	1.31	1.38
36	1	504	A	N3-C4	-7.75	1.30	1.34
36	1	1849	C	N1-C6	-7.75	1.32	1.37
85	5	1880	U	N3-C4	-7.75	1.31	1.38
36	1	1136	A	N3-C4	-7.75	1.30	1.34
36	1	2852	C	N1-C6	-7.75	1.32	1.37
80	6	1014	G	N3-C4	-7.75	1.30	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2847	A	N9-C4	-7.75	1.33	1.37
36	1	2957	G	C2-N3	-7.74	1.26	1.32
80	6	1643	U	N3-C4	-7.74	1.31	1.38
80	6	1730	A	N3-C4	-7.74	1.30	1.34
85	5	794	U	N1-C2	-7.74	1.31	1.38
36	1	968	G	C8-N7	-7.74	1.26	1.30
36	1	1581	C	N3-C4	7.74	1.39	1.33
85	5	3213	A	N3-C4	-7.74	1.30	1.34
36	1	430	U	N1-C2	-7.74	1.31	1.38
36	1	1300	G	C5-C4	-7.74	1.32	1.38
85	5	358	G	N9-C4	-7.74	1.31	1.38
85	5	3113	A	C6-N1	-7.74	1.30	1.35
36	1	440	A	C5-C4	7.74	1.44	1.38
36	1	1092	C	N1-C6	7.74	1.41	1.37
85	5	585	A	N9-C4	-7.74	1.33	1.37
85	5	3135	U	C2-N3	-7.74	1.32	1.37
80	6	606	A	C2'-O2'	7.73	1.51	1.41
85	5	1388	U	N1-C2	-7.73	1.31	1.38
85	5	2848	G	C6-N1	-7.73	1.34	1.39
80	6	987	G	N7-C5	7.73	1.43	1.39
85	5	2989	U	C4-C5	-7.73	1.36	1.43
36	1	510	G	C5-C6	-7.73	1.34	1.42
85	5	2703	A	N3-C4	-7.73	1.30	1.34
36	1	1853	U	C2-N3	-7.73	1.32	1.37
38	8	3	A	P-OP2	7.73	1.62	1.49
1	2	1100	U	N1-C2	-7.73	1.31	1.38
36	1	926	A	N9-C4	-7.73	1.33	1.37
36	1	1153	A	C5-C4	-7.73	1.33	1.38
36	1	2864	A	C6-N1	-7.73	1.30	1.35
80	6	1635	A	C5-C6	-7.73	1.34	1.41
41	L4	265	GLU	CG-CD	7.73	1.63	1.51
36	1	2940	A	C5-C4	-7.72	1.33	1.38
85	5	872	U	C4-O4	-7.72	1.17	1.23
85	5	1865	A	N3-C4	-7.72	1.30	1.34
36	1	1167	U	N1-C2	-7.72	1.31	1.38
36	1	1578	C	N1-C6	7.72	1.41	1.37
85	5	1361	U	N1-C2	-7.72	1.31	1.38
85	5	585	A	P-OP2	7.72	1.62	1.49
37	7	66	A	N9-C8	-7.72	1.31	1.37
36	1	1593	A	N7-C5	-7.72	1.34	1.39
36	1	2706	G	N7-C5	-7.72	1.34	1.39
36	1	3000	A	N3-C4	-7.72	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	565	C	N3-C4	-7.72	1.28	1.33
85	5	2757	U	C2-O2	-7.72	1.15	1.22
52	m6	3	VAL	CA-CB	7.72	1.71	1.54
36	1	1452	A	N9-C4	-7.71	1.33	1.37
85	5	31	C	N1-C6	-7.71	1.32	1.37
85	5	437	G	N7-C5	7.71	1.43	1.39
85	5	1006	A	N9-C4	-7.71	1.33	1.37
36	1	2943	G	C5-C6	-7.71	1.34	1.42
85	5	317	A	N7-C5	-7.71	1.34	1.39
54	M8	87	VAL	CB-CG2	-7.71	1.36	1.52
85	5	1450	G	N9-C4	-7.71	1.31	1.38
36	1	99	A	N9-C4	-7.71	1.33	1.37
36	1	1522	U	N3-C4	-7.71	1.31	1.38
36	1	3347	A	N9-C4	7.71	1.42	1.37
85	5	914	A	C5-C6	-7.71	1.34	1.41
85	5	1662	G	N1-C2	7.71	1.44	1.37
36	1	2619	G	C5-C4	-7.71	1.32	1.38
85	5	311	C	N3-C4	-7.71	1.28	1.33
85	5	366	A	N3-C4	-7.71	1.30	1.34
36	1	940	G	C5-C4	-7.71	1.32	1.38
36	1	1370	G	N9-C4	-7.71	1.31	1.38
36	1	2535	A	N3-C4	7.71	1.39	1.34
36	1	2862	U	N1-C6	-7.71	1.31	1.38
36	1	2908	G	C6-N1	-7.71	1.34	1.39
85	5	1429	G	C5-C4	-7.71	1.32	1.38
85	5	1513	G	N7-C5	-7.71	1.34	1.39
85	5	1542	G	N9-C8	7.71	1.43	1.37
36	1	342	A	N3-C4	-7.70	1.30	1.34
36	1	2697	A	N3-C4	-7.70	1.30	1.34
85	5	1935	G	N9-C4	-7.70	1.31	1.38
85	5	2379	U	C2-N3	-7.70	1.32	1.37
85	5	3140	G	C6-N1	-7.70	1.34	1.39
36	1	105	C	N1-C6	-7.70	1.32	1.37
36	1	915	A	N7-C5	-7.70	1.34	1.39
85	5	2619	G	C5-C4	-7.70	1.32	1.38
85	5	2801	A	C5-C4	-7.70	1.33	1.38
85	5	1058	U	N1-C6	-7.70	1.31	1.38
85	5	1477	A	C6-N1	-7.70	1.30	1.35
85	5	2950	G	N3-C4	-7.70	1.30	1.35
80	6	678	A	C5-C6	7.70	1.48	1.41
36	1	1877	U	N1-C2	-7.70	1.31	1.38
36	1	2338	C	N1-C6	-7.70	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	116	C	N1-C2	-7.70	1.32	1.40
38	8	77	A	N9-C4	-7.70	1.33	1.37
36	1	1057	A	N7-C5	-7.69	1.34	1.39
80	6	448	C	N3-C4	-7.69	1.28	1.33
80	6	1750	A	C5-C4	-7.69	1.33	1.38
85	5	3025	C	N1-C6	-7.69	1.32	1.37
36	1	801	A	N7-C5	-7.69	1.34	1.39
85	5	893	C	N3-C4	-7.69	1.28	1.33
80	6	40	A	N7-C5	-7.69	1.34	1.39
85	5	953	G	C6-O6	-7.69	1.17	1.24
1	2	47	A	N9-C4	-7.68	1.33	1.37
85	5	283	G	N7-C5	-7.68	1.34	1.39
85	5	934	G	N3-C4	-7.68	1.30	1.35
85	5	2386	A	C5-C6	-7.68	1.34	1.41
38	8	2	A	C6-N1	-7.68	1.30	1.35
36	1	976	U	N1-C2	-7.68	1.31	1.38
36	1	1026	A	N3-C4	7.68	1.39	1.34
36	1	2378	C	N1-C6	-7.68	1.32	1.37
85	5	1536	G	C5-C6	-7.68	1.34	1.42
36	1	588	G	N1-C2	-7.68	1.31	1.37
36	1	911	C	N3-C4	-7.68	1.28	1.33
36	1	1412	G	N3-C4	-7.68	1.30	1.35
36	1	2356	A	N3-C4	-7.68	1.30	1.34
36	1	2847	A	N9-C4	-7.68	1.33	1.37
36	1	211	A	C6-N1	-7.68	1.30	1.35
85	5	1722	U	C2-N3	-7.68	1.32	1.37
85	5	2897	A	C5-C4	-7.68	1.33	1.38
36	1	1194	G	P-OP1	7.68	1.61	1.49
10	s8	168	CYS	CB-SG	-7.68	1.69	1.82
36	1	2972	G	N7-C5	-7.67	1.34	1.39
36	1	3186	A	N3-C4	-7.67	1.30	1.34
85	5	926	A	C6-N1	-7.67	1.30	1.35
36	1	610	G	C2-N3	-7.67	1.26	1.32
85	5	2695	A	N3-C4	-7.67	1.30	1.34
85	5	3313	U	N1-C2	-7.67	1.31	1.38
57	n1	104	GLU	CG-CD	7.67	1.63	1.51
36	1	649	A	N9-C4	-7.67	1.33	1.37
36	1	713	U	N1-C6	-7.67	1.31	1.38
80	6	438	A	C6-N1	-7.67	1.30	1.35
85	5	657	A	N7-C5	-7.67	1.34	1.39
85	5	3186	A	N3-C4	-7.67	1.30	1.34
1	2	1637	G	N1-C2	-7.67	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1399	A	N9-C4	-7.67	1.33	1.37
36	1	3277	U	N3-C4	7.67	1.45	1.38
85	5	2317	A	C6-N1	-7.67	1.30	1.35
85	5	3048	A	N3-C4	-7.66	1.30	1.34
46	19	43	VAL	CB-CG2	-7.66	1.36	1.52
36	1	328	U	C2-N3	-7.66	1.32	1.37
85	5	652	G	C6-N1	-7.66	1.34	1.39
85	5	1896	A	C5-C4	-7.66	1.33	1.38
85	5	94	G	N3-C4	-7.66	1.30	1.35
85	5	3173	G	N1-C2	-7.66	1.31	1.37
36	1	1404	G	N3-C4	-7.65	1.30	1.35
36	1	2987	A	C5-C4	-7.65	1.33	1.38
38	4	17	A	N7-C5	-7.65	1.34	1.39
80	6	1084	A	C6-N1	-7.65	1.30	1.35
85	5	970	A	N3-C4	-7.65	1.30	1.34
85	5	646	A	N7-C5	-7.65	1.34	1.39
85	5	3021	A	N9-C4	-7.65	1.33	1.37
80	6	1755	A	N7-C5	-7.65	1.34	1.39
85	5	307	A	C6-N1	-7.65	1.30	1.35
85	5	586	C	N1-C6	-7.65	1.32	1.37
38	4	43	A	C5-C4	-7.65	1.33	1.38
80	6	1148	C	N3-C4	-7.65	1.28	1.33
85	5	2326	A	C8-N7	-7.65	1.26	1.31
85	5	2625	C	N1-C6	-7.65	1.32	1.37
36	1	870	G	C5-C6	-7.64	1.34	1.42
80	6	1108	G	N3-C4	-7.64	1.30	1.35
36	1	516	A	C5-C6	-7.64	1.34	1.41
44	17	86	VAL	CB-CG2	-7.64	1.36	1.52
85	5	1406	A	C5-C4	-7.64	1.33	1.38
85	5	2098	C	N1-C6	7.64	1.41	1.37
36	1	1111	U	N1-C6	-7.64	1.31	1.38
49	M3	18	TRP	CE3-CZ3	-7.64	1.25	1.38
85	5	2747	A	N3-C4	-7.64	1.30	1.34
85	5	61	A	C6-N1	-7.64	1.30	1.35
85	5	2756	C	N3-C4	-7.64	1.28	1.33
36	1	2910	A	C5-C4	-7.64	1.33	1.38
80	6	1136	U	N3-C4	-7.64	1.31	1.38
85	5	504	A	N9-C4	-7.64	1.33	1.37
80	6	266	A	N3-C4	-7.63	1.30	1.34
85	5	2925	C	N1-C6	-7.63	1.32	1.37
36	1	76	G	N1-C2	-7.63	1.31	1.37
85	5	822	G	C2-N3	-7.63	1.26	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2402	A	N7-C5	-7.63	1.34	1.39
80	6	1757	G	N9-C8	-7.63	1.32	1.37
85	5	2717	U	N1-C2	-7.63	1.31	1.38
80	6	471	A	N3-C4	-7.63	1.30	1.34
36	1	1082	U	N3-C4	-7.63	1.31	1.38
36	1	1887	A	N3-C4	-7.63	1.30	1.34
85	5	1170	A	N9-C4	-7.63	1.33	1.37
36	1	350	C	C2-N3	-7.62	1.29	1.35
36	1	1385	C	N1-C6	-7.62	1.32	1.37
36	1	1673	G	N7-C5	-7.62	1.34	1.39
85	5	2147	A	C5-C4	-7.62	1.33	1.38
38	4	17	A	C6-N1	-7.62	1.30	1.35
85	5	721	G	C6-O6	7.62	1.31	1.24
85	5	970	A	C8-N7	-7.62	1.26	1.31
36	1	909	G	N9-C8	-7.62	1.32	1.37
36	1	3296	A	C5-C6	-7.62	1.34	1.41
36	1	611	A	N3-C4	-7.62	1.30	1.34
38	8	126	A	P-OP1	7.62	1.61	1.49
80	6	923	A	N3-C4	-7.62	1.30	1.34
36	1	1522	U	N1-C6	-7.62	1.31	1.38
85	5	2400	G	C5-C6	-7.61	1.34	1.42
85	5	2177	G	C6-O6	7.61	1.31	1.24
85	5	2336	U	C2-N3	-7.61	1.32	1.37
85	5	666	A	C6-N1	-7.61	1.30	1.35
85	5	1009	A	N7-C5	-7.61	1.34	1.39
85	5	2838	A	C5-C4	-7.61	1.33	1.38
85	5	3197	G	C5-C4	7.61	1.43	1.38
36	1	799	G	N9-C4	-7.61	1.31	1.38
85	5	2732	G	C6-O6	7.61	1.30	1.24
85	5	2830	G	N9-C8	-7.61	1.32	1.37
36	1	363	G	C5-C4	-7.61	1.33	1.38
36	1	2738	A	N7-C5	-7.61	1.34	1.39
80	6	845	G	C8-N7	7.61	1.35	1.30
85	5	1162	U	N1-C6	-7.61	1.31	1.38
85	5	2341	A	C5-C4	-7.61	1.33	1.38
85	5	2607	G	N9-C8	-7.61	1.32	1.37
80	6	1084	A	N3-C4	-7.61	1.30	1.34
85	5	1909	A	N3-C4	-7.61	1.30	1.34
85	5	2340	U	C4-O4	-7.61	1.17	1.23
85	5	2658	G	N3-C4	-7.61	1.30	1.35
36	1	404	G	C6-N1	-7.60	1.34	1.39
85	5	428	A	N3-C4	-7.60	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2804	A	C5-C4	-7.60	1.33	1.38
36	1	1723	A	C5-C4	-7.60	1.33	1.38
36	1	953	G	N9-C8	-7.60	1.32	1.37
36	1	1153	A	N9-C4	-7.60	1.33	1.37
36	1	1379	G	N9-C8	-7.60	1.32	1.37
36	1	2802	A	N9-C4	-7.60	1.33	1.37
85	5	755	A	C5-C6	-7.60	1.34	1.41
85	5	2726	C	N3-C4	-7.60	1.28	1.33
85	5	3036	G	C6-O6	7.60	1.30	1.24
78	q2	88	CYS	CB-SG	-7.60	1.69	1.82
36	1	1479	U	N1-C2	-7.60	1.31	1.38
36	1	2096	A	C5-C4	7.60	1.44	1.38
80	6	1065	A	N9-C4	-7.59	1.33	1.37
85	5	1145	G	C6-N1	-7.59	1.34	1.39
36	1	2933	A	C5-C6	-7.59	1.34	1.41
85	5	1886	A	C2-N3	-7.59	1.26	1.33
85	5	2635	A	C6-N1	-7.59	1.30	1.35
85	5	2791	G	C5-C4	-7.59	1.33	1.38
56	n0	17	GLU	CG-CD	7.59	1.63	1.51
36	1	1468	A	N3-C4	-7.59	1.30	1.34
36	1	274	G	N9-C4	-7.59	1.31	1.38
36	1	1581	C	C2-N3	7.59	1.41	1.35
36	1	2125	A	C5-C6	-7.59	1.34	1.41
80	6	1748	G	C6-N1	7.59	1.44	1.39
85	5	708	G	N7-C5	-7.59	1.34	1.39
85	5	1575	A	N3-C4	7.59	1.39	1.34
85	5	3336	A	C6-N1	-7.59	1.30	1.35
36	1	2889	C	C2-N3	-7.58	1.29	1.35
85	5	2288	G	C2-N2	-7.58	1.26	1.34
85	5	3057	U	C2-N3	-7.58	1.32	1.37
36	1	574	U	C2-N3	-7.58	1.32	1.37
36	1	1425	U	C2-N3	-7.58	1.32	1.37
36	1	2205	U	N1-C2	7.58	1.45	1.38
38	4	79	A	N1-C2	7.58	1.41	1.34
85	5	2507	C	N1-C6	7.58	1.41	1.37
85	5	1144	U	C2-N3	-7.58	1.32	1.37
85	5	2900	A	N3-C4	-7.58	1.30	1.34
36	1	632	G	N7-C5	-7.58	1.34	1.39
36	1	1147	G	C6-N1	-7.58	1.34	1.39
1	2	135	A	N9-C4	7.58	1.42	1.37
36	1	1183	C	N1-C6	-7.58	1.32	1.37
36	1	1886	A	C6-N1	-7.58	1.30	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1117	G	N9-C4	-7.58	1.31	1.38
85	5	1914	G	C6-N1	-7.58	1.34	1.39
85	5	2654	C	C4-C5	-7.58	1.36	1.43
36	1	421	G	N1-C2	-7.58	1.31	1.37
36	1	2379	U	C4-C5	-7.58	1.36	1.43
85	5	642	U	N1-C6	-7.57	1.31	1.38
85	5	2200	U	C2-N3	-7.57	1.32	1.37
36	1	2965	U	N1-C2	-7.57	1.31	1.38
85	5	13	A	N9-C4	-7.57	1.33	1.37
85	5	1436	U	C2-N3	-7.57	1.32	1.37
85	5	1490	A	N3-C4	-7.57	1.30	1.34
85	5	1898	G	N9-C8	-7.57	1.32	1.37
85	5	2885	C	N1-C2	-7.57	1.32	1.40
36	1	2836	C	N1-C6	-7.57	1.32	1.37
80	6	7	G	N7-C5	-7.57	1.34	1.39
80	6	396	G	C6-N1	-7.57	1.34	1.39
85	5	1367	G	C6-O6	7.57	1.30	1.24
85	5	1761	C	C2-O2	7.57	1.31	1.24
36	1	670	C	N1-C6	-7.57	1.32	1.37
80	6	1321	A	N9-C4	-7.57	1.33	1.37
80	6	1800	A	N7-C5	7.57	1.43	1.39
85	5	2869	U	C2-N3	-7.57	1.32	1.37
85	5	220	G	N9-C4	-7.56	1.31	1.38
85	5	1174	G	C6-N1	-7.56	1.34	1.39
85	5	2290	C	N1-C6	-7.56	1.32	1.37
85	5	1111	U	C2-N3	-7.56	1.32	1.37
85	5	3156	U	N1-C2	7.56	1.45	1.38
37	7	45	A	C6-N6	-7.56	1.27	1.33
36	1	1495	U	N1-C2	-7.56	1.31	1.38
73	O7	22	CYS	CB-SG	-7.56	1.69	1.82
36	1	846	A	N3-C4	-7.56	1.30	1.34
36	1	1888	U	N3-C4	-7.56	1.31	1.38
36	1	1209	G	N3-C4	-7.55	1.30	1.35
85	5	1189	C	C2-N3	-7.55	1.29	1.35
80	6	973	A	N7-C5	-7.55	1.34	1.39
85	5	2378	C	N1-C6	-7.55	1.32	1.37
85	5	2742	C	N1-C6	-7.55	1.32	1.37
36	1	2910	A	N9-C8	-7.55	1.31	1.37
36	1	2934	A	N9-C8	-7.55	1.31	1.37
85	5	1660	C	C4-C5	-7.55	1.36	1.43
56	n0	19	VAL	CB-CG2	-7.55	1.36	1.52
36	1	832	G	C6-N1	-7.55	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1656	U	N1-C2	-7.55	1.31	1.38
85	5	1347	U	C4-O4	7.55	1.29	1.23
85	5	2817	A	N7-C5	-7.55	1.34	1.39
52	m6	182	ASN	CB-CG	7.55	1.68	1.51
68	O2	57	TYR	CD1-CE1	-7.54	1.28	1.39
85	5	926	A	N7-C5	-7.54	1.34	1.39
85	5	3044	G	N7-C5	-7.54	1.34	1.39
1	2	886	U	C2-N3	7.54	1.43	1.37
36	1	671	U	N1-C2	-7.54	1.31	1.38
85	5	2819	A	N7-C5	-7.54	1.34	1.39
36	1	2305	G	N7-C5	-7.54	1.34	1.39
85	5	2358	A	N3-C4	-7.54	1.30	1.34
36	1	854	G	N3-C4	-7.54	1.30	1.35
36	1	2741	C	N1-C6	-7.54	1.32	1.37
80	6	313	U	N1-C2	-7.54	1.31	1.38
85	5	748	U	C4-C5	7.54	1.50	1.43
85	5	1003	A	C5-C6	-7.54	1.34	1.41
85	5	2403	G	N1-C2	7.54	1.43	1.37
85	5	2894	C	N3-C4	-7.54	1.28	1.33
85	5	3206	C	N1-C6	-7.54	1.32	1.37
36	1	189	G	C6-N1	-7.54	1.34	1.39
36	1	2525	G	N9-C4	-7.54	1.31	1.38
85	5	870	G	N9-C8	7.54	1.43	1.37
85	5	3375	A	C6-N1	-7.54	1.30	1.35
36	1	437	G	C5-C4	7.53	1.43	1.38
85	5	715	A	C6-N6	-7.53	1.27	1.33
85	5	1881	A	N7-C5	-7.53	1.34	1.39
85	5	1348	U	C2-O2	7.53	1.29	1.22
36	1	2820	A	N3-C4	-7.53	1.30	1.34
36	1	1879	A	N3-C4	-7.53	1.30	1.34
80	6	574	G	N3-C4	-7.53	1.30	1.35
36	1	1679	A	N9-C4	-7.52	1.33	1.37
85	5	672	A	N1-C2	-7.52	1.27	1.34
85	5	2550	U	N3-C4	-7.52	1.31	1.38
36	1	317	A	C6-N1	-7.52	1.30	1.35
80	6	1116	A	C5-C6	-7.52	1.34	1.41
80	6	1775	U	N1-C6	-7.52	1.31	1.38
85	5	193	C	N1-C6	-7.52	1.32	1.37
85	5	3212	C	N1-C2	-7.52	1.32	1.40
38	4	87	G	N7-C5	7.52	1.43	1.39
62	N6	127	GLU	CB-CG	7.52	1.66	1.52
85	5	810	A	C5-C6	-7.52	1.34	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2296	A	N9-C8	-7.52	1.31	1.37
36	1	971	G	C5-C6	-7.52	1.34	1.42
80	6	364	G	N3-C4	-7.52	1.30	1.35
85	5	2200	U	N3-C4	-7.52	1.31	1.38
85	5	2303	A	C5-C4	-7.52	1.33	1.38
85	5	3325	G	N3-C4	-7.52	1.30	1.35
85	5	1102	A	C6-N1	-7.52	1.30	1.35
85	5	1463	U	N1-C2	-7.51	1.31	1.38
36	1	98	G	C2-N2	-7.51	1.27	1.34
36	1	1741	A	N3-C4	-7.51	1.30	1.34
37	3	81	U	N1-C6	-7.51	1.31	1.38
85	5	801	A	C6-N1	-7.51	1.30	1.35
85	5	1806	A	P-OP2	7.51	1.61	1.49
38	8	17	A	N9-C4	-7.51	1.33	1.37
36	1	2979	U	N1-C6	-7.51	1.31	1.38
85	5	810	A	N9-C4	-7.51	1.33	1.37
85	5	884	A	C6-N1	-7.51	1.30	1.35
85	5	1907	C	N3-C4	-7.51	1.28	1.33
42	15	37	VAL	CB-CG2	-7.51	1.37	1.52
36	1	823	C	N1-C2	-7.51	1.32	1.40
36	1	3380	U	C2-N3	7.51	1.43	1.37
85	5	854	G	N7-C5	-7.51	1.34	1.39
85	5	1055	A	C6-N1	-7.51	1.30	1.35
85	5	2394	G	N9-C8	-7.51	1.32	1.37
85	5	2830	G	N3-C4	-7.51	1.30	1.35
36	1	2630	C	N3-C4	-7.50	1.28	1.33
85	5	995	U	C2-N3	-7.50	1.32	1.37
85	5	2890	A	C6-N1	-7.50	1.30	1.35
36	1	30	G	N3-C4	-7.50	1.30	1.35
36	1	786	A	N9-C8	-7.50	1.31	1.37
36	1	1199	C	N1-C6	-7.50	1.32	1.37
85	5	829	U	C2-N3	-7.50	1.32	1.37
85	5	1362	G	N1-C2	-7.50	1.31	1.37
38	8	138	A	N3-C4	-7.50	1.30	1.34
36	1	2349	U	N1-C2	-7.50	1.31	1.38
36	1	3025	C	N1-C6	-7.50	1.32	1.37
80	6	1634	C	C2-O2	7.50	1.31	1.24
85	5	3300	U	P-OP1	7.50	1.61	1.49
36	1	904	A	N3-C4	-7.50	1.30	1.34
36	1	1891	A	N3-C4	-7.50	1.30	1.34
36	1	2169	G	N3-C4	7.50	1.40	1.35
85	5	679	U	N1-C6	-7.50	1.31	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1476	G	N9-C4	-7.50	1.31	1.38
85	5	3091	A	C5-C4	-7.50	1.33	1.38
38	8	3	A	C5-C6	-7.50	1.34	1.41
36	1	2522	G	N9-C4	7.50	1.44	1.38
36	1	2645	G	C2-N2	-7.50	1.27	1.34
85	5	1152	G	N3-C4	-7.50	1.30	1.35
38	8	137	C	N1-C6	-7.50	1.32	1.37
36	1	1589	A	N7-C5	-7.49	1.34	1.39
36	1	2377	G	C6-N1	-7.49	1.34	1.39
36	1	2395	G	N9-C4	-7.49	1.31	1.38
36	1	2806	U	C2-N3	-7.49	1.32	1.37
85	5	1863	G	N3-C4	-7.49	1.30	1.35
85	5	2356	A	C5-C6	-7.49	1.34	1.41
36	1	909	G	C5-C4	-7.49	1.33	1.38
36	1	1474	A	C6-N1	-7.49	1.30	1.35
85	5	2934	A	N9-C4	7.49	1.42	1.37
36	1	500	C	N1-C6	-7.49	1.32	1.37
36	1	1933	A	N7-C5	-7.49	1.34	1.39
85	5	2913	C	N3-C4	-7.49	1.28	1.33
85	5	3332	U	N1-C2	-7.49	1.31	1.38
38	8	56	G	N3-C4	-7.49	1.30	1.35
36	1	1376	C	N1-C6	-7.49	1.32	1.37
36	1	2286	U	N1-C6	-7.49	1.31	1.38
36	1	2353	G	N9-C8	-7.49	1.32	1.37
85	5	1879	A	N9-C4	-7.49	1.33	1.37
85	5	578	A	N7-C5	-7.49	1.34	1.39
36	1	19	U	N1-C6	-7.49	1.31	1.38
85	5	1845	G	N7-C5	-7.49	1.34	1.39
85	5	2825	C	N1-C2	-7.49	1.32	1.40
41	14	164	GLU	CB-CG	7.49	1.66	1.52
38	4	138	A	N9-C4	-7.48	1.33	1.37
38	4	146	U	N1-C2	-7.48	1.31	1.38
85	5	2755	C	N1-C6	-7.48	1.32	1.37
36	1	815	G	C2-N3	-7.48	1.26	1.32
36	1	2701	U	C2-N3	-7.48	1.32	1.37
36	1	285	A	C6-N1	-7.48	1.30	1.35
85	5	2420	C	N1-C6	-7.48	1.32	1.37
85	5	3029	A	C6-N1	-7.48	1.30	1.35
36	1	370	U	C2-N3	-7.48	1.32	1.37
36	1	2833	A	N9-C8	-7.48	1.31	1.37
36	1	3237	U	N1-C2	7.48	1.45	1.38
85	5	988	U	N3-C4	-7.48	1.31	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1625	A	N9-C4	-7.48	1.33	1.37
85	5	1899	G	N3-C4	-7.48	1.30	1.35
85	5	2338	C	N1-C2	-7.48	1.32	1.40
85	5	2796	G	N9-C8	-7.48	1.32	1.37
36	1	1140	G	N7-C5	-7.47	1.34	1.39
37	7	6	C	N1-C6	-7.47	1.32	1.37
38	8	111	A	N7-C5	-7.47	1.34	1.39
1	2	1715	A	C6-N1	-7.47	1.30	1.35
80	6	438	A	N3-C4	-7.47	1.30	1.34
36	1	2397	A	C8-N7	-7.47	1.26	1.31
36	1	645	A	C6-N1	-7.47	1.30	1.35
36	1	2988	C	N1-C6	-7.47	1.32	1.37
36	1	2350	C	N1-C6	-7.47	1.32	1.37
85	5	236	G	N1-C2	-7.47	1.43	1.37
85	5	2356	A	C6-N1	-7.47	1.30	1.35
85	5	2790	A	N9-C4	-7.47	1.33	1.37
36	1	48	A	N9-C4	-7.47	1.33	1.37
36	1	80	G	N3-C4	-7.47	1.30	1.35
36	1	2785	A	C6-N1	-7.47	1.30	1.35
36	1	3173	G	N9-C8	-7.47	1.32	1.37
85	5	879	U	N1-C2	-7.47	1.31	1.38
36	1	1407	A	C5-C4	-7.46	1.33	1.38
36	1	3296	A	N3-C4	-7.46	1.30	1.34
85	5	1187	C	N1-C6	-7.46	1.32	1.37
36	1	424	G	N9-C8	-7.46	1.32	1.37
36	1	1446	A	N9-C4	-7.46	1.33	1.37
36	1	2633	U	C2-N3	-7.46	1.32	1.37
40	l3	205	VAL	CB-CG2	-7.46	1.37	1.52
36	1	85	A	N7-C5	-7.46	1.34	1.39
85	5	908	G	C5-C6	-7.46	1.34	1.42
36	1	33	G	C5-C4	-7.46	1.33	1.38
36	1	59	G	C5-C6	-7.46	1.34	1.42
36	1	211	A	N3-C4	-7.46	1.30	1.34
57	N1	67	VAL	CB-CG1	-7.46	1.37	1.52
85	5	776	U	C2-N3	-7.46	1.32	1.37
85	5	1329	U	C2-N3	-7.46	1.32	1.37
85	5	2119	A	C5-C4	-7.46	1.33	1.38
85	5	2132	C	C2-O2	-7.46	1.17	1.24
37	3	66	A	N3-C4	-7.46	1.30	1.34
36	1	3361	G	C6-N1	-7.45	1.34	1.39
85	5	511	G	N9-C8	-7.45	1.32	1.37
85	5	2326	A	N9-C8	-7.45	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2656	A	C6-N1	-7.45	1.30	1.35
36	1	644	G	N3-C4	-7.45	1.30	1.35
36	1	1612	A	N3-C4	-7.45	1.30	1.34
80	6	1111	G	P-OP2	7.45	1.61	1.49
36	1	85	A	N9-C4	-7.45	1.33	1.37
36	1	2987	A	N3-C4	-7.45	1.30	1.34
85	5	996	A	N3-C4	-7.45	1.30	1.34
85	5	3076	C	N1-C6	-7.45	1.32	1.37
36	1	2754	G	N1-C2	-7.45	1.31	1.37
85	5	988	U	C2-N3	-7.45	1.32	1.37
85	5	994	G	N1-C2	-7.45	1.31	1.37
85	5	2989	U	C2-N3	-7.45	1.32	1.37
38	8	44	A	N9-C4	-7.45	1.33	1.37
36	1	3343	G	N7-C5	-7.45	1.34	1.39
85	5	3098	G	C5-C4	-7.45	1.33	1.38
36	1	1172	G	C5-C4	-7.45	1.33	1.38
36	1	2958	A	N3-C4	-7.45	1.30	1.34
36	1	3140	G	C5-C4	-7.45	1.33	1.38
80	6	390	G	N7-C5	-7.45	1.34	1.39
38	8	155	A	N7-C5	7.45	1.43	1.39
36	1	957	C	C2-O2	-7.44	1.17	1.24
36	1	2609	A	C6-N1	-7.44	1.30	1.35
36	1	2985	C	C2-N3	-7.44	1.29	1.35
80	6	16	G	C5-C4	-7.44	1.33	1.38
85	5	2114	C	N1-C2	-7.44	1.32	1.40
85	5	3214	U	C2-N3	-7.44	1.32	1.37
36	1	1353	U	N1-C2	7.44	1.45	1.38
85	5	523	A	C5-C6	-7.44	1.34	1.41
85	5	429	U	P-OP2	7.44	1.61	1.49
85	5	2201	G	N9-C8	-7.44	1.32	1.37
36	1	1596	C	N1-C6	-7.44	1.32	1.37
41	14	222	VAL	C-N	-7.44	1.20	1.34
36	1	632	G	C5-C6	-7.43	1.34	1.42
36	1	2972	G	C5-C6	-7.43	1.34	1.42
38	4	31	G	N9-C4	-7.43	1.32	1.38
85	5	836	A	C5-C4	-7.43	1.33	1.38
85	5	863	C	C2-N3	-7.43	1.29	1.35
85	5	2774	C	N1-C6	-7.43	1.32	1.37
36	1	2879	C	N1-C2	-7.43	1.32	1.40
76	Q0	77	ILE	CA-CB	7.43	1.72	1.54
85	5	1403	C	C2-O2	-7.43	1.17	1.24
85	5	2940	A	N3-C4	-7.43	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	804	C	C4-C5	-7.43	1.37	1.43
36	1	2960	C	N3-C4	-7.43	1.28	1.33
85	5	443	G	C5-C4	7.43	1.43	1.38
85	5	962	A	N9-C8	-7.43	1.31	1.37
85	5	1352	A	C5-C4	7.43	1.44	1.38
36	1	952	A	N7-C5	-7.43	1.34	1.39
36	1	2370	G	N1-C2	-7.43	1.31	1.37
85	5	2914	G	C6-N1	-7.43	1.34	1.39
38	8	96	A	C5-C4	-7.43	1.33	1.38
36	1	402	A	C6-N1	-7.43	1.30	1.35
36	1	281	G	N3-C4	-7.43	1.30	1.35
38	4	29	U	C2-N3	-7.43	1.32	1.37
36	1	1451	C	N1-C6	-7.42	1.32	1.37
1	2	1097	G	N9-C4	-7.42	1.32	1.38
80	6	1765	A	C6-N1	-7.42	1.30	1.35
36	1	2698	G	C5-C4	-7.42	1.33	1.38
36	1	2731	U	C2-N3	7.42	1.43	1.37
38	8	23	U	N1-C6	-7.42	1.31	1.38
36	1	801	A	C5-C6	-7.42	1.34	1.41
36	1	830	A	N7-C5	-7.42	1.34	1.39
85	5	1733	G	N7-C5	7.42	1.43	1.39
36	1	1330	A	N9-C4	-7.42	1.33	1.37
36	1	672	A	N3-C4	-7.42	1.30	1.34
36	1	1522	U	C2-N3	-7.41	1.32	1.37
36	1	3243	A	N9-C4	-7.41	1.33	1.37
80	6	985	G	C5-C6	-7.41	1.34	1.42
85	5	3184	A	N3-C4	-7.41	1.30	1.34
36	1	2897	A	N3-C4	-7.41	1.30	1.34
85	5	998	A	N3-C4	-7.41	1.30	1.34
85	5	1117	G	C5-C6	-7.41	1.34	1.42
85	5	1479	U	C2-N3	-7.41	1.32	1.37
85	5	1880	U	N1-C2	-7.41	1.31	1.38
85	5	2119	A	N3-C4	-7.41	1.30	1.34
85	5	2796	G	N7-C5	-7.41	1.34	1.39
85	5	2895	G	C5-C4	-7.41	1.33	1.38
85	5	3327	G	C5-C4	7.41	1.43	1.38
38	8	2	A	N7-C5	-7.41	1.34	1.39
36	1	1655	G	N1-C2	-7.41	1.31	1.37
36	1	2243	A	N3-C4	-7.41	1.30	1.34
85	5	774	G	C5-C6	7.41	1.49	1.42
36	1	1884	A	C6-N1	-7.40	1.30	1.35
80	6	585	A	N9-C4	-7.40	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1350	A	C6-N1	7.40	1.40	1.35
85	5	1534	A	N7-C5	-7.40	1.34	1.39
85	5	1839	A	C6-N1	-7.40	1.30	1.35
36	1	680	G	C6-N1	-7.40	1.34	1.39
36	1	1164	G	N9-C4	-7.40	1.32	1.38
36	1	1389	G	C5-C4	-7.40	1.33	1.38
80	6	1294	G	N9-C8	7.40	1.43	1.37
85	5	884	A	N9-C4	-7.40	1.33	1.37
85	5	2862	U	N1-C6	-7.40	1.31	1.38
85	5	2968	G	N9-C4	-7.40	1.32	1.38
36	1	1814	A	N3-C4	7.40	1.39	1.34
85	5	976	U	N1-C2	-7.40	1.31	1.38
80	6	319	U	C2-N3	7.39	1.43	1.37
85	5	2738	A	C6-N1	-7.39	1.30	1.35
36	1	40	A	N9-C4	-7.39	1.33	1.37
80	6	1322	A	N9-C4	-7.39	1.33	1.37
85	5	881	C	C2-N3	-7.39	1.29	1.35
85	5	1184	A	C5-C4	-7.39	1.33	1.38
85	5	3014	U	C2-N3	-7.39	1.32	1.37
36	1	1051	U	N1-C2	-7.39	1.31	1.38
85	5	434	U	N1-C2	-7.39	1.31	1.38
36	1	935	U	N1-C6	-7.39	1.31	1.38
36	1	2869	U	N1-C6	-7.39	1.31	1.38
38	4	46	G	N9-C8	-7.39	1.32	1.37
85	5	374	A	N3-C4	-7.39	1.30	1.34
36	1	1522	U	C4-O4	-7.39	1.17	1.23
85	5	351	A	N9-C4	-7.39	1.33	1.37
85	5	2147	A	C6-N1	-7.39	1.30	1.35
37	3	88	G	N9-C8	-7.39	1.32	1.37
85	5	1913	A	N7-C5	-7.39	1.34	1.39
85	5	2791	G	C6-N1	-7.39	1.34	1.39
1	2	1368	G	C8-N7	7.38	1.35	1.30
85	5	705	A	N3-C4	-7.38	1.30	1.34
80	6	1636	C	C2'-O2'	7.38	1.51	1.41
85	5	13	A	C6-N1	-7.38	1.30	1.35
85	5	1871	U	N3-C4	-7.38	1.31	1.38
85	5	2658	G	C6-N1	-7.38	1.34	1.39
37	7	8	G	C6-N1	-7.38	1.34	1.39
38	8	52	A	C6-N1	-7.38	1.30	1.35
36	1	870	G	N7-C5	-7.38	1.34	1.39
36	1	1294	A	C6-N1	-7.38	1.30	1.35
85	5	229	G	C6-N1	-7.38	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	364	G	C6-N1	-7.38	1.34	1.39
85	5	2832	C	N1-C6	-7.38	1.32	1.37
36	1	610	G	N3-C4	-7.38	1.30	1.35
85	5	2620	G	N7-C5	-7.38	1.34	1.39
1	2	950	A	N9-C4	-7.38	1.33	1.37
85	5	899	U	C2-N3	-7.38	1.32	1.37
36	1	66	A	N9-C4	-7.37	1.33	1.37
80	6	1762	A	N3-C4	-7.37	1.30	1.34
36	1	1364	C	C2-N3	-7.37	1.29	1.35
36	1	2215	A	N3-C4	-7.37	1.30	1.34
85	5	1409	G	N7-C5	-7.37	1.34	1.39
38	8	13	A	N3-C4	-7.37	1.30	1.34
1	2	72	A	N3-C4	7.37	1.39	1.34
36	1	946	U	N1-C6	-7.37	1.31	1.38
85	5	1915	A	N9-C4	-7.37	1.33	1.37
85	5	2635	A	N7-C5	-7.37	1.34	1.39
36	1	2142	A	N3-C4	-7.37	1.30	1.34
36	1	2632	G	N9-C8	-7.37	1.32	1.37
85	5	2814	G	N9-C8	-7.37	1.32	1.37
36	1	424	G	C5-C4	-7.36	1.33	1.38
36	1	1392	G	N9-C8	-7.36	1.32	1.37
36	1	2601	A	N3-C4	-7.36	1.30	1.34
85	5	1303	A	C5-C4	-7.36	1.33	1.38
85	5	2755	C	N3-C4	-7.36	1.28	1.33
85	5	3310	A	N9-C8	-7.36	1.31	1.37
76	q0	95	VAL	CB-CG2	-7.36	1.37	1.52
85	5	1483	G	N9-C4	7.36	1.43	1.38
85	5	2276	G	C5-C4	-7.36	1.33	1.38
85	5	3046	A	N9-C8	-7.36	1.31	1.37
80	6	757	A	N3-C4	-7.36	1.30	1.34
85	5	645	A	C5-C4	-7.36	1.33	1.38
36	1	1794	G	N7-C5	-7.36	1.34	1.39
36	1	2370	G	C5-C4	-7.36	1.33	1.38
85	5	706	A	N3-C4	-7.36	1.30	1.34
85	5	2288	G	N9-C8	-7.36	1.32	1.37
85	5	2957	G	N3-C4	-7.36	1.30	1.35
36	1	201	A	N9-C8	-7.35	1.31	1.37
85	5	2937	G	N3-C4	-7.35	1.30	1.35
41	l4	164	GLU	CG-CD	7.35	1.62	1.51
36	1	60	A	C6-N1	-7.35	1.30	1.35
38	4	12	A	N9-C4	-7.35	1.33	1.37
36	1	3336	A	N3-C4	-7.35	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	O3	103	TYR	CD1-CE1	-7.35	1.28	1.39
36	1	425	G	N1-C2	-7.35	1.31	1.37
36	1	3243	A	C6-N1	-7.35	1.30	1.35
85	5	1317	A	C5-C6	-7.35	1.34	1.41
36	1	1117	G	N7-C5	-7.34	1.34	1.39
36	1	1399	A	N3-C4	-7.34	1.30	1.34
36	1	2715	A	C5-C4	-7.34	1.33	1.38
36	1	368	G	N3-C4	-7.34	1.30	1.35
36	1	888	A	N9-C4	-7.34	1.33	1.37
53	m7	126	ARG	CG-CD	7.34	1.70	1.51
36	1	925	A	N7-C5	-7.34	1.34	1.39
36	1	1905	G	N9-C8	-7.34	1.32	1.37
85	5	2864	A	N9-C4	-7.34	1.33	1.37
36	1	401	U	N1-C2	7.34	1.45	1.38
36	1	2890	A	N7-C5	-7.34	1.34	1.39
36	1	2910	A	N3-C4	-7.34	1.30	1.34
85	5	1709	C	N3-C4	-7.34	1.28	1.33
36	1	1513	G	N9-C8	-7.34	1.32	1.37
36	1	2380	U	C4-O4	-7.34	1.17	1.23
36	1	1028	U	C4-O4	7.34	1.29	1.23
36	1	1128	U	N1-C2	-7.34	1.31	1.38
36	1	1141	C	N3-C4	-7.34	1.28	1.33
36	1	1395	G	N3-C4	-7.34	1.30	1.35
36	1	1428	A	N7-C5	-7.34	1.34	1.39
85	5	2287	C	N3-C4	-7.34	1.28	1.33
36	1	603	A	C5-C4	7.33	1.43	1.38
36	1	1101	G	C5-C4	-7.33	1.33	1.38
36	1	1725	C	N1-C6	-7.33	1.32	1.37
52	M6	4	GLU	CG-CD	-7.33	1.41	1.51
85	5	672	A	N3-C4	-7.33	1.30	1.34
85	5	1555	U	N1-C2	7.33	1.45	1.38
85	5	1569	U	C2-N3	7.33	1.42	1.37
36	1	220	G	N3-C4	-7.33	1.30	1.35
36	1	2867	C	C2-N3	-7.33	1.29	1.35
85	5	2350	C	N3-C4	-7.33	1.28	1.33
1	2	1008	A	N3-C4	-7.33	1.30	1.34
36	1	1547	G	C5-C4	-7.33	1.33	1.38
80	6	105	A	N9-C4	-7.33	1.33	1.37
80	6	1746	A	N7-C5	-7.33	1.34	1.39
85	5	666	A	N9-C8	-7.33	1.31	1.37
85	5	1761	C	N1-C6	7.33	1.41	1.37
85	5	2727	A	C6-N1	-7.33	1.30	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1487	G	C6-N1	-7.33	1.34	1.39
85	5	1542	G	N7-C5	7.33	1.43	1.39
85	5	2746	A	N9-C4	-7.33	1.33	1.37
85	5	1916	U	N1-C2	-7.33	1.31	1.38
85	5	2756	C	N1-C6	-7.33	1.32	1.37
36	1	709	A	N9-C8	-7.32	1.31	1.37
36	1	2934	A	N3-C4	-7.32	1.30	1.34
85	5	396	A	N3-C4	-7.32	1.30	1.34
85	5	403	C	N1-C6	-7.32	1.32	1.37
85	5	1809	A	N3-C4	-7.32	1.30	1.34
85	5	1924	U	N1-C6	-7.32	1.31	1.38
85	5	2403	G	C6-N1	7.32	1.44	1.39
36	1	2605	G	C5-C4	-7.32	1.33	1.38
36	1	3091	A	N9-C4	-7.32	1.33	1.37
85	5	830	A	C6-N1	-7.32	1.30	1.35
85	5	1129	A	C5-C6	-7.32	1.34	1.41
85	5	1140	G	C6-N1	-7.32	1.34	1.39
36	1	164	A	N9-C4	7.32	1.42	1.37
85	5	2123	G	N9-C8	-7.32	1.32	1.37
85	5	2569	A	C5-C4	7.32	1.43	1.38
36	1	2610	G	C6-N1	-7.32	1.34	1.39
36	1	2689	A	N3-C4	-7.32	1.30	1.34
36	1	2768	U	N1-C2	-7.32	1.31	1.38
85	5	2610	G	C5-C6	-7.32	1.35	1.42
85	5	634	C	N3-C4	-7.31	1.28	1.33
85	5	2946	A	N9-C4	-7.31	1.33	1.37
36	1	1171	G	N7-C5	-7.31	1.34	1.39
36	1	1469	C	N1-C6	-7.31	1.32	1.37
36	1	3172	A	C5-C4	-7.31	1.33	1.38
85	5	1357	G	N1-C2	-7.31	1.31	1.37
85	5	1581	C	C2-N3	7.31	1.41	1.35
85	5	2177	G	N3-C4	-7.31	1.30	1.35
85	5	2351	U	N1-C2	7.31	1.45	1.38
85	5	2370	G	C5-C4	-7.31	1.33	1.38
38	8	21	C	N1-C6	-7.31	1.32	1.37
53	m7	21	TYR	CD2-CE2	-7.31	1.28	1.39
36	1	2876	C	N1-C2	-7.31	1.32	1.40
79	Q3	57	CYS	CB-SG	-7.31	1.69	1.82
85	5	2772	C	N1-C6	7.31	1.41	1.37
85	5	3141	A	N3-C4	-7.31	1.30	1.34
85	5	3362	A	N9-C4	-7.31	1.33	1.37
80	6	579	A	N7-C5	7.31	1.43	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1213	G	C6-O6	7.31	1.30	1.24
85	5	592	A	C5-C6	-7.31	1.34	1.41
85	5	830	A	N3-C4	-7.31	1.30	1.34
85	5	1161	G	N9-C8	-7.31	1.32	1.37
85	5	1198	C	N3-C4	-7.31	1.28	1.33
36	1	2395	G	N7-C5	-7.31	1.34	1.39
36	1	2920	U	C2-N3	-7.31	1.32	1.37
36	1	2945	G	N7-C5	-7.31	1.34	1.39
36	1	1402	C	N1-C6	-7.30	1.32	1.37
36	1	1796	G	C5-C6	-7.30	1.35	1.42
36	1	3309	G	N7-C5	-7.30	1.34	1.39
85	5	672	A	C6-N1	-7.30	1.30	1.35
85	5	1542	G	N9-C4	-7.30	1.32	1.38
85	5	2140	U	N3-C4	-7.30	1.31	1.38
85	5	2276	G	C6-N1	-7.30	1.34	1.39
85	5	2411	U	C2-N3	-7.30	1.32	1.37
85	5	2726	C	N1-C2	-7.30	1.32	1.40
85	5	2751	G	N9-C8	7.30	1.43	1.37
85	5	3056	U	N3-C4	-7.30	1.31	1.38
38	8	80	A	N9-C8	7.30	1.43	1.37
36	1	2427	U	C4-O4	-7.30	1.17	1.23
36	1	96	G	N9-C4	-7.30	1.32	1.38
36	1	3275	U	P-O5'	7.30	1.67	1.59
85	5	396	A	N9-C4	-7.30	1.33	1.37
85	5	412	G	C6-N1	-7.30	1.34	1.39
80	6	1744	A	N3-C4	-7.30	1.30	1.34
38	8	80	A	N7-C5	7.30	1.43	1.39
37	3	110	G	N9-C8	-7.30	1.32	1.37
85	5	2138	A	N9-C8	-7.29	1.31	1.37
36	1	162	G	C6-N1	7.29	1.44	1.39
36	1	2617	U	N1-C6	-7.29	1.31	1.38
85	5	747	A	N9-C4	-7.29	1.33	1.37
85	5	1131	G	N1-C2	7.29	1.43	1.37
37	7	42	A	N7-C5	-7.29	1.34	1.39
85	5	290	G	N9-C8	-7.29	1.32	1.37
85	5	1115	G	C6-N1	-7.29	1.34	1.39
85	5	2728	G	C6-N1	-7.29	1.34	1.39
85	5	2939	G	N1-C2	-7.29	1.31	1.37
36	1	1427	U	N1-C2	-7.29	1.31	1.38
80	6	64	U	C2-N3	-7.29	1.32	1.37
36	1	2982	A	C5-C4	-7.29	1.33	1.38
85	5	953	G	N1-C2	-7.29	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1340	G	C5-C4	-7.29	1.33	1.38
36	1	79	U	C2-N3	-7.29	1.32	1.37
1	2	1713	A	N9-C4	-7.29	1.33	1.37
36	1	2643	A	C5-C6	-7.29	1.34	1.41
85	5	281	G	N9-C4	-7.29	1.32	1.38
85	5	1099	A	N9-C4	-7.29	1.33	1.37
1	2	93	A	N3-C4	-7.28	1.30	1.34
85	5	1177	G	C5-C4	-7.28	1.33	1.38
85	5	2358	A	C5-C4	-7.28	1.33	1.38
85	5	2812	C	C4-N4	-7.28	1.27	1.33
37	7	77	G	N9-C8	-7.28	1.32	1.37
36	1	1370	G	N3-C4	-7.28	1.30	1.35
36	1	1654	A	N7-C5	-7.28	1.34	1.39
85	5	909	G	N9-C4	-7.28	1.32	1.38
80	6	427	C	N3-C4	-7.28	1.28	1.33
85	5	23	A	C5-C6	-7.28	1.34	1.41
85	5	974	G	N3-C4	-7.28	1.30	1.35
85	5	2372	A	N9-C4	7.28	1.42	1.37
36	1	2861	U	C2-N3	-7.28	1.32	1.37
85	5	363	G	C5-C6	-7.28	1.35	1.42
36	1	100	A	C5-C6	-7.28	1.34	1.41
36	1	437	G	C5-C6	7.28	1.49	1.42
85	5	82	C	N1-C2	-7.28	1.32	1.40
85	5	1576	G	N3-C4	7.28	1.40	1.35
36	1	1887	A	N9-C4	-7.28	1.33	1.37
36	1	2661	G	N3-C4	-7.28	1.30	1.35
85	5	2369	G	C2-N2	-7.28	1.27	1.34
85	5	423	A	C5-C6	-7.27	1.34	1.41
80	6	119	A	C6-N1	-7.27	1.30	1.35
85	5	650	C	N3-C4	-7.27	1.28	1.33
85	5	911	C	N1-C6	-7.27	1.32	1.37
85	5	3048	A	C6-N1	-7.27	1.30	1.35
36	1	925	A	N3-C4	-7.27	1.30	1.34
80	6	1025	A	N3-C4	-7.27	1.30	1.34
62	n6	127	GLU	CB-CG	7.27	1.66	1.52
85	5	154	U	N1-C2	-7.27	1.32	1.38
85	5	432	G	N9-C8	-7.27	1.32	1.37
85	5	1201	C	N3-C4	7.27	1.39	1.33
36	1	3011	A	N3-C4	-7.27	1.30	1.34
85	5	510	G	C6-N1	-7.27	1.34	1.39
85	5	2643	A	N3-C4	-7.27	1.30	1.34
36	1	2187	G	N3-C4	-7.26	1.30	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1126	G	N3-C4	-7.26	1.30	1.35
47	m0	8	CYS	CB-SG	-7.26	1.69	1.82
36	1	378	A	N9-C4	-7.26	1.33	1.37
85	5	1349	G	N7-C5	7.26	1.43	1.39
85	5	2627	C	N3-C4	-7.26	1.28	1.33
36	1	2377	G	N3-C4	-7.26	1.30	1.35
36	1	2395	G	N9-C8	-7.26	1.32	1.37
80	6	607	G	C6-N1	-7.26	1.34	1.39
85	5	2711	C	N1-C6	-7.26	1.32	1.37
36	1	1079	A	N3-C4	-7.25	1.30	1.34
80	6	1081	A	N9-C4	7.25	1.42	1.37
85	5	1330	A	C6-N1	-7.25	1.30	1.35
1	2	934	A	N9-C4	-7.25	1.33	1.37
1	2	1064	A	N9-C4	7.25	1.42	1.37
36	1	645	A	N1-C2	-7.25	1.27	1.34
36	1	798	G	C6-N1	-7.25	1.34	1.39
36	1	2231	C	N1-C6	-7.25	1.32	1.37
36	1	2689	A	C6-N1	-7.25	1.30	1.35
85	5	1408	G	N3-C4	-7.25	1.30	1.35
85	5	2828	G	C5-C6	-7.25	1.35	1.42
80	6	1127	G	N9-C4	-7.25	1.32	1.38
85	5	2697	A	N7-C5	-7.25	1.34	1.39
36	1	40	A	C8-N7	-7.25	1.26	1.31
85	5	920	A	C5-C6	-7.25	1.34	1.41
85	5	1850	A	C5-C4	-7.25	1.33	1.38
36	1	2858	U	N1-C6	-7.25	1.31	1.38
80	6	1672	G	C8-N7	7.25	1.35	1.30
36	1	880	G	N9-C8	-7.25	1.32	1.37
36	1	1476	G	N9-C8	-7.25	1.32	1.37
36	1	3243	A	N7-C5	-7.25	1.34	1.39
80	6	390	G	N9-C4	-7.25	1.32	1.38
80	6	926	A	N9-C4	-7.25	1.33	1.37
36	1	710	A	C5-C6	-7.24	1.34	1.41
36	1	2323	G	C6-N1	-7.24	1.34	1.39
36	1	2888	U	C2-N3	-7.24	1.32	1.37
85	5	436	A	C5-C6	7.24	1.47	1.41
85	5	1938	U	N1-C2	-7.24	1.32	1.38
85	5	890	C	N1-C6	-7.24	1.32	1.37
36	1	1552	G	N7-C5	-7.24	1.34	1.39
36	1	610	G	N7-C5	-7.24	1.34	1.39
85	5	2404	A	N7-C5	7.24	1.43	1.39
36	1	1004	U	C2-O2	-7.24	1.15	1.22

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1467	A	C6-N1	-7.24	1.30	1.35
36	1	899	U	C2-N3	-7.23	1.32	1.37
85	5	2702	A	C6-N1	-7.23	1.30	1.35
36	1	2629	U	N1-C2	-7.23	1.32	1.38
80	6	678	A	N9-C4	7.23	1.42	1.37
80	6	1672	G	N9-C4	-7.23	1.32	1.38
36	1	1318	A	C6-N1	-7.23	1.30	1.35
85	5	743	C	N1-C6	-7.23	1.32	1.37
85	5	867	G	C5-C6	-7.23	1.35	1.42
85	5	99	A	C5-C6	-7.23	1.34	1.41
85	5	1119	C	N1-C6	-7.23	1.32	1.37
85	5	1581	C	N3-C4	7.23	1.39	1.33
79	Q3	8	VAL	CB-CG2	-7.23	1.37	1.52
85	5	222	A	N9-C4	-7.23	1.33	1.37
85	5	1377	G	C5-C6	-7.23	1.35	1.42
85	5	2656	A	C5-C6	-7.23	1.34	1.41
36	1	957	C	N1-C2	-7.23	1.32	1.40
36	1	2277	C	N1-C6	-7.23	1.32	1.37
1	2	780	G	N3-C4	-7.22	1.30	1.35
36	1	775	A	C5-C6	-7.22	1.34	1.41
36	1	1140	G	C8-N7	-7.22	1.26	1.30
85	5	1006	A	N3-C4	-7.22	1.30	1.34
37	7	11	A	N3-C4	-7.22	1.30	1.34
1	2	434	G	N9-C8	-7.22	1.32	1.37
36	1	1897	G	C5-C4	-7.22	1.33	1.38
36	1	2894	C	N1-C6	-7.22	1.32	1.37
85	5	530	G	C5-C4	-7.22	1.33	1.38
85	5	1468	A	N3-C4	-7.22	1.30	1.34
80	6	978	A	N3-C4	-7.22	1.30	1.34
85	5	3173	G	N3-C4	-7.22	1.30	1.35
36	1	1406	A	N7-C5	-7.22	1.34	1.39
38	4	20	U	N1-C2	-7.22	1.32	1.38
85	5	189	G	N9-C4	-7.22	1.32	1.38
85	5	1179	A	N3-C4	-7.22	1.30	1.34
85	5	2160	G	C5-C4	-7.22	1.33	1.38
85	5	2879	C	N1-C6	-7.22	1.32	1.37
36	1	3086	A	C6-N1	-7.22	1.30	1.35
37	3	91	G	N7-C5	-7.22	1.34	1.39
85	5	1469	C	N1-C6	-7.22	1.32	1.37
38	8	85	G	C5-C4	7.22	1.43	1.38
36	1	1884	A	N3-C4	-7.21	1.30	1.34
36	1	2697	A	N7-C5	-7.21	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	979	U	C2-N3	7.21	1.42	1.37
85	5	2296	A	C6-N6	-7.21	1.28	1.33
41	14	120	TYR	CD2-CE2	-7.21	1.28	1.39
36	1	71	A	N9-C4	-7.21	1.33	1.37
36	1	2356	A	N9-C8	-7.21	1.31	1.37
36	1	3361	G	N1-C2	-7.21	1.31	1.37
36	1	63	A	C5-C6	-7.21	1.34	1.41
85	5	436	A	C5-C4	7.21	1.43	1.38
85	5	917	A	N7-C5	-7.21	1.34	1.39
85	5	1153	A	C5-C4	-7.21	1.33	1.38
85	5	2933	A	N1-C2	-7.21	1.27	1.34
85	5	2938	G	N7-C5	-7.21	1.34	1.39
36	1	1326	A	N3-C4	-7.21	1.30	1.34
85	5	1309	U	C2-N3	-7.21	1.32	1.37
85	5	1927	G	N7-C5	-7.21	1.34	1.39
36	1	775	A	N7-C5	-7.21	1.34	1.39
36	1	1440	G	N9-C8	-7.21	1.32	1.37
36	1	3307	A	N7-C5	-7.21	1.34	1.39
85	5	425	G	N9-C4	-7.21	1.32	1.38
36	1	1165	A	C6-N1	-7.21	1.30	1.35
36	1	2394	G	N1-C2	-7.21	1.31	1.37
85	5	1399	A	C5-C6	-7.21	1.34	1.41
85	5	2100	A	N9-C4	7.21	1.42	1.37
36	1	2951	G	N9-C8	-7.21	1.32	1.37
36	1	656	A	C5-C4	-7.20	1.33	1.38
85	5	1032	C	N1-C6	7.20	1.41	1.37
85	5	2895	G	C6-N1	-7.20	1.34	1.39
80	6	310	C	N1-C6	-7.20	1.32	1.37
85	5	1401	A	N9-C4	-7.20	1.33	1.37
85	5	3006	A	N9-C4	-7.20	1.33	1.37
36	1	225	C	N1-C6	-7.20	1.32	1.37
36	1	1887	A	N9-C8	-7.20	1.31	1.37
85	5	3137	C	N1-C6	-7.20	1.32	1.37
85	5	3369	G	N3-C4	-7.20	1.30	1.35
63	n7	99	GLU	CB-CG	7.20	1.65	1.52
36	1	79	U	N1-C2	-7.20	1.32	1.38
36	1	3106	A	C5-C6	-7.20	1.34	1.41
85	5	1373	A	C5-C4	-7.20	1.33	1.38
85	5	1541	G	C6-N1	7.20	1.44	1.39
85	5	2910	A	N3-C4	-7.20	1.30	1.34
36	1	1195	A	C5-C4	-7.20	1.33	1.38
36	1	2636	A	C5-C4	-7.20	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	678	G	N3-C4	-7.20	1.30	1.35
36	1	3091	A	N3-C4	-7.20	1.30	1.34
85	5	3051	U	C4-O4	-7.20	1.17	1.23
80	6	39	A	N3-C4	-7.19	1.30	1.34
80	6	1147	A	N7-C5	-7.19	1.34	1.39
85	5	41	G	C6-N1	-7.19	1.34	1.39
85	5	830	A	N9-C4	-7.19	1.33	1.37
85	5	3052	G	N1-C2	-7.19	1.31	1.37
85	5	3302	U	N1-C2	-7.19	1.32	1.38
69	o3	81	VAL	CB-CG2	-7.19	1.37	1.52
85	5	2617	U	N1-C2	-7.19	1.32	1.38
85	5	2895	G	N7-C5	-7.19	1.34	1.39
85	5	3081	C	N1-C6	-7.19	1.32	1.37
36	1	3098	G	N3-C4	-7.19	1.30	1.35
36	1	2902	A	N7-C5	-7.19	1.34	1.39
36	1	2960	C	C2-N3	-7.19	1.29	1.35
85	5	1874	A	C6-N1	-7.18	1.30	1.35
38	8	72	A	N9-C4	-7.18	1.33	1.37
36	1	274	G	N9-C8	-7.18	1.32	1.37
36	1	1178	G	N1-C2	-7.18	1.32	1.37
36	1	1636	U	N1-C2	-7.18	1.32	1.38
36	1	1754	G	P-OP1	7.18	1.61	1.49
36	1	2229	A	C5-C4	-7.18	1.33	1.38
80	6	894	U	C2-N3	-7.18	1.32	1.37
80	6	1214	U	C2-N3	7.18	1.42	1.37
80	6	1143	A	N9-C8	7.18	1.43	1.37
85	5	2107	A	N3-C4	-7.18	1.30	1.34
37	7	94	C	N3-C4	-7.18	1.28	1.33
36	1	50	U	N1-C6	-7.18	1.31	1.38
36	1	862	U	C2-O2	-7.18	1.15	1.22
85	5	2389	C	N1-C2	-7.18	1.32	1.40
36	1	2911	A	C6-N1	-7.18	1.30	1.35
85	5	1454	A	C5-C6	-7.18	1.34	1.41
85	5	2658	G	C5-C4	-7.18	1.33	1.38
36	1	3044	G	N9-C8	-7.17	1.32	1.37
85	5	2609	A	N9-C4	-7.17	1.33	1.37
1	2	1650	A	N9-C4	-7.17	1.33	1.37
85	5	2813	A	C5-C4	-7.17	1.33	1.38
36	1	958	C	N3-C4	-7.17	1.28	1.33
36	1	1465	A	C6-N1	-7.17	1.30	1.35
80	6	338	C	N1-C6	-7.17	1.32	1.37
85	5	2522	G	C6-N1	7.17	1.44	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3273	A	C6-N1	-7.17	1.30	1.35
85	5	2259	A	N3-C4	-7.17	1.30	1.34
85	5	2816	G	N9-C8	-7.17	1.32	1.37
85	5	3176	G	C6-N1	-7.17	1.34	1.39
36	1	211	A	C5-C6	-7.17	1.34	1.41
36	1	661	G	N9-C8	-7.17	1.32	1.37
36	1	986	U	N1-C2	-7.17	1.32	1.38
36	1	2799	A	N9-C4	-7.17	1.33	1.37
80	6	1000	C	N1-C6	-7.17	1.32	1.37
85	5	1495	U	N1-C2	-7.17	1.32	1.38
85	5	2283	G	C5-C6	-7.17	1.35	1.42
85	5	2275	A	N9-C4	-7.17	1.33	1.37
36	1	596	C	N3-C4	-7.16	1.28	1.33
36	1	2192	C	N3-C4	-7.16	1.28	1.33
36	1	2853	A	N7-C5	-7.16	1.34	1.39
36	1	3337	G	N9-C4	-7.16	1.32	1.38
85	5	279	U	N1-C2	-7.16	1.32	1.38
85	5	899	U	C2-O2	-7.16	1.16	1.22
37	3	79	A	N9-C4	-7.16	1.33	1.37
85	5	2598	G	C5-C4	-7.16	1.33	1.38
85	5	2794	G	C6-O6	-7.16	1.17	1.24
36	1	1844	C	N1-C6	-7.16	1.32	1.37
1	2	1019	A	N3-C4	-7.16	1.30	1.34
36	1	2800	G	C5-C4	-7.16	1.33	1.38
85	5	1292	C	N1-C2	-7.16	1.32	1.40
85	5	2400	G	N9-C4	-7.16	1.32	1.38
85	5	2616	C	N1-C2	-7.16	1.32	1.40
36	1	797	U	N1-C6	-7.16	1.31	1.38
85	5	1507	G	C6-N1	-7.16	1.34	1.39
85	5	2280	A	C6-N1	-7.16	1.30	1.35
36	1	971	G	N7-C5	-7.16	1.34	1.39
36	1	1549	U	C2-N3	-7.16	1.32	1.37
80	6	385	A	C6-N1	-7.16	1.30	1.35
85	5	420	G	C5-C4	-7.16	1.33	1.38
85	5	1411	C	N1-C6	-7.16	1.32	1.37
85	5	1909	A	C6-N1	-7.16	1.30	1.35
85	5	2287	C	C2-N3	-7.16	1.30	1.35
1	2	1130	A	N7-C5	-7.15	1.34	1.39
85	5	1346	G	N3-C4	-7.15	1.30	1.35
85	5	1843	C	N1-C2	-7.15	1.32	1.40
68	O2	57	TYR	CE2-CZ	-7.15	1.29	1.38
85	5	2907	G	N9-C4	-7.15	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1729	A	C5-C4	-7.15	1.33	1.38
80	6	1649	G	N7-C5	7.15	1.43	1.39
85	5	786	A	N7-C5	-7.15	1.34	1.39
85	5	2825	C	C5-C6	-7.15	1.28	1.34
36	1	2322	C	N3-C4	-7.15	1.28	1.33
85	5	921	A	C5-C4	-7.15	1.33	1.38
85	5	3012	A	N7-C5	-7.15	1.34	1.39
38	4	6	U	C2-N3	-7.15	1.32	1.37
37	7	29	C	N1-C6	-7.15	1.32	1.37
80	6	1734	U	C2-O2	-7.14	1.16	1.22
85	5	16	A	N9-C4	-7.14	1.33	1.37
85	5	523	A	C5-C4	-7.14	1.33	1.38
85	5	2968	G	C2-N2	-7.14	1.27	1.34
39	12	143	GLU	CG-CD	7.14	1.62	1.51
36	1	2409	G	N9-C4	-7.14	1.32	1.38
85	5	805	G	N9-C8	-7.14	1.32	1.37
85	5	935	U	N1-C6	-7.14	1.31	1.38
36	1	862	U	N1-C2	-7.14	1.32	1.38
36	1	2389	C	N1-C6	-7.14	1.32	1.37
85	5	620	U	C2-N3	7.14	1.42	1.37
85	5	878	G	C6-N1	-7.14	1.34	1.39
85	5	1512	U	N1-C6	-7.14	1.31	1.38
36	1	377	A	N9-C4	7.14	1.42	1.37
36	1	2730	G	C2-N3	-7.14	1.27	1.32
36	1	2748	A	N3-C4	-7.14	1.30	1.34
85	5	412	G	N9-C8	-7.14	1.32	1.37
85	5	2767	U	C4-O4	7.14	1.29	1.23
36	1	1374	G	N9-C8	-7.13	1.32	1.37
36	1	1667	A	N9-C4	-7.13	1.33	1.37
36	1	2890	A	N3-C4	-7.13	1.30	1.34
38	4	52	A	N1-C2	-7.13	1.27	1.34
36	1	2363	A	N3-C4	-7.13	1.30	1.34
36	1	504	A	N9-C4	-7.13	1.33	1.37
36	1	883	A	C6-N1	-7.13	1.30	1.35
36	1	2831	G	N9-C8	-7.13	1.32	1.37
85	5	330	G	C8-N7	7.13	1.35	1.30
85	5	1205	A	C6-N1	-7.13	1.30	1.35
85	5	1867	A	N9-C4	-7.13	1.33	1.37
85	5	2123	G	N3-C4	-7.13	1.30	1.35
37	7	85	G	N7-C5	-7.13	1.34	1.39
36	1	68	C	N1-C2	-7.13	1.33	1.40
85	5	1122	U	N1-C2	-7.13	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	919	U	C2-N3	-7.13	1.32	1.37
38	4	7	U	N1-C6	-7.13	1.31	1.38
80	6	1762	A	N7-C5	-7.13	1.34	1.39
85	5	937	G	C2-N2	-7.13	1.27	1.34
85	5	2279	A	N3-C4	-7.13	1.30	1.34
85	5	2396	G	C6-N1	-7.13	1.34	1.39
85	5	2405	C	N1-C6	-7.13	1.32	1.37
36	1	79	U	N1-C6	-7.13	1.31	1.38
36	1	2347	U	N1-C2	-7.13	1.32	1.38
80	6	264	G	C5-C4	7.13	1.43	1.38
85	5	748	U	C5-C6	7.13	1.40	1.34
85	5	1085	A	N9-C4	-7.13	1.33	1.37
85	5	2813	A	C6-N1	-7.13	1.30	1.35
44	17	235	PHE	CD2-CE2	-7.13	1.25	1.39
36	1	1368	U	N1-C6	-7.12	1.31	1.38
69	O3	81	VAL	CB-CG2	-7.12	1.37	1.52
85	5	3031	G	C5-C4	-7.12	1.33	1.38
57	n1	67	VAL	CB-CG1	-7.12	1.37	1.52
36	1	204	A	N9-C4	-7.12	1.33	1.37
36	1	836	A	C5-C4	-7.12	1.33	1.38
36	1	868	C	N1-C6	-7.12	1.32	1.37
36	1	911	C	N1-C2	-7.12	1.33	1.40
36	1	2133	U	N1-C2	-7.12	1.32	1.38
36	1	2636	A	N1-C2	-7.12	1.27	1.34
80	6	1765	A	C5-C4	-7.12	1.33	1.38
85	5	355	A	N7-C5	-7.12	1.34	1.39
85	5	656	A	N7-C5	-7.12	1.34	1.39
85	5	2333	C	C4-C5	-7.12	1.37	1.43
36	1	2919	A	N3-C4	-7.12	1.30	1.34
80	6	129	U	N1-C2	7.12	1.45	1.38
80	6	794	U	N1-C6	7.12	1.44	1.38
36	1	2994	A	N3-C4	-7.12	1.30	1.34
85	5	1226	G	C6-N1	-7.12	1.34	1.39
85	5	1346	G	N7-C5	-7.12	1.34	1.39
85	5	1401	A	C5-C4	-7.12	1.33	1.38
1	2	1638	A	N9-C4	-7.12	1.33	1.37
80	6	987	G	N9-C8	7.12	1.42	1.37
85	5	2937	G	N7-C5	-7.12	1.34	1.39
85	5	3067	C	C2-N3	-7.12	1.30	1.35
36	1	3330	A	C5-C4	-7.12	1.33	1.38
80	6	119	A	N9-C4	-7.12	1.33	1.37
80	6	125	U	N1-C2	-7.12	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2882	U	N1-C2	-7.12	1.32	1.38
37	7	96	U	N1-C6	-7.12	1.31	1.38
36	1	1387	G	N1-C2	-7.11	1.32	1.37
85	5	2180	G	N9-C4	-7.11	1.32	1.38
85	5	2303	A	N9-C8	-7.11	1.32	1.37
85	5	3130	A	C5-C4	-7.11	1.33	1.38
36	1	1145	G	C2-N3	-7.11	1.27	1.32
36	1	2599	U	N1-C6	-7.11	1.31	1.38
36	1	3010	U	N3-C4	-7.11	1.32	1.38
85	5	3183	A	N7-C5	-7.11	1.34	1.39
36	1	591	G	N3-C4	-7.11	1.30	1.35
36	1	3132	C	N3-C4	-7.11	1.28	1.33
85	5	28	C	N3-C4	-7.11	1.28	1.33
36	1	317	A	N9-C4	-7.11	1.33	1.37
36	1	786	A	C5-C4	-7.11	1.33	1.38
85	5	3176	G	N3-C4	-7.11	1.30	1.35
36	1	712	G	N9-C4	-7.11	1.32	1.38
36	1	2413	A	C6-N1	-7.11	1.30	1.35
85	5	899	U	N1-C6	-7.11	1.31	1.38
36	1	494	G	N3-C4	7.10	1.40	1.35
36	1	2813	A	N3-C4	-7.10	1.30	1.34
85	5	415	G	C5-C4	-7.10	1.33	1.38
85	5	3025	C	N3-C4	-7.10	1.28	1.33
36	1	2341	A	N3-C4	-7.10	1.30	1.34
80	6	1108	G	N7-C5	-7.10	1.34	1.39
85	5	642	U	N3-C4	-7.10	1.32	1.38
36	1	114	A	N9-C4	-7.10	1.33	1.37
36	1	2886	U	C4-O4	7.10	1.29	1.23
36	1	633	C	N1-C6	-7.10	1.32	1.37
36	1	1352	A	N7-C5	7.10	1.43	1.39
85	5	50	U	N1-C2	-7.10	1.32	1.38
85	5	1375	G	N3-C4	-7.10	1.30	1.35
85	5	2958	A	C5-C6	-7.10	1.34	1.41
36	1	1535	A	C6-N1	-7.10	1.30	1.35
85	5	2172	A	N9-C4	-7.10	1.33	1.37
85	5	2871	G	C8-N7	7.10	1.35	1.30
1	2	780	G	C6-N1	-7.09	1.34	1.39
36	1	363	G	C6-O6	-7.09	1.17	1.24
80	6	789	A	N7-C5	-7.09	1.34	1.39
85	5	1162	U	N1-C2	-7.09	1.32	1.38
85	5	2335	G	N3-C4	-7.09	1.30	1.35
85	5	2352	A	C5-C4	-7.09	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	884	A	N9-C8	-7.09	1.32	1.37
36	1	2363	A	C6-N1	-7.09	1.30	1.35
36	1	3277	U	C4-O4	7.09	1.29	1.23
36	1	96	G	C5-C6	-7.09	1.35	1.42
36	1	2209	U	N3-C4	7.09	1.44	1.38
70	O4	47	CYS	CB-SG	-7.09	1.70	1.82
85	5	2129	U	N3-C4	-7.09	1.32	1.38
85	5	3390	G	N7-C5	-7.09	1.34	1.39
36	1	362	U	N1-C6	-7.09	1.31	1.38
36	1	2214	A	C6-N1	-7.09	1.30	1.35
37	3	79	A	N3-C4	-7.09	1.30	1.34
39	L2	133	TYR	CD2-CE2	-7.09	1.28	1.39
80	6	54	C	C5-C6	7.09	1.40	1.34
85	5	343	U	C2-N3	-7.09	1.32	1.37
40	l3	114	VAL	CB-CG1	-7.09	1.38	1.52
36	1	858	A	N3-C4	-7.09	1.30	1.34
36	1	2919	A	C5-C4	-7.09	1.33	1.38
85	5	2134	G	C8-N7	-7.09	1.26	1.30
36	1	765	C	N1-C2	7.09	1.47	1.40
36	1	846	A	N9-C4	-7.09	1.33	1.37
36	1	2721	A	N3-C4	-7.09	1.30	1.34
85	5	810	A	C6-N6	-7.09	1.28	1.33
85	5	2847	A	C5-C4	-7.09	1.33	1.38
37	7	121	U	C2-N3	7.09	1.42	1.37
85	5	1919	G	C5-C6	-7.08	1.35	1.42
36	1	1112	A	N9-C4	-7.08	1.33	1.37
36	1	1135	A	C6-N1	-7.08	1.30	1.35
36	1	2689	A	N7-C5	-7.08	1.35	1.39
85	5	2861	U	P-OP1	7.08	1.60	1.49
80	6	796	A	N3-C4	-7.08	1.30	1.34
85	5	2973	G	C2-N3	-7.08	1.27	1.32
85	5	3139	A	C6-N1	-7.08	1.30	1.35
85	5	3223	A	C5-C4	-7.08	1.33	1.38
36	1	928	C	C2-N3	-7.08	1.30	1.35
85	5	3101	G	C5-C4	-7.08	1.33	1.38
36	1	367	A	N3-C4	-7.08	1.30	1.34
36	1	2157	G	N9-C8	-7.08	1.32	1.37
36	1	1470	U	N1-C6	-7.08	1.31	1.38
36	1	2615	G	C6-N1	-7.08	1.34	1.39
85	5	1180	A	C6-N1	-7.08	1.30	1.35
85	5	2698	G	C5-C4	-7.08	1.33	1.38
36	1	649	A	C6-N6	-7.08	1.28	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3285	C	N1-C6	7.08	1.41	1.37
80	6	1100	G	N7-C5	-7.08	1.35	1.39
80	6	1735	U	C2-N3	-7.08	1.32	1.37
36	1	666	A	C5-C4	-7.07	1.33	1.38
80	6	9	U	N1-C2	-7.07	1.32	1.38
85	5	1205	A	N3-C4	-7.07	1.30	1.34
85	5	1444	G	C6-N1	7.07	1.44	1.39
36	1	368	G	C8-N7	-7.07	1.26	1.30
36	1	639	G	P-OP1	-7.07	1.36	1.49
36	1	808	A	N3-C4	-7.07	1.30	1.34
36	1	2656	A	N3-C4	-7.07	1.30	1.34
85	5	2930	A	C5-C4	-7.07	1.33	1.38
85	5	854	G	N9-C8	-7.07	1.32	1.37
85	5	2132	C	N3-C4	-7.07	1.29	1.33
36	1	51	A	C5-C4	-7.07	1.33	1.38
36	1	962	A	C5-C6	-7.07	1.34	1.41
36	1	3102	G	C6-N1	-7.07	1.34	1.39
36	1	3188	G	N3-C4	-7.07	1.30	1.35
36	1	2289	U	N3-C4	-7.07	1.32	1.38
36	1	3005	A	C5-C6	-7.07	1.34	1.41
36	1	3042	U	N1-C2	-7.07	1.32	1.38
36	1	3094	A	C5-C6	-7.07	1.34	1.41
80	6	997	G	N3-C4	-7.07	1.30	1.35
36	1	800	G	N3-C4	-7.06	1.30	1.35
80	6	997	G	C6-N1	-7.06	1.34	1.39
85	5	1456	A	N9-C4	-7.06	1.33	1.37
85	5	1673	G	N7-C5	-7.06	1.35	1.39
85	5	3213	A	C6-N1	-7.06	1.30	1.35
36	1	636	C	C4-C5	-7.06	1.37	1.43
36	1	2317	A	C5-C4	-7.06	1.33	1.38
85	5	98	G	N1-C2	-7.06	1.32	1.37
85	5	2130	G	N3-C4	-7.06	1.30	1.35
85	5	101	G	N7-C5	-7.06	1.35	1.39
36	1	433	A	N9-C8	-7.06	1.32	1.37
36	1	661	G	N7-C5	-7.06	1.35	1.39
36	1	2232	A	N7-C5	-7.06	1.35	1.39
36	1	3310	A	C5-C6	-7.06	1.34	1.41
85	5	1429	G	C6-O6	-7.06	1.17	1.24
80	6	1734	U	C2-N3	-7.06	1.32	1.37
85	5	2804	A	C6-N1	-7.06	1.30	1.35
1	2	73	U	N1-C2	7.05	1.44	1.38
36	1	725	G	C5-C6	-7.05	1.35	1.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2969	A	N7-C5	-7.05	1.35	1.39
39	L2	82	VAL	CB-CG1	-7.05	1.38	1.52
85	5	498	A	C6-N1	-7.05	1.30	1.35
85	5	1070	U	C2-N3	-7.05	1.32	1.37
85	5	2128	C	N1-C6	-7.05	1.32	1.37
85	5	2348	A	N9-C8	-7.05	1.32	1.37
85	5	2882	U	C2-N3	-7.05	1.32	1.37
36	1	887	G	N9-C8	-7.05	1.32	1.37
36	1	1173	U	N1-C6	-7.05	1.31	1.38
85	5	572	A	N9-C4	-7.05	1.33	1.37
85	5	2995	A	N3-C4	-7.05	1.30	1.34
36	1	1444	G	C6-N1	-7.05	1.34	1.39
85	5	2432	A	N3-C4	-7.05	1.30	1.34
85	5	2958	A	C5-C4	-7.05	1.33	1.38
36	1	440	A	C5-C6	7.05	1.47	1.41
80	6	1226	A	N9-C4	7.05	1.42	1.37
85	5	922	U	C2-N3	-7.05	1.32	1.37
85	5	1057	A	C6-N1	-7.05	1.30	1.35
85	5	1189	C	N3-C4	-7.05	1.29	1.33
50	m4	91	CYS	CB-SG	-7.05	1.70	1.82
36	1	1346	G	C6-N1	-7.05	1.34	1.39
36	1	2817	A	N1-C2	-7.05	1.28	1.34
36	1	3330	A	N9-C4	7.05	1.42	1.37
80	6	462	G	N9-C4	-7.05	1.32	1.38
85	5	1101	G	N9-C8	-7.05	1.32	1.37
36	1	417	A	C5-C6	-7.05	1.34	1.41
80	6	616	G	N7-C5	-7.05	1.35	1.39
85	5	1316	C	C2-O2	-7.05	1.18	1.24
85	5	1406	A	C5-C6	-7.05	1.34	1.41
85	5	1411	C	N1-C2	-7.05	1.33	1.40
1	2	445	A	N9-C4	7.04	1.42	1.37
36	1	1335	C	N1-C6	-7.04	1.32	1.37
85	5	2977	G	N7-C5	-7.04	1.35	1.39
85	5	3085	G	N3-C4	-7.04	1.30	1.35
1	2	1633	U	C2-N3	-7.04	1.32	1.37
36	1	633	C	C2-N3	-7.04	1.30	1.35
36	1	683	U	N1-C2	-7.04	1.32	1.38
36	1	1395	G	C5-C6	-7.04	1.35	1.42
80	6	1012	U	C2-N3	-7.04	1.32	1.37
85	5	3010	U	C2-O2	-7.04	1.16	1.22
85	5	1910	A	N7-C5	-7.04	1.35	1.39
85	5	3136	G	C2-N2	-7.04	1.27	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	n3	4	ASN	CB-CG	7.04	1.67	1.51
36	1	1198	C	N3-C4	-7.04	1.29	1.33
36	1	2924	U	N1-C2	-7.04	1.32	1.38
80	6	565	C	N1-C6	-7.04	1.32	1.37
80	6	1113	A	C6-N1	-7.04	1.30	1.35
52	m6	16	VAL	CB-CG1	-7.04	1.38	1.52
1	2	553	G	N7-C5	-7.04	1.35	1.39
36	1	1387	G	C5-C4	-7.04	1.33	1.38
85	5	509	U	N1-C6	-7.04	1.31	1.38
85	5	533	A	N9-C4	-7.04	1.33	1.37
85	5	586	C	N3-C4	-7.04	1.29	1.33
85	5	1413	G	N9-C8	7.04	1.42	1.37
85	5	2876	C	C2-N3	-7.04	1.30	1.35
36	1	54	C	N1-C6	-7.03	1.32	1.37
80	6	1765	A	N9-C8	-7.03	1.32	1.37
85	5	2950	G	C5-C6	-7.03	1.35	1.42
85	5	1255	C	P-OP2	7.03	1.60	1.49
36	1	38	U	C2-N3	-7.03	1.32	1.37
36	1	637	C	C4-N4	-7.03	1.27	1.33
36	1	641	C	C2-O2	-7.03	1.18	1.24
36	1	1741	A	N9-C4	-7.03	1.33	1.37
36	1	1187	C	N1-C2	-7.03	1.33	1.40
85	5	1153	A	N9-C8	-7.03	1.32	1.37
85	5	1202	A	N7-C5	-7.03	1.35	1.39
85	5	2964	G	N1-C2	-7.03	1.32	1.37
36	1	77	A	N3-C4	-7.03	1.30	1.34
36	1	655	C	C4-C5	-7.03	1.37	1.43
36	1	3114	A	N3-C4	-7.03	1.30	1.34
1	2	1003	A	C6-N1	-7.02	1.30	1.35
36	1	1429	G	C5-C4	-7.02	1.33	1.38
80	6	1128	C	N3-C4	-7.02	1.29	1.33
85	5	3058	U	N1-C2	-7.02	1.32	1.38
69	o3	8	TYR	CD1-CE1	-7.02	1.28	1.39
1	2	1121	A	N3-C4	-7.02	1.30	1.34
85	5	2897	A	N9-C8	-7.02	1.32	1.37
36	1	829	U	N1-C2	-7.02	1.32	1.38
38	4	4	C	C2-O2	-7.02	1.18	1.24
85	5	2291	A	C6-N1	-7.02	1.30	1.35
85	5	2920	U	C2-O2	-7.02	1.16	1.22
53	m7	21	TYR	CD1-CE1	-7.02	1.28	1.39
36	1	284	A	C6-N1	-7.02	1.30	1.35
36	1	1606	U	N1-C2	-7.02	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2248	C	N1-C6	-7.02	1.32	1.37
85	5	396	A	C6-N1	-7.02	1.30	1.35
85	5	994	G	C6-N1	-7.02	1.34	1.39
85	5	1867	A	C5-C6	-7.02	1.34	1.41
36	1	1309	U	N1-C6	-7.01	1.31	1.38
85	5	917	A	C5-C6	-7.01	1.34	1.41
37	7	117	A	N9-C4	-7.01	1.33	1.37
36	1	2289	U	N1-C2	-7.01	1.32	1.38
36	1	2806	U	C2-O2	-7.01	1.16	1.22
85	5	2424	A	C6-N1	-7.01	1.30	1.35
41	L4	71	VAL	CB-CG2	-7.01	1.38	1.52
85	5	2140	U	C2-N3	-7.01	1.32	1.37
85	5	2340	U	C4-C5	-7.01	1.37	1.43
36	1	43	A	C5-C6	-7.01	1.34	1.41
36	1	1380	G	N3-C4	-7.01	1.30	1.35
36	1	3273	A	N3-C4	-7.01	1.30	1.34
36	1	3276	G	C6-N1	7.01	1.44	1.39
80	6	1102	G	N9-C8	-7.01	1.32	1.37
85	5	652	G	C5-C4	-7.01	1.33	1.38
85	5	2273	G	C5-C6	7.01	1.49	1.42
85	5	999	G	C8-N7	-7.00	1.26	1.30
85	5	2420	C	C4-C5	-7.00	1.37	1.43
85	5	3107	U	C4-C5	-7.00	1.37	1.43
37	7	64	A	N3-C4	7.00	1.39	1.34
36	1	2525	G	C5-C4	-7.00	1.33	1.38
85	5	682	U	N1-C2	-7.00	1.32	1.38
85	5	1476	G	C8-N7	-7.00	1.26	1.30
85	5	2369	G	C6-O6	-7.00	1.17	1.24
85	5	3182	G	C5-C4	-7.00	1.33	1.38
85	5	3379	C	P-OP2	7.00	1.60	1.49
37	3	82	G	N9-C8	-7.00	1.32	1.37
85	5	1389	G	N3-C4	-7.00	1.30	1.35
85	5	2948	C	N1-C6	-7.00	1.32	1.37
85	5	345	G	N3-C4	-7.00	1.30	1.35
36	1	2415	C	N3-C4	-7.00	1.29	1.33
37	3	72	A	N3-C4	-7.00	1.30	1.34
85	5	867	G	N7-C5	-7.00	1.35	1.39
36	1	1195	A	N3-C4	-7.00	1.30	1.34
36	1	1607	U	N1-C2	-7.00	1.32	1.38
85	5	325	A	C5-C4	-7.00	1.33	1.38
85	5	2811	A	C6-N1	-7.00	1.30	1.35
85	5	2843	U	C2-N3	-7.00	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	628	A	N3-C4	-7.00	1.30	1.34
85	5	3047	U	C2-N3	-7.00	1.32	1.37
36	1	827	A	N9-C4	-6.99	1.33	1.37
36	1	2811	A	N9-C4	-6.99	1.33	1.37
85	5	509	U	C2-N3	-6.99	1.32	1.37
36	1	1435	A	C6-N1	-6.99	1.30	1.35
36	1	2147	A	N3-C4	-6.99	1.30	1.34
36	1	2349	U	N3-C4	-6.99	1.32	1.38
36	1	2200	U	N1-C2	-6.99	1.32	1.38
80	6	1722	A	C6-N1	-6.99	1.30	1.35
85	5	1159	A	C5-C4	-6.99	1.33	1.38
85	5	3083	G	N3-C4	-6.99	1.30	1.35
85	5	98	G	N7-C5	-6.99	1.35	1.39
85	5	2856	G	N9-C8	-6.99	1.32	1.37
36	1	1379	G	N9-C4	-6.99	1.32	1.38
85	5	504	A	C6-N1	-6.99	1.30	1.35
85	5	802	C	N1-C6	-6.99	1.32	1.37
85	5	1881	A	C5-C4	-6.99	1.33	1.38
36	1	182	U	C2-N3	-6.98	1.32	1.37
36	1	2973	G	N9-C8	-6.98	1.32	1.37
85	5	333	G	N3-C4	-6.98	1.30	1.35
36	1	71	A	N9-C8	-6.98	1.32	1.37
36	1	792	G	N3-C4	-6.98	1.30	1.35
36	1	1142	G	N3-C4	-6.98	1.30	1.35
85	5	428	A	N9-C4	-6.98	1.33	1.37
1	2	1727	A	N3-C4	-6.98	1.30	1.34
36	1	1109	U	N1-C6	-6.98	1.31	1.38
36	1	1201	C	N3-C4	6.98	1.38	1.33
36	1	2608	G	N3-C4	-6.98	1.30	1.35
85	5	1489	A	N7-C5	-6.98	1.35	1.39
85	5	3246	G	N7-C5	-6.98	1.35	1.39
36	1	677	A	N3-C4	-6.98	1.30	1.34
36	1	986	U	C2-O2	-6.98	1.16	1.22
36	1	2615	G	C2-N3	-6.98	1.27	1.32
85	5	1149	G	C5-C4	6.98	1.43	1.38
37	7	6	C	N3-C4	-6.98	1.29	1.33
36	1	178	U	N1-C2	6.98	1.44	1.38
36	1	361	A	N3-C4	-6.98	1.30	1.34
36	1	603	A	N7-C5	6.98	1.43	1.39
36	1	1761	C	N1-C2	6.98	1.47	1.40
36	1	3205	G	C6-N1	-6.98	1.34	1.39
80	6	1775	U	C2-N3	-6.98	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	3	A	N7-C5	-6.98	1.35	1.39
36	1	90	C	N1-C6	-6.97	1.32	1.37
85	5	1066	G	C5-C4	-6.97	1.33	1.38
85	5	2401	A	N7-C5	6.97	1.43	1.39
36	1	128	G	N9-C8	-6.97	1.32	1.37
36	1	1441	G	N1-C2	-6.97	1.32	1.37
36	1	1486	G	C5-C4	-6.97	1.33	1.38
36	1	2186	U	C2-N3	-6.97	1.32	1.37
85	5	826	G	N3-C4	-6.97	1.30	1.35
85	5	1949	G	N3-C4	6.97	1.40	1.35
85	5	106	A	N9-C4	-6.97	1.33	1.37
85	5	1794	G	N7-C5	-6.97	1.35	1.39
36	1	955	U	C2-N3	-6.97	1.32	1.37
36	1	940	G	N9-C8	-6.97	1.32	1.37
36	1	3025	C	C2-N3	-6.97	1.30	1.35
36	1	3141	A	N7-C5	-6.97	1.35	1.39
85	5	1867	A	C6-N1	-6.97	1.30	1.35
85	5	391	A	C5-C4	-6.97	1.33	1.38
85	5	853	G	C6-N1	-6.97	1.34	1.39
85	5	999	G	C5-C6	-6.97	1.35	1.42
85	5	1598	G	N9-C4	-6.97	1.32	1.38
1	2	1640	U	C2-O2	6.96	1.28	1.22
36	1	66	A	C6-N1	-6.96	1.30	1.35
36	1	88	A	N9-C8	-6.96	1.32	1.37
85	5	91	G	C6-N1	-6.96	1.34	1.39
85	5	1159	A	N3-C4	-6.96	1.30	1.34
85	5	2604	U	N1-C2	-6.96	1.32	1.38
36	1	1134	G	N3-C4	-6.96	1.30	1.35
36	1	1927	G	N3-C4	-6.96	1.30	1.35
6	s4	60	GLU	CG-CD	6.96	1.62	1.51
36	1	1536	G	C5-C4	-6.96	1.33	1.38
85	5	1368	U	N1-C2	-6.96	1.32	1.38
85	5	2590	A	N7-C5	-6.96	1.35	1.39
36	1	2615	G	N3-C4	-6.96	1.30	1.35
85	5	2864	A	P-OP1	6.96	1.60	1.49
36	1	1809	A	N9-C4	-6.96	1.33	1.37
76	Q0	110	CYS	CB-SG	-6.96	1.70	1.82
80	6	719	U	C2-N3	6.96	1.42	1.37
80	6	1729	C	N1-C2	-6.96	1.33	1.40
85	5	1069	C	C2-N3	-6.96	1.30	1.35
85	5	1580	A	N9-C4	6.96	1.42	1.37
85	5	2107	A	N9-C4	-6.96	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	52	G	P-OP1	6.96	1.60	1.49
59	n3	19	VAL	CB-CG2	-6.96	1.38	1.52
85	5	2284	C	C2-O2	6.96	1.30	1.24
1	2	1637	G	C6-N1	-6.96	1.34	1.39
36	1	99	A	C5-C4	-6.96	1.33	1.38
36	1	1003	A	N3-C4	-6.96	1.30	1.34
85	5	49	A	C5-C4	-6.95	1.33	1.38
85	5	1401	A	N3-C4	-6.95	1.30	1.34
38	8	63	G	N9-C4	-6.95	1.32	1.38
36	1	1328	C	N1-C6	-6.95	1.32	1.37
36	1	1433	A	N9-C4	6.95	1.42	1.37
85	5	1450	G	C2-N3	-6.95	1.27	1.32
85	5	2620	G	N3-C4	-6.95	1.30	1.35
36	1	211	A	N7-C5	-6.95	1.35	1.39
36	1	2765	C	N1-C6	-6.95	1.32	1.37
37	3	95	A	N7-C5	-6.95	1.35	1.39
85	5	1844	C	N3-C4	-6.95	1.29	1.33
85	5	2249	G	N7-C5	-6.95	1.35	1.39
85	5	2309	A	N9-C8	-6.95	1.32	1.37
36	1	1009	A	N3-C4	-6.95	1.30	1.34
36	1	2280	A	C6-N1	-6.95	1.30	1.35
85	5	385	A	N3-C4	-6.95	1.30	1.34
85	5	2817	A	C5-C6	-6.95	1.34	1.41
85	5	3178	A	N7-C5	-6.95	1.35	1.39
36	1	796	U	N1-C6	-6.94	1.31	1.38
85	5	400	G	N7-C5	-6.94	1.35	1.39
36	1	359	U	C2-N3	-6.94	1.32	1.37
38	4	38	U	C2-N3	-6.94	1.32	1.37
85	5	103	G	N3-C4	-6.94	1.30	1.35
85	5	953	G	C2-N3	-6.94	1.27	1.32
85	5	2392	C	N3-C4	-6.94	1.29	1.33
85	5	2992	U	C2-N3	-6.94	1.32	1.37
37	7	5	G	N9-C8	-6.94	1.32	1.37
36	1	2918	G	N3-C4	-6.94	1.30	1.35
85	5	2569	A	N3-C4	6.94	1.39	1.34
85	5	794	U	N1-C6	-6.94	1.31	1.38
85	5	2850	G	N9-C4	-6.94	1.32	1.38
36	1	338	A	C6-N1	-6.94	1.30	1.35
36	1	594	U	N1-C6	-6.94	1.31	1.38
36	1	2714	G	N9-C4	-6.94	1.32	1.38
85	5	252	U	C2-N3	6.94	1.42	1.37
85	5	805	G	C6-N1	-6.94	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3094	A	N9-C4	-6.94	1.33	1.37
36	1	1318	A	N3-C4	-6.94	1.30	1.34
36	1	1362	G	C5-C4	-6.94	1.33	1.38
36	1	1655	G	N9-C8	-6.94	1.32	1.37
80	6	1673	G	C5-C4	6.94	1.43	1.38
36	1	652	G	N1-C2	-6.93	1.32	1.37
36	1	1806	A	N9-C4	-6.93	1.33	1.37
80	6	709	C	N3-C4	6.93	1.38	1.33
85	5	699	A	N7-C5	-6.93	1.35	1.39
85	5	1492	G	C5-C6	-6.93	1.35	1.42
85	5	2915	U	N1-C6	-6.93	1.31	1.38
85	5	606	C	N1-C6	-6.93	1.32	1.37
85	5	1583	A	N3-C4	-6.93	1.30	1.34
85	5	2110	G	C6-N1	-6.93	1.34	1.39
80	6	465	G	N3-C4	-6.93	1.30	1.35
1	2	411	C	N1-C6	-6.93	1.32	1.37
36	1	797	U	N1-C2	-6.93	1.32	1.38
36	1	2377	G	N9-C8	-6.93	1.32	1.37
36	1	2766	U	N1-C6	-6.93	1.31	1.38
85	5	1637	A	N3-C4	-6.93	1.30	1.34
85	5	2982	A	N7-C5	-6.93	1.35	1.39
85	5	822	G	C5-C6	-6.93	1.35	1.42
36	1	102	C	N1-C2	-6.93	1.33	1.40
36	1	1408	G	N9-C8	-6.93	1.33	1.37
80	6	1750	A	N9-C4	-6.93	1.33	1.37
85	5	2982	A	N3-C4	-6.93	1.30	1.34
36	1	422	A	N3-C4	-6.92	1.30	1.34
36	1	1418	A	C5-C6	-6.92	1.34	1.41
36	1	3307	A	N3-C4	-6.92	1.30	1.34
85	5	55	G	N7-C5	-6.92	1.35	1.39
85	5	105	C	N1-C6	-6.92	1.32	1.37
85	5	283	G	C5-C4	-6.92	1.33	1.38
80	6	1139	A	C5-C4	-6.92	1.33	1.38
85	5	2379	U	N1-C6	-6.92	1.31	1.38
85	5	3275	U	C2-O2	6.92	1.28	1.22
85	5	1449	A	C5-C4	-6.92	1.33	1.38
85	5	1658	G	C5-C4	-6.92	1.33	1.38
71	O5	14	LYS	CD-CE	6.92	1.68	1.51
80	6	436	A	N7-C5	-6.92	1.35	1.39
80	6	1382	A	P-OP1	6.92	1.60	1.49
85	5	40	A	N3-C4	-6.92	1.30	1.34
85	5	907	G	C5-C6	-6.92	1.35	1.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	976	U	N1-C6	-6.92	1.31	1.38
85	5	1767	C	N1-C6	6.92	1.41	1.37
64	n8	5	PHE	CD2-CE2	-6.92	1.25	1.39
36	1	3030	G	C6-N1	-6.92	1.34	1.39
48	M1	52	TYR	CD2-CE2	-6.92	1.28	1.39
85	5	3138	U	N1-C6	-6.92	1.31	1.38
36	1	2232	A	N3-C4	-6.92	1.30	1.34
38	4	110	C	N1-C6	-6.92	1.33	1.37
85	5	2320	A	C6-N1	-6.92	1.30	1.35
38	4	4	C	N3-C4	-6.91	1.29	1.33
85	5	714	G	N9-C4	-6.91	1.32	1.38
85	5	1032	C	N3-C4	6.91	1.38	1.33
36	1	369	A	N7-C5	-6.91	1.35	1.39
36	1	1850	A	C6-N1	-6.91	1.30	1.35
53	M7	91	VAL	CB-CG1	-6.91	1.38	1.52
44	l7	133	TYR	CD2-CE2	-6.91	1.28	1.39
36	1	827	A	N3-C4	-6.91	1.30	1.34
85	5	307	A	N3-C4	-6.91	1.30	1.34
36	1	1153	A	C6-N1	-6.91	1.30	1.35
36	1	2502	A	N7-C5	6.91	1.43	1.39
85	5	999	G	N3-C4	-6.91	1.30	1.35
36	1	2368	A	C6-N1	-6.91	1.30	1.35
36	1	614	C	C4-C5	-6.91	1.37	1.43
36	1	974	G	N1-C2	-6.91	1.32	1.37
36	1	2396	G	N9-C4	-6.91	1.32	1.38
80	6	332	U	C2-N3	-6.91	1.32	1.37
85	5	903	U	N3-C4	-6.91	1.32	1.38
85	5	1372	C	N1-C6	-6.91	1.33	1.37
50	m4	17	VAL	CB-CG2	-6.91	1.38	1.52
36	1	80	G	N9-C8	-6.90	1.33	1.37
36	1	882	A	N9-C8	-6.90	1.32	1.37
80	6	1599	C	C2-O2	6.90	1.30	1.24
36	1	1053	A	N9-C4	-6.90	1.33	1.37
36	1	2397	A	N7-C5	-6.90	1.35	1.39
38	4	4	C	C2-N3	-6.90	1.30	1.35
80	6	420	A	C5-C4	6.90	1.43	1.38
85	5	854	G	C6-N1	-6.90	1.34	1.39
80	6	1093	A	N9-C4	6.90	1.42	1.37
85	5	833	G	C5-C4	-6.90	1.33	1.38
85	5	1613	A	C5-C4	-6.90	1.33	1.38
85	5	2957	G	C8-N7	-6.90	1.26	1.30
85	5	3178	A	N3-C4	-6.90	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	662	U	C2-N3	-6.90	1.32	1.37
85	5	1884	A	C6-N1	-6.90	1.30	1.35
36	1	266	A	N3-C4	-6.90	1.30	1.34
36	1	2918	G	N9-C8	-6.90	1.33	1.37
80	6	1661	U	N1-C2	-6.90	1.32	1.38
36	1	3307	A	N9-C4	-6.90	1.33	1.37
36	1	1263	A	N9-C4	6.89	1.42	1.37
36	1	1340	G	N9-C8	-6.89	1.33	1.37
36	1	2316	G	N3-C4	-6.89	1.30	1.35
85	5	343	U	C2-O2	-6.89	1.16	1.22
85	5	2881	C	N1-C2	-6.89	1.33	1.40
85	5	3139	A	N9-C8	-6.89	1.32	1.37
36	1	711	A	N9-C4	-6.89	1.33	1.37
80	6	1648	A	N7-C5	-6.89	1.35	1.39
85	5	383	G	C5-C6	6.89	1.49	1.42
85	5	2955	U	N1-C2	-6.89	1.32	1.38
36	1	2240	G	C5-C4	-6.89	1.33	1.38
1	2	1115	A	N9-C4	-6.89	1.33	1.37
36	1	56	G	N3-C4	-6.89	1.30	1.35
36	1	1825	G	C5-C6	-6.89	1.35	1.42
48	M1	52	TYR	CD1-CE1	-6.89	1.29	1.39
80	6	1634	C	N1-C2	6.89	1.47	1.40
85	5	2273	G	C5-C4	6.89	1.43	1.38
85	5	2348	A	N3-C4	-6.89	1.30	1.34
36	1	2190	U	N1-C6	-6.89	1.31	1.38
85	5	1420	C	C2-N3	-6.89	1.30	1.35
85	5	2986	U	N1-C2	-6.89	1.32	1.38
36	1	2955	U	N1-C6	-6.89	1.31	1.38
85	5	2598	G	N3-C4	-6.89	1.30	1.35
36	1	1116	G	C6-N1	-6.88	1.34	1.39
36	1	621	A	N9-C8	6.88	1.43	1.37
36	1	665	A	C6-N6	-6.88	1.28	1.33
36	1	1438	U	N3-C4	-6.88	1.32	1.38
80	6	965	U	C2-N3	-6.88	1.32	1.37
80	6	1643	U	N1-C6	-6.88	1.31	1.38
85	5	49	A	N9-C4	-6.88	1.33	1.37
85	5	413	U	N1-C2	-6.88	1.32	1.38
85	5	936	A	N7-C5	-6.88	1.35	1.39
85	5	3225	C	C4-C5	-6.88	1.37	1.43
36	1	3005	A	N9-C4	-6.88	1.33	1.37
85	5	2394	G	C8-N7	-6.88	1.26	1.30
1	2	1096	A	N9-C4	-6.88	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	682	U	N3-C4	-6.88	1.32	1.38
85	5	942	U	C4-O4	6.88	1.29	1.23
85	5	1874	A	N3-C4	-6.88	1.30	1.34
85	5	3248	C	N1-C6	-6.88	1.33	1.37
38	8	125	U	N1-C6	6.88	1.44	1.38
36	1	39	A	C6-N1	-6.88	1.30	1.35
36	1	2427	U	N3-C4	-6.88	1.32	1.38
36	1	2943	G	N3-C4	-6.88	1.30	1.35
80	6	357	G	N9-C8	-6.88	1.33	1.37
85	5	847	A	N3-C4	-6.88	1.30	1.34
85	5	2356	A	C6-N6	-6.88	1.28	1.33
85	5	3369	G	C6-N1	-6.88	1.34	1.39
36	1	3273	A	C6-N1	-6.88	1.30	1.35
85	5	508	U	C2-N3	6.88	1.42	1.37
38	8	138	A	N9-C4	-6.88	1.33	1.37
36	1	951	A	N7-C5	-6.87	1.35	1.39
36	1	2504	U	C2-N3	6.87	1.42	1.37
36	1	3098	G	C6-N1	-6.87	1.34	1.39
36	1	3362	A	C5-C6	-6.87	1.34	1.41
85	5	27	C	N3-C4	-6.87	1.29	1.33
36	1	2342	U	N1-C2	-6.87	1.32	1.38
38	4	1	A	C5-C6	-6.87	1.34	1.41
85	5	569	A	C5-C4	-6.87	1.33	1.38
85	5	777	U	N3-C4	6.87	1.44	1.38
85	5	1910	A	C6-N1	-6.87	1.30	1.35
85	5	2995	A	C6-N1	-6.87	1.30	1.35
1	2	114	C	N1-C6	-6.87	1.33	1.37
36	1	313	A	N9-C4	-6.87	1.33	1.37
36	1	2853	A	C5-C4	-6.87	1.33	1.38
85	5	2755	C	C2-O2	-6.87	1.18	1.24
36	1	947	G	C6-N1	-6.87	1.34	1.39
36	1	1312	C	C4-C5	-6.87	1.37	1.43
36	1	2334	U	C2-N3	-6.87	1.32	1.37
36	1	2938	G	N9-C8	-6.87	1.33	1.37
36	1	2988	C	N1-C2	-6.87	1.33	1.40
85	5	1476	G	N3-C4	-6.87	1.30	1.35
85	5	3035	A	N3-C4	-6.87	1.30	1.34
36	1	1430	U	N1-C6	-6.86	1.31	1.38
85	5	1314	C	N3-C4	-6.86	1.29	1.33
39	12	175	VAL	CB-CG2	-6.86	1.38	1.52
85	5	28	C	C2-N3	-6.86	1.30	1.35
1	2	321	C	N1-C6	6.86	1.41	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	44	A	N7-C5	-6.86	1.35	1.39
85	5	282	G	N1-C2	-6.86	1.32	1.37
85	5	776	U	N3-C4	-6.86	1.32	1.38
85	5	995	U	N3-C4	-6.86	1.32	1.38
85	5	3200	G	N7-C5	-6.86	1.35	1.39
36	1	905	U	N1-C6	-6.86	1.31	1.38
85	5	834	U	N1-C2	-6.86	1.32	1.38
85	5	911	C	N1-C2	-6.86	1.33	1.40
36	1	1532	C	N1-C6	-6.86	1.33	1.37
36	1	2649	A	C6-N1	-6.86	1.30	1.35
85	5	622	A	N9-C4	-6.86	1.33	1.37
85	5	2743	A	C5-C4	-6.86	1.33	1.38
36	1	1428	A	C5-C6	-6.86	1.34	1.41
36	1	1888	U	C2-N3	-6.86	1.32	1.37
36	1	3014	U	C2-N3	-6.86	1.32	1.37
85	5	2364	G	N9-C8	-6.86	1.33	1.37
36	1	1394	A	C5-C6	-6.85	1.34	1.41
80	6	1800	A	N3-C4	6.85	1.39	1.34
85	5	296	A	N9-C4	-6.85	1.33	1.37
85	5	2304	C	N1-C2	-6.85	1.33	1.40
36	1	614	C	N1-C2	-6.85	1.33	1.40
36	1	2908	G	N7-C5	-6.85	1.35	1.39
85	5	1927	G	C5-C6	-6.85	1.35	1.42
85	5	3035	A	N9-C4	-6.85	1.33	1.37
36	1	48	A	N9-C8	-6.85	1.32	1.37
36	1	198	A	N7-C5	-6.85	1.35	1.39
36	1	727	G	N7-C5	-6.85	1.35	1.39
36	1	1425	U	N3-C4	-6.85	1.32	1.38
36	1	1667	A	N3-C4	-6.85	1.30	1.34
1	2	278	U	C2-N3	6.85	1.42	1.37
36	1	1145	G	N3-C4	-6.85	1.30	1.35
36	1	1305	U	N3-C4	-6.85	1.32	1.38
36	1	1355	A	C5-C6	6.85	1.47	1.41
80	6	845	G	N7-C5	6.85	1.43	1.39
80	6	1147	A	N3-C4	-6.85	1.30	1.34
80	6	1746	A	N3-C4	-6.85	1.30	1.34
85	5	1911	A	N3-C4	-6.85	1.30	1.34
85	5	1924	U	C4-O4	-6.85	1.18	1.23
1	2	1130	A	C5-C6	-6.85	1.34	1.41
36	1	98	G	N7-C5	-6.85	1.35	1.39
36	1	106	A	N9-C4	-6.85	1.33	1.37
36	1	804	C	N1-C6	-6.85	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	31	G	C5-C6	-6.85	1.35	1.42
85	5	2825	C	N1-C6	-6.85	1.33	1.37
37	7	45	A	C5-C4	-6.85	1.33	1.38
36	1	910	G	N7-C5	-6.85	1.35	1.39
36	1	1468	A	N7-C5	-6.85	1.35	1.39
36	1	2169	G	C2-N3	6.85	1.38	1.32
85	5	1184	A	N9-C8	-6.85	1.32	1.37
85	5	2147	A	C5-C6	-6.85	1.34	1.41
36	1	578	A	C6-N6	-6.84	1.28	1.33
85	5	2707	C	C5-C6	6.84	1.39	1.34
36	1	2323	G	N9-C8	-6.84	1.33	1.37
36	1	3191	G	N3-C4	-6.84	1.30	1.35
85	5	3132	C	C2-N3	-6.84	1.30	1.35
38	8	81	U	N1-C2	6.84	1.44	1.38
1	2	1792	G	N3-C4	6.84	1.40	1.35
36	1	915	A	C6-N1	-6.84	1.30	1.35
80	6	1275	A	N9-C4	-6.84	1.33	1.37
85	5	968	G	N9-C8	-6.84	1.33	1.37
85	5	2187	G	N3-C4	-6.84	1.30	1.35
36	1	2294	U	N1-C2	-6.84	1.32	1.38
36	1	2396	G	N9-C8	-6.84	1.33	1.37
85	5	2375	G	C6-O6	-6.84	1.18	1.24
85	5	3005	A	N9-C8	-6.84	1.32	1.37
36	1	934	G	C5-C6	-6.84	1.35	1.42
85	5	2551	U	C2-N3	-6.84	1.32	1.37
36	1	384	A	C6-N1	-6.84	1.30	1.35
36	1	2818	U	C4-C5	-6.84	1.37	1.43
85	5	869	G	C6-N1	-6.84	1.34	1.39
85	5	1374	G	C5-C6	-6.84	1.35	1.42
85	5	2831	G	N9-C8	-6.84	1.33	1.37
85	5	2234	G	N9-C4	-6.83	1.32	1.38
85	5	2328	U	C2-O2	-6.83	1.16	1.22
85	5	2938	G	N1-C2	-6.83	1.32	1.37
36	1	66	A	N7-C5	-6.83	1.35	1.39
85	5	2122	G	N9-C4	-6.83	1.32	1.38
36	1	2922	G	N9-C8	-6.83	1.33	1.37
38	4	72	A	N9-C4	-6.83	1.33	1.37
85	5	2224	A	N3-C4	-6.83	1.30	1.34
37	7	92	A	C6-N1	-6.83	1.30	1.35
36	1	2152	A	C6-N1	-6.83	1.30	1.35
85	5	1909	A	C5-C4	-6.83	1.33	1.38
36	1	1500	G	N3-C4	-6.83	1.30	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	93	A	C5-C4	-6.83	1.33	1.38
38	8	84	C	N3-C4	6.83	1.38	1.33
36	1	676	G	C6-N1	-6.83	1.34	1.39
80	6	305	C	N1-C6	-6.83	1.33	1.37
85	5	2599	U	N1-C2	-6.83	1.32	1.38
36	1	2199	G	N7-C5	-6.83	1.35	1.39
1	2	440	U	C2-N3	-6.82	1.32	1.37
85	5	1508	C	N3-C4	-6.82	1.29	1.33
85	5	1899	G	N9-C8	-6.82	1.33	1.37
85	5	2864	A	C5-C6	-6.82	1.34	1.41
85	5	3149	G	N7-C5	-6.82	1.35	1.39
36	1	779	G	N3-C4	-6.82	1.30	1.35
36	1	1144	U	C2-N3	-6.82	1.32	1.37
36	1	1576	G	C6-N1	6.82	1.44	1.39
36	1	897	U	N1-C2	-6.82	1.32	1.38
80	6	794	U	N1-C2	6.82	1.44	1.38
85	5	1349	G	N1-C2	6.82	1.43	1.37
36	1	913	A	C5-C6	-6.82	1.34	1.41
85	5	2425	G	N9-C4	-6.82	1.32	1.38
85	5	2615	G	N9-C4	-6.82	1.32	1.38
85	5	3187	A	N9-C4	-6.82	1.33	1.37
85	5	3376	A	N3-C4	-6.82	1.30	1.34
63	n7	99	GLU	CG-CD	6.82	1.62	1.51
85	5	49	A	N3-C4	-6.82	1.30	1.34
85	5	1598	G	N1-C2	-6.82	1.32	1.37
85	5	3138	U	C4-C5	-6.82	1.37	1.43
36	1	961	C	N1-C6	-6.81	1.33	1.37
85	5	504	A	N3-C4	-6.81	1.30	1.34
85	5	1390	A	N3-C4	-6.81	1.30	1.34
85	5	1872	C	C2-N3	-6.81	1.30	1.35
36	1	368	G	N9-C4	-6.81	1.32	1.38
36	1	424	G	C8-N7	-6.81	1.26	1.30
36	1	1164	G	N3-C4	-6.81	1.30	1.35
36	1	1415	U	N1-C6	-6.81	1.31	1.38
36	1	2243	A	C5-C4	-6.81	1.33	1.38
36	1	2501	U	C2-N3	6.81	1.42	1.37
85	5	960	U	C2-N3	6.81	1.42	1.37
85	5	3039	C	N1-C2	-6.81	1.33	1.40
85	5	3181	C	N1-C2	-6.81	1.33	1.40
36	1	2173	U	C2-O2	-6.81	1.16	1.22
36	1	2798	C	N1-C6	-6.81	1.33	1.37
80	6	1743	U	N1-C6	-6.81	1.31	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	410	U	C2-O2	-6.81	1.16	1.22
85	5	1330	A	C5-C6	-6.81	1.34	1.41
85	5	2364	G	C5-C4	-6.81	1.33	1.38
85	5	2549	G	N1-C2	6.81	1.43	1.37
36	1	213	A	C5-C6	-6.81	1.34	1.41
36	1	1094	U	N3-C4	6.81	1.44	1.38
85	5	854	G	N3-C4	-6.81	1.30	1.35
85	5	1575	A	C6-N1	6.81	1.40	1.35
85	5	2396	G	N3-C4	-6.81	1.30	1.35
85	5	3071	U	N1-C6	-6.81	1.31	1.38
38	8	14	C	N3-C4	-6.81	1.29	1.33
36	1	639	G	C8-N7	-6.81	1.26	1.30
85	5	1081	U	C4-O4	6.81	1.29	1.23
36	1	2190	U	N1-C2	-6.80	1.32	1.38
36	1	2214	A	N9-C4	-6.80	1.33	1.37
85	5	1307	G	P-O5'	-6.80	1.52	1.59
85	5	2703	A	C5-C6	-6.80	1.34	1.41
36	1	584	G	N9-C8	-6.80	1.33	1.37
36	1	1331	U	N1-C6	-6.80	1.31	1.38
36	1	2670	G	C5-C6	-6.80	1.35	1.42
85	5	2982	A	C8-N7	-6.80	1.26	1.31
36	1	593	C	N1-C6	-6.80	1.33	1.37
36	1	1026	A	N7-C5	6.80	1.43	1.39
36	1	1584	U	C4-O4	-6.80	1.18	1.23
36	1	3094	A	C6-N1	-6.80	1.30	1.35
38	4	43	A	C5-C6	-6.80	1.34	1.41
80	6	109	G	N9-C4	-6.80	1.32	1.38
85	5	442	G	C2-N3	6.80	1.38	1.32
85	5	1145	G	N7-C5	-6.80	1.35	1.39
36	1	269	G	C2-N3	-6.80	1.27	1.32
36	1	633	C	N3-C4	-6.80	1.29	1.33
85	5	561	C	N3-C4	-6.80	1.29	1.33
85	5	2825	C	C2-N3	-6.80	1.30	1.35
38	4	111	A	N7-C5	-6.80	1.35	1.39
85	5	822	G	C5-C4	-6.80	1.33	1.38
85	5	965	A	N1-C2	-6.80	1.28	1.34
85	5	1580	A	N3-C4	6.80	1.39	1.34
85	5	1617	G	N7-C5	-6.80	1.35	1.39
85	5	2706	G	C6-N1	-6.80	1.34	1.39
85	5	3142	A	C5-C4	-6.80	1.33	1.38
38	8	104	A	C5-C4	-6.80	1.33	1.38
85	5	818	C	N1-C2	-6.79	1.33	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2846	U	C5-C6	-6.79	1.28	1.34
36	1	4	U	N3-C4	6.79	1.44	1.38
36	1	1057	A	N9-C4	-6.79	1.33	1.37
36	1	2345	A	N9-C4	-6.79	1.33	1.37
85	5	1545	A	N3-C4	-6.79	1.30	1.34
85	5	3182	G	N9-C8	-6.79	1.33	1.37
36	1	785	G	C6-O6	-6.79	1.18	1.24
36	1	1931	U	C2-N3	-6.79	1.32	1.37
85	5	918	C	N1-C2	-6.79	1.33	1.40
85	5	1761	C	N3-C4	6.79	1.38	1.33
85	5	2239	G	N3-C4	-6.79	1.30	1.35
36	1	1860	G	N3-C4	-6.79	1.30	1.35
80	6	1701	A	N3-C4	6.79	1.39	1.34
85	5	1604	G	N9-C4	6.79	1.43	1.38
85	5	1790	G	N3-C4	-6.79	1.30	1.35
36	1	44	U	N1-C6	-6.79	1.31	1.38
36	1	1114	U	N3-C4	-6.79	1.32	1.38
36	1	1164	G	C6-N1	-6.79	1.34	1.39
80	6	477	A	N9-C4	-6.79	1.33	1.37
85	5	325	A	N7-C5	-6.79	1.35	1.39
85	5	957	C	C2-O2	-6.79	1.18	1.24
80	6	526	A	N7-C5	-6.79	1.35	1.39
85	5	958	C	C4-C5	-6.79	1.37	1.43
85	5	165	A	N7-C5	6.79	1.43	1.39
85	5	1751	G	N7-C5	-6.79	1.35	1.39
85	5	3021	A	N7-C5	-6.79	1.35	1.39
70	o4	84	CYS	CB-SG	-6.79	1.70	1.82
36	1	709	A	C5-C4	-6.78	1.34	1.38
36	1	963	G	N7-C5	-6.78	1.35	1.39
36	1	1476	G	C6-N1	-6.78	1.34	1.39
36	1	1529	A	N7-C5	-6.78	1.35	1.39
36	1	1806	A	N3-C4	-6.78	1.30	1.34
85	5	2637	A	N9-C4	-6.78	1.33	1.37
36	1	2886	U	C2-N3	6.78	1.42	1.37
80	6	1673	G	N3-C4	-6.78	1.30	1.35
85	5	363	G	C6-O6	-6.78	1.18	1.24
85	5	2401	A	C8-N7	6.78	1.36	1.31
36	1	645	A	C5-C4	-6.78	1.34	1.38
36	1	761	A	N3-C4	-6.78	1.30	1.34
36	1	1304	A	N9-C4	-6.78	1.33	1.37
36	1	1412	G	N7-C5	-6.78	1.35	1.39
36	1	1860	G	C6-O6	6.78	1.30	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	403	G	N7-C5	-6.78	1.35	1.39
80	6	1673	G	N1-C2	6.78	1.43	1.37
85	5	83	U	N1-C6	-6.78	1.31	1.38
85	5	1017	C	N1-C6	6.78	1.41	1.37
85	5	2270	A	C5-C6	-6.78	1.34	1.41
36	1	2334	U	C2-O2	-6.78	1.16	1.22
80	6	136	C	N3-C4	6.78	1.38	1.33
85	5	1110	U	C2-N3	-6.78	1.33	1.37
36	1	56	G	N9-C4	-6.78	1.32	1.38
36	1	1112	A	N3-C4	-6.78	1.30	1.34
36	1	1502	C	N1-C2	-6.78	1.33	1.40
36	1	2233	A	N9-C8	-6.78	1.32	1.37
36	1	1153	A	N9-C8	-6.78	1.32	1.37
68	O2	30	GLU	CG-CD	6.78	1.62	1.51
85	5	367	A	N9-C8	-6.78	1.32	1.37
85	5	428	A	N7-C5	-6.78	1.35	1.39
85	5	1389	G	N9-C4	-6.78	1.32	1.38
85	5	2229	A	N3-C4	-6.78	1.30	1.34
85	5	3157	U	C2-O2	6.78	1.28	1.22
85	5	3310	A	N7-C5	-6.78	1.35	1.39
38	8	94	C	N3-C4	-6.78	1.29	1.33
36	1	21	G	N1-C2	-6.77	1.32	1.37
36	1	282	G	N1-C2	-6.77	1.32	1.37
36	1	1418	A	C5-C4	-6.77	1.34	1.38
36	1	2307	G	N9-C4	-6.77	1.32	1.38
80	6	358	U	C4-O4	6.77	1.29	1.23
85	5	2405	C	C5-C6	-6.77	1.28	1.34
36	1	955	U	P-OP1	-6.77	1.37	1.49
36	1	1119	C	N1-C2	-6.77	1.33	1.40
36	1	1472	U	N1-C2	-6.77	1.32	1.38
85	5	585	A	N3-C4	-6.77	1.30	1.34
85	5	872	U	C5-C6	-6.77	1.28	1.34
85	5	895	A	N9-C4	-6.77	1.33	1.37
85	5	2759	U	N1-C6	-6.77	1.31	1.38
85	5	3102	G	N9-C4	-6.77	1.32	1.38
80	6	108	A	C6-N1	-6.77	1.30	1.35
85	5	807	A	C5-C6	-6.77	1.34	1.41
36	1	1117	G	N9-C8	-6.77	1.33	1.37
36	1	1883	A	N9-C4	-6.77	1.33	1.37
85	5	2994	A	N3-C4	-6.77	1.30	1.34
85	5	3142	A	N9-C8	-6.77	1.32	1.37
85	5	3294	A	C5-C4	-6.77	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	M6	7	VAL	CB-CG2	-6.77	1.38	1.52
85	5	1011	A	N3-C4	-6.77	1.30	1.34
37	7	100	C	N1-C2	-6.77	1.33	1.40
36	1	1420	C	C2-O2	-6.77	1.18	1.24
80	6	96	G	N3-C4	-6.77	1.30	1.35
85	5	1402	C	N1-C6	-6.77	1.33	1.37
85	5	1492	G	C2-N3	-6.77	1.27	1.32
80	6	239	C	P-OP2	6.76	1.60	1.49
80	6	617	U	C2-O2	-6.76	1.16	1.22
85	5	2190	U	N3-C4	-6.76	1.32	1.38
85	5	2956	A	N7-C5	-6.76	1.35	1.39
36	1	637	C	N1-C2	-6.76	1.33	1.40
85	5	2119	A	N7-C5	-6.76	1.35	1.39
85	5	2891	U	P-OP2	-6.76	1.37	1.49
85	5	837	A	N9-C4	-6.76	1.33	1.37
85	5	2867	C	C4-C5	-6.76	1.37	1.43
85	5	3207	U	C5-C6	6.76	1.40	1.34
36	1	958	C	C2-O2	-6.76	1.18	1.24
85	5	2775	U	N3-C4	-6.76	1.32	1.38
85	5	2780	A	N9-C4	-6.76	1.33	1.37
85	5	3315	G	N3-C4	-6.76	1.30	1.35
41	14	274	TYR	CD1-CE1	-6.76	1.29	1.39
36	1	251	G	N7-C5	6.76	1.43	1.39
36	1	2812	C	N1-C2	-6.76	1.33	1.40
85	5	2359	C	N1-C2	-6.76	1.33	1.40
85	5	2361	A	C5-C4	-6.76	1.34	1.38
36	1	282	G	N3-C4	-6.76	1.30	1.35
36	1	1113	G	N3-C4	-6.76	1.30	1.35
36	1	2986	U	N1-C2	-6.76	1.32	1.38
36	1	3092	C	N1-C6	-6.76	1.33	1.37
85	5	1879	A	N3-C4	-6.76	1.30	1.34
85	5	2295	A	N9-C4	-6.76	1.33	1.37
85	5	3016	A	N7-C5	-6.76	1.35	1.39
36	1	1133	A	N7-C5	-6.75	1.35	1.39
80	6	436	A	C6-N1	-6.75	1.30	1.35
80	6	482	U	C2-N3	6.75	1.42	1.37
80	6	1303	U	N1-C2	-6.75	1.32	1.38
85	5	1188	U	N1-C6	-6.75	1.31	1.38
85	5	2607	G	C2-N3	-6.75	1.27	1.32
85	5	3086	A	N3-C4	-6.75	1.30	1.34
36	1	1128	U	N1-C6	-6.75	1.31	1.38
36	1	1800	A	N9-C8	-6.75	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2756	C	C2-N3	-6.75	1.30	1.35
85	5	344	A	N9-C4	-6.75	1.33	1.37
85	5	801	A	N3-C4	-6.75	1.30	1.34
85	5	1613	A	N3-C4	-6.75	1.30	1.34
85	5	1844	C	N1-C6	-6.75	1.33	1.37
85	5	2761	G	N1-C2	-6.75	1.32	1.37
36	1	344	A	N3-C4	6.75	1.39	1.34
36	1	1169	A	C5-C4	-6.75	1.34	1.38
36	1	2938	G	C6-N1	-6.75	1.34	1.39
85	5	1436	U	N1-C6	-6.75	1.31	1.38
36	1	516	A	C6-N1	-6.75	1.30	1.35
80	6	336	G	N3-C4	-6.75	1.30	1.35
85	5	875	G	C6-N1	-6.75	1.34	1.39
85	5	3032	A	N3-C4	-6.75	1.30	1.34
36	1	1462	A	C6-N1	-6.75	1.30	1.35
51	M5	200	TRP	CB-CG	-6.75	1.38	1.50
85	5	2339	C	N1-C6	-6.75	1.33	1.37
85	5	2352	A	N9-C8	-6.75	1.32	1.37
85	5	2751	G	C8-N7	6.75	1.34	1.30
36	1	677	A	C6-N1	-6.75	1.30	1.35
36	1	2822	U	N1-C2	-6.75	1.32	1.38
85	5	1135	A	C5-C4	-6.75	1.34	1.38
85	5	1521	G	N1-C2	-6.75	1.32	1.37
36	1	2407	C	C4-C5	-6.75	1.37	1.43
85	5	1117	G	C6-N1	-6.75	1.34	1.39
85	5	3303	G	C5-C4	-6.75	1.33	1.38
85	5	3373	U	C2-N3	-6.75	1.33	1.37
36	1	985	U	C2-O2	-6.74	1.16	1.22
85	5	1887	A	C5-C4	-6.74	1.34	1.38
36	1	1350	A	N3-C4	6.74	1.38	1.34
36	1	2754	G	N3-C4	-6.74	1.30	1.35
36	1	2823	G	N7-C5	-6.74	1.35	1.39
36	1	317	A	N7-C5	-6.74	1.35	1.39
36	1	1867	A	N9-C4	-6.74	1.33	1.37
85	5	425	G	C2-N2	-6.74	1.27	1.34
36	1	2726	C	N1-C6	-6.74	1.33	1.37
80	6	834	G	C6-N1	6.74	1.44	1.39
85	5	1297	C	C4-C5	-6.74	1.37	1.43
36	1	59	G	C6-N1	6.74	1.44	1.39
36	1	707	U	N1-C2	-6.74	1.32	1.38
36	1	752	C	N3-C4	-6.74	1.29	1.33
36	1	974	G	C6-N1	-6.74	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1081	A	C6-N1	6.74	1.40	1.35
80	6	1128	C	N1-C6	-6.74	1.33	1.37
80	6	1800	A	C5-C6	6.74	1.47	1.41
85	5	1560	G	N1-C2	6.74	1.43	1.37
85	5	1580	A	C5-C4	6.74	1.43	1.38
85	5	2968	G	C6-N1	-6.74	1.34	1.39
36	1	802	C	C2-O2	-6.73	1.18	1.24
36	1	908	G	C5-C6	-6.73	1.35	1.42
80	6	1678	A	N9-C4	-6.73	1.33	1.37
36	1	988	U	N1-C2	-6.73	1.32	1.38
1	2	541	A	N9-C4	6.73	1.41	1.37
36	1	424	G	N1-C2	-6.73	1.32	1.37
80	6	74	U	C2-N3	6.73	1.42	1.37
85	5	870	G	C5-C4	6.73	1.43	1.38
85	5	2127	U	C4-C5	-6.73	1.37	1.43
85	5	2180	G	N3-C4	-6.73	1.30	1.35
85	5	2208	A	C6-N1	6.73	1.40	1.35
36	1	21	G	C6-N1	-6.73	1.34	1.39
36	1	95	A	N3-C4	-6.73	1.30	1.34
36	1	361	A	N9-C4	-6.73	1.33	1.37
36	1	1425	U	N1-C6	-6.73	1.31	1.38
1	2	341	A	N7-C5	-6.73	1.35	1.39
36	1	2689	A	N9-C4	-6.73	1.33	1.37
80	6	1635	A	N7-C5	-6.73	1.35	1.39
85	5	1619	A	N9-C4	-6.73	1.33	1.37
85	5	1637	A	N9-C4	-6.73	1.33	1.37
85	5	1868	G	C5-C6	-6.73	1.35	1.42
85	5	3191	G	N9-C8	-6.73	1.33	1.37
85	5	3273	A	N7-C5	-6.73	1.35	1.39
1	2	1121	A	C6-N1	-6.73	1.30	1.35
85	5	1057	A	C5-C4	-6.73	1.34	1.38
1	2	821	G	C6-N1	6.72	1.44	1.39
1	2	1711	A	N3-C4	-6.72	1.30	1.34
36	1	400	G	C5-C4	-6.72	1.33	1.38
80	6	1119	G	C5-C4	-6.72	1.33	1.38
85	5	873	C	N3-C4	-6.72	1.29	1.33
85	5	1058	U	N1-C2	-6.72	1.32	1.38
85	5	2395	G	C5-C6	-6.72	1.35	1.42
85	5	2666	C	C2-O2	-6.72	1.18	1.24
85	5	2940	A	C5-C4	-6.72	1.34	1.38
36	1	2149	A	C5-C4	-6.72	1.34	1.38
80	6	1139	A	N9-C8	-6.72	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1182	A	N9-C4	-6.72	1.33	1.37
85	5	2559	U	C2-N3	-6.72	1.33	1.37
36	1	28	C	C2-O2	-6.72	1.18	1.24
36	1	935	U	N1-C2	-6.72	1.32	1.38
85	5	2216	G	N3-C4	-6.72	1.30	1.35
36	1	949	C	N1-C2	-6.72	1.33	1.40
85	5	2136	C	N3-C4	-6.72	1.29	1.33
85	5	3015	G	N9-C4	-6.72	1.32	1.38
1	2	137	U	N1-C2	6.72	1.44	1.38
85	5	1693	C	N3-C4	-6.72	1.29	1.33
85	5	1896	A	N9-C4	-6.72	1.33	1.37
36	1	301	G	N7-C5	-6.72	1.35	1.39
36	1	1115	G	C6-N1	-6.72	1.34	1.39
36	1	2180	G	C5-C6	-6.72	1.35	1.42
36	1	3103	A	N9-C8	-6.72	1.32	1.37
80	6	1784	C	C2-N3	-6.72	1.30	1.35
85	5	755	A	N7-C5	-6.72	1.35	1.39
85	5	2340	U	C2-N3	-6.72	1.33	1.37
85	5	3050	U	N3-C4	-6.72	1.32	1.38
38	8	79	A	N1-C2	6.72	1.40	1.34
36	1	392	G	C6-N1	6.71	1.44	1.39
36	1	1156	C	C2-N3	-6.71	1.30	1.35
36	1	1364	C	C5-C6	-6.71	1.28	1.34
36	1	2862	U	N3-C4	-6.71	1.32	1.38
80	6	962	C	N1-C6	-6.71	1.33	1.37
80	6	1638	G	C6-N1	-6.71	1.34	1.39
85	5	2361	A	N7-C5	-6.71	1.35	1.39
85	5	2746	A	N7-C5	-6.71	1.35	1.39
85	5	2939	G	C8-N7	-6.71	1.26	1.30
36	1	1459	C	N1-C2	-6.71	1.33	1.40
85	5	1172	G	N9-C8	-6.71	1.33	1.37
36	1	1438	U	C2-N3	-6.71	1.33	1.37
36	1	1905	G	C6-N1	-6.71	1.34	1.39
36	1	2226	U	N1-C2	-6.71	1.32	1.38
85	5	425	G	C2-N3	-6.71	1.27	1.32
85	5	1908	A	N7-C5	-6.71	1.35	1.39
36	1	1356	U	N1-C2	6.71	1.44	1.38
36	1	1530	U	N1-C6	-6.71	1.31	1.38
1	2	961	A	C6-N1	-6.71	1.30	1.35
36	1	986	U	N3-C4	-6.71	1.32	1.38
36	1	1581	C	N1-C2	6.71	1.46	1.40
36	1	3206	C	N1-C6	-6.71	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	333	A	C5-C4	-6.71	1.34	1.38
85	5	1186	G	N3-C4	-6.71	1.30	1.35
85	5	2150	G	C5-C6	-6.71	1.35	1.42
36	1	1373	A	C6-N1	-6.71	1.30	1.35
36	1	2215	A	C5-C6	-6.71	1.35	1.41
85	5	55	G	N9-C8	-6.71	1.33	1.37
85	5	1886	A	N3-C4	-6.71	1.30	1.34
85	5	2411	U	C2-O2	-6.71	1.16	1.22
36	1	2928	C	N1-C6	-6.70	1.33	1.37
80	6	165	G	N3-C4	-6.70	1.30	1.35
80	6	755	A	C5-C6	-6.70	1.35	1.41
85	5	915	A	C5-C4	-6.70	1.34	1.38
85	5	1298	C	N1-C6	-6.70	1.33	1.37
85	5	1528	G	N3-C4	-6.70	1.30	1.35
85	5	2208	A	N9-C4	6.70	1.41	1.37
85	5	2300	G	C6-O6	-6.70	1.18	1.24
37	7	99	G	N3-C4	-6.70	1.30	1.35
85	5	821	U	C2-N3	-6.70	1.33	1.37
85	5	826	G	N9-C4	-6.70	1.32	1.38
85	5	1934	G	C5-C4	6.70	1.43	1.38
85	5	2732	G	N9-C8	-6.70	1.33	1.37
85	5	2924	U	C2-N3	-6.70	1.33	1.37
85	5	2955	U	N1-C6	-6.70	1.31	1.38
38	8	133	G	C5-C4	-6.70	1.33	1.38
36	1	40	A	N3-C4	-6.70	1.30	1.34
36	1	1156	C	C2-O2	-6.70	1.18	1.24
36	1	1170	A	C5-C4	-6.70	1.34	1.38
36	1	2209	U	N1-C6	6.70	1.44	1.38
85	5	1505	C	N1-C6	-6.70	1.33	1.37
85	5	1907	C	N1-C2	-6.70	1.33	1.40
85	5	3211	C	N1-C6	-6.70	1.33	1.37
1	2	958	C	N1-C6	-6.70	1.33	1.37
36	1	85	A	N9-C8	-6.70	1.32	1.37
36	1	2309	A	N3-C4	-6.70	1.30	1.34
80	6	339	C	N3-C4	-6.70	1.29	1.33
80	6	1786	G	N9-C4	-6.70	1.32	1.38
85	5	2791	G	N9-C4	-6.70	1.32	1.38
36	1	832	G	C5-C4	-6.70	1.33	1.38
80	6	164	A	N3-C4	-6.70	1.30	1.34
85	5	2997	G	N9-C4	-6.70	1.32	1.38
40	13	314	TYR	CE1-CZ	-6.70	1.29	1.38
1	2	103	A	N3-C4	-6.69	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1529	A	N9-C4	-6.69	1.33	1.37
80	6	103	A	P-OP2	6.69	1.60	1.49
1	2	338	C	N3-C4	-6.69	1.29	1.33
36	1	894	G	N3-C4	-6.69	1.30	1.35
36	1	3127	A	N7-C5	-6.69	1.35	1.39
85	5	500	C	N3-C4	-6.69	1.29	1.33
85	5	702	C	C4-C5	-6.69	1.37	1.43
36	1	3127	A	C5-C6	-6.69	1.35	1.41
80	6	341	A	C5-C4	-6.69	1.34	1.38
80	6	982	U	P-OP1	6.69	1.60	1.49
85	5	1117	G	N1-C2	-6.69	1.32	1.37
85	5	1348	U	C5-C6	6.69	1.40	1.34
85	5	2742	C	C2-N3	-6.69	1.30	1.35
38	8	98	U	C4-O4	6.69	1.29	1.23
36	1	2207	A	N7-C5	6.69	1.43	1.39
85	5	2800	G	C5-C4	-6.69	1.33	1.38
40	l3	146	ARG	CG-CD	6.69	1.68	1.51
1	2	1436	G	N9-C8	-6.69	1.33	1.37
36	1	647	A	N9-C8	-6.69	1.32	1.37
36	1	1100	U	C2-N3	-6.69	1.33	1.37
36	1	2187	G	C6-N1	-6.69	1.34	1.39
36	1	2933	A	C6-N1	-6.69	1.30	1.35
36	1	2979	U	N3-C4	-6.69	1.32	1.38
80	6	1732	A	N9-C4	-6.69	1.33	1.37
85	5	1302	A	N7-C5	-6.69	1.35	1.39
85	5	2831	G	C5-C4	-6.69	1.33	1.38
80	6	411	C	N3-C4	-6.69	1.29	1.33
36	1	714	G	C6-N1	-6.68	1.34	1.39
36	1	900	G	N3-C4	-6.68	1.30	1.35
85	5	1128	U	C4-O4	-6.68	1.18	1.23
85	5	1532	C	N1-C6	-6.68	1.33	1.37
85	5	2977	G	C6-O6	-6.68	1.18	1.24
36	1	85	A	C6-N1	-6.68	1.30	1.35
36	1	584	G	N7-C5	-6.68	1.35	1.39
36	1	1408	G	N7-C5	-6.68	1.35	1.39
36	1	1580	A	N9-C4	6.68	1.41	1.37
85	5	660	A	C5-C4	-6.68	1.34	1.38
85	5	2224	A	C5-C4	-6.68	1.34	1.38
85	5	2385	G	N3-C4	-6.68	1.30	1.35
85	5	2959	C	N3-C4	-6.68	1.29	1.33
85	5	3295	A	N9-C4	-6.68	1.33	1.37
59	n3	33	ASN	CB-CG	-6.68	1.35	1.51

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	99	C	N3-C4	-6.68	1.29	1.33
36	1	307	A	C5-C4	-6.68	1.34	1.38
36	1	405	U	C2-N3	-6.68	1.33	1.37
36	1	648	C	C2-O2	-6.68	1.18	1.24
36	1	958	C	N1-C2	-6.68	1.33	1.40
36	1	1028	U	N3-C4	6.68	1.44	1.38
36	1	1292	C	N1-C6	-6.68	1.33	1.37
36	1	1603	A	N1-C2	-6.68	1.28	1.34
36	1	2225	U	N1-C6	-6.68	1.31	1.38
80	6	1681	A	N7-C5	-6.68	1.35	1.39
28	d6	77	CYS	CB-SG	-6.68	1.70	1.82
36	1	2242	A	N7-C5	-6.68	1.35	1.39
36	1	2412	G	N1-C2	-6.68	1.32	1.37
85	5	1599	G	N9-C8	-6.68	1.33	1.37
36	1	588	G	N3-C4	-6.68	1.30	1.35
36	1	2202	C	C4-C5	-6.68	1.37	1.43
36	1	3274	A	N3-C4	-6.68	1.30	1.34
80	6	1030	A	C6-N1	-6.68	1.30	1.35
85	5	772	U	N1-C2	-6.68	1.32	1.38
85	5	2181	C	N1-C6	-6.68	1.33	1.37
85	5	2702	A	N9-C8	-6.68	1.32	1.37
36	1	859	G	N3-C4	-6.67	1.30	1.35
36	1	978	G	C5-C4	-6.67	1.33	1.38
36	1	1414	G	N3-C4	-6.67	1.30	1.35
36	1	3283	U	C2-N3	6.67	1.42	1.37
85	5	888	A	N3-C4	-6.67	1.30	1.34
50	m4	28	SER	CA-C	-6.67	1.35	1.52
53	m7	120	ASN	CB-CG	-6.67	1.35	1.51
36	1	783	A	N7-C5	-6.67	1.35	1.39
36	1	1380	G	C5-C4	-6.67	1.33	1.38
36	1	1681	U	C2-N3	-6.67	1.33	1.37
38	4	104	A	N3-C4	-6.67	1.30	1.34
85	5	2608	G	N7-C5	-6.67	1.35	1.39
85	5	3132	C	N1-C2	-6.67	1.33	1.40
1	2	976	A	N3-C4	-6.67	1.30	1.34
36	1	806	A	C6-N1	-6.67	1.30	1.35
85	5	2877	G	C5-C4	6.67	1.43	1.38
36	1	1136	A	C6-N1	-6.67	1.30	1.35
36	1	1383	G	N7-C5	-6.67	1.35	1.39
36	1	2337	C	C4-C5	-6.67	1.37	1.43
36	1	2622	C	N3-C4	-6.67	1.29	1.33
85	5	3000	A	C5-C6	-6.67	1.35	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	793	C	N1-C2	-6.67	1.33	1.40
36	1	1314	C	N3-C4	-6.67	1.29	1.33
36	1	2184	U	N1-C2	-6.67	1.32	1.38
51	M5	121	VAL	CB-CG1	-6.67	1.38	1.52
80	6	1091	A	P-OP1	6.67	1.60	1.49
85	5	2930	A	N9-C8	-6.67	1.32	1.37
1	2	1183	G	N7-C5	-6.66	1.35	1.39
1	2	1654	A	N9-C4	-6.66	1.33	1.37
36	1	1306	G	N7-C5	-6.66	1.35	1.39
36	1	1364	C	C4-C5	-6.66	1.37	1.43
85	5	2935	U	C4-O4	6.66	1.28	1.23
85	5	685	G	N3-C4	-6.66	1.30	1.35
85	5	1116	G	N9-C8	-6.66	1.33	1.37
85	5	2885	C	C4-C5	-6.66	1.37	1.43
36	1	1308	A	C5-C6	-6.66	1.35	1.41
54	M8	9	GLN	CB-CG	-6.66	1.34	1.52
85	5	1207	G	C5-C4	-6.66	1.33	1.38
85	5	1381	A	N9-C4	-6.66	1.33	1.37
85	5	2968	G	C8-N7	-6.66	1.26	1.30
37	7	35	C	N1-C6	-6.66	1.33	1.37
1	2	1016	C	C2-N3	-6.66	1.30	1.35
36	1	799	G	C5-C4	-6.66	1.33	1.38
36	1	2732	G	N1-C2	-6.66	1.32	1.37
80	6	1550	A	C5-C6	-6.66	1.35	1.41
1	2	1096	A	C5-C6	-6.65	1.35	1.41
36	1	933	A	N9-C4	-6.65	1.33	1.37
85	5	2313	A	N7-C5	-6.65	1.35	1.39
36	1	1162	U	N3-C4	-6.65	1.32	1.38
36	1	1462	A	N7-C5	-6.65	1.35	1.39
36	1	2374	C	C2-N3	-6.65	1.30	1.35
85	5	1006	A	N9-C8	-6.65	1.32	1.37
36	1	968	G	N1-C2	-6.65	1.32	1.37
36	1	3016	A	N9-C4	-6.65	1.33	1.37
80	6	359	A	N9-C4	-6.65	1.33	1.37
85	5	2780	A	N7-C5	-6.65	1.35	1.39
37	7	12	U	N1-C2	-6.65	1.32	1.38
36	1	1156	C	N1-C2	-6.65	1.33	1.40
36	1	2246	G	N3-C4	-6.65	1.30	1.35
80	6	1731	A	N3-C4	-6.65	1.30	1.34
85	5	2648	G	N9-C4	-6.65	1.32	1.38
36	1	52	A	N1-C2	-6.65	1.28	1.34
36	1	976	U	C2-N3	-6.65	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1453	A	C6-N1	-6.65	1.30	1.35
85	5	2291	A	N9-C4	-6.65	1.33	1.37
36	1	1148	G	C5-C4	-6.65	1.33	1.38
85	5	2764	C	C2-N3	-6.65	1.30	1.35
36	1	2232	A	N9-C8	-6.64	1.32	1.37
36	1	2380	U	C4-C5	-6.64	1.37	1.43
38	4	29	U	N1-C6	-6.64	1.31	1.38
80	6	315	A	C5-C6	-6.64	1.35	1.41
85	5	907	G	N7-C5	-6.64	1.35	1.39
85	5	1158	A	N3-C4	-6.64	1.30	1.34
85	5	1341	U	N1-C2	-6.64	1.32	1.38
1	2	1106	C	N1-C6	-6.64	1.33	1.37
36	1	505	G	N9-C4	-6.64	1.32	1.38
36	1	867	G	C6-O6	6.64	1.30	1.24
80	6	103	A	C3'-O3'	6.64	1.51	1.42
80	6	926	A	N7-C5	-6.64	1.35	1.39
36	1	953	G	C5-C6	-6.64	1.35	1.42
85	5	1779	C	N3-C4	-6.64	1.29	1.33
38	8	7	U	N1-C2	-6.64	1.32	1.38
36	1	756	U	C2-N3	-6.64	1.33	1.37
80	6	426	G	N9-C8	-6.64	1.33	1.37
80	6	619	A	C6-N1	-6.64	1.30	1.35
85	5	808	A	C5-C6	-6.64	1.35	1.41
85	5	1658	G	N9-C8	-6.64	1.33	1.37
85	5	2375	G	N9-C8	-6.64	1.33	1.37
85	5	2727	A	C5-C4	-6.64	1.34	1.38
85	5	3307	A	N3-C4	-6.64	1.30	1.34
59	n3	94	TYR	CD1-CE1	-6.64	1.29	1.39
79	q3	55	TRP	CA-CB	-6.64	1.39	1.53
36	1	2613	U	C2-O2	-6.64	1.16	1.22
38	4	137	C	N1-C2	-6.64	1.33	1.40
85	5	862	U	N1-C2	-6.64	1.32	1.38
85	5	1915	A	C5-C4	-6.64	1.34	1.38
85	5	2941	A	C6-N1	-6.64	1.30	1.35
85	5	2959	C	N1-C6	-6.64	1.33	1.37
85	5	2858	U	C2-O2	-6.64	1.16	1.22
37	7	95	A	C6-N1	-6.64	1.30	1.35
38	8	23	U	C2-O2	-6.64	1.16	1.22
36	1	1900	A	C6-N1	-6.63	1.30	1.35
85	5	2403	G	C6-O6	6.63	1.30	1.24
37	7	26	C	C2-N3	6.63	1.41	1.35
38	4	72	A	N3-C4	-6.63	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1654	G	N7-C5	-6.63	1.35	1.39
36	1	1486	G	N7-C5	-6.63	1.35	1.39
37	3	103	A	N3-C4	-6.63	1.30	1.34
85	5	195	U	N3-C4	-6.63	1.32	1.38
85	5	2967	A	C6-N1	-6.63	1.30	1.35
80	6	1051	G	C5-C4	6.63	1.43	1.38
85	5	49	A	N7-C5	-6.63	1.35	1.39
85	5	518	G	C5-C6	6.63	1.49	1.42
85	5	899	U	N3-C4	-6.63	1.32	1.38
36	1	955	U	N3-C4	-6.63	1.32	1.38
36	1	2387	A	N7-C5	-6.63	1.35	1.39
80	6	364	G	N9-C8	-6.63	1.33	1.37
80	6	1024	U	C2-N3	-6.63	1.33	1.37
85	5	1312	C	C2-O2	-6.63	1.18	1.24
85	5	2240	G	N9-C8	-6.63	1.33	1.37
36	1	1116	G	N9-C4	-6.63	1.32	1.38
36	1	1881	A	N9-C4	-6.63	1.33	1.37
85	5	2730	G	C6-N1	-6.63	1.34	1.39
36	1	1380	G	N7-C5	-6.62	1.35	1.39
36	1	2958	A	C5-C4	-6.62	1.34	1.38
85	5	983	A	N3-C4	-6.62	1.30	1.34
85	5	1421	G	C2-N3	-6.62	1.27	1.32
85	5	1654	A	C6-N1	-6.62	1.30	1.35
85	5	2296	A	C8-N7	-6.62	1.26	1.31
36	1	2304	C	N1-C6	-6.62	1.33	1.37
36	1	2876	C	C2-O2	-6.62	1.18	1.24
80	6	1702	A	N3-C4	6.62	1.38	1.34
85	5	32	U	C2-N3	-6.62	1.33	1.37
85	5	633	C	N1-C2	-6.62	1.33	1.40
36	1	873	C	N1-C6	-6.62	1.33	1.37
36	1	1683	A	N7-C5	-6.62	1.35	1.39
85	5	308	A	N3-C4	-6.62	1.30	1.34
85	5	1290	A	N9-C4	-6.62	1.33	1.37
85	5	2927	C	C2-N3	6.62	1.41	1.35
85	5	3039	C	N3-C4	-6.62	1.29	1.33
85	5	661	G	N1-C2	-6.62	1.32	1.37
36	1	1302	A	N9-C8	-6.62	1.32	1.37
36	1	1389	G	C5-C6	-6.62	1.35	1.42
85	5	1203	A	C6-N1	-6.62	1.30	1.35
85	5	1793	C	N1-C2	-6.62	1.33	1.40
36	1	2816	G	N9-C8	-6.62	1.33	1.37
85	5	1426	C	N1-C2	-6.62	1.33	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	15	G	N1-C2	-6.62	1.32	1.37
36	1	408	A	N3-C4	-6.61	1.30	1.34
36	1	802	C	N1-C6	-6.61	1.33	1.37
36	1	2637	A	C6-N6	-6.61	1.28	1.33
36	1	2990	G	C8-N7	-6.61	1.26	1.30
85	5	787	G	N3-C4	-6.61	1.30	1.35
53	M7	91	VAL	CB-CG2	-6.61	1.39	1.52
85	5	2353	G	C5-C6	-6.61	1.35	1.42
36	1	864	G	N3-C4	-6.61	1.30	1.35
36	1	1893	A	N9-C4	-6.61	1.33	1.37
36	1	2206	G	C6-N1	6.61	1.44	1.39
85	5	512	U	N3-C4	-6.61	1.32	1.38
85	5	1944	U	N3-C4	-6.61	1.32	1.38
80	6	1004	U	N1-C2	-6.61	1.32	1.38
9	S7	95	GLU	CG-CD	6.61	1.61	1.51
36	1	18	G	C5-C6	-6.61	1.35	1.42
36	1	1876	U	N1-C6	-6.61	1.32	1.38
36	1	2617	U	N3-C4	-6.61	1.32	1.38
36	1	2721	A	C5-C6	-6.61	1.35	1.41
85	5	1065	A	N3-C4	-6.61	1.30	1.34
85	5	1171	G	C2-N3	-6.61	1.27	1.32
85	5	3345	G	C6-N1	6.61	1.44	1.39
85	5	3390	G	C5-C4	-6.61	1.33	1.38
36	1	34	A	N9-C4	-6.61	1.33	1.37
36	1	694	C	N1-C6	-6.61	1.33	1.37
36	1	891	G	N9-C8	-6.61	1.33	1.37
36	1	2859	U	N1-C2	-6.61	1.32	1.38
41	L4	248	VAL	CB-CG2	-6.61	1.39	1.52
85	5	1476	G	C5-C4	-6.61	1.33	1.38
38	8	92	A	C5-C6	-6.61	1.35	1.41
36	1	1475	A	N3-C4	-6.60	1.30	1.34
85	5	1118	C	C4-C5	-6.60	1.37	1.43
37	7	61	G	C5-C4	-6.60	1.33	1.38
25	D3	71	CYS	CB-SG	-6.60	1.71	1.82
36	1	1883	A	C6-N1	-6.60	1.30	1.35
36	1	2207	A	C5-C6	6.60	1.47	1.41
36	1	2522	G	N1-C2	6.60	1.43	1.37
36	1	2820	A	N9-C4	-6.60	1.33	1.37
36	1	2843	U	N1-C2	6.60	1.44	1.38
85	5	12	A	N9-C4	-6.60	1.33	1.37
85	5	308	A	N9-C4	-6.60	1.33	1.37
85	5	2342	U	N3-C4	-6.60	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	84	C	C2-N3	6.60	1.41	1.35
36	1	1486	G	N3-C4	-6.60	1.30	1.35
36	1	584	G	C5-C4	-6.60	1.33	1.38
36	1	1116	G	C2'-C1'	-6.60	1.46	1.53
36	1	1173	U	N3-C4	-6.60	1.32	1.38
85	5	837	A	N3-C4	-6.60	1.30	1.34
85	5	2918	G	N7-C5	-6.60	1.35	1.39
85	5	3123	A	N9-C8	-6.60	1.32	1.37
36	1	836	A	N7-C5	-6.60	1.35	1.39
36	1	2247	G	N3-C4	-6.60	1.30	1.35
85	5	1495	U	C2-O2	-6.60	1.16	1.22
85	5	2854	U	N1-C6	-6.60	1.32	1.38
85	5	3379	C	N1-C2	-6.60	1.33	1.40
80	6	45	U	C2-N3	-6.60	1.33	1.37
85	5	744	A	N9-C4	-6.60	1.33	1.37
1	2	1097	G	C5-C6	-6.59	1.35	1.42
1	2	1541	U	C2-N3	-6.59	1.33	1.37
36	1	305	U	C2-N3	-6.59	1.33	1.37
36	1	2276	G	C5-C4	-6.59	1.33	1.38
1	2	771	A	N9-C4	6.59	1.41	1.37
1	2	1114	A	N9-C4	-6.59	1.33	1.37
85	5	103	G	N9-C8	-6.59	1.33	1.37
85	5	2375	G	N3-C4	-6.59	1.30	1.35
36	1	60	A	N9-C4	-6.59	1.33	1.37
36	1	945	C	N1-C2	-6.59	1.33	1.40
36	1	995	U	N1-C6	-6.59	1.32	1.38
36	1	2684	C	N1-C2	-6.59	1.33	1.40
85	5	2276	G	N9-C4	-6.59	1.32	1.38
85	5	3149	G	C5-C6	-6.59	1.35	1.42
36	1	746	A	N3-C4	-6.59	1.30	1.34
36	1	1784	G	N3-C4	-6.59	1.30	1.35
85	5	1436	U	N3-C4	-6.59	1.32	1.38
1	2	411	C	N3-C4	-6.59	1.29	1.33
36	1	360	G	C2-N3	6.59	1.38	1.32
37	3	35	C	N1-C6	-6.59	1.33	1.37
85	5	1845	G	C5-C4	-6.59	1.33	1.38
85	5	3081	C	N1-C2	-6.59	1.33	1.40
36	1	1822	C	N3-C4	-6.59	1.29	1.33
36	1	2620	G	C5-C4	-6.59	1.33	1.38
36	1	2964	G	C6-N1	-6.59	1.34	1.39
36	1	3094	A	C5-C4	-6.59	1.34	1.38
38	4	10	A	C5-C4	-6.59	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	163	G	N3-C4	-6.59	1.30	1.35
85	5	510	G	C5-C4	-6.59	1.33	1.38
85	5	604	G	N1-C2	6.59	1.43	1.37
85	5	821	U	C2-O2	-6.59	1.16	1.22
85	5	2618	G	N3-C4	-6.59	1.30	1.35
80	6	1644	C	N1-C6	-6.58	1.33	1.37
36	1	1678	G	N7-C5	-6.58	1.35	1.39
85	5	2133	U	C2-N3	-6.58	1.33	1.37
85	5	2384	A	N9-C4	-6.58	1.33	1.37
85	5	2754	G	N1-C2	-6.58	1.32	1.37
36	1	2604	U	N1-C6	-6.58	1.32	1.38
85	5	686	G	N3-C4	-6.58	1.30	1.35
85	5	2242	A	C5-C4	-6.58	1.34	1.38
36	1	1762	C	N3-C4	6.58	1.38	1.33
85	5	315	C	C2-N3	-6.58	1.30	1.35
85	5	3047	U	N1-C6	-6.58	1.32	1.38
85	5	3052	G	C5-C4	-6.58	1.33	1.38
1	2	601	A	C6-N1	-6.58	1.30	1.35
1	2	1010	A	N7-C5	-6.58	1.35	1.39
36	1	1117	G	C6-N1	-6.58	1.34	1.39
36	1	1493	G	C6-N1	-6.58	1.34	1.39
36	1	1883	A	C5-C4	-6.58	1.34	1.38
38	4	16	G	C5-C4	-6.58	1.33	1.38
85	5	2938	G	C4'-C3'	-6.58	1.46	1.53
37	7	43	U	N3-C4	-6.58	1.32	1.38
37	7	54	U	N3-C4	-6.58	1.32	1.38
36	1	2349	U	N1-C6	-6.58	1.32	1.38
85	5	519	A	N3-C4	-6.58	1.30	1.34
36	1	756	U	N1-C6	-6.58	1.32	1.38
85	5	1432	C	C4-C5	-6.58	1.37	1.43
85	5	2325	G	C2-N3	-6.58	1.27	1.32
1	2	629	U	N1-C6	-6.57	1.32	1.38
36	1	76	G	C6-O6	-6.57	1.18	1.24
36	1	1900	A	N3-C4	-6.57	1.30	1.34
85	5	428	A	C5-C4	-6.57	1.34	1.38
85	5	1408	G	C5-C4	-6.57	1.33	1.38
85	5	2166	A	N3-C4	-6.57	1.30	1.34
85	5	3183	A	N9-C4	-6.57	1.33	1.37
37	7	113	C	N1-C6	-6.57	1.33	1.37
36	1	837	A	N9-C4	-6.57	1.33	1.37
85	5	3105	U	C2-N3	-6.57	1.33	1.37
39	12	143	GLU	CB-CG	6.57	1.64	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1062	A	N7-C5	-6.57	1.35	1.39
36	1	1635	G	N7-C5	-6.57	1.35	1.39
36	1	2758	A	C5-C6	6.57	1.47	1.41
7	s5	87	CYS	CB-SG	-6.57	1.71	1.82
85	5	993	G	N9-C8	-6.57	1.33	1.37
85	5	1364	C	N1-C6	-6.57	1.33	1.37
85	5	2407	C	N1-C6	-6.57	1.33	1.37
36	1	3172	A	N3-C4	-6.57	1.30	1.34
80	6	973	A	C5-C4	-6.57	1.34	1.38
85	5	648	C	N1-C6	-6.57	1.33	1.37
85	5	1414	G	N7-C5	-6.57	1.35	1.39
85	5	1897	G	N3-C4	-6.57	1.30	1.35
85	5	3374	U	C2-N3	-6.57	1.33	1.37
36	1	790	U	N3-C4	-6.57	1.32	1.38
36	1	2864	A	N7-C5	-6.57	1.35	1.39
80	6	596	C	N1-C6	-6.57	1.33	1.37
1	2	236	A	N3-C4	6.57	1.38	1.34
36	1	18	G	N9-C4	-6.57	1.32	1.38
36	1	1103	A	C5-C6	6.57	1.47	1.41
85	5	706	A	C6-N1	-6.57	1.30	1.35
85	5	997	A	C6-N6	-6.57	1.28	1.33
85	5	2145	A	C6-N1	-6.57	1.30	1.35
85	5	2951	G	N7-C5	-6.57	1.35	1.39
85	5	3232	G	N3-C4	-6.57	1.30	1.35
85	5	901	G	N9-C8	-6.56	1.33	1.37
53	m7	21	TYR	CE1-CZ	-6.56	1.30	1.38
1	2	1179	A	N9-C4	6.56	1.41	1.37
36	1	1540	U	N1-C2	-6.56	1.32	1.38
36	1	2691	A	N3-C4	-6.56	1.30	1.34
80	6	51	A	N9-C4	-6.56	1.33	1.37
80	6	1100	G	N1-C2	-6.56	1.32	1.37
85	5	1405	U	C2-O2	-6.56	1.16	1.22
38	8	81	U	N1-C6	6.56	1.43	1.38
36	1	1094	U	N1-C6	6.56	1.43	1.38
85	5	863	C	C2-O2	-6.56	1.18	1.24
85	5	1677	G	N7-C5	6.56	1.43	1.39
85	5	2406	C	N1-C6	-6.56	1.33	1.37
36	1	19	U	N3-C4	-6.56	1.32	1.38
36	1	1483	G	N3-C4	-6.56	1.30	1.35
37	3	27	A	N7-C5	-6.56	1.35	1.39
85	5	2119	A	N9-C4	-6.56	1.33	1.37
37	7	32	U	C2-N3	-6.56	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	m6	155	LYS	CD-CE	6.56	1.67	1.51
36	1	397	A	C6-N1	-6.56	1.30	1.35
85	5	108	A	C6-N1	-6.56	1.30	1.35
85	5	836	A	N3-C4	-6.56	1.30	1.34
85	5	994	G	C5-C4	-6.56	1.33	1.38
85	5	1352	A	N3-C4	6.56	1.38	1.34
85	5	2371	G	N9-C4	-6.56	1.32	1.38
85	5	3194	C	N1-C2	6.56	1.46	1.40
1	2	848	A	N9-C4	-6.56	1.33	1.37
51	M5	132	VAL	CB-CG2	-6.56	1.39	1.52
85	5	1534	A	N9-C8	-6.56	1.32	1.37
36	1	2706	G	C5-C6	-6.55	1.35	1.42
36	1	2939	G	N9-C8	-6.55	1.33	1.37
80	6	635	A	N9-C4	-6.55	1.33	1.37
85	5	2404	A	N9-C8	6.55	1.43	1.37
36	1	751	A	N3-C4	-6.55	1.30	1.34
36	1	1349	G	N9-C4	6.55	1.43	1.38
38	4	138	A	C5-C4	-6.55	1.34	1.38
36	1	902	G	N7-C5	-6.55	1.35	1.39
85	5	1357	G	N3-C4	-6.55	1.30	1.35
85	5	2400	G	C5-C4	-6.55	1.33	1.38
36	1	214	G	N9-C4	-6.55	1.32	1.38
85	5	391	A	C6-N1	-6.55	1.30	1.35
85	5	510	G	N1-C2	-6.55	1.32	1.37
36	1	2174	G	C6-N1	-6.55	1.34	1.39
38	8	55	U	C2-O2	6.55	1.28	1.22
80	6	327	U	N1-C2	6.55	1.44	1.38
85	5	89	A	C5-C6	-6.55	1.35	1.41
85	5	907	G	N1-C2	-6.55	1.32	1.37
85	5	1657	C	N1-C6	-6.55	1.33	1.37
36	1	1143	A	C5-C4	-6.54	1.34	1.38
36	1	2657	A	N3-C4	-6.54	1.30	1.34
85	5	1085	A	C5-C6	-6.54	1.35	1.41
85	5	3212	C	N1-C6	-6.54	1.33	1.37
36	1	63	A	N7-C5	-6.54	1.35	1.39
36	1	803	C	N1-C6	-6.54	1.33	1.37
36	1	2957	G	C6-N1	-6.54	1.34	1.39
38	4	31	G	C5-C4	-6.54	1.33	1.38
85	5	2194	G	N1-C2	-6.54	1.32	1.37
38	8	79	A	C6-N1	6.54	1.40	1.35
36	1	87	U	C2-O2	-6.54	1.16	1.22
36	1	988	U	N1-C6	-6.54	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	43	A	C6-N6	-6.54	1.28	1.33
85	5	1203	A	N7-C5	-6.54	1.35	1.39
85	5	1296	C	C2-O2	-6.54	1.18	1.24
85	5	2828	G	N9-C4	-6.54	1.32	1.38
85	5	2987	A	N7-C5	-6.54	1.35	1.39
38	8	36	G	N3-C4	-6.54	1.30	1.35
38	8	39	G	N3-C4	-6.54	1.30	1.35
38	8	79	A	N9-C4	6.54	1.41	1.37
1	2	1746	A	N9-C4	-6.54	1.33	1.37
36	1	2345	A	C6-N1	-6.54	1.30	1.35
85	5	637	C	N1-C6	-6.54	1.33	1.37
85	5	2244	A	C5-C4	-6.54	1.34	1.38
85	5	2690	G	N3-C4	-6.54	1.30	1.35
85	5	3327	G	N3-C4	-6.54	1.30	1.35
1	2	1094	G	N9-C4	-6.54	1.32	1.38
36	1	2670	G	N3-C4	-6.54	1.30	1.35
36	1	3015	G	N9-C4	-6.54	1.32	1.38
36	1	115	A	N9-C8	-6.54	1.32	1.37
36	1	1521	G	N7-C5	-6.54	1.35	1.39
36	1	2140	U	C2-N3	-6.54	1.33	1.37
85	5	1145	G	N1-C2	-6.54	1.32	1.37
36	1	2948	C	C2-N3	-6.53	1.30	1.35
38	4	131	A	C5-C4	-6.53	1.34	1.38
80	6	635	A	C6-N1	-6.53	1.30	1.35
85	5	1648	A	C5-C6	-6.53	1.35	1.41
36	1	1306	G	N9-C8	-6.53	1.33	1.37
36	1	1428	A	N9-C4	-6.53	1.33	1.37
36	1	2718	U	C2-N3	-6.53	1.33	1.37
85	5	518	G	N3-C4	-6.53	1.30	1.35
36	1	108	A	N3-C4	-6.53	1.30	1.34
36	1	299	G	C5-C6	-6.53	1.35	1.42
36	1	602	A	N9-C4	6.53	1.41	1.37
36	1	2642	A	C6-N1	-6.53	1.30	1.35
36	1	3213	A	N7-C5	-6.53	1.35	1.39
80	6	1033	C	N1-C6	-6.53	1.33	1.37
85	5	222	A	C6-N1	-6.53	1.30	1.35
85	5	1309	U	C2-O2	-6.53	1.16	1.22
85	5	1575	A	N9-C4	6.53	1.41	1.37
85	5	1849	C	N3-C4	-6.53	1.29	1.33
85	5	1851	G	N9-C4	-6.53	1.32	1.38
85	5	2851	A	C5-C6	-6.53	1.35	1.41
85	5	2907	G	N7-C5	-6.53	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1952	G	C5-C4	6.53	1.43	1.38
36	1	2378	C	C4-C5	-6.53	1.37	1.43
85	5	1867	A	C5-C4	-6.53	1.34	1.38
85	5	1927	G	C5-C4	-6.53	1.33	1.38
36	1	943	U	C2-O2	-6.53	1.16	1.22
36	1	3069	G	N7-C5	6.53	1.43	1.39
80	6	796	A	C6-N1	-6.53	1.30	1.35
85	5	417	A	N3-C4	-6.53	1.30	1.34
85	5	599	C	C2-O2	-6.53	1.18	1.24
85	5	815	G	N9-C8	-6.53	1.33	1.37
85	5	1340	G	N9-C8	-6.53	1.33	1.37
85	5	1354	G	N9-C8	6.53	1.42	1.37
85	5	2399	A	N3-C4	-6.53	1.30	1.34
38	8	104	A	N9-C4	-6.53	1.33	1.37
69	o3	101	PHE	CD1-CE1	-6.53	1.26	1.39
8	S6	155	ASP	CB-CG	6.53	1.65	1.51
36	1	43	A	C2-N3	-6.53	1.27	1.33
36	1	743	C	C2-N3	-6.53	1.30	1.35
36	1	1536	G	N1-C2	-6.53	1.32	1.37
38	4	38	U	C2-O2	-6.53	1.16	1.22
85	5	1479	U	N3-C4	-6.53	1.32	1.38
37	7	65	G	N7-C5	-6.53	1.35	1.39
36	1	303	G	C4'-C3'	-6.52	1.46	1.53
52	M6	40	GLU	CG-CD	6.52	1.61	1.51
85	5	1302	A	N3-C4	-6.52	1.30	1.34
85	5	2183	A	N9-C4	-6.52	1.33	1.37
85	5	3103	A	C5-C6	-6.52	1.35	1.41
85	5	3330	A	C5-C4	-6.52	1.34	1.38
36	1	1133	A	C5-C4	-6.52	1.34	1.38
36	1	1511	U	C2-O2	-6.52	1.16	1.22
36	1	2341	A	N7-C5	-6.52	1.35	1.39
80	6	1385	G	C8-N7	6.52	1.34	1.30
85	5	999	G	N9-C8	-6.52	1.33	1.37
36	1	2138	A	N7-C5	-6.52	1.35	1.39
36	1	2161	G	C5-C4	-6.52	1.33	1.38
80	6	998	A	N3-C4	-6.52	1.30	1.34
85	5	1530	U	N1-C2	-6.52	1.32	1.38
85	5	2722	U	N1-C2	-6.52	1.32	1.38
36	1	885	U	C4-C5	-6.52	1.37	1.43
36	1	2286	U	N1-C2	-6.52	1.32	1.38
36	1	2985	C	N3-C4	-6.52	1.29	1.33
36	1	3076	C	N1-C6	-6.52	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3245	A	C5-C6	-6.52	1.35	1.41
1	2	217	A	N3-C4	6.52	1.38	1.34
36	1	897	U	N3-C4	-6.52	1.32	1.38
36	1	968	G	N7-C5	-6.52	1.35	1.39
36	1	2598	G	N3-C4	-6.52	1.30	1.35
36	1	2838	A	N3-C4	-6.52	1.30	1.34
36	1	2861	U	N3-C4	-6.52	1.32	1.38
36	1	2965	U	C2-O2	-6.52	1.16	1.22
36	1	3375	A	N3-C4	-6.52	1.30	1.34
85	5	90	C	N1-C2	-6.52	1.33	1.40
85	5	1592	G	C5-C4	6.52	1.43	1.38
61	N5	141	TYR	CD1-CE1	-6.52	1.29	1.39
85	5	2262	A	C5-C4	-6.52	1.34	1.38
85	5	3003	G	C2-N3	-6.52	1.27	1.32
36	1	1479	U	N1-C6	-6.51	1.32	1.38
85	5	3035	A	C5-C6	-6.51	1.35	1.41
36	1	425	G	N3-C4	-6.51	1.30	1.35
69	o3	101	PHE	CD2-CE2	-6.51	1.26	1.39
36	1	1400	G	N3-C4	-6.51	1.30	1.35
36	1	2404	A	N9-C4	6.51	1.41	1.37
36	1	2440	G	C5-C6	6.51	1.48	1.42
36	1	2818	U	C5-C6	-6.51	1.28	1.34
36	1	3261	C	N3-C4	-6.51	1.29	1.33
1	2	305	C	N1-C6	-6.51	1.33	1.37
36	1	656	A	C6-N1	-6.51	1.30	1.35
36	1	1094	U	C5-C6	6.51	1.40	1.34
36	1	1458	U	N1-C6	-6.51	1.32	1.38
80	6	1200	G	C6-N1	6.51	1.44	1.39
85	5	295	A	N7-C5	-6.51	1.35	1.39
85	5	498	A	C5-C6	-6.51	1.35	1.41
85	5	3206	C	C2-N3	-6.51	1.30	1.35
36	1	650	C	N1-C2	-6.51	1.33	1.40
80	6	210	A	N3-C4	-6.51	1.30	1.34
80	6	1712	A	N3-C4	6.51	1.38	1.34
38	8	13	A	C5-C4	-6.51	1.34	1.38
36	1	609	G	C5-C6	-6.51	1.35	1.42
36	1	2287	C	C2-O2	6.51	1.30	1.24
36	1	2913	C	N3-C4	-6.51	1.29	1.33
68	O2	28	VAL	CB-CG2	-6.51	1.39	1.52
80	6	437	A	N3-C4	-6.51	1.30	1.34
85	5	346	C	N3-C4	-6.51	1.29	1.33
38	8	55	U	C2-N3	6.50	1.42	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	217	A	N9-C4	6.50	1.41	1.37
36	1	591	G	N7-C5	-6.50	1.35	1.39
36	1	1157	G	N3-C4	-6.50	1.30	1.35
36	1	2938	G	C5-C4	-6.50	1.33	1.38
85	5	1664	G	C5-C4	-6.50	1.33	1.38
36	1	1490	A	C6-N1	-6.50	1.30	1.35
36	1	1581	C	N1-C6	6.50	1.41	1.37
36	1	1880	U	N1-C6	-6.50	1.32	1.38
85	5	354	U	N1-C6	-6.50	1.32	1.38
85	5	2618	G	N1-C2	-6.50	1.32	1.37
1	2	331	A	N9-C4	-6.50	1.33	1.37
85	5	371	G	N3-C4	-6.50	1.30	1.35
85	5	650	C	C2-N3	-6.50	1.30	1.35
85	5	980	A	N3-C4	6.50	1.38	1.34
85	5	3303	G	N1-C2	-6.50	1.32	1.37
1	2	355	G	C5-C4	-6.50	1.33	1.38
36	1	2185	G	C6-N1	-6.50	1.35	1.39
85	5	1116	G	C6-N1	-6.50	1.35	1.39
85	5	2327	U	C2-O2	6.50	1.28	1.22
36	1	1026	A	N9-C4	6.50	1.41	1.37
36	1	1362	G	N9-C4	-6.50	1.32	1.38
36	1	2994	A	C6-N1	-6.50	1.31	1.35
80	6	1070	C	C4-C5	6.50	1.48	1.43
85	5	194	U	C2-O2	-6.50	1.16	1.22
85	5	899	U	N1-C2	-6.50	1.32	1.38
85	5	1197	A	N3-C4	-6.50	1.30	1.34
85	5	2316	G	N9-C8	-6.50	1.33	1.37
85	5	2351	U	N3-C4	-6.50	1.32	1.38
38	8	68	G	N9-C8	-6.50	1.33	1.37
36	1	585	A	C2-N3	-6.49	1.27	1.33
36	1	761	A	N9-C4	-6.49	1.33	1.37
36	1	1327	C	N3-C4	-6.49	1.29	1.33
85	5	885	U	N1-C2	-6.49	1.32	1.38
85	5	950	G	C5-C4	-6.49	1.33	1.38
1	2	307	G	N9-C8	-6.49	1.33	1.37
36	1	864	G	N9-C4	-6.49	1.32	1.38
80	6	496	G	N3-C4	6.49	1.40	1.35
36	1	2645	G	N9-C4	-6.49	1.32	1.38
39	L2	98	VAL	CB-CG1	-6.49	1.39	1.52
80	6	1547	A	N9-C4	-6.49	1.33	1.37
85	5	1011	A	C6-N1	-6.49	1.31	1.35
85	5	3151	U	N1-C2	-6.49	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	862	U	N1-C6	-6.49	1.32	1.38
36	1	1082	U	C2-N3	-6.49	1.33	1.37
36	1	2604	U	C2-N3	-6.49	1.33	1.37
85	5	822	G	C6-N1	-6.49	1.35	1.39
85	5	3003	G	C5-C4	-6.49	1.33	1.38
36	1	2640	A	C6-N1	-6.49	1.31	1.35
85	5	1667	A	N9-C4	-6.49	1.33	1.37
36	1	2412	G	C6-N1	-6.49	1.35	1.39
85	5	2965	U	N1-C2	-6.49	1.32	1.38
85	5	2957	G	N9-C8	-6.48	1.33	1.37
36	1	2215	A	N7-C5	-6.48	1.35	1.39
36	1	2811	A	C6-N6	-6.48	1.28	1.33
80	6	1521	G	N7-C5	-6.48	1.35	1.39
85	5	1696	A	N9-C4	-6.48	1.33	1.37
38	8	80	A	C5-C6	6.48	1.46	1.41
1	2	356	G	N7-C5	-6.48	1.35	1.39
36	1	313	A	C5-C4	-6.48	1.34	1.38
36	1	333	G	N9-C4	-6.48	1.32	1.38
36	1	1859	A	N9-C8	-6.48	1.32	1.37
80	6	1300	A	N9-C4	-6.48	1.33	1.37
85	5	604	G	C6-N1	6.48	1.44	1.39
85	5	1128	U	N1-C2	-6.48	1.32	1.38
85	5	2255	A	N9-C4	-6.48	1.33	1.37
85	5	3097	C	C4-C5	-6.48	1.37	1.43
36	1	16	A	N9-C4	-6.48	1.33	1.37
80	6	1137	A	N3-C4	-6.48	1.30	1.34
85	5	3107	U	C5-C6	-6.48	1.28	1.34
36	1	1823	A	N7-C5	-6.48	1.35	1.39
36	1	2525	G	N7-C5	-6.48	1.35	1.39
85	5	321	C	N1-C6	-6.48	1.33	1.37
85	5	1126	G	C5-C4	-6.48	1.33	1.38
36	1	1180	A	C6-N1	-6.48	1.31	1.35
36	1	2317	A	C6-N1	-6.47	1.31	1.35
80	6	1729	C	C2-O2	-6.47	1.18	1.24
85	5	80	G	N7-C5	-6.47	1.35	1.39
85	5	903	U	C2-N3	-6.47	1.33	1.37
85	5	3010	U	N1-C2	-6.47	1.32	1.38
85	5	3200	G	C2-N3	-6.47	1.27	1.32
53	m7	150	VAL	CB-CG1	-6.47	1.39	1.52
36	1	985	U	N1-C2	-6.47	1.32	1.38
36	1	1472	U	N1-C6	-6.47	1.32	1.38
36	1	2190	U	N3-C4	-6.47	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	350	C	C2-O2	-6.47	1.18	1.24
85	5	646	A	C6-N1	-6.47	1.31	1.35
85	5	1134	G	C6-N1	-6.47	1.35	1.39
85	5	2819	A	C6-N1	-6.47	1.31	1.35
85	5	2376	G	N3-C4	-6.47	1.30	1.35
72	o6	46	GLU	CG-CD	6.47	1.61	1.51
36	1	1340	G	C5-C4	-6.47	1.33	1.38
38	4	15	G	N1-C2	-6.47	1.32	1.37
80	6	46	A	C5-C6	-6.47	1.35	1.41
80	6	1346	A	N3-C4	6.47	1.38	1.34
36	1	2972	G	C6-N1	6.47	1.44	1.39
80	6	1113	A	N3-C4	-6.47	1.30	1.34
85	5	1311	G	N3-C4	-6.47	1.30	1.35
85	5	2294	U	N1-C6	-6.47	1.32	1.38
85	5	2300	G	C5-C4	-6.47	1.33	1.38
36	1	1514	G	N7-C5	-6.47	1.35	1.39
85	5	1059	G	N9-C8	-6.47	1.33	1.37
85	5	2967	A	N3-C4	-6.47	1.30	1.34
36	1	2419	A	N9-C4	-6.46	1.33	1.37
80	6	1126	G	N7-C5	-6.46	1.35	1.39
85	5	907	G	C2'-C1'	-6.46	1.46	1.53
85	5	1130	A	C5-C4	-6.46	1.34	1.38
85	5	2644	C	C2-O2	-6.46	1.18	1.24
85	5	2757	U	N1-C6	-6.46	1.32	1.38
36	1	1798	A	N9-C4	-6.46	1.33	1.37
85	5	2665	U	C4-C5	-6.46	1.37	1.43
36	1	423	A	N7-C5	-6.46	1.35	1.39
36	1	1350	A	N9-C4	6.46	1.41	1.37
36	1	1380	G	N9-C4	-6.46	1.32	1.38
36	1	3060	C	N1-C6	-6.46	1.33	1.37
80	6	1213	G	C6-N1	6.46	1.44	1.39
85	5	1018	G	N7-C5	6.46	1.43	1.39
85	5	1507	G	N7-C5	-6.46	1.35	1.39
44	l7	235	PHE	CD1-CE1	-6.46	1.26	1.39
36	1	2187	G	N7-C5	-6.46	1.35	1.39
80	6	1117	U	C4-O4	6.46	1.28	1.23
85	5	956	U	N1-C2	-6.46	1.32	1.38
85	5	2515	A	N7-C5	-6.46	1.35	1.39
85	5	2873	U	N1-C6	-6.46	1.32	1.38
1	2	586	G	N9-C4	6.46	1.43	1.38
80	6	395	U	N1-C6	-6.46	1.32	1.38
80	6	456	A	N3-C4	-6.46	1.30	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	658	G	C5-C6	-6.46	1.35	1.42
85	5	677	A	C6-N1	-6.46	1.31	1.35
85	5	2181	C	N1-C2	-6.46	1.33	1.40
85	5	2636	A	C5-C4	-6.46	1.34	1.38
85	5	2919	A	N9-C8	-6.46	1.32	1.37
36	1	1429	G	C2-N2	-6.46	1.28	1.34
85	5	189	G	C5-C4	-6.46	1.33	1.38
85	5	2764	C	C4-C5	-6.46	1.37	1.43
38	8	1	A	N9-C8	-6.46	1.32	1.37
85	5	1350	A	O3'-P	6.46	1.68	1.61
36	1	323	A	N9-C8	-6.45	1.32	1.37
36	1	2188	A	N3-C4	-6.45	1.30	1.34
69	O3	16	TYR	CD2-CE2	-6.45	1.29	1.39
80	6	331	A	N7-C5	-6.45	1.35	1.39
80	6	403	G	C5-C6	-6.45	1.35	1.42
80	6	770	A	N9-C4	-6.45	1.33	1.37
80	6	1124	A	C5-C4	-6.45	1.34	1.38
85	5	1613	A	C5-C6	-6.45	1.35	1.41
36	1	1741	A	C6-N1	-6.45	1.31	1.35
85	5	1313	G	N7-C5	-6.45	1.35	1.39
36	1	1370	G	C6-N1	-6.45	1.35	1.39
80	6	1122	G	N9-C4	-6.45	1.32	1.38
85	5	510	G	N3-C4	-6.45	1.30	1.35
85	5	1418	A	N3-C4	-6.45	1.30	1.34
85	5	2352	A	N3-C4	-6.45	1.30	1.34
85	5	2984	C	N3-C4	-6.45	1.29	1.33
36	1	1451	C	N1-C2	-6.45	1.33	1.40
46	L9	135	GLU	CG-CD	6.45	1.61	1.51
85	5	2145	A	C6-N6	-6.45	1.28	1.33
85	5	3084	C	N1-C2	-6.45	1.33	1.40
36	1	862	U	C2-N3	-6.45	1.33	1.37
36	1	2793	G	C2-N3	-6.45	1.27	1.32
85	5	213	A	C6-N1	-6.45	1.31	1.35
85	5	3314	A	N9-C4	-6.45	1.33	1.37
36	1	905	U	C2-O2	-6.45	1.16	1.22
36	1	2381	G	C5-C6	-6.45	1.35	1.42
36	1	3378	C	N1-C6	-6.45	1.33	1.37
38	8	68	G	N7-C5	-6.45	1.35	1.39
36	1	701	G	N3-C4	-6.44	1.30	1.35
36	1	765	C	N3-C4	6.44	1.38	1.33
36	1	876	A	C6-N1	-6.44	1.31	1.35
36	1	2187	G	C2-N3	-6.44	1.27	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2907	G	N7-C5	-6.44	1.35	1.39
85	5	1318	A	N3-C4	-6.44	1.30	1.34
85	5	3083	G	C5-C4	-6.44	1.33	1.38
36	1	953	G	N3-C4	-6.44	1.30	1.35
36	1	996	A	N3-C4	-6.44	1.30	1.34
85	5	864	G	N7-C5	-6.44	1.35	1.39
37	7	99	G	C5-C4	-6.44	1.33	1.38
36	1	1151	U	C4-O4	6.44	1.28	1.23
36	1	1327	C	N1-C6	-6.44	1.33	1.37
36	1	1729	A	N3-C4	-6.44	1.30	1.34
36	1	3273	A	N9-C4	-6.44	1.33	1.37
38	4	144	G	N3-C4	-6.44	1.30	1.35
85	5	2626	A	C6-N1	-6.44	1.31	1.35
85	5	2818	U	N1-C6	-6.44	1.32	1.38
36	1	584	G	N3-C4	-6.44	1.30	1.35
80	6	268	C	N1-C6	-6.44	1.33	1.37
85	5	834	U	C2-N3	-6.44	1.33	1.37
36	1	1169	A	C6-N1	-6.44	1.31	1.35
36	1	1664	G	N3-C4	-6.44	1.30	1.35
36	1	1814	A	C6-N1	6.44	1.40	1.35
36	1	2610	G	C5-C6	-6.44	1.35	1.42
38	4	82	U	C2-N3	6.44	1.42	1.37
80	6	937	C	N1-C6	-6.44	1.33	1.37
85	5	1875	G	N7-C5	-6.44	1.35	1.39
85	5	2383	C	N1-C6	-6.44	1.33	1.37
85	5	2548	C	N1-C6	6.44	1.41	1.37
36	1	627	U	C2-N3	6.43	1.42	1.37
44	17	86	VAL	CB-CG1	-6.43	1.39	1.52
36	1	602	A	N3-C4	6.43	1.38	1.34
85	5	1126	G	N7-C5	-6.43	1.35	1.39
85	5	1399	A	C2-N3	-6.43	1.27	1.33
85	5	2189	U	N1-C6	-6.43	1.32	1.38
36	1	56	G	C6-O6	-6.43	1.18	1.24
36	1	1341	U	N1-C2	-6.43	1.32	1.38
36	1	1373	A	N9-C4	-6.43	1.33	1.37
36	1	3025	C	C5-C6	-6.43	1.29	1.34
85	5	425	G	C6-N1	-6.43	1.35	1.39
85	5	2541	U	N1-C2	6.43	1.44	1.38
38	8	155	A	N9-C4	6.43	1.41	1.37
36	1	66	A	C5-C4	-6.43	1.34	1.38
80	6	1730	A	N9-C4	-6.43	1.33	1.37
85	5	1464	G	N9-C4	-6.43	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	780	G	C5-C6	-6.43	1.35	1.42
36	1	1195	A	N9-C8	-6.43	1.32	1.37
36	1	2967	A	C6-N1	-6.43	1.31	1.35
37	3	22	A	N9-C4	6.43	1.41	1.37
38	4	36	G	N9-C4	-6.43	1.32	1.38
80	6	279	G	C6-N1	6.43	1.44	1.39
85	5	884	A	C5-C6	-6.43	1.35	1.41
36	1	1673	G	N9-C8	-6.42	1.33	1.37
36	1	2111	G	N9-C4	-6.42	1.32	1.38
36	1	2128	C	N1-C2	-6.42	1.33	1.40
85	5	2195	C	N3-C4	-6.42	1.29	1.33
85	5	2680	A	C6-N1	-6.42	1.31	1.35
36	1	273	A	N3-C4	-6.42	1.30	1.34
80	6	327	U	C2-N3	6.42	1.42	1.37
80	6	1537	C	N3-C4	6.42	1.38	1.33
85	5	2813	A	N9-C8	-6.42	1.32	1.37
36	1	430	U	C2-O2	-6.42	1.16	1.22
36	1	2381	G	C5-C4	-6.42	1.33	1.38
36	1	2760	C	N1-C2	-6.42	1.33	1.40
59	N3	79	VAL	CB-CG2	-6.42	1.39	1.52
85	5	789	A	N9-C8	-6.42	1.32	1.37
85	5	837	A	N9-C8	-6.42	1.32	1.37
85	5	858	A	C5-C6	-6.42	1.35	1.41
85	5	1515	A	C5-C6	-6.42	1.35	1.41
36	1	2855	U	N1-C6	-6.42	1.32	1.38
80	6	1772	C	N1-C6	-6.42	1.33	1.37
36	1	1399	A	N9-C4	-6.42	1.33	1.37
36	1	3046	A	N3-C4	-6.42	1.30	1.34
85	5	2158	A	N3-C4	-6.42	1.30	1.34
85	5	2876	C	N1-C6	-6.42	1.33	1.37
36	1	1734	G	N9-C4	-6.42	1.32	1.38
85	5	430	U	N1-C6	-6.42	1.32	1.38
85	5	2416	U	C4-O4	6.42	1.28	1.23
36	1	1047	A	C5-C6	-6.42	1.35	1.41
85	5	2132	C	C2-N3	-6.42	1.30	1.35
36	1	979	U	N1-C2	6.41	1.44	1.38
36	1	1444	G	C5-C4	-6.41	1.33	1.38
36	1	2798	C	C4-C5	-6.41	1.37	1.43
80	6	397	A	N9-C4	-6.41	1.34	1.37
85	5	586	C	C2-N3	-6.41	1.30	1.35
85	5	644	G	C6-O6	6.41	1.29	1.24
85	5	1470	U	N1-C6	-6.41	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3007	U	C4-O4	-6.41	1.18	1.23
85	5	1673	G	C6-N1	-6.41	1.35	1.39
85	5	2303	A	N3-C4	-6.41	1.31	1.34
85	5	2692	A	N3-C4	-6.41	1.31	1.34
36	1	2550	U	N3-C4	-6.41	1.32	1.38
80	6	1653	C	N1-C2	-6.41	1.33	1.40
85	5	997	A	N3-C4	-6.41	1.31	1.34
85	5	2193	U	C4-O4	-6.41	1.18	1.23
85	5	2734	A	N9-C4	-6.41	1.34	1.37
85	5	3002	C	N1-C6	-6.41	1.33	1.37
85	5	3309	G	C6-N1	-6.41	1.35	1.39
37	7	6	C	C2-O2	-6.41	1.18	1.24
36	1	2719	U	N1-C6	-6.41	1.32	1.38
85	5	645	A	N1-C2	-6.41	1.28	1.34
85	5	2569	A	C6-N1	6.41	1.40	1.35
85	5	2862	U	N3-C4	-6.41	1.32	1.38
85	5	3271	G	N1-C2	-6.41	1.32	1.37
36	1	426	G	N9-C8	-6.41	1.33	1.37
36	1	969	C	N1-C2	-6.41	1.33	1.40
36	1	2840	C	N3-C4	-6.41	1.29	1.33
85	5	1847	A	N9-C4	-6.41	1.34	1.37
56	n0	17	GLU	CB-CG	6.41	1.64	1.52
36	1	942	U	N1-C6	-6.41	1.32	1.38
36	1	1178	G	N3-C4	-6.41	1.30	1.35
36	1	1352	A	C5-C6	6.41	1.46	1.41
36	1	2873	U	C2-N3	-6.41	1.33	1.37
85	5	567	G	N9-C4	-6.41	1.32	1.38
36	1	863	C	C2-O2	-6.40	1.18	1.24
36	1	3026	G	N7-C5	-6.40	1.35	1.39
85	5	636	C	C4-C5	-6.40	1.37	1.43
85	5	2173	U	N1-C6	-6.40	1.32	1.38
36	1	914	A	N9-C8	-6.40	1.32	1.37
36	1	3078	U	C4-O4	6.40	1.28	1.23
80	6	304	U	C2-N3	-6.40	1.33	1.37
36	1	427	C	C2-O2	-6.40	1.18	1.24
36	1	1598	G	N3-C4	-6.40	1.30	1.35
36	1	3054	U	C2-O2	-6.40	1.16	1.22
37	7	46	A	N7-C5	-6.40	1.35	1.39
36	1	1145	G	N7-C5	-6.40	1.35	1.39
36	1	2334	U	N1-C6	-6.40	1.32	1.38
85	5	45	A	C5-C6	-6.40	1.35	1.41
85	5	1135	A	N9-C8	-6.40	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1809	A	C6-N1	-6.40	1.31	1.35
85	5	2114	C	C4-C5	-6.40	1.37	1.43
36	1	891	G	N9-C4	-6.40	1.32	1.38
36	1	1371	G	C8-N7	-6.40	1.27	1.30
36	1	1397	C	N1-C2	-6.40	1.33	1.40
36	1	2157	G	N7-C5	-6.40	1.35	1.39
85	5	804	C	C4-C5	-6.40	1.37	1.43
85	5	1791	C	N1-C6	-6.40	1.33	1.37
37	7	110	G	N9-C8	-6.40	1.33	1.37
80	6	95	G	C5-C6	6.40	1.48	1.42
80	6	1768	G	N3-C4	-6.40	1.30	1.35
85	5	38	U	C2-N3	-6.40	1.33	1.37
85	5	657	A	N3-C4	-6.40	1.31	1.34
85	5	755	A	N9-C4	-6.40	1.34	1.37
85	5	873	C	N1-C6	-6.40	1.33	1.37
85	5	923	C	N3-C4	-6.40	1.29	1.33
85	5	1311	G	N9-C8	-6.40	1.33	1.37
36	1	317	A	N3-C4	-6.39	1.31	1.34
36	1	1529	A	N3-C4	-6.39	1.31	1.34
36	1	1873	U	C2-N3	-6.39	1.33	1.37
36	1	3109	G	N1-C2	-6.39	1.32	1.37
85	5	1538	G	N3-C4	-6.39	1.30	1.35
80	6	1537	C	N1-C6	6.39	1.41	1.37
85	5	1551	C	N1-C6	-6.39	1.33	1.37
85	5	1946	A	N7-C5	-6.39	1.35	1.39
85	5	2733	A	C5-C4	-6.39	1.34	1.38
36	1	299	G	N9-C4	-6.39	1.32	1.38
36	1	345	G	N7-C5	-6.39	1.35	1.39
36	1	3276	G	N3-C4	6.39	1.40	1.35
80	6	973	A	N9-C8	-6.39	1.32	1.37
85	5	865	U	N1-C2	-6.39	1.32	1.38
49	m3	33	VAL	CB-CG1	-6.39	1.39	1.52
36	1	649	A	C5-C6	-6.39	1.35	1.41
36	1	663	C	C4-C5	-6.39	1.37	1.43
36	1	1005	G	N9-C8	-6.39	1.33	1.37
85	5	560	G	C5-C4	-6.39	1.33	1.38
85	5	2946	A	N3-C4	-6.39	1.31	1.34
37	7	46	A	N3-C4	-6.39	1.31	1.34
85	5	2976	A	N9-C8	-6.39	1.32	1.37
36	1	64	G	N3-C4	-6.39	1.30	1.35
36	1	3352	U	C2-N3	6.39	1.42	1.37
38	4	57	C	C2-N3	-6.39	1.30	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	375	A	N9-C4	-6.39	1.34	1.37
85	5	2909	U	N3-C4	-6.39	1.32	1.38
36	1	2968	G	N7-C5	-6.38	1.35	1.39
36	1	3261	C	C2-O2	-6.38	1.18	1.24
38	4	104	A	C6-N1	-6.38	1.31	1.35
36	1	2964	G	N9-C4	-6.38	1.32	1.38
85	5	105	C	N1-C2	-6.38	1.33	1.40
80	6	1086	A	C5-C4	-6.38	1.34	1.38
36	1	313	A	N7-C5	-6.38	1.35	1.39
36	1	1847	A	N3-C4	-6.38	1.31	1.34
38	4	108	C	N1-C6	-6.38	1.33	1.37
85	5	422	A	C6-N1	-6.38	1.31	1.35
85	5	2747	A	N9-C4	-6.38	1.34	1.37
85	5	2939	G	N9-C8	-6.38	1.33	1.37
85	5	3248	C	N1-C2	-6.38	1.33	1.40
36	1	652	G	C8-N7	-6.38	1.27	1.30
36	1	2761	G	N9-C4	-6.38	1.32	1.38
80	6	295	A	N3-C4	-6.38	1.31	1.34
80	6	343	C	N1-C6	-6.38	1.33	1.37
85	5	2173	U	N3-C4	-6.38	1.32	1.38
85	5	2761	G	C5-C6	-6.38	1.35	1.42
85	5	2876	C	C2-O2	-6.38	1.18	1.24
85	5	2913	C	N1-C2	-6.38	1.33	1.40
36	1	1163	A	N3-C4	-6.38	1.31	1.34
36	1	114	A	C5-C6	-6.38	1.35	1.41
36	1	1477	A	C5-C6	-6.38	1.35	1.41
36	1	2300	G	N7-C5	-6.38	1.35	1.39
85	5	2395	G	N9-C4	-6.38	1.32	1.38
1	2	1538	A	C6-N1	-6.37	1.31	1.35
36	1	289	A	N3-C4	-6.37	1.31	1.34
36	1	2525	G	C6-N1	-6.37	1.35	1.39
80	6	403	G	N3-C4	-6.37	1.30	1.35
80	6	574	G	N9-C4	-6.37	1.32	1.38
85	5	912	G	C5-C4	-6.37	1.33	1.38
85	5	987	U	C2-O2	-6.37	1.16	1.22
85	5	996	A	N9-C8	-6.37	1.32	1.37
85	5	1605	A	C5-C4	-6.37	1.34	1.38
85	5	2371	G	N3-C4	-6.37	1.30	1.35
85	5	2742	C	C5-C6	-6.37	1.29	1.34
85	5	3088	G	C6-N1	-6.37	1.35	1.39
38	8	97	A	N3-C4	-6.37	1.31	1.34
36	1	1631	C	C2-N3	-6.37	1.30	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1753	G	C5-C6	-6.37	1.35	1.42
80	6	33	U	C2-N3	6.37	1.42	1.37
36	1	726	G	N3-C4	-6.37	1.30	1.35
36	1	2295	A	C5-C6	-6.37	1.35	1.41
36	1	2519	A	C5-C4	6.37	1.43	1.38
80	6	333	A	N7-C5	-6.37	1.35	1.39
85	5	2548	C	N1-C2	6.37	1.46	1.40
85	5	3333	G	N3-C4	-6.37	1.30	1.35
36	1	1366	A	C5-C6	-6.37	1.35	1.41
36	1	3281	U	C2-N3	6.37	1.42	1.37
85	5	1544	G	N9-C8	-6.37	1.33	1.37
85	5	2287	C	N1-C2	-6.37	1.33	1.40
85	5	2363	A	C5-C4	-6.37	1.34	1.38
37	7	95	A	N7-C5	-6.37	1.35	1.39
36	1	307	A	N1-C2	-6.37	1.28	1.34
85	5	1441	G	P-OP1	6.37	1.59	1.49
85	5	2344	U	C2-O2	-6.37	1.16	1.22
85	5	2982	A	N9-C8	-6.37	1.32	1.37
36	1	1311	G	C5-C4	-6.36	1.33	1.38
36	1	1586	G	N7-C5	-6.36	1.35	1.39
36	1	2136	C	N1-C6	-6.36	1.33	1.37
85	5	2506	U	N1-C2	6.36	1.44	1.38
85	5	988	U	N1-C6	-6.36	1.32	1.38
85	5	1108	U	N3-C4	-6.36	1.32	1.38
85	5	2987	A	C6-N1	-6.36	1.31	1.35
36	1	323	A	C5-C4	-6.36	1.34	1.38
36	1	365	A	C6-N1	-6.36	1.31	1.35
85	5	1648	A	N3-C4	-6.36	1.31	1.34
36	1	1869	C	N1-C6	-6.36	1.33	1.37
38	4	94	C	C2-N3	-6.36	1.30	1.35
42	L5	133	GLU	CG-CD	6.36	1.61	1.51
36	1	998	A	N9-C4	-6.36	1.34	1.37
85	5	1340	G	C6-N1	-6.36	1.35	1.39
85	5	1492	G	N7-C5	-6.36	1.35	1.39
85	5	2347	U	N1-C2	-6.36	1.32	1.38
85	5	2780	A	N3-C4	-6.36	1.31	1.34
69	o3	8	TYR	CD2-CE2	-6.36	1.29	1.39
76	q0	95	VAL	CB-CG1	-6.36	1.39	1.52
79	q3	69	TYR	CD2-CE2	-6.36	1.29	1.39
1	2	1631	A	N3-C4	-6.36	1.31	1.34
36	1	1352	A	P-O5'	6.36	1.66	1.59
36	1	1446	A	N7-C5	-6.36	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1851	G	N3-C4	-6.36	1.31	1.35
85	5	2808	A	P-O5'	-6.36	1.53	1.59
85	5	2955	U	C2-N3	-6.36	1.33	1.37
85	5	3005	A	N7-C5	-6.36	1.35	1.39
38	8	76	C	P-OP1	6.36	1.59	1.49
52	m6	120	VAL	CB-CG2	-6.36	1.39	1.52
43	L6	109	GLU	CB-CG	6.35	1.64	1.52
85	5	3307	A	N7-C5	-6.35	1.35	1.39
36	1	1655	G	N9-C4	-6.35	1.32	1.38
85	5	2956	A	N3-C4	-6.35	1.31	1.34
80	6	1635	A	C5-C4	-6.35	1.34	1.38
85	5	1658	G	N3-C4	-6.35	1.31	1.35
85	5	2099	A	N7-C5	6.35	1.43	1.39
85	5	2968	G	C5-C4	-6.35	1.33	1.38
36	1	269	G	N9-C4	-6.35	1.32	1.38
36	1	865	U	C2-O2	-6.35	1.16	1.22
36	1	1534	A	C6-N1	-6.35	1.31	1.35
38	4	13	A	N3-C4	-6.35	1.31	1.34
80	6	1800	A	C5-C4	6.35	1.43	1.38
80	6	393	C	N1-C6	-6.35	1.33	1.37
80	6	607	G	N7-C5	-6.35	1.35	1.39
80	6	1651	A	N7-C5	-6.35	1.35	1.39
85	5	1330	A	N1-C2	-6.35	1.28	1.34
85	5	2220	A	N7-C5	-6.35	1.35	1.39
85	5	80	G	N9-C4	-6.35	1.32	1.38
36	1	1307	G	C2-N2	-6.34	1.28	1.34
36	1	3310	A	N9-C4	-6.34	1.34	1.37
80	6	1122	G	N3-C4	-6.34	1.31	1.35
80	6	1125	A	C6-N1	-6.34	1.31	1.35
85	5	498	A	N7-C5	-6.34	1.35	1.39
85	5	1449	A	N9-C8	-6.34	1.32	1.37
85	5	1869	C	N1-C2	-6.34	1.33	1.40
41	14	106	TRP	CB-CG	6.34	1.61	1.50
36	1	1028	U	C2-N3	6.34	1.42	1.37
36	1	1207	G	C5-C6	-6.34	1.36	1.42
36	1	2812	C	N1-C6	-6.34	1.33	1.37
36	1	2991	A	N7-C5	-6.34	1.35	1.39
80	6	65	A	N9-C4	-6.34	1.34	1.37
85	5	2977	G	C6-N1	-6.34	1.35	1.39
36	1	2153	U	C2-N3	-6.34	1.33	1.37
36	1	2873	U	C2-O2	-6.34	1.16	1.22
69	O3	103	TYR	CD2-CE2	-6.34	1.29	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	973	A	N9-C4	-6.34	1.34	1.37
85	5	1440	G	C2-N3	-6.34	1.27	1.32
85	5	3016	A	C5-C6	-6.34	1.35	1.41
85	5	990	U	C2-N3	-6.34	1.33	1.37
36	1	585	A	C6-N1	-6.34	1.31	1.35
36	1	1890	U	C4-O4	-6.34	1.18	1.23
85	5	1435	A	C5-C4	-6.34	1.34	1.38
85	5	1884	A	N7-C5	-6.34	1.35	1.39
85	5	2173	U	C2-N3	-6.34	1.33	1.37
85	5	2761	G	N9-C8	-6.34	1.33	1.37
36	1	685	G	N9-C8	-6.33	1.33	1.37
36	1	1390	A	N3-C4	-6.33	1.31	1.34
36	1	1446	A	N9-C8	-6.33	1.32	1.37
36	1	2152	A	N7-C5	-6.33	1.35	1.39
36	1	2190	U	C2-N3	-6.33	1.33	1.37
80	6	483	A	N9-C4	6.33	1.41	1.37
85	5	344	A	C6-N1	-6.33	1.31	1.35
85	5	1422	G	N7-C5	-6.33	1.35	1.39
85	5	3033	A	N3-C4	-6.33	1.31	1.34
69	o3	81	VAL	CB-CG1	-6.33	1.39	1.52
36	1	174	C	N1-C6	6.33	1.41	1.37
85	5	101	G	N3-C4	-6.33	1.31	1.35
37	7	84	A	N7-C5	-6.33	1.35	1.39
80	6	1108	G	C6-N1	-6.33	1.35	1.39
85	5	2844	C	N1-C2	-6.33	1.33	1.40
36	1	3171	U	N1-C6	6.33	1.43	1.38
52	M6	16	VAL	CB-CG2	-6.33	1.39	1.52
80	6	1131	A	C5-C4	-6.33	1.34	1.38
85	5	929	A	N3-C4	-6.33	1.31	1.34
37	3	86	U	C4-O4	-6.33	1.18	1.23
85	5	1911	A	C5-C4	-6.33	1.34	1.38
85	5	3279	A	N7-C5	6.33	1.43	1.39
42	l5	115	LEU	CA-C	6.33	1.69	1.52
85	5	1567	U	C2-N3	6.33	1.42	1.37
85	5	1912	U	N1-C6	-6.33	1.32	1.38
85	5	3209	A	N7-C5	6.33	1.43	1.39
1	2	568	G	N9-C4	-6.32	1.32	1.38
1	2	1283	A	C6-N1	-6.32	1.31	1.35
36	1	683	U	N1-C6	-6.32	1.32	1.38
36	1	1153	A	N3-C4	-6.32	1.31	1.34
36	1	1765	U	C2-O2	6.32	1.28	1.22
36	1	2329	C	N1-C6	-6.32	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	97	A	C6-N1	-6.32	1.31	1.35
85	5	1322	U	C4-O4	6.32	1.28	1.23
36	1	2374	C	N3-C4	-6.32	1.29	1.33
36	1	2956	A	C5-C4	-6.32	1.34	1.38
36	1	2990	G	N9-C8	-6.32	1.33	1.37
85	5	1658	G	N1-C2	-6.32	1.32	1.37
85	5	1895	A	N9-C4	-6.32	1.34	1.37
85	5	3088	G	C5-C4	-6.32	1.33	1.38
57	n1	109	VAL	CB-CG2	-6.32	1.39	1.52
36	1	1424	C	N1-C6	-6.32	1.33	1.37
36	1	2855	U	C2-O2	-6.32	1.16	1.22
85	5	405	U	N1-C2	-6.32	1.32	1.38
85	5	1350	A	N1-C2	6.32	1.40	1.34
85	5	1693	C	C2-N3	-6.32	1.30	1.35
1	2	996	A	C5-C4	-6.32	1.34	1.38
80	6	390	G	C5-C6	-6.32	1.36	1.42
80	6	1657	U	C2-O2	6.32	1.28	1.22
85	5	2282	U	N1-C2	-6.32	1.32	1.38
85	5	2940	A	C6-N1	-6.32	1.31	1.35
36	1	2382	G	C8-N7	-6.32	1.27	1.30
36	1	3129	A	C5-C6	-6.32	1.35	1.41
85	5	1326	A	N3-C4	-6.32	1.31	1.34
85	5	2272	G	C5-C4	-6.32	1.33	1.38
85	5	2855	U	C4-O4	-6.32	1.18	1.23
36	1	799	G	C6-N1	-6.32	1.35	1.39
36	1	1343	A	N9-C4	-6.32	1.34	1.37
36	1	1420	C	N1-C6	-6.32	1.33	1.37
80	6	425	A	C5-C4	-6.32	1.34	1.38
80	6	1300	A	N7-C5	-6.32	1.35	1.39
85	5	912	G	C5-C6	-6.32	1.36	1.42
85	5	2850	G	C5-C4	-6.32	1.33	1.38
85	5	2989	U	C4-O4	-6.32	1.18	1.23
36	1	1438	U	N1-C6	-6.31	1.32	1.38
80	6	143	G	C5-C6	-6.31	1.36	1.42
85	5	3040	A	N9-C8	-6.31	1.32	1.37
36	1	789	A	N3-C4	-6.31	1.31	1.34
36	1	885	U	C2-O2	-6.31	1.16	1.22
36	1	1004	U	N1-C2	-6.31	1.32	1.38
36	1	1401	A	C5-C6	-6.31	1.35	1.41
36	1	2699	G	O3'-P	-6.31	1.53	1.61
80	6	1635	A	N3-C4	-6.31	1.31	1.34
85	5	830	A	C5-C6	-6.31	1.35	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2345	A	N7-C5	-6.31	1.35	1.39
85	5	2598	G	C5-C6	-6.31	1.36	1.42
85	5	2807	U	N1-C6	-6.31	1.32	1.38
36	1	941	G	N7-C5	-6.31	1.35	1.39
36	1	1425	U	C2-O2	-6.31	1.16	1.22
36	1	3278	C	N1-C2	6.31	1.46	1.40
85	5	283	G	N9-C4	-6.31	1.32	1.38
36	1	153	U	N1-C6	-6.31	1.32	1.38
36	1	187	A	N3-C4	-6.31	1.31	1.34
36	1	756	U	N3-C4	-6.31	1.32	1.38
36	1	1184	A	C5-C4	-6.31	1.34	1.38
36	1	2569	A	N7-C5	6.31	1.43	1.39
37	3	50	U	C2-N3	6.31	1.42	1.37
80	6	1076	A	N9-C4	-6.31	1.34	1.37
85	5	53	G	C6-N1	-6.31	1.35	1.39
85	5	783	A	N9-C4	-6.31	1.34	1.37
85	5	1294	A	N7-C5	-6.31	1.35	1.39
1	2	1427	A	N9-C4	-6.31	1.34	1.37
36	1	1364	C	C4-N4	-6.31	1.28	1.33
36	1	1905	G	C2-N3	-6.31	1.27	1.32
85	5	367	A	C6-N1	-6.31	1.31	1.35
85	5	1139	G	N3-C4	-6.31	1.31	1.35
85	5	1187	C	N3-C4	-6.31	1.29	1.33
85	5	2660	G	N9-C8	-6.31	1.33	1.37
36	1	495	G	N9-C8	6.31	1.42	1.37
36	1	1113	G	N9-C8	-6.31	1.33	1.37
36	1	3330	A	N1-C2	-6.31	1.28	1.34
38	8	25	G	C6-N1	-6.31	1.35	1.39
1	2	217	A	C6-N1	6.30	1.40	1.35
36	1	2306	C	N1-C2	6.30	1.46	1.40
85	5	705	A	N9-C4	-6.30	1.34	1.37
85	5	2160	G	C6-N1	-6.30	1.35	1.39
85	5	3327	G	C6-N1	6.30	1.44	1.39
38	8	70	G	C6-N1	-6.30	1.35	1.39
36	1	703	G	N3-C4	-6.30	1.31	1.35
36	1	3167	A	N3-C4	6.30	1.38	1.34
37	3	81	U	N3-C4	-6.30	1.32	1.38
68	O2	3	SER	C-N	-6.30	1.19	1.34
80	6	616	G	N3-C4	-6.30	1.31	1.35
85	5	901	G	N3-C4	-6.30	1.31	1.35
37	3	101	G	N9-C4	-6.30	1.32	1.38
85	5	806	A	C5-C6	-6.30	1.35	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2180	G	C5-C6	-6.30	1.36	1.42
36	1	2946	A	N3-C4	-6.30	1.31	1.34
36	1	2969	A	C5-C6	-6.30	1.35	1.41
36	1	1852	G	C5-C6	-6.30	1.36	1.42
80	6	792	U	C2-N3	6.30	1.42	1.37
85	5	2941	A	N9-C8	-6.30	1.32	1.37
36	1	3173	G	N7-C5	-6.30	1.35	1.39
85	5	2695	A	C6-N1	-6.30	1.31	1.35
37	7	73	C	C2-N3	6.30	1.40	1.35
85	5	1375	G	N9-C8	-6.29	1.33	1.37
85	5	2784	G	N3-C4	-6.29	1.31	1.35
36	1	894	G	C5-C6	-6.29	1.36	1.42
36	1	1136	A	N7-C5	-6.29	1.35	1.39
36	1	2168	A	N9-C8	-6.29	1.32	1.37
49	M3	22	VAL	CB-CG1	-6.29	1.39	1.52
4	s2	79	GLU	CG-CD	6.29	1.61	1.51
85	5	2895	G	N1-C2	-6.29	1.32	1.37
37	7	61	G	C6-N1	-6.29	1.35	1.39
36	1	1408	G	C5-C4	-6.29	1.33	1.38
85	5	1369	A	O3'-P	-6.29	1.53	1.61
85	5	2686	A	P-OP2	6.29	1.59	1.49
36	1	1429	G	C6-N1	-6.29	1.35	1.39
36	1	1872	C	N1-C6	-6.29	1.33	1.37
85	5	725	G	N9-C8	-6.29	1.33	1.37
85	5	2624	G	P-OP1	-6.29	1.38	1.49
85	5	3090	U	N1-C6	-6.29	1.32	1.38
36	1	792	G	N9-C4	-6.29	1.32	1.38
38	4	17	A	C5-C6	-6.29	1.35	1.41
85	5	2331	C	N1-C2	-6.29	1.33	1.40
85	5	2392	C	C5-C6	-6.29	1.29	1.34
38	8	10	A	C5-C6	-6.29	1.35	1.41
40	l3	114	VAL	CB-CG2	-6.29	1.39	1.52
80	6	713	A	N9-C4	6.29	1.41	1.37
25	d3	100	ASP	CB-CG	6.29	1.65	1.51
85	5	3128	G	N3-C4	-6.29	1.31	1.35
36	1	863	C	C2-N3	-6.29	1.30	1.35
36	1	2847	A	C5-C4	-6.29	1.34	1.38
38	4	103	G	N9-C4	6.29	1.43	1.38
68	O2	76	VAL	CB-CG1	-6.29	1.39	1.52
85	5	2937	G	N9-C4	-6.29	1.32	1.38
85	5	2944	U	N3-C4	-6.29	1.32	1.38
44	l7	153	PHE	CD1-CE1	-6.29	1.26	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2277	C	N1-C2	-6.28	1.33	1.40
36	1	2377	G	C6-O6	-6.28	1.18	1.24
85	5	397	A	N1-C2	-6.28	1.28	1.34
85	5	2117	A	C5-C4	-6.28	1.34	1.38
85	5	2510	U	C4-O4	6.28	1.28	1.23
85	5	2637	A	N7-C5	-6.28	1.35	1.39
85	5	3098	G	C5-C6	-6.28	1.36	1.42
36	1	384	A	C5-C4	-6.28	1.34	1.38
52	M6	36	VAL	CB-CG1	-6.28	1.39	1.52
69	O3	68	TRP	CE3-CZ3	-6.28	1.27	1.38
36	1	315	C	C4-C5	-6.28	1.38	1.43
36	1	2168	A	N3-C4	-6.28	1.31	1.34
36	1	2302	G	C6-N1	-6.28	1.35	1.39
36	1	2609	A	N9-C8	-6.28	1.32	1.37
85	5	348	A	N9-C8	-6.28	1.32	1.37
85	5	1063	G	C5-C6	-6.28	1.36	1.42
85	5	1902	G	N9-C8	-6.28	1.33	1.37
85	5	2967	A	C5-C4	-6.28	1.34	1.38
37	7	28	C	N1-C6	-6.28	1.33	1.37
38	4	124	G	N7-C5	-6.28	1.35	1.39
80	6	978	A	C6-N1	-6.28	1.31	1.35
80	6	1119	G	C5-C6	-6.28	1.36	1.42
85	5	1315	U	N1-C2	-6.28	1.32	1.38
85	5	1908	A	C5-C4	-6.28	1.34	1.38
38	4	25	G	C5-C4	-6.28	1.33	1.38
85	5	275	U	N3-C4	-6.28	1.32	1.38
85	5	1197	A	N9-C8	-6.28	1.32	1.37
85	5	2405	C	C2-O2	-6.28	1.18	1.24
36	1	1450	G	N3-C4	-6.28	1.31	1.35
85	5	442	G	C6-N1	6.28	1.44	1.39
85	5	674	G	C2-N3	-6.28	1.27	1.32
85	5	2394	G	N1-C2	-6.28	1.32	1.37
85	5	2984	C	C2-O2	-6.28	1.18	1.24
1	2	1267	C	N1-C6	-6.27	1.33	1.37
36	1	823	C	N3-C4	-6.27	1.29	1.33
38	4	5	U	N1-C2	-6.27	1.32	1.38
85	5	1081	U	C2-N3	6.27	1.42	1.37
85	5	2388	U	C2-N3	6.27	1.42	1.37
69	o3	3	GLU	CG-CD	6.27	1.61	1.51
36	1	2136	C	N1-C2	-6.27	1.33	1.40
79	Q3	72	SER	CA-CB	6.27	1.62	1.52
85	5	845	G	C5-C4	-6.27	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1207	G	N9-C8	-6.27	1.33	1.37
85	5	2935	U	C2-N3	6.27	1.42	1.37
85	5	3221	C	N1-C6	-6.27	1.33	1.37
85	5	2939	G	C5-C4	-6.27	1.33	1.38
85	5	3203	U	C2-N3	-6.27	1.33	1.37
1	2	809	U	C4-O4	6.27	1.28	1.23
36	1	1594	A	C6-N1	-6.27	1.31	1.35
36	1	3121	U	C2-N3	-6.27	1.33	1.37
80	6	356	G	C6-N1	-6.27	1.35	1.39
85	5	420	G	N1-C2	-6.27	1.32	1.37
85	5	576	C	N3-C4	-6.27	1.29	1.33
85	5	2331	C	N1-C6	-6.27	1.33	1.37
36	1	699	A	C5-C6	-6.27	1.35	1.41
36	1	885	U	N1-C2	-6.27	1.32	1.38
80	6	105	A	C5-C6	-6.27	1.35	1.41
85	5	216	G	N9-C4	-6.27	1.32	1.38
36	1	387	A	N7-C5	-6.27	1.35	1.39
36	1	2134	G	C5-C4	-6.27	1.33	1.38
36	1	2363	A	N9-C4	-6.27	1.34	1.37
85	5	165	A	C5-C4	6.27	1.43	1.38
85	5	3037	U	C2-N3	6.27	1.42	1.37
36	1	901	G	N3-C4	-6.26	1.31	1.35
80	6	1777	G	N9-C4	-6.26	1.32	1.38
85	5	1205	A	N1-C2	-6.26	1.28	1.34
36	1	2682	C	N3-C4	-6.26	1.29	1.33
36	1	3296	A	N9-C4	-6.26	1.34	1.37
85	5	2330	C	N1-C6	-6.26	1.33	1.37
36	1	99	A	C5-C6	-6.26	1.35	1.41
36	1	1154	A	N1-C2	-6.26	1.28	1.34
36	1	3288	G	C6-N1	6.26	1.44	1.39
80	6	1133	A	C5-C6	-6.26	1.35	1.41
85	5	442	G	N3-C4	6.26	1.39	1.35
85	5	751	A	N3-C4	-6.26	1.31	1.34
85	5	1893	A	N3-C4	-6.26	1.31	1.34
85	5	2820	A	P-OP1	-6.26	1.38	1.49
36	1	927	C	C4-C5	-6.26	1.38	1.43
36	1	2598	G	C2-N3	-6.26	1.27	1.32
85	5	366	A	N9-C8	-6.26	1.32	1.37
85	5	1418	A	N9-C4	-6.26	1.34	1.37
85	5	2421	U	C2-N3	-6.26	1.33	1.37
85	5	2725	U	N3-C4	6.26	1.44	1.38
78	q2	77	CYS	CB-SG	-6.26	1.71	1.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1438	U	N1-C2	-6.26	1.32	1.38
36	1	2969	A	N3-C4	-6.26	1.31	1.34
36	1	3362	A	C5-C4	6.26	1.43	1.38
80	6	398	G	N9-C8	-6.26	1.33	1.37
80	6	770	A	C5-C4	-6.26	1.34	1.38
85	5	634	C	C4-C5	-6.26	1.38	1.43
85	5	2973	G	C2-N2	-6.26	1.28	1.34
36	1	27	C	C2-N3	-6.26	1.30	1.35
36	1	70	A	N3-C4	-6.26	1.31	1.34
36	1	266	A	N9-C4	-6.26	1.34	1.37
80	6	1299	G	N7-C5	-6.26	1.35	1.39
80	6	1663	G	N3-C4	-6.26	1.31	1.35
10	s8	94	ASN	CB-CG	6.26	1.65	1.51
37	7	102	A	N7-C5	-6.26	1.35	1.39
36	1	665	A	N3-C4	-6.25	1.31	1.34
36	1	1093	A	N9-C4	6.25	1.41	1.37
36	1	3188	G	C5-C6	-6.25	1.36	1.42
80	6	304	U	N1-C2	-6.25	1.32	1.38
1	2	47	A	C5-C4	-6.25	1.34	1.38
36	1	790	U	C2-N3	-6.25	1.33	1.37
85	5	509	U	C2-O2	-6.25	1.16	1.22
85	5	1450	G	N3-C4	-6.25	1.31	1.35
85	5	2898	G	C2-N3	-6.25	1.27	1.32
38	8	12	A	N9-C4	-6.25	1.34	1.37
36	1	896	A	N7-C5	-6.25	1.35	1.39
36	1	2809	C	N1-C6	-6.25	1.33	1.37
36	1	3120	C	N1-C2	-6.25	1.33	1.40
80	6	1100	G	C5-C6	-6.25	1.36	1.42
85	5	963	G	N9-C4	6.25	1.43	1.38
85	5	1898	G	N7-C5	-6.25	1.35	1.39
85	5	2324	A	N3-C4	-6.25	1.31	1.34
36	1	1591	G	N3-C4	-6.25	1.31	1.35
85	5	2138	A	C5-C4	-6.25	1.34	1.38
85	5	2962	U	C2-N3	-6.25	1.33	1.37
38	8	13	A	N7-C5	-6.25	1.35	1.39
36	1	794	U	N1-C2	-6.25	1.32	1.38
36	1	2393	G	C6-N1	-6.25	1.35	1.39
36	1	2691	A	C5-C4	-6.25	1.34	1.38
38	4	45	C	N1-C6	-6.25	1.33	1.37
85	5	530	G	N1-C2	-6.25	1.32	1.37
37	7	57	G	C5-C6	-6.25	1.36	1.42
36	1	335	G	O3'-P	-6.25	1.53	1.61

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1931	U	N3-C4	-6.25	1.32	1.38
80	6	137	U	C2-N3	6.25	1.42	1.37
80	6	1730	A	N7-C5	-6.25	1.35	1.39
36	1	3371	G	N3-C4	-6.25	1.31	1.35
85	5	1854	C	N3-C4	-6.25	1.29	1.33
85	5	2199	G	C5-C6	-6.25	1.36	1.42
80	6	93	A	N9-C4	-6.24	1.34	1.37
85	5	834	U	N3-C4	-6.24	1.32	1.38
85	5	1022	U	N1-C2	6.24	1.44	1.38
37	7	92	A	C2'-C1'	-6.24	1.46	1.53
85	5	366	A	N9-C4	-6.24	1.34	1.37
85	5	919	U	C2-O2	-6.24	1.16	1.22
85	5	1321	G	N7-C5	-6.24	1.35	1.39
36	1	826	G	C5-C6	-6.24	1.36	1.42
52	M6	126	VAL	CB-CG2	-6.24	1.39	1.52
85	5	504	A	N7-C5	-6.24	1.35	1.39
85	5	858	A	N7-C5	-6.24	1.35	1.39
85	5	1523	U	C2-N3	-6.24	1.33	1.37
85	5	2754	G	C2-N2	-6.24	1.28	1.34
85	5	3125	U	N1-C6	-6.24	1.32	1.38
49	m3	57	VAL	CB-CG2	-6.24	1.39	1.52
36	1	1748	G	N3-C4	-6.24	1.31	1.35
36	1	1859	A	N9-C4	-6.24	1.34	1.37
36	1	1923	C	N1-C2	-6.24	1.33	1.40
36	1	2097	U	N3-C4	6.24	1.44	1.38
80	6	1722	A	N3-C4	-6.24	1.31	1.34
85	5	2877	G	C8-N7	6.24	1.34	1.30
36	1	2799	A	N9-C8	-6.24	1.32	1.37
80	6	1730	A	C5-C6	-6.24	1.35	1.41
85	5	98	G	C5-C4	-6.24	1.33	1.38
85	5	1185	C	N3-C4	-6.24	1.29	1.33
38	4	115	C	C2-N3	-6.24	1.30	1.35
85	5	29	C	N1-C6	-6.24	1.33	1.37
85	5	2922	G	N9-C8	-6.24	1.33	1.37
36	1	384	A	N9-C4	-6.23	1.34	1.37
36	1	1658	G	N7-C5	-6.23	1.35	1.39
36	1	2815	G	N3-C4	-6.23	1.31	1.35
80	6	492	A	N9-C4	6.23	1.41	1.37
85	5	1148	G	C5-C4	-6.23	1.33	1.38
85	5	1404	G	N3-C4	-6.23	1.31	1.35
85	5	2733	A	N3-C4	-6.23	1.31	1.34
38	8	103	G	N7-C5	-6.23	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1068	G	C5-C4	-6.23	1.33	1.38
36	1	938	C	N1-C2	-6.23	1.33	1.40
36	1	1375	G	C6-N1	-6.23	1.35	1.39
36	1	1839	A	C6-N1	-6.23	1.31	1.35
36	1	3135	U	N1-C6	-6.23	1.32	1.38
85	5	98	G	C6-O6	-6.23	1.18	1.24
85	5	962	A	C5-C4	-6.23	1.34	1.38
85	5	2660	G	C8-N7	-6.23	1.27	1.30
85	5	2733	A	N9-C4	-6.23	1.34	1.37
85	5	2831	G	C5-C6	-6.23	1.36	1.42
85	5	3126	C	N3-C4	-6.23	1.29	1.33
36	1	1148	G	N9-C8	-6.23	1.33	1.37
36	1	1901	A	C5-C4	-6.23	1.34	1.38
36	1	3051	U	N1-C2	-6.23	1.32	1.38
36	1	3129	A	C5-C4	-6.23	1.34	1.38
85	5	425	G	C5-C6	-6.23	1.36	1.42
1	2	1631	A	C5-C4	-6.23	1.34	1.38
36	1	106	A	N3-C4	-6.23	1.31	1.34
36	1	535	G	C6-N1	-6.23	1.35	1.39
85	5	1295	G	N9-C4	-6.23	1.32	1.38
85	5	1296	C	N3-C4	-6.23	1.29	1.33
68	o2	57	TYR	CD1-CE1	-6.23	1.30	1.39
36	1	227	G	C6-O6	6.23	1.29	1.24
85	5	2890	A	N9-C8	-6.23	1.32	1.37
1	2	887	G	N7-C5	6.22	1.43	1.39
36	1	2874	G	N3-C4	-6.22	1.31	1.35
80	6	1550	A	N7-C5	-6.22	1.35	1.39
85	5	98	G	C6-N1	-6.22	1.35	1.39
85	5	121	A	N3-C4	6.22	1.38	1.34
85	5	1596	C	N1-C6	-6.22	1.33	1.37
85	5	1602	A	N3-C4	-6.22	1.31	1.34
85	5	1889	G	N9-C4	-6.22	1.32	1.38
85	5	2777	G	N7-C5	-6.22	1.35	1.39
36	1	378	A	N9-C8	-6.22	1.32	1.37
36	1	892	U	N1-C2	-6.22	1.32	1.38
36	1	2222	A	C5-C6	-6.22	1.35	1.41
36	1	2968	G	C2-N3	-6.22	1.27	1.32
80	6	1732	A	N3-C4	-6.22	1.31	1.34
85	5	1126	G	C6-N1	-6.22	1.35	1.39
85	5	1320	C	N3-C4	-6.22	1.29	1.33
85	5	2618	G	N9-C8	-6.22	1.33	1.37
36	1	2111	G	C8-N7	-6.22	1.27	1.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2276	G	C6-N1	-6.22	1.35	1.39
36	1	2686	A	N9-C4	-6.22	1.34	1.37
80	6	1555	A	N3-C4	6.22	1.38	1.34
62	n6	38	GLU	CG-CD	6.22	1.61	1.51
36	1	1202	A	C5-C4	-6.22	1.34	1.38
36	1	1370	G	N9-C8	-6.22	1.33	1.37
36	1	1603	A	N3-C4	-6.22	1.31	1.34
36	1	2601	A	N9-C4	-6.22	1.34	1.37
36	1	3270	U	C2-N3	-6.22	1.33	1.37
39	L2	45	VAL	CB-CG1	-6.22	1.39	1.52
69	O3	103	TYR	CE1-CZ	-6.22	1.30	1.38
85	5	2310	U	C2-N3	-6.22	1.33	1.37
85	5	2699	G	N9-C8	-6.22	1.33	1.37
85	5	2956	A	C2'-O2'	6.22	1.49	1.41
36	1	743	C	N1-C6	-6.22	1.33	1.37
36	1	2809	C	N3-C4	-6.22	1.29	1.33
38	4	133	G	N3-C4	-6.22	1.31	1.35
40	L3	162	VAL	CB-CG1	-6.22	1.39	1.52
85	5	1447	G	N1-C2	-6.22	1.32	1.37
36	1	223	U	N1-C2	-6.21	1.32	1.38
36	1	425	G	C6-N1	-6.21	1.35	1.39
36	1	1891	A	N7-C5	-6.21	1.35	1.39
38	4	92	A	N7-C5	-6.21	1.35	1.39
36	1	107	A	C5-C4	-6.21	1.34	1.38
80	6	1746	A	C6-N1	-6.21	1.31	1.35
1	2	1768	U	N1-C6	-6.21	1.32	1.38
85	5	3155	U	N1-C6	6.21	1.43	1.38
85	5	644	G	C2-N3	-6.21	1.27	1.32
85	5	1417	G	C5-C4	-6.21	1.34	1.38
85	5	1590	G	C5-C6	-6.21	1.36	1.42
85	5	2684	C	N1-C6	-6.21	1.33	1.37
85	5	2690	G	C5-C4	-6.21	1.34	1.38
1	2	1327	A	N3-C4	6.21	1.38	1.34
36	1	610	G	N9-C4	-6.21	1.32	1.38
36	1	2412	G	N9-C8	-6.21	1.33	1.37
36	1	2522	G	C6-N1	6.21	1.43	1.39
80	6	1692	G	C6-N1	6.21	1.43	1.39
85	5	1205	A	C5-C6	-6.21	1.35	1.41
36	1	85	A	C5-C6	-6.21	1.35	1.41
36	1	98	G	C6-N1	-6.21	1.35	1.39
36	1	342	A	N9-C4	-6.21	1.34	1.37
36	1	3172	A	C5-C6	-6.21	1.35	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	114	G	N9-C4	-6.21	1.32	1.38
80	6	429	G	N3-C4	-6.21	1.31	1.35
80	6	478	A	N9-C4	-6.21	1.34	1.37
85	5	1115	G	N3-C4	-6.21	1.31	1.35
85	5	3012	A	C5-C6	-6.21	1.35	1.41
85	5	3145	C	N1-C6	-6.21	1.33	1.37
36	1	1390	A	C6-N1	-6.21	1.31	1.35
36	1	2381	G	C6-N1	-6.21	1.35	1.39
80	6	1610	G	C6-N1	-6.21	1.35	1.39
36	1	2143	A	C5-C6	-6.20	1.35	1.41
36	1	2320	A	N9-C4	-6.20	1.34	1.37
85	5	1356	U	N3-C4	6.20	1.44	1.38
85	5	2409	G	C6-N1	-6.20	1.35	1.39
85	5	3145	C	N1-C2	-6.20	1.33	1.40
80	6	1133	A	N7-C5	-6.20	1.35	1.39
85	5	924	G	N7-C5	-6.20	1.35	1.39
36	1	817	A	C5-C4	-6.20	1.34	1.38
36	1	2394	G	C6-N1	-6.20	1.35	1.39
36	1	2955	U	N3-C4	-6.20	1.32	1.38
36	1	3094	A	N7-C5	-6.20	1.35	1.39
80	6	428	A	N3-C4	-6.20	1.31	1.34
80	6	658	C	N1-C6	6.20	1.40	1.37
85	5	966	U	C4-C5	-6.20	1.38	1.43
85	5	2145	A	C5-C6	-6.20	1.35	1.41
85	5	2414	G	C2-N3	-6.20	1.27	1.32
85	5	3376	A	N9-C8	-6.20	1.32	1.37
36	1	776	U	N1-C2	6.20	1.44	1.38
80	6	173	A	N9-C4	-6.20	1.34	1.37
80	6	391	A	N9-C4	-6.20	1.34	1.37
85	5	620	U	N3-C4	6.20	1.44	1.38
85	5	2379	U	C2-O2	-6.20	1.16	1.22
85	5	2900	A	C5-C4	-6.20	1.34	1.38
37	7	7	G	N3-C4	-6.20	1.31	1.35
36	1	108	A	N1-C2	-6.20	1.28	1.34
37	3	2	G	C6-N1	-6.20	1.35	1.39
38	4	54	A	N3-C4	-6.20	1.31	1.34
85	5	30	G	N9-C4	-6.20	1.32	1.38
85	5	2295	A	N7-C5	-6.20	1.35	1.39
85	5	2320	A	C5-C6	-6.20	1.35	1.41
85	5	2425	G	C5-C6	-6.20	1.36	1.42
36	1	100	A	N9-C8	-6.20	1.32	1.37
36	1	996	A	N9-C4	-6.20	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2142	A	C5-C4	-6.20	1.34	1.38
85	5	100	A	N9-C4	-6.20	1.34	1.37
85	5	346	C	N1-C6	-6.20	1.33	1.37
85	5	1316	C	N1-C2	-6.20	1.33	1.40
85	5	2392	C	N1-C6	-6.20	1.33	1.37
85	5	2635	A	C5-C4	-6.20	1.34	1.38
85	5	2912	G	N9-C8	-6.20	1.33	1.37
36	1	2954	U	N1-C2	-6.19	1.32	1.38
85	5	958	C	C2-O2	-6.19	1.18	1.24
1	2	848	A	N3-C4	-6.19	1.31	1.34
36	1	2755	C	N1-C6	-6.19	1.33	1.37
61	N5	124	VAL	CB-CG1	-6.19	1.39	1.52
80	6	1300	A	C6-N6	-6.19	1.28	1.33
85	5	412	G	N3-C4	-6.19	1.31	1.35
85	5	1953	G	C2-N3	6.19	1.37	1.32
36	1	890	C	N3-C4	-6.19	1.29	1.33
36	1	2380	U	N1-C2	-6.19	1.32	1.38
36	1	2894	C	N3-C4	-6.19	1.29	1.33
85	5	1523	U	N1-C6	-6.19	1.32	1.38
85	5	2398	A	N3-C4	-6.19	1.31	1.34
85	5	2738	A	N9-C4	-6.19	1.34	1.37
36	1	1543	G	C6-O6	6.19	1.29	1.24
36	1	2177	G	N9-C8	-6.19	1.33	1.37
36	1	2724	U	N1-C2	-6.19	1.32	1.38
85	5	591	G	C6-N1	6.19	1.43	1.39
85	5	625	G	C6-N1	-6.19	1.35	1.39
85	5	1345	G	C5-C6	6.19	1.48	1.42
85	5	2796	G	C6-N1	-6.19	1.35	1.39
36	1	1023	C	N1-C6	6.19	1.40	1.37
36	1	1342	C	N1-C6	-6.19	1.33	1.37
37	7	87	G	N9-C8	-6.19	1.33	1.37
1	2	555	A	N3-C4	6.18	1.38	1.34
36	1	369	A	C6-N6	-6.18	1.29	1.33
36	1	620	U	P-O5'	6.18	1.66	1.59
80	6	966	A	N7-C5	6.18	1.43	1.39
85	5	2693	C	N1-C6	-6.18	1.33	1.37
85	5	2777	G	N3-C4	-6.18	1.31	1.35
36	1	1196	C	C2-O2	6.18	1.30	1.24
36	1	3140	G	N3-C4	-6.18	1.31	1.35
36	1	3286	G	N3-C4	6.18	1.39	1.35
85	5	2111	G	N7-C5	-6.18	1.35	1.39
85	5	2992	U	N1-C2	-6.18	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1155	C	N1-C2	-6.18	1.33	1.40
38	4	37	A	C6-N1	-6.18	1.31	1.35
85	5	1201	C	C2-N3	6.18	1.40	1.35
37	7	99	G	N1-C2	-6.18	1.32	1.37
1	2	400	A	C6-N1	-6.18	1.31	1.35
36	1	760	G	C5-C6	-6.18	1.36	1.42
36	1	1380	G	N9-C8	-6.18	1.33	1.37
36	1	1749	A	N9-C4	-6.18	1.34	1.37
80	6	136	C	C2-N3	6.18	1.40	1.35
80	6	210	A	N9-C4	-6.18	1.34	1.37
85	5	2833	A	N9-C8	-6.18	1.32	1.37
36	1	3108	G	C5-C4	-6.18	1.34	1.38
85	5	1409	G	N1-C2	-6.18	1.32	1.37
36	1	2095	G	N3-C4	6.18	1.39	1.35
85	5	1293	U	N3-C4	-6.18	1.32	1.38
85	5	2317	A	N1-C2	-6.18	1.28	1.34
38	8	70	G	N9-C8	-6.18	1.33	1.37
36	1	2394	G	C5-C4	-6.17	1.34	1.38
36	1	2407	C	C5-C6	-6.17	1.29	1.34
36	1	2606	G	N9-C8	-6.17	1.33	1.37
36	1	2934	A	N7-C5	-6.17	1.35	1.39
80	6	100	A	N3-C4	-6.17	1.31	1.34
80	6	1418	G	C6-N1	6.17	1.43	1.39
85	5	1080	A	N3-C4	-6.17	1.31	1.34
85	5	1900	A	C5-C4	-6.17	1.34	1.38
85	5	3381	U	C2-O2	-6.17	1.16	1.22
52	m6	80	PHE	CB-CG	-6.17	1.40	1.51
36	1	505	G	C6-N1	-6.17	1.35	1.39
36	1	1907	C	N3-C4	-6.17	1.29	1.33
85	5	1260	A	N7-C5	-6.17	1.35	1.39
85	5	2801	A	P-O5'	-6.17	1.53	1.59
36	1	970	A	C5-C6	-6.17	1.35	1.41
41	L4	194	TYR	CE1-CZ	-6.17	1.30	1.38
85	5	1355	A	P-O5'	6.17	1.66	1.59
85	5	1404	G	N9-C4	-6.17	1.33	1.38
85	5	1604	G	C5-C6	6.17	1.48	1.42
36	1	2939	G	N3-C4	-6.17	1.31	1.35
80	6	1112	G	C6-N1	-6.17	1.35	1.39
85	5	1634	G	C5-C6	-6.17	1.36	1.42
85	5	3087	A	N9-C8	-6.17	1.32	1.37
40	L3	197	GLU	CB-CG	6.17	1.63	1.52
85	5	48	A	C6-N1	-6.17	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	811	U	C2-N3	-6.17	1.33	1.37
85	5	1206	G	N1-C2	-6.17	1.32	1.37
85	5	2185	G	N7-C5	-6.17	1.35	1.39
85	5	2950	G	C2-N3	-6.17	1.27	1.32
85	5	3091	A	N9-C4	-6.17	1.34	1.37
85	5	3184	A	N7-C5	-6.17	1.35	1.39
85	5	3243	A	C5-C6	-6.17	1.35	1.41
36	1	88	A	C6-N1	-6.17	1.31	1.35
36	1	2323	G	N1-C2	-6.17	1.32	1.37
36	1	2333	C	C2-N3	-6.17	1.30	1.35
80	6	971	A	N3-C4	-6.17	1.31	1.34
80	6	985	G	N7-C5	-6.17	1.35	1.39
80	6	1161	C	N1-C6	-6.17	1.33	1.37
85	5	141	C	N3-C4	6.17	1.38	1.33
85	5	844	G	N9-C4	-6.17	1.33	1.38
85	5	2305	G	C6-N1	-6.17	1.35	1.39
52	m6	135	TYR	CE2-CZ	-6.17	1.30	1.38
1	2	780	G	N7-C5	-6.17	1.35	1.39
36	1	2614	G	N9-C8	-6.17	1.33	1.37
85	5	1845	G	N9-C8	-6.17	1.33	1.37
1	2	1113	G	N3-C4	-6.16	1.31	1.35
85	5	1896	A	C6-N1	-6.16	1.31	1.35
80	6	607	G	N3-C4	-6.16	1.31	1.35
1	2	508	U	N3-C4	6.16	1.44	1.38
36	1	1484	U	N1-C2	-6.16	1.33	1.38
36	1	1865	A	C6-N1	-6.16	1.31	1.35
36	1	2376	G	C6-O6	-6.16	1.18	1.24
36	1	3173	G	C5-C4	-6.16	1.34	1.38
36	1	3242	G	N9-C8	-6.16	1.33	1.37
38	4	83	C	N1-C2	-6.16	1.33	1.40
80	6	40	A	C6-N1	-6.16	1.31	1.35
85	5	1409	G	C5-C6	-6.16	1.36	1.42
85	5	1410	U	N1-C6	-6.16	1.32	1.38
64	n8	52	TYR	CD1-CE1	-6.16	1.30	1.39
1	2	245	U	N3-C4	-6.16	1.32	1.38
6	S4	47	PHE	CB-CG	-6.16	1.40	1.51
36	1	2134	G	N9-C8	-6.16	1.33	1.37
36	1	2201	G	N7-C5	-6.16	1.35	1.39
36	1	2983	C	C2-N3	-6.16	1.30	1.35
80	6	107	C	N1-C6	-6.16	1.33	1.37
85	5	4	U	C2-N3	6.16	1.42	1.37
85	5	3065	G	N3-C4	-6.16	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2128	C	C2-N3	-6.16	1.30	1.35
85	5	1944	U	C2-O2	-6.16	1.16	1.22
85	5	2193	U	N1-C2	-6.16	1.33	1.38
36	1	1381	A	N9-C4	-6.16	1.34	1.37
36	1	2818	U	N1-C2	-6.16	1.33	1.38
36	1	3233	C	N3-C4	6.16	1.38	1.33
80	6	1749	A	N3-C4	-6.16	1.31	1.34
85	5	424	G	C5-C4	-6.16	1.34	1.38
85	5	2259	A	N9-C4	-6.16	1.34	1.37
85	5	3273	A	C5-C6	-6.16	1.35	1.41
36	1	436	A	C5-C6	-6.15	1.35	1.41
36	1	422	A	C6-N1	-6.15	1.31	1.35
36	1	575	G	N9-C8	-6.15	1.33	1.37
36	1	636	C	N1-C6	-6.15	1.33	1.37
36	1	1622	U	N1-C2	6.15	1.44	1.38
80	6	1722	A	N9-C8	-6.15	1.32	1.37
85	5	1468	A	C5-C4	-6.15	1.34	1.38
80	6	105	A	N7-C5	-6.15	1.35	1.39
85	5	578	A	C5-C4	-6.15	1.34	1.38
85	5	2613	U	N1-C2	-6.15	1.33	1.38
38	8	109	A	N7-C5	-6.15	1.35	1.39
1	2	1135	A	N7-C5	-6.15	1.35	1.39
1	2	1711	A	N9-C4	-6.15	1.34	1.37
36	1	362	U	N3-C4	-6.15	1.32	1.38
36	1	557	A	C5-C6	6.15	1.46	1.41
36	1	2207	A	C5-C4	6.15	1.43	1.38
53	M7	83	TRP	CE3-CZ3	-6.15	1.27	1.38
80	6	684	A	N7-C5	6.15	1.43	1.39
85	5	172	G	N3-C4	6.15	1.39	1.35
85	5	386	A	N9-C8	-6.15	1.32	1.37
85	5	649	A	C6-N1	-6.15	1.31	1.35
85	5	1310	G	N3-C4	-6.15	1.31	1.35
85	5	2661	G	C6-N1	-6.15	1.35	1.39
85	5	2721	A	N3-C4	-6.15	1.31	1.34
37	7	87	G	C2-N3	-6.15	1.27	1.32
47	M0	214	PRO	N-CD	6.15	1.56	1.47
80	6	136	C	N1-C6	6.15	1.40	1.37
85	5	651	G	C5-C6	-6.15	1.36	1.42
85	5	1198	C	C2-N3	-6.15	1.30	1.35
85	5	2190	U	C2-O2	-6.15	1.16	1.22
1	2	1171	G	N7-C5	-6.14	1.35	1.39
36	1	799	G	N1-C2	-6.14	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1483	G	C6-N1	-6.14	1.35	1.39
36	1	2919	A	N9-C4	-6.14	1.34	1.37
80	6	388	G	C6-N1	-6.14	1.35	1.39
85	5	50	U	C4-C5	-6.14	1.38	1.43
85	5	984	G	N3-C4	-6.14	1.31	1.35
51	m5	73	ARG	C-N	-6.14	1.22	1.34
36	1	657	A	C5-C6	-6.14	1.35	1.41
37	3	81	U	C5-C6	-6.14	1.28	1.34
80	6	845	G	C5-C4	6.14	1.42	1.38
80	6	1296	A	C5-C4	-6.14	1.34	1.38
85	5	1753	G	C6-O6	6.14	1.29	1.24
85	5	1871	U	C4-O4	-6.14	1.18	1.23
85	5	2298	U	C2-N3	-6.14	1.33	1.37
1	2	813	U	N1-C2	6.14	1.44	1.38
1	2	1296	A	C5-C6	-6.14	1.35	1.41
36	1	569	A	N9-C4	-6.14	1.34	1.37
36	1	2957	G	N9-C8	-6.14	1.33	1.37
85	5	3010	U	N1-C6	-6.14	1.32	1.38
36	1	1530	U	N1-C2	-6.14	1.33	1.38
36	1	1734	G	C5-C6	-6.14	1.36	1.42
36	1	2119	A	C5-C4	-6.14	1.34	1.38
36	1	2975	U	C2-N3	-6.14	1.33	1.37
85	5	947	G	N7-C5	-6.14	1.35	1.39
85	5	2620	G	C6-O6	-6.14	1.18	1.24
85	5	1401	A	N7-C5	-6.14	1.35	1.39
85	5	1413	G	N9-C4	-6.14	1.33	1.38
36	1	932	U	P-O5'	-6.14	1.53	1.59
36	1	1859	A	C5-C4	-6.14	1.34	1.38
85	5	156	G	N7-C5	-6.14	1.35	1.39
85	5	1445	U	N1-C6	-6.14	1.32	1.38
37	7	13	A	C6-N1	-6.14	1.31	1.35
36	1	80	G	C6-O6	-6.13	1.18	1.24
36	1	576	C	N1-C2	-6.13	1.34	1.40
36	1	1395	G	N1-C2	-6.13	1.32	1.37
36	1	2201	G	N3-C4	-6.13	1.31	1.35
36	1	3236	U	N1-C2	6.13	1.44	1.38
52	M6	4	GLU	CB-CG	-6.13	1.40	1.52
80	6	294	C	N3-C4	-6.13	1.29	1.33
80	6	579	A	C5-C4	6.13	1.43	1.38
85	5	406	G	N3-C4	-6.13	1.31	1.35
85	5	748	U	C2-N3	6.13	1.42	1.37
85	5	1881	A	C5-C6	-6.13	1.35	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2829	U	C4-C5	-6.13	1.38	1.43
36	1	3210	A	N9-C4	-6.13	1.34	1.37
40	L3	154	TYR	CD1-CE1	-6.13	1.30	1.39
85	5	2138	A	C6-N1	-6.13	1.31	1.35
85	5	2312	A	N1-C2	-6.13	1.28	1.34
37	7	80	G	C6-O6	-6.13	1.18	1.24
48	m1	157	GLU	CB-CG	6.13	1.63	1.52
36	1	2111	G	C5-C4	-6.13	1.34	1.38
76	q0	110	CYS	CB-SG	-6.13	1.71	1.82
1	2	1112	U	C2-N3	-6.13	1.33	1.37
36	1	180	C	N1-C6	6.13	1.40	1.37
36	1	583	G	C2-N2	-6.13	1.28	1.34
36	1	931	C	O3'-P	-6.13	1.53	1.61
85	5	206	G	N9-C4	6.13	1.42	1.38
85	5	1327	C	C4-C5	-6.13	1.38	1.43
85	5	3310	A	N3-C4	-6.13	1.31	1.34
85	5	3315	G	C6-N1	-6.13	1.35	1.39
38	8	83	C	C2-N3	6.13	1.40	1.35
36	1	1467	A	C6-N6	-6.12	1.29	1.33
36	1	1928	G	N1-C2	-6.12	1.32	1.37
36	1	2885	C	C2-N3	-6.12	1.30	1.35
85	5	2956	A	N9-C4	-6.12	1.34	1.37
85	5	2989	U	N1-C6	-6.12	1.32	1.38
1	2	1793	G	N9-C4	6.12	1.42	1.38
80	6	269	G	N9-C4	-6.12	1.33	1.38
85	5	1165	A	N3-C4	-6.12	1.31	1.34
85	5	1297	C	N1-C6	-6.12	1.33	1.37
85	5	1321	G	C2-N3	-6.12	1.27	1.32
85	5	1477	A	C6-N6	-6.12	1.29	1.33
85	5	1786	G	C6-N1	-6.12	1.35	1.39
38	8	89	A	N7-C5	6.12	1.43	1.39
36	1	2605	G	C6-N1	-6.12	1.35	1.39
85	5	2828	G	C5-C4	-6.12	1.34	1.38
85	5	2907	G	N3-C4	-6.12	1.31	1.35
36	1	153	U	N1-C2	-6.12	1.33	1.38
85	5	1132	C	C2-N3	-6.12	1.30	1.35
37	7	20	A	C6-N1	-6.12	1.31	1.35
91	p	75	C	N1-C6	-6.12	1.33	1.37
1	2	1470	A	N9-C4	-6.12	1.34	1.37
36	1	384	A	C5-C6	-6.12	1.35	1.41
36	1	2184	U	N1-C6	-6.12	1.32	1.38
36	1	2407	C	N1-C6	-6.12	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3327	G	C6-O6	6.12	1.29	1.24
80	6	408	C	N3-C4	-6.12	1.29	1.33
85	5	1427	U	N1-C2	-6.12	1.33	1.38
85	5	2340	U	N3-C4	-6.12	1.32	1.38
38	8	133	G	N3-C4	-6.12	1.31	1.35
40	l3	205	VAL	CB-CG1	-6.12	1.40	1.52
85	5	914	A	N3-C4	-6.12	1.31	1.34
91	P	75	C	N1-C6	-6.12	1.33	1.37
36	1	37	U	N1-C2	-6.12	1.33	1.38
36	1	189	G	C2-N3	-6.12	1.27	1.32
36	1	279	U	N3-C4	-6.12	1.32	1.38
36	1	522	A	N3-C4	-6.12	1.31	1.34
36	1	2405	C	N1-C6	-6.12	1.33	1.37
85	5	691	A	N3-C4	-6.12	1.31	1.34
85	5	955	U	P-OP1	-6.12	1.38	1.49
85	5	3303	G	C5-C6	-6.12	1.36	1.42
37	7	32	U	N1-C2	-6.12	1.33	1.38
36	1	637	C	C4-C5	-6.11	1.38	1.43
36	1	2981	U	N1-C2	-6.11	1.33	1.38
85	5	2399	A	C6-N1	-6.11	1.31	1.35
85	5	2914	G	N1-C2	-6.11	1.32	1.37
38	8	10	A	N7-C5	-6.11	1.35	1.39
1	2	445	A	N3-C4	6.11	1.38	1.34
36	1	2643	A	N9-C4	-6.11	1.34	1.37
36	1	2670	G	N7-C5	-6.11	1.35	1.39
36	1	3359	A	N3-C4	6.11	1.38	1.34
85	5	1002	A	N7-C5	-6.11	1.35	1.39
85	5	1096	U	C4-O4	6.11	1.28	1.23
85	5	2351	U	C4-O4	-6.11	1.18	1.23
1	2	315	A	C5-C4	-6.11	1.34	1.38
36	1	2152	A	N9-C4	-6.11	1.34	1.37
36	1	2293	C	C4-C5	-6.11	1.38	1.43
36	1	2878	G	C2-N3	-6.11	1.27	1.32
85	5	787	G	N7-C5	-6.11	1.35	1.39
85	5	1143	A	N7-C5	-6.11	1.35	1.39
85	5	2911	A	N7-C5	-6.11	1.35	1.39
36	1	908	G	N7-C5	-6.11	1.35	1.39
36	1	950	G	C8-N7	-6.11	1.27	1.30
80	6	943	C	N1-C6	-6.11	1.33	1.37
85	5	1205	A	C6-N6	-6.11	1.29	1.33
85	5	2187	G	C6-N1	-6.11	1.35	1.39
85	5	2824	G	N3-C4	-6.11	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2942	C	C4-C5	-6.11	1.38	1.43
36	1	1404	G	N9-C4	-6.11	1.33	1.38
36	1	2299	A	N3-C4	-6.11	1.31	1.34
36	1	3120	C	N1-C6	-6.11	1.33	1.37
80	6	263	C	N1-C2	-6.11	1.34	1.40
80	6	436	A	C5-C6	-6.11	1.35	1.41
85	5	688	G	N9-C8	-6.11	1.33	1.37
85	5	2951	G	C2-N3	-6.11	1.27	1.32
36	1	1536	G	C2-N3	-6.10	1.27	1.32
36	1	2372	A	N7-C5	-6.10	1.35	1.39
37	7	42	A	N3-C4	-6.10	1.31	1.34
50	m4	63	VAL	CB-CG1	-6.10	1.40	1.52
36	1	662	U	C2-O2	-6.10	1.16	1.22
36	1	838	G	N3-C4	-6.10	1.31	1.35
36	1	2332	A	N7-C5	-6.10	1.35	1.39
80	6	1692	G	N3-C4	6.10	1.39	1.35
85	5	386	A	N9-C4	-6.10	1.34	1.37
36	1	404	G	C5-C4	-6.10	1.34	1.38
36	1	2793	G	N3-C4	-6.10	1.31	1.35
80	6	241	U	N3-C4	6.10	1.44	1.38
85	5	761	A	N3-C4	6.10	1.38	1.34
85	5	2395	G	C6-N1	-6.10	1.35	1.39
85	5	3039	C	C2-O2	-6.10	1.19	1.24
36	1	271	C	N1-C2	-6.10	1.34	1.40
36	1	2379	U	C2-O2	-6.10	1.16	1.22
36	1	2560	C	N1-C2	6.10	1.46	1.40
36	1	2778	G	C5-C6	-6.10	1.36	1.42
85	5	518	G	C6-O6	6.10	1.29	1.24
85	5	881	C	N1-C6	-6.10	1.33	1.37
85	5	1350	A	P-OP2	6.10	1.59	1.49
85	5	2415	C	C2-N3	-6.10	1.30	1.35
85	5	2794	G	C5-C4	-6.10	1.34	1.38
36	1	2750	U	N1-C2	-6.10	1.33	1.38
68	O2	17	PHE	CE2-CZ	-6.10	1.25	1.37
85	5	119	U	N1-C2	6.10	1.44	1.38
85	5	201	A	C5-C6	-6.10	1.35	1.41
85	5	805	G	N1-C2	-6.10	1.32	1.37
85	5	1524	A	C5-C6	-6.10	1.35	1.41
37	7	55	A	N9-C4	-6.10	1.34	1.37
36	1	2368	A	N9-C4	-6.10	1.34	1.37
36	1	3008	A	N9-C4	-6.10	1.34	1.37
80	6	1436	A	N9-C4	6.10	1.41	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2367	A	N7-C5	-6.10	1.35	1.39
36	1	2809	C	C2-N3	-6.09	1.30	1.35
80	6	1678	A	C5-C6	-6.09	1.35	1.41
85	5	2531	C	N1-C2	6.09	1.46	1.40
85	5	2708	C	N1-C6	-6.09	1.33	1.37
37	7	71	G	N9-C8	-6.09	1.33	1.37
38	8	158	U	C2-N3	6.09	1.42	1.37
36	1	418	A	C6-N1	-6.09	1.31	1.35
85	5	1148	G	N9-C8	-6.09	1.33	1.37
85	5	1589	A	N9-C4	6.09	1.41	1.37
37	7	36	C	N1-C6	-6.09	1.33	1.37
36	1	2884	C	N1-C2	-6.09	1.34	1.40
36	1	3091	A	C6-N1	-6.09	1.31	1.35
80	6	986	G	N7-C5	-6.09	1.35	1.39
80	6	1754	A	N3-C4	-6.09	1.31	1.34
36	1	226	C	N1-C6	-6.09	1.33	1.37
36	1	2160	G	C5-C6	6.09	1.48	1.42
85	5	911	C	C4-C5	-6.09	1.38	1.43
85	5	1350	A	C6-N6	6.09	1.38	1.33
85	5	2113	A	N9-C4	-6.09	1.34	1.37
85	5	2424	A	C5-C6	-6.09	1.35	1.41
36	1	1167	U	C2-O2	-6.09	1.16	1.22
36	1	1424	C	N3-C4	-6.09	1.29	1.33
36	1	2689	A	N9-C8	-6.09	1.32	1.37
80	6	971	A	C6-N1	-6.09	1.31	1.35
36	1	1096	U	C4-O4	6.09	1.28	1.23
36	1	2956	A	C5-C6	-6.09	1.35	1.41
38	4	94	C	N3-C4	-6.09	1.29	1.33
54	M8	9	GLN	CG-CD	-6.09	1.37	1.51
80	6	449	C	N3-C4	-6.09	1.29	1.33
85	5	2315	G	N1-C2	-6.09	1.32	1.37
85	5	2798	C	C2-N3	-6.09	1.30	1.35
36	1	3106	A	N7-C5	-6.08	1.35	1.39
80	6	1777	G	C2-N3	-6.08	1.27	1.32
85	5	2605	G	N7-C5	-6.08	1.35	1.39
36	1	80	G	N1-C2	-6.08	1.32	1.37
36	1	744	A	N9-C4	-6.08	1.34	1.37
36	1	2370	G	C6-N1	-6.08	1.35	1.39
80	6	1050	G	C6-O6	6.08	1.29	1.24
85	5	2170	U	N1-C2	-6.08	1.33	1.38
85	5	2297	U	N1-C2	-6.08	1.33	1.38
1	2	586	G	N7-C5	6.08	1.42	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1209	G	C5-C4	-6.08	1.34	1.38
85	5	1207	G	N1-C2	-6.08	1.32	1.37
85	5	3209	A	C6-N6	6.08	1.38	1.33
36	1	156	G	N7-C5	-6.08	1.35	1.39
36	1	887	G	C5-C4	-6.08	1.34	1.38
80	6	371	G	N7-C5	-6.08	1.35	1.39
85	5	1309	U	C4-C5	-6.08	1.38	1.43
85	5	2903	A	C6-N1	-6.08	1.31	1.35
36	1	325	A	C5-C4	-6.08	1.34	1.38
36	1	973	A	C6-N1	-6.08	1.31	1.35
36	1	1117	G	N3-C4	-6.08	1.31	1.35
36	1	1352	A	N1-C2	6.08	1.39	1.34
36	1	2111	G	N7-C5	-6.08	1.35	1.39
36	1	2996	U	N1-C2	6.08	1.44	1.38
80	6	1004	U	N1-C6	-6.08	1.32	1.38
80	6	1739	C	N1-C6	-6.08	1.33	1.37
85	5	306	A	N9-C8	-6.08	1.32	1.37
85	5	996	A	C5-C4	-6.08	1.34	1.38
85	5	2535	A	N7-C5	6.08	1.42	1.39
85	5	2613	U	C2-O2	-6.08	1.16	1.22
85	5	3319	U	C4-C5	6.08	1.49	1.43
36	1	402	A	N7-C5	-6.08	1.35	1.39
36	1	1852	G	N9-C4	-6.08	1.33	1.38
36	1	2112	U	C2-O2	6.08	1.27	1.22
1	2	217	A	C5-C4	6.08	1.43	1.38
36	1	1089	G	N7-C5	6.08	1.42	1.39
36	1	3347	A	N3-C4	6.08	1.38	1.34
37	3	66	A	C5-C4	-6.08	1.34	1.38
38	4	36	G	C2-N3	-6.08	1.27	1.32
38	4	61	A	N7-C5	-6.08	1.35	1.39
85	5	2899	C	N1-C6	-6.08	1.33	1.37
36	1	699	A	C5-C4	-6.07	1.34	1.38
36	1	1405	U	N1-C2	-6.07	1.33	1.38
85	5	234	G	N1-C2	6.07	1.42	1.37
85	5	1121	U	N1-C6	-6.07	1.32	1.38
85	5	1178	G	N7-C5	-6.07	1.35	1.39
85	5	2276	G	N1-C2	-6.07	1.32	1.37
85	5	2506	U	N3-C4	6.07	1.44	1.38
41	l4	113	VAL	CB-CG2	-6.07	1.40	1.52
55	m9	14	VAL	CB-CG1	-6.07	1.40	1.52
85	5	1387	G	N9-C4	-6.07	1.33	1.38
1	2	1064	A	C5-C6	6.07	1.46	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	836	A	C5-C6	-6.07	1.35	1.41
36	1	844	G	N9-C4	-6.07	1.33	1.38
36	1	1034	U	C2-N3	6.07	1.42	1.37
36	1	1853	U	C2-O2	-6.07	1.16	1.22
80	6	1672	G	N9-C8	6.07	1.42	1.37
85	5	938	C	N3-C4	-6.07	1.29	1.33
85	5	1369	A	N3-C4	-6.07	1.31	1.34
85	5	1462	A	N9-C4	-6.07	1.34	1.37
53	m7	154	GLU	CG-CD	6.07	1.61	1.51
1	2	1654	A	N3-C4	-6.07	1.31	1.34
36	1	1492	G	N7-C5	-6.07	1.35	1.39
85	5	1464	G	N9-C8	-6.07	1.33	1.37
85	5	2262	A	N9-C4	-6.07	1.34	1.37
85	5	3032	A	C5-C6	-6.07	1.35	1.41
36	1	1145	G	C2-N2	-6.07	1.28	1.34
36	1	1859	A	C6-N1	-6.07	1.31	1.35
36	1	2863	G	C5-C6	-6.07	1.36	1.42
80	6	757	A	N7-C5	-6.07	1.35	1.39
85	5	889	U	C2-N3	-6.07	1.33	1.37
85	5	1137	C	C2-N3	-6.07	1.30	1.35
85	5	2703	A	N9-C4	-6.07	1.34	1.37
80	6	239	C	N1-C6	6.07	1.40	1.37
80	6	1025	A	N9-C4	-6.07	1.34	1.37
85	5	2795	U	N1-C2	-6.07	1.33	1.38
54	m8	95	GLU	CG-CD	6.07	1.61	1.51
36	1	1931	U	N1-C6	-6.06	1.32	1.38
80	6	391	A	C5-C4	-6.06	1.34	1.38
1	2	1363	U	C2-N3	-6.06	1.33	1.37
36	1	907	G	C2'-C1'	-6.06	1.46	1.53
36	1	2284	C	N3-C4	-6.06	1.29	1.33
36	1	2375	G	N1-C2	-6.06	1.32	1.37
80	6	1124	A	N9-C4	-6.06	1.34	1.37
85	5	1477	A	C5-C4	-6.06	1.34	1.38
85	5	2754	G	N9-C8	-6.06	1.33	1.37
36	1	357	A	C5-C6	-6.06	1.35	1.41
36	1	2134	G	N1-C2	-6.06	1.32	1.37
36	1	2309	A	N7-C5	-6.06	1.35	1.39
85	5	1324	U	C2-N3	-6.06	1.33	1.37
36	1	898	U	C4-C5	-6.06	1.38	1.43
36	1	1412	G	N9-C8	-6.06	1.33	1.37
36	1	2156	C	N1-C6	-6.06	1.33	1.37
36	1	2302	G	N1-C2	-6.06	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2767	U	N3-C4	-6.06	1.32	1.38
80	6	89	G	C6-N1	6.06	1.43	1.39
80	6	1750	A	N9-C8	-6.06	1.32	1.37
85	5	1569	U	N1-C2	6.06	1.44	1.38
85	5	2152	A	N3-C4	-6.06	1.31	1.34
85	5	2775	U	N1-C6	-6.06	1.32	1.38
85	5	3161	C	N1-C6	6.06	1.40	1.37
36	1	356	C	N1-C2	-6.06	1.34	1.40
85	5	856	G	N1-C2	-6.06	1.32	1.37
85	5	958	C	C2-N3	-6.06	1.30	1.35
85	5	2370	G	N3-C4	-6.06	1.31	1.35
85	5	2607	G	N9-C4	-6.06	1.33	1.38
1	2	609	U	C2-N3	-6.06	1.33	1.37
36	1	2852	C	N3-C4	-6.06	1.29	1.33
80	6	390	G	C5-C4	-6.06	1.34	1.38
85	5	343	U	N3-C4	-6.06	1.32	1.38
85	5	1891	A	N7-C5	-6.06	1.35	1.39
85	5	2147	A	C6-N6	-6.06	1.29	1.33
85	5	3371	G	N9-C8	-6.06	1.33	1.37
1	2	165	G	N7-C5	-6.05	1.35	1.39
36	1	691	A	N9-C8	-6.05	1.32	1.37
36	1	930	U	C4'-C3'	-6.05	1.46	1.53
36	1	1071	U	C2-N3	6.05	1.42	1.37
36	1	2329	C	N3-C4	-6.05	1.29	1.33
36	1	2691	A	C6-N1	-6.05	1.31	1.35
36	1	2879	C	N1-C6	-6.05	1.33	1.37
36	1	2933	A	C5-C4	-6.05	1.34	1.38
85	5	2364	G	N9-C4	-6.05	1.33	1.38
85	5	2634	U	C4'-C3'	-6.05	1.46	1.53
85	5	2847	A	N3-C4	-6.05	1.31	1.34
37	7	77	G	N3-C4	6.05	1.39	1.35
36	1	2991	A	C5-C6	-6.05	1.35	1.41
80	6	616	G	C5-C4	-6.05	1.34	1.38
85	5	833	G	C8-N7	-6.05	1.27	1.30
85	5	1922	A	N7-C5	-6.05	1.35	1.39
1	2	921	G	C5-C6	-6.05	1.36	1.42
36	1	780	A	N9-C8	-6.05	1.32	1.37
36	1	1098	A	N7-C5	-6.05	1.35	1.39
80	6	651	G	C6-N1	6.05	1.43	1.39
85	5	1202	A	N3-C4	-6.05	1.31	1.34
85	5	1315	U	N3-C4	-6.05	1.33	1.38
85	5	1434	G	C2-N3	-6.05	1.27	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	25	U	N1-C6	-6.05	1.32	1.38
36	1	947	G	N9-C4	-6.05	1.33	1.38
80	6	87	C	N3-C4	-6.05	1.29	1.33
85	5	1173	U	C4-C5	-6.05	1.38	1.43
85	5	1654	A	N9-C4	-6.05	1.34	1.37
85	5	1891	A	C6-N1	-6.05	1.31	1.35
85	5	2959	C	C2-N3	-6.05	1.30	1.35
36	1	1168	U	C2-N3	-6.05	1.33	1.37
80	6	1762	A	N9-C4	-6.05	1.34	1.37
1	2	764	U	N1-C2	6.05	1.44	1.38
36	1	49	A	N9-C8	-6.05	1.32	1.37
36	1	272	G	C6-N1	-6.05	1.35	1.39
36	1	2681	U	C2-N3	-6.05	1.33	1.37
37	3	35	C	N1-C2	-6.05	1.34	1.40
85	5	354	U	C4-C5	-6.05	1.38	1.43
85	5	1664	G	N3-C4	-6.05	1.31	1.35
85	5	2116	G	C5-C6	-6.05	1.36	1.42
85	5	2633	U	N1-C6	-6.05	1.32	1.38
85	5	2682	C	N3-C4	-6.05	1.29	1.33
1	2	1778	U	N3-C4	6.04	1.43	1.38
36	1	516	A	C5-C4	-6.04	1.34	1.38
36	1	1305	U	N1-C2	-6.04	1.33	1.38
36	1	1762	C	C2-O2	6.04	1.29	1.24
36	1	2784	G	N9-C8	-6.04	1.33	1.37
36	1	2853	A	C5-C6	-6.04	1.35	1.41
36	1	2976	A	N9-C4	-6.04	1.34	1.37
85	5	1851	G	C5-C4	-6.04	1.34	1.38
36	1	119	U	C2-N3	-6.04	1.33	1.37
36	1	1854	C	N3-C4	-6.04	1.29	1.33
36	1	2910	A	C6-N1	-6.04	1.31	1.35
85	5	2985	C	C4-C5	-6.04	1.38	1.43
38	8	21	C	C2-N3	-6.04	1.30	1.35
38	8	133	G	C6-N1	-6.04	1.35	1.39
62	n6	6	LEU	CA-C	-6.04	1.37	1.52
85	5	1142	G	N7-C5	-6.04	1.35	1.39
85	5	3011	A	C5-C4	-6.04	1.34	1.38
85	5	3105	U	N1-C2	-6.04	1.33	1.38
85	5	3141	A	N9-C4	-6.04	1.34	1.37
1	2	895	U	C2-N3	6.04	1.42	1.37
36	1	806	A	N9-C8	-6.04	1.32	1.37
36	1	1121	U	N1-C2	-6.04	1.33	1.38
36	1	1515	A	N7-C5	-6.04	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1681	U	N3-C4	-6.04	1.33	1.38
36	1	1829	G	N3-C4	-6.04	1.31	1.35
80	6	342	C	N1-C6	-6.04	1.33	1.37
80	6	1550	A	N9-C4	-6.04	1.34	1.37
85	5	872	U	N1-C6	-6.04	1.32	1.38
85	5	972	A	N3-C4	-6.04	1.31	1.34
85	5	997	A	N7-C5	-6.04	1.35	1.39
85	5	1321	G	N9-C4	-6.04	1.33	1.38
85	5	2824	G	N9-C8	-6.04	1.33	1.37
1	2	1616	A	C6-N1	-6.04	1.31	1.35
36	1	1162	U	N1-C2	-6.04	1.33	1.38
85	5	12	A	N3-C4	-6.04	1.31	1.34
85	5	2531	C	N1-C6	6.04	1.40	1.37
37	7	110	G	N3-C4	-6.04	1.31	1.35
36	1	252	U	C2-O2	6.04	1.27	1.22
36	1	301	G	N9-C8	-6.04	1.33	1.37
36	1	794	U	N1-C6	-6.04	1.32	1.38
36	1	1111	U	N3-C4	-6.04	1.33	1.38
36	1	2738	A	N3-C4	-6.04	1.31	1.34
36	1	3063	C	N1-C6	-6.04	1.33	1.37
85	5	2333	C	N1-C6	-6.04	1.33	1.37
56	n0	140	VAL	CB-CG1	-6.04	1.40	1.52
36	1	426	G	C6-N1	-6.03	1.35	1.39
36	1	636	C	N3-C4	-6.03	1.29	1.33
36	1	1028	U	N1-C6	6.03	1.43	1.38
36	1	3188	G	C2-N3	-6.03	1.27	1.32
80	6	48	G	C5-C4	-6.03	1.34	1.38
85	5	99	A	C5-C4	-6.03	1.34	1.38
85	5	924	G	N1-C2	-6.03	1.32	1.37
85	5	2987	A	C5-C4	-6.03	1.34	1.38
85	5	3309	G	C5-C6	-6.03	1.36	1.42
37	7	81	U	N1-C6	-6.03	1.32	1.38
37	7	121	U	N1-C2	6.03	1.44	1.38
1	2	1115	A	C5-C4	-6.03	1.34	1.38
36	1	53	G	C6-N1	-6.03	1.35	1.39
85	5	534	U	N1-C2	6.03	1.44	1.38
85	5	1515	A	N7-C5	-6.03	1.35	1.39
36	1	1145	G	C5-C4	-6.03	1.34	1.38
36	1	1402	C	N1-C2	-6.03	1.34	1.40
36	1	3172	A	N7-C5	-6.03	1.35	1.39
41	L4	197	ARG	CG-CD	-6.03	1.36	1.51
85	5	2113	A	N3-C4	-6.03	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2377	G	C5-C4	-6.03	1.34	1.38
85	5	2887	A	N3-C4	-6.03	1.31	1.34
85	5	2994	A	N7-C5	-6.03	1.35	1.39
44	17	220	PHE	CB-CG	-6.03	1.41	1.51
36	1	3046	A	C5-C6	-6.03	1.35	1.41
80	6	754	A	C5-C4	6.03	1.43	1.38
85	5	2240	G	C8-N7	-6.03	1.27	1.30
85	5	2732	G	N9-C4	-6.03	1.33	1.38
36	1	362	U	N1-C2	-6.03	1.33	1.38
36	1	1382	G	C6-N1	-6.03	1.35	1.39
36	1	1608	C	N1-C6	-6.03	1.33	1.37
36	1	2962	U	C2-N3	-6.03	1.33	1.37
80	6	606	A	N9-C4	6.03	1.41	1.37
85	5	2651	G	N9-C8	-6.03	1.33	1.37
36	1	2615	G	N1-C2	-6.03	1.32	1.37
85	5	609	G	N9-C8	-6.03	1.33	1.37
85	5	840	C	N1-C6	-6.03	1.33	1.37
85	5	1612	A	N9-C4	-6.03	1.34	1.37
36	1	1143	A	N7-C5	-6.02	1.35	1.39
36	1	267	G	N9-C4	-6.02	1.33	1.38
36	1	555	U	C2-N3	-6.02	1.33	1.37
80	6	122	U	C2-O2	6.02	1.27	1.22
85	5	1560	G	C6-N1	6.02	1.43	1.39
85	5	1879	A	N7-C5	-6.02	1.35	1.39
85	5	1922	A	N3-C4	-6.02	1.31	1.34
37	7	61	G	N9-C4	-6.02	1.33	1.38
40	13	324	VAL	CB-CG2	-6.02	1.40	1.52
36	1	915	A	C5-C6	-6.02	1.35	1.41
36	1	1655	G	C6-O6	-6.02	1.18	1.24
36	1	1931	U	N1-C2	-6.02	1.33	1.38
36	1	3132	C	C2-N3	-6.02	1.30	1.35
85	5	589	A	C5-C6	-6.02	1.35	1.41
85	5	2984	C	C2-N3	-6.02	1.30	1.35
37	7	43	U	N1-C6	-6.02	1.32	1.38
36	1	2209	U	N1-C2	6.02	1.44	1.38
38	4	90	U	N1-C6	-6.02	1.32	1.38
85	5	330	G	N9-C8	6.02	1.42	1.37
85	5	914	A	N9-C8	-6.02	1.32	1.37
85	5	1329	U	N1-C6	-6.02	1.32	1.38
85	5	1413	G	C2-N2	-6.02	1.28	1.34
85	5	2506	U	C2-N3	6.02	1.42	1.37
85	5	2610	G	N3-C4	-6.02	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2642	A	N3-C4	-6.02	1.31	1.34
85	5	2829	U	N1-C6	-6.02	1.32	1.38
36	1	3122	A	C6-N1	-6.02	1.31	1.35
37	3	8	G	N9-C4	-6.02	1.33	1.38
85	5	421	G	C5-C4	-6.02	1.34	1.38
36	1	328	U	N3-C4	-6.01	1.33	1.38
36	1	1112	A	N9-C8	-6.01	1.32	1.37
36	1	2313	A	C5-C6	-6.01	1.35	1.41
80	6	1071	U	N1-C2	-6.01	1.33	1.38
85	5	652	G	P-OP2	-6.01	1.38	1.49
85	5	2138	A	C5-C6	-6.01	1.35	1.41
42	l5	37	VAL	CB-CG1	-6.01	1.40	1.52
36	1	2143	A	C6-N6	-6.01	1.29	1.33
36	1	3279	A	N9-C8	6.01	1.42	1.37
38	4	31	G	P-OP2	6.01	1.59	1.49
80	6	1654	G	N3-C4	-6.01	1.31	1.35
85	5	2843	U	N1-C2	6.01	1.44	1.38
85	5	3183	A	C6-N6	-6.01	1.29	1.33
42	l5	117	GLU	CB-CG	6.01	1.63	1.52
1	2	73	U	C2-N3	-6.01	1.33	1.37
1	2	279	G	N9-C4	6.01	1.42	1.38
36	1	638	C	O3'-P	-6.01	1.53	1.61
36	1	2096	A	N9-C8	6.01	1.42	1.37
36	1	2182	A	N3-C4	-6.01	1.31	1.34
36	1	2832	C	N1-C6	-6.01	1.33	1.37
36	1	3045	G	N9-C8	-6.01	1.33	1.37
85	5	2599	U	N1-C6	-6.01	1.32	1.38
85	5	2891	U	N3-C4	-6.01	1.33	1.38
36	1	505	G	C2-N3	-6.01	1.27	1.32
36	1	1153	A	C8-N7	-6.01	1.27	1.31
36	1	2177	G	C5-C4	-6.01	1.34	1.38
36	1	2852	C	C2-N3	-6.01	1.30	1.35
85	5	543	C	N1-C6	6.01	1.40	1.37
85	5	924	G	C5-C4	-6.01	1.34	1.38
85	5	2653	C	C2-O2	-6.01	1.19	1.24
85	5	2914	G	C6-O6	-6.01	1.18	1.24
85	5	2921	U	N1-C2	-6.01	1.33	1.38
85	5	3318	G	N9-C4	-6.01	1.33	1.38
36	1	597	G	C6-N1	-6.01	1.35	1.39
36	1	1145	G	N1-C2	-6.01	1.32	1.37
80	6	915	A	N9-C4	6.01	1.41	1.37
80	6	1680	G	C5-C4	-6.01	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3271	G	C5-C4	-6.01	1.34	1.38
13	C1	15	LYS	C-N	-6.01	1.20	1.34
36	1	39	A	C6-N6	-6.01	1.29	1.33
36	1	989	A	N9-C4	-6.01	1.34	1.37
36	1	1130	A	N3-C4	-6.01	1.31	1.34
44	L7	234	GLU	CG-CD	6.01	1.60	1.51
85	5	356	C	C4-N4	-6.01	1.28	1.33
85	5	1114	U	C2-N3	-6.01	1.33	1.37
85	5	2163	C	N1-C6	-6.01	1.33	1.37
85	5	2590	A	C5-C6	-6.01	1.35	1.41
85	5	2627	C	N1-C2	-6.01	1.34	1.40
36	1	1159	A	C6-N1	-6.00	1.31	1.35
36	1	1099	A	N3-C4	-6.00	1.31	1.34
36	1	1370	G	C8-N7	-6.00	1.27	1.30
36	1	2094	C	N1-C6	6.00	1.40	1.37
36	1	2378	C	C5-C6	-6.00	1.29	1.34
36	1	2828	G	N1-C2	-6.00	1.32	1.37
36	1	3213	A	C5-C6	-6.00	1.35	1.41
80	6	393	C	N3-C4	-6.00	1.29	1.33
85	5	55	G	N3-C4	-6.00	1.31	1.35
85	5	55	G	N9-C4	-6.00	1.33	1.38
1	2	223	U	C2-N3	6.00	1.42	1.37
36	1	2763	U	N1-C6	-6.00	1.32	1.38
85	5	837	A	N7-C5	-6.00	1.35	1.39
85	5	854	G	C5-C4	-6.00	1.34	1.38
85	5	879	U	C2-N3	-6.00	1.33	1.37
85	5	1155	C	N3-C4	-6.00	1.29	1.33
85	5	1468	A	N7-C5	-6.00	1.35	1.39
85	5	2276	G	C5-C6	-6.00	1.36	1.42
85	5	2335	G	C2-N2	-6.00	1.28	1.34
85	5	3149	G	N9-C4	-6.00	1.33	1.38
50	m4	63	VAL	CB-CG2	-6.00	1.40	1.52
38	4	50	C	N1-C6	-6.00	1.33	1.37
85	5	1883	A	N9-C4	-6.00	1.34	1.37
1	2	325	G	N7-C5	-6.00	1.35	1.39
80	6	678	A	C6-N1	6.00	1.39	1.35
85	5	1862	U	N3-C4	6.00	1.43	1.38
85	5	2988	C	N1-C2	-6.00	1.34	1.40
85	5	2991	A	N3-C4	-6.00	1.31	1.34
36	1	3351	U	C2-N3	6.00	1.42	1.37
1	2	625	C	N3-C4	-6.00	1.29	1.33
36	1	997	A	N3-C4	-6.00	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3114	A	N1-C2	-6.00	1.28	1.34
85	5	1893	A	N9-C4	-6.00	1.34	1.37
85	5	2841	G	N9-C8	-6.00	1.33	1.37
36	1	71	A	C5-C4	-5.99	1.34	1.38
36	1	1486	G	N9-C4	-5.99	1.33	1.38
36	1	1613	A	N9-C8	-5.99	1.32	1.37
36	1	2145	A	C5-C6	-5.99	1.35	1.41
36	1	2270	A	C5-C4	-5.99	1.34	1.38
36	1	2957	G	P-O5'	-5.99	1.53	1.59
80	6	386	G	N1-C2	-5.99	1.32	1.37
80	6	1786	G	N9-C8	-5.99	1.33	1.37
85	5	1913	A	C5-C6	-5.99	1.35	1.41
85	5	2130	G	N9-C4	-5.99	1.33	1.38
85	5	2703	A	C5-C4	-5.99	1.34	1.38
85	5	2829	U	N1-C2	-5.99	1.33	1.38
36	1	506	U	N1-C2	-5.99	1.33	1.38
36	1	1209	G	N9-C8	-5.99	1.33	1.37
85	5	1118	C	N1-C6	-5.99	1.33	1.37
1	2	1015	G	N7-C5	-5.99	1.35	1.39
36	1	838	G	N9-C8	-5.99	1.33	1.37
36	1	1807	G	N7-C5	-5.99	1.35	1.39
80	6	202	A	N9-C4	5.99	1.41	1.37
85	5	402	A	C6-N1	-5.99	1.31	1.35
85	5	649	A	N3-C4	-5.99	1.31	1.34
85	5	1096	U	N3-C4	5.99	1.43	1.38
38	8	80	A	C3'-O3'	5.99	1.50	1.42
57	n1	34	TYR	CD1-CE1	-5.99	1.30	1.39
36	1	1134	G	C6-N1	-5.99	1.35	1.39
36	1	2425	G	N1-C2	-5.99	1.32	1.37
36	1	2525	G	N9-C8	-5.99	1.33	1.37
85	5	910	G	N9-C4	-5.99	1.33	1.38
85	5	2982	A	N9-C4	-5.99	1.34	1.37
85	5	1843	C	N1-C6	-5.99	1.33	1.37
85	5	2187	G	C5-C6	-5.99	1.36	1.42
37	7	99	G	N9-C8	-5.99	1.33	1.37
56	n0	91	TYR	CE1-CZ	-5.99	1.30	1.38
1	2	1587	U	C2-N3	5.99	1.42	1.37
36	1	921	A	C6-N6	-5.99	1.29	1.33
36	1	2180	G	N3-C4	-5.99	1.31	1.35
36	1	2298	U	N3-C4	-5.99	1.33	1.38
36	1	2957	G	C8-N7	-5.99	1.27	1.30
80	6	50	C	N1-C6	-5.99	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	541	A	N3-C4	5.99	1.38	1.34
85	5	2948	C	C4-C5	-5.99	1.38	1.43
36	1	358	G	C5-C4	-5.98	1.34	1.38
36	1	743	C	N3-C4	-5.98	1.29	1.33
36	1	962	A	N9-C8	-5.98	1.32	1.37
85	5	268	A	N3-C4	-5.98	1.31	1.34
1	2	1449	G	N9-C4	5.98	1.42	1.38
36	1	17	G	C5-C6	-5.98	1.36	1.42
36	1	953	G	C6-N1	-5.98	1.35	1.39
36	1	2609	A	N9-C4	-5.98	1.34	1.37
36	1	2878	G	N9-C4	-5.98	1.33	1.38
36	1	3203	U	N1-C2	-5.98	1.33	1.38
36	1	3307	A	C5-C6	-5.98	1.35	1.41
36	1	3362	A	N9-C8	5.98	1.42	1.37
85	5	368	G	N7-C5	-5.98	1.35	1.39
85	5	2135	U	N1-C2	-5.98	1.33	1.38
85	5	2705	A	N7-C5	-5.98	1.35	1.39
36	1	2630	C	O3'-P	-5.98	1.53	1.61
80	6	355	G	C5-C4	-5.98	1.34	1.38
80	6	1781	A	C5-C6	-5.98	1.35	1.41
85	5	424	G	N9-C8	-5.98	1.33	1.37
85	5	1197	A	N7-C5	-5.98	1.35	1.39
36	1	2781	U	N1-C2	-5.98	1.33	1.38
85	5	35	A	C5-C4	-5.98	1.34	1.38
85	5	1310	G	N9-C4	-5.98	1.33	1.38
85	5	2691	A	N7-C5	-5.98	1.35	1.39
85	5	3245	A	C5-C4	5.98	1.43	1.38
36	1	958	C	C2-N3	-5.98	1.30	1.35
36	1	2604	U	N1-C2	-5.98	1.33	1.38
57	N1	72	VAL	CB-CG1	-5.98	1.40	1.52
80	6	1735	U	N3-C4	-5.98	1.33	1.38
44	17	229	PHE	CE2-CZ	-5.98	1.25	1.37
1	2	921	G	N7-C5	-5.98	1.35	1.39
36	1	588	G	N7-C5	-5.98	1.35	1.39
85	5	196	G	C6-O6	5.98	1.29	1.24
85	5	3036	G	N3-C4	-5.98	1.31	1.35
36	1	1299	U	C4-C5	-5.97	1.38	1.43
36	1	2275	A	N9-C4	-5.97	1.34	1.37
80	6	1778	G	C5-C4	-5.97	1.34	1.38
85	5	1099	A	N3-C4	-5.97	1.31	1.34
85	5	3176	G	N1-C2	-5.97	1.32	1.37
1	2	264	G	N9-C4	-5.97	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1329	A	C5-C4	5.97	1.43	1.38
36	1	980	A	N9-C4	5.97	1.41	1.37
38	4	89	A	N9-C4	-5.97	1.34	1.37
80	6	423	G	C2-N3	-5.97	1.27	1.32
36	1	607	A	N9-C4	-5.97	1.34	1.37
36	1	2936	A	N9-C4	-5.97	1.34	1.37
85	5	3395	G	C2'-C1'	5.97	1.59	1.53
1	2	1382	C	N3-C4	5.97	1.38	1.33
36	1	1431	G	N1-C2	-5.97	1.32	1.37
36	1	3296	A	C5-C4	-5.97	1.34	1.38
85	5	726	G	C5-C6	-5.97	1.36	1.42
85	5	1158	A	C6-N1	-5.97	1.31	1.35
85	5	1428	A	C6-N6	-5.97	1.29	1.33
85	5	3097	C	N1-C2	-5.97	1.34	1.40
39	L2	168	VAL	CB-CG1	-5.97	1.40	1.52
1	2	538	A	N3-C4	5.97	1.38	1.34
36	1	645	A	C6-N6	-5.97	1.29	1.33
36	1	2118	C	N3-C4	-5.97	1.29	1.33
85	5	62	A	N7-C5	-5.97	1.35	1.39
85	5	1118	C	N3-C4	-5.97	1.29	1.33
85	5	2719	U	C2-N3	-5.97	1.33	1.37
36	1	919	U	C2-O2	-5.96	1.17	1.22
36	1	1348	U	N3-C4	5.96	1.43	1.38
36	1	1874	A	N9-C4	-5.96	1.34	1.37
36	1	2321	A	C5-C4	-5.96	1.34	1.38
37	3	17	A	C6-N1	-5.96	1.31	1.35
41	L4	304	GLN	CG-CD	5.96	1.64	1.51
85	5	2814	G	N3-C4	-5.96	1.31	1.35
85	5	2990	G	N9-C8	-5.96	1.33	1.37
36	1	1435	A	N1-C2	-5.96	1.28	1.34
36	1	2293	C	N3-C4	5.96	1.38	1.33
80	6	1740	A	N3-C4	-5.96	1.31	1.34
38	8	58	G	N3-C4	-5.96	1.31	1.35
57	n1	51	GLY	C-N	-5.96	1.20	1.34
36	1	1152	G	C6-O6	-5.96	1.18	1.24
36	1	1222	G	N7-C5	5.96	1.42	1.39
36	1	1577	G	C6-N1	5.96	1.43	1.39
80	6	834	G	N3-C4	5.96	1.39	1.35
80	6	1552	U	N1-C2	-5.96	1.33	1.38
85	5	952	A	N9-C4	-5.96	1.34	1.37
85	5	1505	C	N3-C4	-5.96	1.29	1.33
85	5	2287	C	C2-O2	-5.96	1.19	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2430	A	N7-C5	-5.96	1.35	1.39
85	5	2833	A	C5-C4	-5.96	1.34	1.38
85	5	2857	C	N1-C6	-5.96	1.33	1.37
85	5	3023	U	C4-C5	-5.96	1.38	1.43
73	o7	8	PHE	CB-CG	-5.96	1.41	1.51
36	1	865	U	N1-C6	-5.96	1.32	1.38
36	1	2686	A	N7-C5	-5.96	1.35	1.39
36	1	2942	C	N1-C6	-5.96	1.33	1.37
80	6	1781	A	C6-N1	-5.96	1.31	1.35
36	1	1544	G	N1-C2	-5.96	1.32	1.37
36	1	2356	A	N9-C4	-5.96	1.34	1.37
85	5	2371	G	C5-C4	-5.96	1.34	1.38
85	5	3084	C	C2-N3	-5.96	1.30	1.35
36	1	1898	G	N1-C2	-5.96	1.32	1.37
36	1	2286	U	C2-O2	-5.96	1.17	1.22
80	6	579	A	N9-C8	5.96	1.42	1.37
80	6	680	U	N1-C2	5.96	1.44	1.38
80	6	1573	A	C6-N1	-5.96	1.31	1.35
85	5	94	G	C6-N1	-5.96	1.35	1.39
85	5	3132	C	N3-C4	-5.96	1.29	1.33
85	5	3297	U	N3-C4	-5.96	1.33	1.38
36	1	559	A	C5-C6	-5.96	1.35	1.41
36	1	3046	A	N9-C4	-5.96	1.34	1.37
80	6	366	A	C5-C4	-5.96	1.34	1.38
85	5	2976	A	C6-N1	-5.96	1.31	1.35
36	1	989	A	C5-C6	-5.95	1.35	1.41
36	1	1420	C	C2-N3	-5.95	1.30	1.35
36	1	2408	U	C4-C5	-5.95	1.38	1.43
36	1	2746	A	N9-C4	-5.95	1.34	1.37
36	1	2984	C	N1-C2	-5.95	1.34	1.40
80	6	345	U	N1-C2	-5.95	1.33	1.38
80	6	938	G	N7-C5	-5.95	1.35	1.39
85	5	626	U	C2-O2	-5.95	1.17	1.22
85	5	2580	A	N9-C4	-5.95	1.34	1.37
36	1	3238	G	C6-N1	5.95	1.43	1.39
52	M6	88	VAL	CB-CG1	-5.95	1.40	1.52
80	6	465	G	N7-C5	-5.95	1.35	1.39
80	6	1040	G	C6-N1	5.95	1.43	1.39
36	1	369	A	C6-N1	-5.95	1.31	1.35
36	1	816	A	N9-C4	5.95	1.41	1.37
36	1	3178	A	C5-C6	-5.95	1.35	1.41
80	6	421	A	C6-N1	5.95	1.39	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	755	A	N7-C5	-5.95	1.35	1.39
85	5	40	A	N9-C8	-5.95	1.32	1.37
85	5	1293	U	N1-C2	-5.95	1.33	1.38
85	5	1919	G	C2-N3	-5.95	1.27	1.32
85	5	2275	A	N3-C4	-5.95	1.31	1.34
36	1	1222	G	C5-C6	5.95	1.48	1.42
36	1	1889	G	N9-C8	-5.95	1.33	1.37
36	1	3365	U	C2-N3	-5.95	1.33	1.37
85	5	1839	A	N7-C5	-5.95	1.35	1.39
85	5	2917	G	C5-C4	-5.95	1.34	1.38
36	1	2379	U	N3-C4	-5.95	1.33	1.38
36	1	3343	G	N9-C8	-5.95	1.33	1.37
85	5	2661	G	C6-O6	-5.95	1.18	1.24
36	1	1080	A	N3-C4	-5.95	1.31	1.34
36	1	2920	U	C4'-C3'	-5.95	1.46	1.52
36	1	3052	G	N7-C5	-5.95	1.35	1.39
74	O8	13	GLU	CG-CD	5.95	1.60	1.51
85	5	1352	A	O3'-P	5.95	1.68	1.61
85	5	2387	A	C5-C4	-5.95	1.34	1.38
85	5	3026	G	C5-C6	-5.95	1.36	1.42
37	7	82	G	N7-C5	-5.95	1.35	1.39
85	5	2889	C	C4-C5	-5.94	1.38	1.43
36	1	978	G	C5-C6	-5.94	1.36	1.42
36	1	3290	G	C6-N1	5.94	1.43	1.39
85	5	654	C	N1-C2	-5.94	1.34	1.40
85	5	1083	G	C6-N1	-5.94	1.35	1.39
85	5	1360	C	N1-C6	-5.94	1.33	1.37
85	5	3008	A	C6-N1	-5.94	1.31	1.35
85	5	3335	A	C5-C4	-5.94	1.34	1.38
36	1	2613	U	N1-C6	-5.94	1.32	1.38
36	1	3154	C	N1-C6	5.94	1.40	1.37
36	1	3366	G	N3-C4	-5.94	1.31	1.35
85	5	344	A	N3-C4	-5.94	1.31	1.34
1	2	1076	A	N9-C4	-5.94	1.34	1.37
36	1	651	G	C8-N7	-5.94	1.27	1.30
36	1	1135	A	N7-C5	-5.94	1.35	1.39
49	M3	57	VAL	CB-CG1	-5.94	1.40	1.52
85	5	1772	U	C2-N3	5.94	1.42	1.37
1	2	1274	G	N9-C4	-5.94	1.33	1.38
36	1	1843	C	N3-C4	-5.94	1.29	1.33
36	1	2896	A	N7-C5	-5.94	1.35	1.39
85	5	2325	G	C2-N2	-5.94	1.28	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2342	U	C4-C5	-5.94	1.38	1.43
80	6	1044	U	C2-N3	-5.94	1.33	1.37
85	5	26	A	C6-N1	-5.94	1.31	1.35
85	5	651	G	C2-N3	-5.94	1.28	1.32
85	5	2817	A	N3-C4	-5.94	1.31	1.34
36	1	1155	C	C4-N4	-5.93	1.28	1.33
36	1	1512	U	C2-O2	-5.93	1.17	1.22
36	1	1514	G	C5-C6	-5.93	1.36	1.42
36	1	1902	G	N7-C5	-5.93	1.35	1.39
36	1	2881	C	N3-C4	-5.93	1.29	1.33
80	6	1160	A	N3-C4	-5.93	1.31	1.34
85	5	348	A	N7-C5	-5.93	1.35	1.39
85	5	356	C	N1-C6	-5.93	1.33	1.37
85	5	1035	G	N9-C4	5.93	1.42	1.38
85	5	1895	A	C5-C6	-5.93	1.35	1.41
85	5	1913	A	N3-C4	-5.93	1.31	1.34
85	5	2359	C	C5-C6	-5.93	1.29	1.34
85	5	3006	A	C6-N1	-5.93	1.31	1.35
38	8	7	U	C2-N3	-5.93	1.33	1.37
36	1	304	G	N3-C4	-5.93	1.31	1.35
36	1	1104	G	N3-C4	-5.93	1.31	1.35
36	1	2877	G	N3-C4	-5.93	1.31	1.35
85	5	2706	G	N1-C2	-5.93	1.33	1.37
43	l6	9	TRP	CE3-CZ3	5.93	1.48	1.38
36	1	635	G	C6-N1	-5.93	1.35	1.39
36	1	1589	A	C6-N1	-5.93	1.31	1.35
36	1	2721	A	C6-N1	-5.93	1.31	1.35
36	1	2738	A	C5-C4	-5.93	1.34	1.38
36	1	2897	A	C5-C4	-5.93	1.34	1.38
36	1	3315	G	N9-C8	-5.93	1.33	1.37
52	M6	16	VAL	CB-CG1	-5.93	1.40	1.52
85	5	3088	G	N9-C8	-5.93	1.33	1.37
38	8	39	G	C6-N1	-5.93	1.35	1.39
41	l4	71	VAL	CB-CG1	-5.93	1.40	1.52
36	1	583	G	N1-C2	-5.93	1.33	1.37
36	1	1354	G	N3-C4	5.93	1.39	1.35
38	4	140	G	N3-C4	-5.93	1.31	1.35
80	6	1160	A	C6-N1	-5.93	1.31	1.35
36	1	1182	A	N3-C4	-5.93	1.31	1.34
36	1	1889	G	C5-C4	-5.93	1.34	1.38
80	6	567	A	N9-C4	-5.93	1.34	1.37
85	5	1446	A	N9-C8	-5.93	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1857	C	N3-C4	-5.93	1.29	1.33
85	5	2892	A	N9-C4	-5.93	1.34	1.37
85	5	189	G	N1-C2	-5.92	1.33	1.37
85	5	1079	A	N7-C5	-5.92	1.35	1.39
54	m8	62	VAL	CB-CG1	-5.92	1.40	1.52
36	1	220	G	N9-C4	-5.92	1.33	1.38
36	1	412	G	C6-N1	-5.92	1.35	1.39
36	1	1857	C	N1-C6	-5.92	1.33	1.37
85	5	207	U	C4-O4	-5.92	1.19	1.23
85	5	406	G	N1-C2	-5.92	1.33	1.37
85	5	1886	A	C5-C4	-5.92	1.34	1.38
36	1	870	G	C5-C4	-5.92	1.34	1.38
36	1	2413	A	C6-N6	-5.92	1.29	1.33
80	6	353	A	N3-C4	-5.92	1.31	1.34
80	6	1065	A	C5-C6	-5.92	1.35	1.41
80	6	1204	A	N3-C4	-5.92	1.31	1.34
85	5	360	G	N9-C4	5.92	1.42	1.38
85	5	2860	U	C2-N3	5.92	1.41	1.37
85	5	2950	G	N1-C2	-5.92	1.33	1.37
85	5	3044	G	N9-C4	-5.92	1.33	1.38
36	1	1809	A	N9-C8	-5.92	1.33	1.37
36	1	2150	G	N3-C4	-5.92	1.31	1.35
36	1	2830	G	N9-C8	-5.92	1.33	1.37
85	5	2863	G	C6-N1	-5.92	1.35	1.39
85	5	2928	C	N1-C2	-5.92	1.34	1.40
85	5	2973	G	N7-C5	-5.92	1.35	1.39
1	2	10	G	C5-C6	5.92	1.48	1.42
36	1	368	G	N7-C5	-5.92	1.35	1.39
36	1	2127	U	N1-C6	-5.92	1.32	1.38
85	5	736	A	C5-C4	5.92	1.42	1.38
36	1	2633	U	N1-C2	-5.92	1.33	1.38
85	5	920	A	N7-C5	-5.92	1.35	1.39
85	5	2381	G	C3'-C2'	-5.92	1.46	1.52
85	5	2756	C	C4-C5	-5.92	1.38	1.43
85	5	2950	G	C8-N7	-5.92	1.27	1.30
85	5	2982	A	C6-N1	-5.92	1.31	1.35
85	5	3085	G	C6-N1	-5.92	1.35	1.39
1	2	425	A	N3-C4	-5.92	1.31	1.34
80	6	25	C	C2-N3	5.92	1.40	1.35
36	1	367	A	N7-C5	-5.91	1.35	1.39
36	1	1153	A	C5-C6	-5.91	1.35	1.41
80	6	683	C	N1-C6	5.91	1.40	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	353	G	N9-C8	-5.91	1.33	1.37
85	5	896	A	N9-C8	-5.91	1.33	1.37
85	5	3140	G	N1-C2	-5.91	1.33	1.37
85	5	3245	A	N9-C4	-5.91	1.34	1.37
36	1	1129	A	N7-C5	-5.91	1.35	1.39
80	6	1768	G	N9-C4	-5.91	1.33	1.38
85	5	1857	C	N1-C6	-5.91	1.33	1.37
85	5	2395	G	N9-C8	5.91	1.42	1.37
85	5	2547	A	N9-C4	5.91	1.41	1.37
85	5	2769	A	N7-C5	5.91	1.42	1.39
1	2	358	U	C2-N3	-5.91	1.33	1.37
36	1	609	G	C6-O6	-5.91	1.18	1.24
36	1	843	A	N9-C4	-5.91	1.34	1.37
36	1	2366	C	N3-C4	-5.91	1.29	1.33
36	1	2621	G	C5-C6	-5.91	1.36	1.42
36	1	2730	G	N3-C4	-5.91	1.31	1.35
36	1	3286	G	N9-C4	5.91	1.42	1.38
80	6	1070	C	N3-C4	5.91	1.38	1.33
80	6	1583	A	N9-C4	-5.91	1.34	1.37
85	5	1507	G	N1-C2	-5.91	1.33	1.37
85	5	2119	A	C6-N1	-5.91	1.31	1.35
85	5	2509	U	N1-C2	5.91	1.43	1.38
36	1	1844	C	N1-C2	-5.91	1.34	1.40
36	1	2370	G	N9-C8	-5.91	1.33	1.37
36	1	2661	G	N7-C5	-5.91	1.35	1.39
85	5	154	U	N1-C6	-5.91	1.32	1.38
85	5	1789	G	N9-C8	-5.91	1.33	1.37
85	5	1817	G	C6-N1	5.91	1.43	1.39
85	5	2296	A	P-OP1	-5.91	1.39	1.49
85	5	2318	U	N1-C6	-5.91	1.32	1.38
85	5	2759	U	C2-O2	-5.91	1.17	1.22
85	5	2801	A	N1-C2	-5.91	1.29	1.34
37	7	8	G	N1-C2	-5.91	1.33	1.37
59	n3	95	PHE	CB-CG	-5.91	1.41	1.51
80	6	333	A	C5-C6	-5.91	1.35	1.41
36	1	2123	G	C5-C4	-5.91	1.34	1.38
36	1	2817	A	N3-C4	-5.91	1.31	1.34
36	1	3322	A	N9-C4	-5.91	1.34	1.37
40	L3	122	TRP	CB-CG	-5.91	1.39	1.50
85	5	864	G	C5-C6	-5.91	1.36	1.42
85	5	2399	A	C5-C6	-5.91	1.35	1.41
85	5	2799	A	N9-C4	-5.91	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3299	A	N9-C8	-5.91	1.33	1.37
38	4	3	A	N9-C8	-5.90	1.33	1.37
85	5	614	C	N3-C4	-5.90	1.29	1.33
85	5	3327	G	C5-C6	5.90	1.48	1.42
36	1	240	U	C2-N3	5.90	1.41	1.37
36	1	828	A	N3-C4	-5.90	1.31	1.34
36	1	1450	G	N1-C2	-5.90	1.33	1.37
80	6	1787	C	N1-C6	-5.90	1.33	1.37
85	5	878	G	N1-C2	-5.90	1.33	1.37
85	5	2666	C	N1-C2	-5.90	1.34	1.40
1	2	1653	G	N9-C8	-5.90	1.33	1.37
36	1	2994	A	O3'-P	-5.90	1.54	1.61
38	4	35	C	C4-C5	-5.90	1.38	1.43
85	5	1374	G	C5-C4	-5.90	1.34	1.38
37	7	42	A	N9-C4	-5.90	1.34	1.37
36	1	2414	G	C5-C4	-5.90	1.34	1.38
36	1	3274	A	N7-C5	-5.90	1.35	1.39
80	6	393	C	C2-N3	-5.90	1.31	1.35
80	6	1014	G	N9-C8	-5.90	1.33	1.37
85	5	820	A	N9-C4	-5.90	1.34	1.37
85	5	2338	C	N3-C4	-5.90	1.29	1.33
1	2	28	A	C6-N1	-5.90	1.31	1.35
36	1	2739	A	C6-N1	5.90	1.39	1.35
80	6	1100	G	N3-C4	-5.90	1.31	1.35
85	5	1165	A	N9-C8	-5.90	1.33	1.37
85	5	2131	A	C5-C6	-5.90	1.35	1.41
85	5	2356	A	N7-C5	-5.90	1.35	1.39
38	8	44	A	C5-C4	-5.90	1.34	1.38
36	1	559	A	N7-C5	-5.90	1.35	1.39
36	1	67	A	C6-N1	-5.89	1.31	1.35
36	1	109	A	N7-C5	-5.89	1.35	1.39
36	1	1158	A	N7-C5	-5.89	1.35	1.39
38	4	25	G	N7-C5	-5.89	1.35	1.39
68	O2	28	VAL	CB-CG1	-5.89	1.40	1.52
85	5	1931	U	C2-N3	-5.89	1.33	1.37
85	5	3088	G	N1-C2	-5.89	1.33	1.37
37	7	75	G	N9-C4	-5.89	1.33	1.38
1	2	599	A	N3-C4	-5.89	1.31	1.34
36	1	953	G	C5-C4	-5.89	1.34	1.38
80	6	45	U	N3-C4	-5.89	1.33	1.38
85	5	38	U	C5-C6	-5.89	1.28	1.34
85	5	89	A	N7-C5	-5.89	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1055	A	C5-C4	-5.89	1.34	1.38
59	n3	79	VAL	CB-CG1	-5.89	1.40	1.52
36	1	2694	A	N3-C4	-5.89	1.31	1.34
85	5	165	A	N9-C8	5.89	1.42	1.37
85	5	965	A	C6-N6	-5.89	1.29	1.33
85	5	967	A	N7-C5	-5.89	1.35	1.39
85	5	998	A	C6-N1	-5.89	1.31	1.35
38	8	125	U	N1-C2	5.89	1.43	1.38
36	1	1184	A	N3-C4	-5.89	1.31	1.34
36	1	1890	U	N1-C6	-5.89	1.32	1.38
80	6	294	C	N1-C6	-5.89	1.33	1.37
80	6	1645	G	C5-C6	-5.89	1.36	1.42
85	5	714	G	C5-C4	-5.89	1.34	1.38
85	5	946	U	C4'-C3'	-5.89	1.46	1.52
85	5	1843	C	C4-C5	-5.89	1.38	1.43
85	5	3042	U	N1-C2	-5.89	1.33	1.38
36	1	632	G	N9-C4	-5.89	1.33	1.38
36	1	930	U	P-OP2	-5.89	1.39	1.49
38	4	8	C	N3-C4	-5.89	1.29	1.33
85	5	40	A	C5-C6	-5.89	1.35	1.41
68	o2	28	VAL	CB-CG1	-5.89	1.40	1.52
36	1	60	A	C5-C4	-5.89	1.34	1.38
36	1	2626	A	C6-N1	-5.89	1.31	1.35
85	5	506	U	N1-C2	-5.89	1.33	1.38
85	5	614	C	C5-C6	-5.89	1.29	1.34
85	5	1809	A	N9-C4	-5.89	1.34	1.37
85	5	2243	A	N9-C8	-5.89	1.33	1.37
85	5	2721	A	C6-N1	-5.89	1.31	1.35
85	5	2906	C	N1-C2	-5.89	1.34	1.40
38	8	54	A	N7-C5	-5.89	1.35	1.39
36	1	2372	A	N9-C8	-5.88	1.33	1.37
36	1	3022	G	C5-C6	-5.88	1.36	1.42
85	5	437	G	N9-C8	5.88	1.42	1.37
85	5	689	U	C2-O2	-5.88	1.17	1.22
85	5	789	A	N7-C5	-5.88	1.35	1.39
85	5	2945	G	N9-C8	-5.88	1.33	1.37
37	7	118	A	N3-C4	-5.88	1.31	1.34
36	1	1438	U	P-O5'	-5.88	1.53	1.59
85	5	54	C	N1-C2	-5.88	1.34	1.40
85	5	313	A	N7-C5	-5.88	1.35	1.39
36	1	1051	U	N1-C6	-5.88	1.32	1.38
49	M3	57	VAL	CB-CG2	-5.88	1.40	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1322	A	N3-C4	-5.88	1.31	1.34
85	5	172	G	C5-C6	5.88	1.48	1.42
85	5	697	A	C5-C4	5.88	1.42	1.38
36	1	1905	G	C5-C4	-5.88	1.34	1.38
80	6	782	U	N1-C2	5.88	1.43	1.38
36	1	1731	A	C6-N1	-5.88	1.31	1.35
36	1	2825	C	N3-C4	-5.88	1.29	1.33
36	1	3111	U	P-OP2	5.88	1.58	1.49
80	6	17	C	N3-C4	-5.88	1.29	1.33
80	6	336	G	C5-C4	-5.88	1.34	1.38
80	6	1109	G	C5-C4	5.88	1.42	1.38
85	5	703	G	N7-C5	-5.88	1.35	1.39
85	5	2559	U	N3-C4	-5.88	1.33	1.38
59	n3	122	CYS	CB-SG	-5.88	1.72	1.81
61	n5	77	GLU	CB-CG	5.88	1.63	1.52
1	2	505	A	N3-C4	5.88	1.38	1.34
1	2	1485	G	N1-C2	-5.88	1.33	1.37
36	1	97	U	N1-C2	-5.88	1.33	1.38
36	1	318	A	N7-C5	-5.88	1.35	1.39
36	1	831	G	N9-C8	-5.88	1.33	1.37
36	1	1100	U	N1-C6	-5.88	1.32	1.38
36	1	2636	A	C5-C6	-5.88	1.35	1.41
36	1	2675	C	N1-C6	-5.88	1.33	1.37
36	1	3153	U	N1-C6	5.88	1.43	1.38
80	6	951	A	N9-C4	-5.88	1.34	1.37
85	5	1889	G	C8-N7	-5.88	1.27	1.30
36	1	3184	A	C6-N6	-5.88	1.29	1.33
80	6	336	G	N9-C4	-5.88	1.33	1.38
80	6	625	C	N1-C2	-5.88	1.34	1.40
85	5	421	G	N9-C4	-5.88	1.33	1.38
85	5	1011	A	N9-C4	-5.88	1.34	1.37
85	5	1755	C	N1-C6	-5.88	1.33	1.37
85	5	2756	C	C2-O2	-5.88	1.19	1.24
36	1	621	A	N7-C5	5.87	1.42	1.39
80	6	267	U	C2-N3	5.87	1.41	1.37
80	6	818	C	C4-C5	5.87	1.47	1.43
85	5	88	A	N9-C4	-5.87	1.34	1.37
85	5	660	A	N1-C2	-5.87	1.29	1.34
85	5	2661	G	N1-C2	-5.87	1.33	1.37
38	8	5	U	N1-C2	-5.87	1.33	1.38
44	l7	133	TYR	CD1-CE1	-5.87	1.30	1.39
79	q3	16	VAL	CB-CG1	-5.87	1.40	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	827	A	N9-C8	-5.87	1.33	1.37
36	1	1181	U	N3-C4	-5.87	1.33	1.38
36	1	1426	C	C2-N3	-5.87	1.31	1.35
36	1	2299	A	C6-N1	-5.87	1.31	1.35
36	1	2400	G	C5-C6	-5.87	1.36	1.42
36	1	2817	A	N9-C8	-5.87	1.33	1.37
80	6	408	C	C2-N3	-5.87	1.31	1.35
80	6	570	A	C5-C6	-5.87	1.35	1.41
80	6	579	A	N9-C4	5.87	1.41	1.37
80	6	1009	U	N1-C2	-5.87	1.33	1.38
85	5	627	U	C2-N3	-5.87	1.33	1.37
85	5	651	G	N3-C4	-5.87	1.31	1.35
85	5	1329	U	N3-C4	-5.87	1.33	1.38
85	5	1820	U	N1-C6	5.87	1.43	1.38
36	1	3155	U	C2-O2	5.87	1.27	1.22
80	6	992	A	C5-C4	-5.87	1.34	1.38
85	5	1145	G	N3-C4	-5.87	1.31	1.35
36	1	350	C	N1-C6	-5.87	1.33	1.37
36	1	2342	U	N1-C6	-5.87	1.32	1.38
36	1	2828	G	C6-N1	-5.87	1.35	1.39
36	1	2902	A	C5-C4	-5.87	1.34	1.38
80	6	426	G	N7-C5	-5.87	1.35	1.39
80	6	1133	A	C5-C4	-5.87	1.34	1.38
80	6	1368	G	N9-C4	-5.87	1.33	1.38
80	6	1714	A	N3-C4	5.87	1.38	1.34
85	5	2909	U	C5-C6	-5.87	1.28	1.34
85	5	3091	A	C6-N6	-5.87	1.29	1.33
38	8	15	G	C5-C4	-5.87	1.34	1.38
53	m7	53	ASP	CB-CG	-5.87	1.39	1.51
1	2	1046	U	C2-N3	5.87	1.41	1.37
85	5	1158	A	P-OP2	-5.87	1.39	1.49
85	5	1481	A	C6-N1	-5.87	1.31	1.35
36	1	1350	A	N9-C8	5.87	1.42	1.37
85	5	813	G	N9-C4	-5.87	1.33	1.38
85	5	2625	C	N1-C2	-5.87	1.34	1.40
1	2	630	A	N9-C8	-5.86	1.33	1.37
36	1	200	C	N1-C2	-5.86	1.34	1.40
36	1	2607	G	C5-C4	-5.86	1.34	1.38
38	4	35	C	N1-C2	-5.86	1.34	1.40
37	7	121	U	C2-O2	5.86	1.27	1.22
36	1	407	A	N3-C4	-5.86	1.31	1.34
36	1	1548	C	N1-C2	-5.86	1.34	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1867	A	N3-C4	-5.86	1.31	1.34
36	1	2379	U	C4-O4	-5.86	1.19	1.23
36	1	43	A	N7-C5	-5.86	1.35	1.39
36	1	46	U	N1-C2	-5.86	1.33	1.38
36	1	414	U	C2-O2	-5.86	1.17	1.22
36	1	2307	G	N3-C4	-5.86	1.31	1.35
85	5	1172	G	C2-N2	-5.86	1.28	1.34
85	5	1871	U	N1-C6	-5.86	1.32	1.38
85	5	2183	A	C5-C4	-5.86	1.34	1.38
85	5	2883	U	C2-O2	-5.86	1.17	1.22
85	5	2962	U	N3-C4	-5.86	1.33	1.38
85	5	3014	U	N3-C4	-5.86	1.33	1.38
36	1	978	G	N3-C4	-5.86	1.31	1.35
36	1	2805	G	N1-C2	-5.86	1.33	1.37
36	1	2957	G	N1-C2	-5.86	1.33	1.37
85	5	1296	C	C4-C5	-5.86	1.38	1.43
85	5	3106	A	C5-C4	-5.86	1.34	1.38
38	8	99	C	C4-C5	-5.86	1.38	1.43
36	1	1760	A	N3-C4	5.86	1.38	1.34
36	1	1932	A	C6-N1	-5.86	1.31	1.35
36	1	2214	A	C5-C4	-5.86	1.34	1.38
36	1	2414	G	C2-N3	-5.86	1.28	1.32
36	1	3341	U	C2-N3	5.86	1.41	1.37
80	6	669	G	N9-C4	5.86	1.42	1.38
85	5	795	G	N3-C4	-5.86	1.31	1.35
85	5	1173	U	C2-N3	-5.86	1.33	1.37
85	5	2895	G	C2-N3	-5.86	1.28	1.32
1	2	1188	C	N1-C2	-5.86	1.34	1.40
1	2	1416	G	C6-N1	-5.86	1.35	1.39
1	2	1798	A	N7-C5	5.86	1.42	1.39
36	1	76	G	C5-C4	-5.86	1.34	1.38
36	1	2420	C	N1-C6	-5.86	1.33	1.37
36	1	2725	U	N1-C6	-5.86	1.32	1.38
85	5	2568	C	N1-C6	5.86	1.40	1.37
85	5	3173	G	C5-C4	-5.86	1.34	1.38
36	1	1390	A	N9-C8	-5.85	1.33	1.37
80	6	328	A	N7-C5	-5.85	1.35	1.39
85	5	3015	G	N7-C5	-5.85	1.35	1.39
36	1	3309	G	N1-C2	-5.85	1.33	1.37
76	Q0	96	CYS	CB-SG	5.85	1.92	1.82
80	6	911	U	N1-C2	5.85	1.43	1.38
80	6	1585	U	C2-N3	-5.85	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	62	A	N9-C4	-5.85	1.34	1.37
85	5	1062	A	C6-N1	-5.85	1.31	1.35
85	5	1762	C	N1-C2	5.85	1.46	1.40
85	5	1929	G	C6-N1	-5.85	1.35	1.39
85	5	2813	A	C8-N7	-5.85	1.27	1.31
36	1	582	G	N9-C4	-5.85	1.33	1.38
80	6	845	G	N9-C8	5.85	1.42	1.37
85	5	3181	C	C2-O2	-5.85	1.19	1.24
36	1	34	A	N3-C4	-5.85	1.31	1.34
36	1	1059	G	N9-C4	-5.85	1.33	1.38
36	1	1381	A	N9-C8	-5.85	1.33	1.37
36	1	1898	G	C6-N1	-5.85	1.35	1.39
80	6	1659	A	C5-C6	-5.85	1.35	1.41
85	5	805	G	C2-N2	-5.85	1.28	1.34
85	5	1077	U	C2-N3	-5.85	1.33	1.37
85	5	1349	G	C5-C6	5.85	1.48	1.42
85	5	1582	C	N3-C4	5.85	1.38	1.33
85	5	3327	G	C2-N3	-5.85	1.28	1.32
38	8	17	A	N3-C4	-5.85	1.31	1.34
36	1	3157	U	N1-C2	5.85	1.43	1.38
36	1	3187	A	N7-C5	-5.85	1.35	1.39
36	1	3311	C	C2-N3	-5.85	1.31	1.35
85	5	963	G	C5-C4	-5.85	1.34	1.38
85	5	2118	C	N1-C6	-5.85	1.33	1.37
36	1	268	A	N3-C4	-5.85	1.31	1.34
36	1	389	A	C6-N1	-5.85	1.31	1.35
42	L5	160	PHE	CD1-CE1	-5.85	1.27	1.39
85	5	327	A	C5-C4	-5.85	1.34	1.38
85	5	2315	G	C5-C6	-5.85	1.36	1.42
85	5	3273	A	C5-C4	-5.85	1.34	1.38
36	1	602	A	C5-C4	5.84	1.42	1.38
36	1	1466	G	N3-C4	-5.84	1.31	1.35
36	1	2760	C	P-O5'	-5.84	1.53	1.59
36	1	3156	U	N3-C4	5.84	1.43	1.38
50	M4	91	CYS	CB-SG	5.84	1.92	1.82
85	5	1428	A	C6-N1	-5.84	1.31	1.35
85	5	2406	C	N1-C2	-5.84	1.34	1.40
38	8	93	U	C2-N3	-5.84	1.33	1.37
36	1	1167	U	C2-N3	-5.84	1.33	1.37
36	1	266	A	C6-N1	-5.84	1.31	1.35
36	1	1609	C	N1-C6	-5.84	1.33	1.37
36	1	2244	A	N9-C8	-5.84	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2895	G	N9-C4	-5.84	1.33	1.38
85	5	1047	A	C5-C4	-5.84	1.34	1.38
85	5	1167	U	N3-C4	-5.84	1.33	1.38
85	5	2898	G	N9-C8	-5.84	1.33	1.37
36	1	1429	G	N3-C4	-5.84	1.31	1.35
36	1	1882	G	N3-C4	-5.84	1.31	1.35
80	6	354	C	N1-C6	-5.84	1.33	1.37
85	5	2915	U	N1-C2	-5.84	1.33	1.38
36	1	2130	G	C6-N1	-5.84	1.35	1.39
36	1	2989	U	C4-C5	-5.84	1.38	1.43
85	5	99	A	C6-N1	-5.84	1.31	1.35
85	5	661	G	C6-N1	-5.84	1.35	1.39
85	5	2396	G	N9-C4	-5.84	1.33	1.38
85	5	2643	A	C5-C4	-5.84	1.34	1.38
36	1	505	G	N9-C8	-5.84	1.33	1.37
36	1	621	A	N9-C4	5.84	1.41	1.37
36	1	710	A	C6-N6	-5.84	1.29	1.33
36	1	2174	G	C2-N2	-5.84	1.28	1.34
36	1	2188	A	N9-C4	-5.84	1.34	1.37
36	1	2445	A	N7-C5	5.84	1.42	1.39
80	6	1740	A	C6-N1	-5.84	1.31	1.35
85	5	1018	G	N9-C4	5.84	1.42	1.38
85	5	1111	U	C5-C6	-5.84	1.28	1.34
85	5	1648	A	N7-C5	-5.84	1.35	1.39
1	2	318	U	N1-C2	-5.83	1.33	1.38
36	1	860	G	N9-C8	-5.83	1.33	1.37
36	1	1159	A	N9-C4	-5.83	1.34	1.37
36	1	1680	G	N3-C4	-5.83	1.31	1.35
85	5	837	A	C5-C6	-5.83	1.35	1.41
85	5	1349	G	C2-N3	5.83	1.37	1.32
85	5	3215	A	C5-C6	-5.83	1.35	1.41
36	1	203	G	N3-C4	-5.83	1.31	1.35
36	1	237	G	N3-C4	5.83	1.39	1.35
36	1	408	A	N7-C5	-5.83	1.35	1.39
36	1	2677	G	N7-C5	-5.83	1.35	1.39
80	6	573	C	N1-C6	-5.83	1.33	1.37
85	5	1303	A	C6-N1	-5.83	1.31	1.35
85	5	2905	U	C2-O2	-5.83	1.17	1.22
38	8	15	G	N7-C5	-5.83	1.35	1.39
36	1	800	G	N9-C4	-5.83	1.33	1.38
36	1	2172	A	N3-C4	-5.83	1.31	1.34
36	1	2200	U	N1-C6	-5.83	1.32	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3155	U	N1-C6	5.83	1.43	1.38
80	6	965	U	N3-C4	-5.83	1.33	1.38
85	5	1342	C	C2-N3	-5.83	1.31	1.35
85	5	2636	A	N1-C2	-5.83	1.29	1.34
85	5	2914	G	C5-C6	-5.83	1.36	1.42
36	1	1612	A	N7-C5	-5.83	1.35	1.39
36	1	2945	G	N3-C4	-5.83	1.31	1.35
80	6	83	G	N1-C2	5.83	1.42	1.37
85	5	1842	A	N3-C4	-5.83	1.31	1.34
1	2	1115	A	N9-C8	-5.83	1.33	1.37
36	1	61	A	N3-C4	-5.83	1.31	1.34
36	1	85	A	N3-C4	-5.83	1.31	1.34
36	1	1220	U	N1-C2	5.83	1.43	1.38
36	1	1813	A	N9-C4	5.83	1.41	1.37
36	1	2981	U	C2-N3	-5.83	1.33	1.37
44	L7	24	GLU	CG-CD	5.83	1.60	1.51
80	6	449	C	N1-C2	-5.83	1.34	1.40
80	6	1665	U	N1-C6	-5.83	1.32	1.38
85	5	1117	G	N7-C5	-5.83	1.35	1.39
85	5	2325	G	N1-C2	-5.83	1.33	1.37
36	1	2152	A	C5-C6	-5.83	1.35	1.41
80	6	269	G	N3-C4	-5.83	1.31	1.35
85	5	1092	C	N1-C6	-5.83	1.33	1.37
85	5	2814	G	N7-C5	-5.83	1.35	1.39
85	5	3241	G	N7-C5	-5.83	1.35	1.39
36	1	35	A	C5-C4	-5.83	1.34	1.38
36	1	206	G	N7-C5	-5.83	1.35	1.39
36	1	2819	A	N7-C5	-5.83	1.35	1.39
80	6	393	C	C2-O2	-5.83	1.19	1.24
85	5	897	U	C2-O2	-5.83	1.17	1.22
85	5	2946	A	C8-N7	-5.83	1.27	1.31
42	l5	79	TYR	CD1-CE1	-5.83	1.30	1.39
36	1	383	G	C5-C4	-5.82	1.34	1.38
36	1	2848	G	C5-C4	-5.82	1.34	1.38
52	M6	64	PHE	CD1-CE1	-5.82	1.27	1.39
80	6	720	G	N7-C5	5.82	1.42	1.39
85	5	523	A	N7-C5	-5.82	1.35	1.39
85	5	843	A	N9-C4	-5.82	1.34	1.37
85	5	967	A	N3-C4	-5.82	1.31	1.34
85	5	1217	A	N3-C4	-5.82	1.31	1.34
85	5	2751	G	N9-C4	-5.82	1.33	1.38
85	5	3384	U	C2-N3	5.82	1.41	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	20	U	C2-O2	-5.82	1.17	1.22
85	5	2335	G	C5-C4	-5.82	1.34	1.38
1	2	1628	G	C6-N1	-5.82	1.35	1.39
36	1	619	A	N9-C4	5.82	1.41	1.37
36	1	621	A	C6-N6	5.82	1.38	1.33
36	1	1307	G	C6-N1	-5.82	1.35	1.39
36	1	1698	C	N3-C4	-5.82	1.29	1.33
36	1	1867	A	N7-C5	-5.82	1.35	1.39
36	1	1871	U	N3-C4	-5.82	1.33	1.38
38	4	4	C	N1-C2	-5.82	1.34	1.40
85	5	32	U	N3-C4	-5.82	1.33	1.38
85	5	157	A	N3-C4	-5.82	1.31	1.34
85	5	912	G	N9-C8	-5.82	1.33	1.37
85	5	1296	C	N1-C6	-5.82	1.33	1.37
85	5	1637	A	C5-C4	-5.82	1.34	1.38
85	5	1953	G	N3-C4	5.82	1.39	1.35
85	5	2620	G	C5-C4	-5.82	1.34	1.38
40	l3	314	TYR	CE2-CZ	-5.82	1.30	1.38
36	1	67	A	C5-C4	-5.82	1.34	1.38
36	1	894	G	N1-C2	-5.82	1.33	1.37
36	1	1149	G	N3-C4	-5.82	1.31	1.35
64	n8	69	TRP	CB-CG	-5.82	1.39	1.50
1	2	1128	U	C2-N3	5.82	1.41	1.37
85	5	371	G	N9-C4	-5.82	1.33	1.38
85	5	1398	U	C2-O2	-5.82	1.17	1.22
85	5	3386	G	N9-C8	-5.82	1.33	1.37
38	8	157	U	N1-C6	5.82	1.43	1.38
36	1	368	G	C6-N1	-5.82	1.35	1.39
36	1	913	A	N7-C5	-5.82	1.35	1.39
36	1	2328	U	C4-O4	-5.82	1.19	1.23
36	1	2408	U	N1-C2	-5.82	1.33	1.38
80	6	1725	U	C4-O4	5.82	1.28	1.23
85	5	651	G	N9-C8	-5.82	1.33	1.37
85	5	1155	C	C4-N4	-5.82	1.28	1.33
85	5	1196	C	N3-C4	5.82	1.38	1.33
85	5	1395	G	C5-C6	-5.82	1.36	1.42
85	5	1586	G	C6-N1	-5.82	1.35	1.39
85	5	1886	A	C5-C6	-5.82	1.35	1.41
85	5	2922	G	N7-C5	-5.82	1.35	1.39
36	1	295	A	N7-C5	-5.81	1.35	1.39
36	1	1140	G	C6-N1	-5.81	1.35	1.39
36	1	1297	C	N3-C4	-5.81	1.29	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1858	A	N7-C5	-5.81	1.35	1.39
85	5	1144	U	N1-C2	-5.81	1.33	1.38
85	5	2698	G	N9-C4	-5.81	1.33	1.38
35	SM	32	SER	CA-CB	-5.81	1.44	1.52
36	1	1432	C	C4-C5	-5.81	1.38	1.43
36	1	2807	U	N1-C2	-5.81	1.33	1.38
80	6	937	C	N3-C4	-5.81	1.29	1.33
80	6	1599	C	N1-C2	5.81	1.46	1.40
85	5	668	G	C6-N1	-5.81	1.35	1.39
85	5	715	A	N7-C5	-5.81	1.35	1.39
85	5	1085	A	N7-C5	-5.81	1.35	1.39
85	5	2316	G	N9-C4	-5.81	1.33	1.38
85	5	3041	U	C4-C5	-5.81	1.38	1.43
36	1	2832	C	C2-N3	-5.81	1.31	1.35
38	4	115	C	N3-C4	-5.81	1.29	1.33
1	2	1190	C	N3-C4	-5.81	1.29	1.33
1	2	1486	A	C5-C6	-5.81	1.35	1.41
36	1	61	A	C5-C6	-5.81	1.35	1.41
36	1	131	C	N1-C2	5.81	1.46	1.40
36	1	829	U	N1-C6	-5.81	1.32	1.38
36	1	983	A	N9-C8	-5.81	1.33	1.37
36	1	2131	A	N9-C4	-5.81	1.34	1.37
36	1	2158	A	N7-C5	-5.81	1.35	1.39
36	1	3172	A	C6-N1	-5.81	1.31	1.35
37	3	3	U	N1-C2	5.81	1.43	1.38
85	5	2954	U	N3-C4	-5.81	1.33	1.38
36	1	1599	G	C5-C6	-5.81	1.36	1.42
36	1	1637	A	N7-C5	5.81	1.42	1.39
80	6	398	G	C6-N1	-5.81	1.35	1.39
80	6	1112	G	N1-C2	-5.81	1.33	1.37
85	5	582	G	C6-O6	5.81	1.29	1.24
85	5	3104	U	N1-C6	-5.81	1.32	1.38
40	l3	86	VAL	CB-CG1	-5.81	1.40	1.52
1	2	1114	A	N3-C4	-5.81	1.31	1.34
36	1	368	G	N1-C2	-5.81	1.33	1.37
36	1	406	G	C6-N1	-5.81	1.35	1.39
85	5	3106	A	C6-N6	-5.81	1.29	1.33
46	l9	65	VAL	CB-CG2	-5.81	1.40	1.52
1	2	837	U	C2-N3	5.80	1.41	1.37
36	1	427	C	N1-C2	-5.80	1.34	1.40
36	1	2960	C	N1-C6	-5.80	1.33	1.37
37	3	56	A	N9-C4	-5.80	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	N6	38	GLU	CB-CG	5.80	1.63	1.52
80	6	468	A	N9-C4	-5.80	1.34	1.37
36	1	2366	C	N1-C6	-5.80	1.33	1.37
80	6	1125	A	N7-C5	-5.80	1.35	1.39
85	5	1761	C	C2-N3	5.80	1.40	1.35
36	1	1553	U	N1-C2	-5.80	1.33	1.38
36	1	3191	G	N9-C4	-5.80	1.33	1.38
36	1	3337	G	N3-C4	-5.80	1.31	1.35
85	5	547	G	N3-C4	5.80	1.39	1.35
85	5	1143	A	C2'-C1'	-5.80	1.47	1.53
85	5	1354	G	C5-C4	5.80	1.42	1.38
85	5	1521	G	C6-N1	-5.80	1.35	1.39
85	5	2633	U	N3-C4	-5.80	1.33	1.38
85	5	3044	G	C4'-C3'	-5.80	1.46	1.52
37	7	57	G	C8-N7	-5.80	1.27	1.30
62	n6	83	ASP	CB-CG	5.80	1.64	1.51
1	2	617	U	C4-O4	-5.80	1.19	1.23
36	1	2280	A	N3-C4	-5.80	1.31	1.34
36	1	2845	A	N9-C4	5.80	1.41	1.37
36	1	2850	G	N9-C8	-5.80	1.33	1.37
38	4	41	A	C5-C6	5.80	1.46	1.41
41	L4	14	GLU	CD-OE1	5.80	1.32	1.25
85	5	967	A	C5-C4	-5.80	1.34	1.38
85	5	1307	G	C5-C6	-5.80	1.36	1.42
85	5	2376	G	N7-C5	-5.80	1.35	1.39
85	5	3057	U	N3-C4	-5.80	1.33	1.38
37	7	11	A	N7-C5	-5.80	1.35	1.39
36	1	836	A	N9-C8	-5.80	1.33	1.37
36	1	1457	U	N1-C2	-5.80	1.33	1.38
36	1	2334	U	C4-O4	-5.80	1.19	1.23
38	4	6	U	N1-C6	-5.80	1.32	1.38
85	5	1153	A	N3-C4	-5.80	1.31	1.34
85	5	1586	G	C8-N7	-5.80	1.27	1.30
85	5	2229	A	C6-N1	-5.80	1.31	1.35
36	1	49	A	C5-C4	-5.80	1.34	1.38
36	1	1155	C	N3-C4	-5.80	1.29	1.33
36	1	1221	A	N9-C4	5.80	1.41	1.37
36	1	1484	U	N1-C6	-5.80	1.32	1.38
36	1	1603	A	C6-N1	-5.80	1.31	1.35
79	Q3	42	CYS	CB-SG	5.80	1.92	1.82
80	6	1002	G	N7-C5	-5.80	1.35	1.39
85	5	36	C	N3-C4	-5.80	1.29	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	331	G	C6-N1	-5.80	1.35	1.39
85	5	974	G	C6-N1	-5.80	1.35	1.39
85	5	1439	U	C4-O4	-5.80	1.19	1.23
85	5	1507	G	C5-C4	-5.80	1.34	1.38
85	5	1549	U	N1-C2	-5.80	1.33	1.38
44	17	195	PHE	CB-CG	-5.80	1.41	1.51
1	2	1101	G	N7-C5	-5.79	1.35	1.39
36	1	1094	U	C4-O4	5.79	1.28	1.23
39	L2	25	GLY	C-O	-5.79	1.14	1.23
80	6	1388	A	N7-C5	-5.79	1.35	1.39
85	5	2282	U	N3-C4	-5.79	1.33	1.38
37	3	103	A	C5-C4	-5.79	1.34	1.38
85	5	706	A	N9-C8	-5.79	1.33	1.37
85	5	1365	G	N3-C4	-5.79	1.31	1.35
85	5	2160	G	N1-C2	-5.79	1.33	1.37
37	7	86	U	N1-C2	-5.79	1.33	1.38
36	1	427	C	N1-C6	-5.79	1.33	1.37
36	1	1203	A	N9-C8	-5.79	1.33	1.37
36	1	2858	U	C2-O2	-5.79	1.17	1.22
85	5	229	G	C2-N3	-5.79	1.28	1.32
85	5	1149	G	C6-N1	5.79	1.43	1.39
36	1	318	A	C6-N1	-5.79	1.31	1.35
36	1	608	A	N9-C4	5.79	1.41	1.37
85	5	408	A	C5-C4	-5.79	1.34	1.38
85	5	3031	G	N9-C4	-5.79	1.33	1.38
36	1	1002	A	C5-C6	-5.79	1.35	1.41
36	1	1124	U	C2-N3	-5.79	1.33	1.37
36	1	1395	G	N7-C5	-5.79	1.35	1.39
36	1	1528	G	N9-C8	-5.79	1.33	1.37
38	4	3	A	N7-C5	-5.79	1.35	1.39
38	4	14	C	C5-C6	-5.79	1.29	1.34
85	5	564	G	C5-C4	-5.79	1.34	1.38
85	5	679	U	C2-O2	-5.79	1.17	1.22
36	1	657	A	N7-C5	-5.79	1.35	1.39
80	6	1662	G	C6-O6	5.79	1.29	1.24
80	6	483	A	N3-C4	5.79	1.38	1.34
85	5	63	A	N9-C4	-5.79	1.34	1.37
85	5	208	C	C2-N3	5.79	1.40	1.35
85	5	1140	G	C6-O6	-5.79	1.19	1.24
85	5	1802	C	N1-C6	-5.79	1.33	1.37
1	2	367	A	N7-C5	-5.78	1.35	1.39
36	1	437	G	N1-C2	5.78	1.42	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1340	G	C6-O6	-5.78	1.19	1.24
36	1	1588	A	N9-C8	-5.78	1.33	1.37
85	5	363	G	C2-N3	-5.78	1.28	1.32
85	5	3323	A	N7-C5	-5.78	1.35	1.39
1	2	410	A	N9-C4	-5.78	1.34	1.37
36	1	2811	A	N7-C5	-5.78	1.35	1.39
85	5	30	G	N3-C4	-5.78	1.31	1.35
85	5	416	A	N7-C5	-5.78	1.35	1.39
85	5	2282	U	N1-C6	-5.78	1.32	1.38
37	7	17	A	N9-C4	-5.78	1.34	1.37
36	1	269	G	N3-C4	-5.78	1.31	1.35
36	1	559	A	N9-C4	-5.78	1.34	1.37
36	1	1117	G	N1-C2	-5.78	1.33	1.37
36	1	1879	A	C6-N1	-5.78	1.31	1.35
36	1	2391	G	N7-C5	-5.78	1.35	1.39
38	4	135	G	N7-C5	-5.78	1.35	1.39
80	6	1680	G	C6-O6	-5.78	1.19	1.24
85	5	2654	C	N3-C4	-5.78	1.29	1.33
38	8	83	C	N3-C4	5.78	1.38	1.33
36	1	66	A	N9-C8	-5.78	1.33	1.37
36	1	2895	G	C5-C4	-5.78	1.34	1.38
85	5	332	C	N1-C6	-5.78	1.33	1.37
36	1	52	A	N3-C4	-5.78	1.31	1.34
36	1	1351	U	N1-C2	5.78	1.43	1.38
80	6	389	G	N7-C5	-5.78	1.35	1.39
85	5	808	A	N7-C5	-5.78	1.35	1.39
85	5	2242	A	N9-C8	-5.78	1.33	1.37
85	5	2825	C	C4-C5	-5.78	1.38	1.43
36	1	1054	A	N9-C8	-5.78	1.33	1.37
36	1	1578	C	C2-O2	5.78	1.29	1.24
36	1	2778	G	C6-N1	-5.78	1.35	1.39
36	1	2927	C	C2-N3	-5.78	1.31	1.35
85	5	1171	G	N7-C5	-5.78	1.35	1.39
85	5	1314	C	C4-C5	-5.78	1.38	1.43
85	5	1351	U	P-O5'	5.78	1.65	1.59
85	5	2201	G	C5-C4	-5.78	1.34	1.38
85	5	2618	G	C5-C4	-5.78	1.34	1.38
85	5	2625	C	C4-C5	-5.78	1.38	1.43
36	1	817	A	N1-C2	-5.77	1.29	1.34
36	1	1047	A	N9-C4	-5.77	1.34	1.37
38	4	33	A	C6-N1	-5.77	1.31	1.35
85	5	810	A	N3-C4	-5.77	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1319	G	N9-C8	-5.77	1.33	1.37
36	1	364	G	C2-N3	-5.77	1.28	1.32
37	3	114	U	N1-C2	5.77	1.43	1.38
38	4	149	A	N3-C4	-5.77	1.31	1.34
85	5	630	A	N3-C4	-5.77	1.31	1.34
85	5	652	G	C5-C6	5.77	1.48	1.42
85	5	1108	U	C2-N3	-5.77	1.33	1.37
85	5	1528	G	N1-C2	-5.77	1.33	1.37
85	5	1785	U	N1-C2	-5.77	1.33	1.38
85	5	2996	U	C4-C5	5.77	1.48	1.43
37	7	95	A	N3-C4	-5.77	1.31	1.34
52	m6	4	GLU	CB-CG	-5.77	1.41	1.52
56	n0	6	GLU	CB-CG	5.77	1.63	1.52
36	1	101	G	N3-C4	-5.77	1.31	1.35
36	1	186	U	C2-N3	-5.77	1.33	1.37
36	1	287	G	C5-C4	-5.77	1.34	1.38
36	1	3153	U	C4-C5	5.77	1.48	1.43
37	3	121	U	C2-N3	5.77	1.41	1.37
85	5	942	U	C2-O2	-5.77	1.17	1.22
85	5	1020	G	N9-C8	5.77	1.41	1.37
80	6	1118	G	C6-O6	5.77	1.29	1.24
80	6	1623	C	N1-C2	-5.77	1.34	1.40
85	5	284	A	N3-C4	-5.77	1.31	1.34
85	5	880	G	C6-N1	-5.77	1.35	1.39
85	5	1446	A	C5-C6	5.77	1.46	1.41
85	5	2113	A	C6-N6	-5.77	1.29	1.33
85	5	2183	A	N3-C4	-5.77	1.31	1.34
85	5	3033	A	N9-C4	-5.77	1.34	1.37
85	5	3190	C	N1-C6	-5.77	1.33	1.37
71	O5	8	GLU	CG-CD	5.77	1.60	1.51
85	5	215	G	C5-C4	5.77	1.42	1.38
85	5	1053	A	C5-C6	-5.77	1.35	1.41
85	5	1802	C	N3-C4	-5.77	1.29	1.33
85	5	2373	A	N1-C2	-5.77	1.29	1.34
85	5	2928	C	N3-C4	-5.77	1.29	1.33
85	5	3076	C	N1-C2	-5.77	1.34	1.40
36	1	26	A	N9-C8	-5.77	1.33	1.37
36	1	757	C	N3-C4	-5.77	1.29	1.33
60	N4	22	VAL	CB-CG1	-5.77	1.40	1.52
80	6	979	A	N9-C4	5.77	1.41	1.37
1	2	186	C	N1-C2	5.76	1.46	1.40
36	1	180	C	N1-C2	5.76	1.46	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1764	U	N3-C4	5.76	1.43	1.38
36	1	3026	G	N3-C4	-5.76	1.31	1.35
36	1	3083	G	C5-C4	-5.76	1.34	1.38
85	5	101	G	C5-C6	-5.76	1.36	1.42
85	5	1367	G	C6-N1	5.76	1.43	1.39
85	5	2227	C	N1-C6	-5.76	1.33	1.37
85	5	2881	C	N3-C4	-5.76	1.29	1.33
80	6	32	U	C2-N3	5.76	1.41	1.37
36	1	1100	U	C4-O4	-5.76	1.19	1.23
36	1	2972	G	N1-C2	5.76	1.42	1.37
36	1	3178	A	N9-C8	-5.76	1.33	1.37
49	M3	6	ASN	C-N	-5.76	1.20	1.34
80	6	104	A	N7-C5	-5.76	1.35	1.39
85	5	1603	A	C6-N1	-5.76	1.31	1.35
85	5	1614	C	N1-C6	-5.76	1.33	1.37
85	5	1841	A	N9-C4	-5.76	1.34	1.37
85	5	2318	U	C2-N3	5.76	1.41	1.37
85	5	2943	G	C5-C4	-5.76	1.34	1.38
36	1	788	C	C2-N3	-5.76	1.31	1.35
36	1	1806	A	C5-C4	-5.76	1.34	1.38
36	1	2808	A	N9-C4	-5.76	1.34	1.37
85	5	1174	G	N1-C2	-5.76	1.33	1.37
85	5	1338	C	N1-C6	-5.76	1.33	1.37
38	8	13	A	C5-C6	-5.76	1.35	1.41
36	1	2837	A	C6-N1	-5.76	1.31	1.35
36	1	2920	U	N1-C2	-5.76	1.33	1.38
64	N8	90	TYR	CD1-CE1	-5.76	1.30	1.39
80	6	541	A	N9-C8	5.76	1.42	1.37
85	5	2403	G	N3-C4	-5.76	1.31	1.35
85	5	3015	G	N3-C4	-5.76	1.31	1.35
1	2	217	A	C6-N6	5.76	1.38	1.33
1	2	1729	A	C5-C6	-5.76	1.35	1.41
36	1	1140	G	N3-C4	-5.76	1.31	1.35
36	1	2373	A	N7-C5	-5.76	1.35	1.39
80	6	156	A	N3-C4	-5.76	1.31	1.34
85	5	635	G	C5-C6	-5.76	1.36	1.42
85	5	1475	A	N3-C4	-5.76	1.31	1.34
85	5	2389	C	C5-C6	-5.76	1.29	1.34
80	6	483	A	C5-C4	5.75	1.42	1.38
85	5	1927	G	N3-C4	-5.75	1.31	1.35
85	5	2953	U	C2-N3	-5.75	1.33	1.37
85	5	2968	G	N3-C4	-5.75	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	217	A	N9-C4	5.75	1.41	1.37
80	6	427	C	C2-O2	-5.75	1.19	1.24
85	5	283	G	C6-O6	-5.75	1.19	1.24
85	5	1114	U	P-O5'	-5.75	1.53	1.59
85	5	1351	U	N1-C6	5.75	1.43	1.38
85	5	2293	C	C2-N3	-5.75	1.31	1.35
85	5	2732	G	N7-C5	-5.75	1.35	1.39
85	5	3076	C	N3-C4	-5.75	1.29	1.33
36	1	920	A	C6-N1	-5.75	1.31	1.35
80	6	394	C	N1-C6	-5.75	1.33	1.37
80	6	606	A	C3'-C2'	5.75	1.59	1.52
85	5	1949	G	N1-C2	5.75	1.42	1.37
85	5	2126	A	C5-C4	-5.75	1.34	1.38
85	5	3132	C	C2-O2	-5.75	1.19	1.24
38	8	63	G	C6-N1	-5.75	1.35	1.39
36	1	437	G	N9-C8	5.75	1.41	1.37
36	1	1103	A	N9-C8	5.75	1.42	1.37
36	1	2678	A	N3-C4	-5.75	1.31	1.34
85	5	1785	U	C2-N3	-5.75	1.33	1.37
36	1	96	G	C6-O6	-5.75	1.19	1.24
36	1	547	G	N3-C4	5.75	1.39	1.35
36	1	1441	G	C5-C4	-5.75	1.34	1.38
36	1	2891	U	N1-C2	-5.75	1.33	1.38
52	M6	81	TYR	CB-CG	-5.75	1.43	1.51
80	6	1244	A	N9-C4	5.75	1.41	1.37
85	5	2797	C	N1-C6	-5.75	1.33	1.37
36	1	1750	A	N3-C4	-5.75	1.31	1.34
36	1	1850	A	N3-C4	-5.75	1.31	1.34
36	1	2313	A	N7-C5	-5.75	1.35	1.39
36	1	2369	G	C6-N1	-5.75	1.35	1.39
80	6	1214	U	N3-C4	5.75	1.43	1.38
85	5	91	G	C5-C4	-5.75	1.34	1.38
85	5	202	G	N9-C4	-5.75	1.33	1.38
85	5	1444	G	N9-C4	-5.75	1.33	1.38
85	5	2633	U	N1-C2	-5.75	1.33	1.38
85	5	3197	G	C5-C6	5.75	1.48	1.42
1	2	1583	A	N3-C4	-5.75	1.31	1.34
85	5	182	U	C2-N3	5.75	1.41	1.37
37	7	55	A	C6-N6	-5.75	1.29	1.33
52	m6	199	TYR	CD2-CE2	-5.75	1.30	1.39
36	1	871	U	N1-C6	-5.74	1.32	1.38
36	1	2605	G	N9-C8	-5.74	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2630	C	N1-C2	-5.74	1.34	1.40
36	1	2981	U	C2-O2	-5.74	1.17	1.22
80	6	426	G	N3-C4	-5.74	1.31	1.35
80	6	780	A	N9-C4	5.74	1.41	1.37
80	6	1703	C	N1-C6	5.74	1.40	1.37
85	5	813	G	N3-C4	-5.74	1.31	1.35
85	5	1213	G	N9-C8	-5.74	1.33	1.37
85	5	1667	A	C5-C6	-5.74	1.35	1.41
36	1	595	G	N1-C2	5.74	1.42	1.37
80	6	313	U	C2-N3	-5.74	1.33	1.37
80	6	627	C	N1-C6	-5.74	1.33	1.37
85	5	220	G	C6-N1	-5.74	1.35	1.39
85	5	357	A	N9-C8	-5.74	1.33	1.37
85	5	2125	A	N7-C5	-5.74	1.35	1.39
85	5	2646	C	C4-N4	-5.74	1.28	1.33
38	8	84	C	N1-C2	5.74	1.45	1.40
1	2	1631	A	N9-C4	-5.74	1.34	1.37
36	1	583	G	C2-N3	-5.74	1.28	1.32
36	1	620	U	C3'-C2'	5.74	1.59	1.52
36	1	2606	G	N9-C4	-5.74	1.33	1.38
36	1	3266	G	N9-C8	-5.74	1.33	1.37
38	4	114	G	C2-N3	-5.74	1.28	1.32
85	5	1348	U	C4-O4	5.74	1.28	1.23
85	5	1492	G	N9-C4	-5.74	1.33	1.38
40	l3	226	PHE	CE2-CZ	-5.74	1.26	1.37
36	1	514	G	N3-C4	-5.74	1.31	1.35
36	1	1131	G	C5-C4	-5.74	1.34	1.38
36	1	1166	G	C5-C6	-5.74	1.36	1.42
36	1	2285	C	N3-C4	-5.74	1.29	1.33
36	1	2637	A	N9-C4	-5.74	1.34	1.37
36	1	3296	A	N7-C5	-5.74	1.35	1.39
36	1	3386	G	N3-C4	-5.74	1.31	1.35
80	6	48	G	N7-C5	-5.74	1.35	1.39
85	5	872	U	N3-C4	-5.74	1.33	1.38
85	5	972	A	N9-C8	-5.74	1.33	1.37
1	2	1729	A	N7-C5	-5.74	1.35	1.39
36	1	1340	G	C6-N1	-5.74	1.35	1.39
36	1	1822	C	C2-O2	-5.74	1.19	1.24
36	1	2608	G	N9-C8	-5.74	1.33	1.37
38	4	102	U	N1-C6	-5.74	1.32	1.38
62	N6	127	GLU	CG-CD	5.74	1.60	1.51
85	5	35	A	C5-C6	-5.74	1.35	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	9	C	C2-O2	-5.74	1.19	1.24
1	2	1612	G	C6-N1	-5.74	1.35	1.39
36	1	1915	A	C6-N6	-5.74	1.29	1.33
36	1	2315	G	C6-N1	-5.74	1.35	1.39
36	1	2786	G	N7-C5	-5.74	1.35	1.39
36	1	2885	C	C4'-C3'	-5.74	1.46	1.52
85	5	2316	G	N1-C2	-5.74	1.33	1.37
36	1	99	A	N7-C5	-5.73	1.35	1.39
36	1	1839	A	N7-C5	-5.73	1.35	1.39
36	1	2186	U	N3-C4	-5.73	1.33	1.38
52	M6	22	VAL	CB-CG2	-5.73	1.40	1.52
85	5	657	A	C5-C4	-5.73	1.34	1.38
85	5	1193	A	N3-C4	-5.73	1.31	1.34
36	1	198	A	N3-C4	-5.73	1.31	1.34
36	1	2641	U	C4-C5	-5.73	1.38	1.43
80	6	356	G	N1-C2	-5.73	1.33	1.37
80	6	684	A	N3-C4	5.73	1.38	1.34
85	5	1601	U	N1-C2	-5.73	1.33	1.38
85	5	2839	G	C5-C6	-5.73	1.36	1.42
36	1	281	G	C2-N3	-5.73	1.28	1.32
36	1	3275	U	N3-C4	5.73	1.43	1.38
38	4	134	G	C5-C6	-5.73	1.36	1.42
85	5	965	A	C2-N3	-5.73	1.28	1.33
85	5	1168	U	C2-O2	-5.73	1.17	1.22
85	5	1273	A	N9-C4	-5.73	1.34	1.37
85	5	1576	G	C6-N1	5.73	1.43	1.39
85	5	2929	C	C2-O2	-5.73	1.19	1.24
85	5	3059	G	N7-C5	-5.73	1.35	1.39
85	5	3258	U	C4'-C3'	-5.73	1.46	1.52
36	1	1475	A	N9-C4	-5.73	1.34	1.37
36	1	2785	A	N9-C4	-5.73	1.34	1.37
36	1	2908	G	C5-C6	-5.73	1.36	1.42
80	6	1607	G	C6-N1	-5.73	1.35	1.39
85	5	1824	U	N3-C4	-5.73	1.33	1.38
36	1	3015	G	N9-C8	-5.73	1.33	1.37
36	1	3335	A	C5-C4	-5.73	1.34	1.38
80	6	630	A	N3-C4	-5.73	1.31	1.34
85	5	981	U	C2-O2	5.73	1.27	1.22
85	5	1542	G	C8-N7	5.73	1.34	1.30
85	5	3089	C	C2-O2	-5.73	1.19	1.24
36	1	2873	U	N1-C6	-5.73	1.32	1.38
36	1	2920	U	C5-C6	-5.73	1.28	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	950	G	N9-C8	-5.73	1.33	1.37
38	8	137	C	C2-N3	-5.73	1.31	1.35
36	1	362	U	O3'-P	-5.72	1.54	1.61
36	1	2356	A	C6-N1	-5.72	1.31	1.35
80	6	399	A	N9-C4	-5.72	1.34	1.37
85	5	585	A	N7-C5	-5.72	1.35	1.39
85	5	896	A	C6-N1	-5.72	1.31	1.35
85	5	1725	C	N1-C6	-5.72	1.33	1.37
36	1	271	C	N1-C6	-5.72	1.33	1.37
36	1	350	C	C4-C5	-5.72	1.38	1.43
36	1	404	G	N3-C4	-5.72	1.31	1.35
36	1	999	G	N9-C4	5.72	1.42	1.38
36	1	2876	C	N1-C6	-5.72	1.33	1.37
80	6	1200	G	N1-C2	5.72	1.42	1.37
84	sM	78	ASP	CA-C	5.72	1.67	1.52
85	5	1053	A	N9-C4	-5.72	1.34	1.37
85	5	2375	G	C5-C6	-5.72	1.36	1.42
85	5	2523	A	C5-C6	5.72	1.46	1.41
85	5	2790	A	C5-C6	-5.72	1.35	1.41
85	5	39	A	C6-N6	-5.72	1.29	1.33
85	5	659	G	N3-C4	-5.72	1.31	1.35
1	2	312	A	C6-N1	-5.72	1.31	1.35
36	1	364	G	C5-C4	-5.72	1.34	1.38
36	1	2321	A	C6-N1	-5.72	1.31	1.35
36	1	2982	A	N9-C8	-5.72	1.33	1.37
38	4	145	U	C2-N3	-5.72	1.33	1.37
85	5	780	A	N3-C4	-5.72	1.31	1.34
36	1	798	G	N3-C4	-5.72	1.31	1.35
36	1	1145	G	N9-C8	-5.72	1.33	1.37
85	5	635	G	N9-C4	-5.72	1.33	1.38
85	5	3033	A	C5-C4	-5.72	1.34	1.38
85	5	3091	A	N1-C2	-5.72	1.29	1.34
1	2	1325	C	N1-C6	5.72	1.40	1.37
36	1	2946	A	C5-C6	-5.72	1.35	1.41
38	4	26	U	C4-C5	-5.72	1.38	1.43
80	6	634	G	C5-C4	-5.72	1.34	1.38
80	6	1053	G	N7-C5	-5.72	1.35	1.39
80	6	1371	A	N9-C4	5.72	1.41	1.37
85	5	2609	A	N3-C4	-5.72	1.31	1.34
38	8	94	C	C2-N3	-5.72	1.31	1.35
36	1	53	G	N3-C4	-5.71	1.31	1.35
36	1	80	G	N9-C4	-5.71	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	386	A	N7-C5	-5.71	1.35	1.39
36	1	578	A	C6-N1	-5.71	1.31	1.35
36	1	701	G	C5-C4	-5.71	1.34	1.38
36	1	1114	U	N1-C2	-5.71	1.33	1.38
36	1	1381	A	N3-C4	-5.71	1.31	1.34
36	1	2216	G	N7-C5	-5.71	1.35	1.39
36	1	3106	A	C6-N6	-5.71	1.29	1.33
80	6	1738	U	N1-C6	-5.71	1.32	1.38
8	s6	97	VAL	CB-CG2	-5.71	1.40	1.52
85	5	2389	C	C2-O2	-5.71	1.19	1.24
85	5	2817	A	N1-C2	-5.71	1.29	1.34
36	1	1414	G	N7-C5	-5.71	1.35	1.39
36	1	1754	G	C6-N1	5.71	1.43	1.39
36	1	1760	A	N9-C8	5.71	1.42	1.37
64	N8	46	ASP	CB-CG	5.71	1.63	1.51
80	6	190	C	N1-C6	5.71	1.40	1.37
80	6	1762	A	C5-C6	-5.71	1.35	1.41
85	5	814	U	N3-C4	-5.71	1.33	1.38
36	1	426	G	C5-C4	-5.71	1.34	1.38
80	6	143	G	N7-C5	-5.71	1.35	1.39
85	5	1019	G	N7-C5	5.71	1.42	1.39
85	5	2913	C	C4-C5	-5.71	1.38	1.43
36	1	1170	A	N9-C8	-5.71	1.33	1.37
85	5	342	A	N1-C2	-5.71	1.29	1.34
85	5	1621	A	N3-C4	5.71	1.38	1.34
36	1	143	G	C6-N1	-5.71	1.35	1.39
36	1	646	A	N7-C5	-5.71	1.35	1.39
36	1	931	C	C2-N3	-5.71	1.31	1.35
36	1	1093	A	C5-C4	5.71	1.42	1.38
36	1	2244	A	C5-C4	-5.71	1.34	1.38
1	2	1468	C	N1-C6	-5.71	1.33	1.37
36	1	2941	A	C5-C6	-5.71	1.35	1.41
36	1	2944	U	N3-C4	-5.71	1.33	1.38
36	1	3093	C	N1-C6	-5.71	1.33	1.37
38	4	96	A	C6-N1	-5.71	1.31	1.35
80	6	1143	A	C5-C6	5.71	1.46	1.41
85	5	1395	G	N3-C4	-5.71	1.31	1.35
1	2	896	G	C5-C4	5.71	1.42	1.38
1	2	1748	A	N3-C4	-5.71	1.31	1.34
36	1	494	G	C6-N1	5.71	1.43	1.39
36	1	882	A	P-OP2	-5.71	1.39	1.49
80	6	438	A	N7-C5	-5.71	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1444	G	C8-N7	-5.71	1.27	1.30
85	5	2190	U	C4'-C3'	-5.71	1.46	1.52
36	1	214	G	N3-C4	-5.70	1.31	1.35
36	1	576	C	C2-O2	-5.70	1.19	1.24
36	1	828	A	N7-C5	-5.70	1.35	1.39
36	1	3324	C	N1-C6	-5.70	1.33	1.37
80	6	314	C	N1-C6	-5.70	1.33	1.37
85	5	35	A	N3-C4	-5.70	1.31	1.34
85	5	443	G	N7-C5	5.70	1.42	1.39
85	5	575	G	N3-C4	-5.70	1.31	1.35
85	5	964	G	P-OP1	5.70	1.58	1.49
38	8	138	A	C6-N1	-5.70	1.31	1.35
36	1	1379	G	C6-N1	-5.70	1.35	1.39
36	1	1819	U	C2-N3	5.70	1.41	1.37
36	1	2608	G	N9-C4	-5.70	1.33	1.38
85	5	2996	U	N1-C6	5.70	1.43	1.38
1	2	1593	G	C5-C4	-5.70	1.34	1.38
36	1	16	A	N3-C4	-5.70	1.31	1.34
36	1	735	A	C6-N1	5.70	1.39	1.35
36	1	826	G	N7-C5	-5.70	1.35	1.39
80	6	398	G	C5-C4	-5.70	1.34	1.38
85	5	152	U	C4-O4	5.70	1.28	1.23
85	5	908	G	C5-C4	-5.70	1.34	1.38
85	5	923	C	N1-C6	-5.70	1.33	1.37
85	5	1865	A	N9-C8	-5.70	1.33	1.37
85	5	2131	A	C5-C4	-5.70	1.34	1.38
85	5	2383	C	N3-C4	-5.70	1.29	1.33
53	m7	119	VAL	CB-CG1	-5.70	1.40	1.52
36	1	420	G	N3-C4	-5.70	1.31	1.35
36	1	535	G	C2-N3	-5.70	1.28	1.32
36	1	1104	G	N9-C4	-5.70	1.33	1.38
37	3	94	C	N1-C6	-5.70	1.33	1.37
85	5	953	G	N7-C5	-5.70	1.35	1.39
57	n1	36	VAL	CB-CG1	-5.70	1.40	1.52
36	1	874	U	C2-N3	-5.70	1.33	1.37
85	5	895	A	C5-C6	-5.70	1.35	1.41
85	5	1878	G	P-OP1	5.70	1.58	1.49
85	5	2737	C	N1-C2	-5.70	1.34	1.40
67	o1	110	GLU	CG-CD	5.70	1.60	1.51
1	2	1298	U	C2-N3	-5.70	1.33	1.37
36	1	2678	A	N9-C4	-5.70	1.34	1.37
85	5	572	A	C5-C4	-5.70	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	641	C	C2-O2	5.70	1.29	1.24
85	5	2150	G	C5-C4	-5.70	1.34	1.38
85	5	2617	U	N1-C6	-5.70	1.32	1.38
36	1	1590	G	C6-N1	-5.69	1.35	1.39
36	1	1663	C	N1-C6	-5.69	1.33	1.37
36	1	2535	A	N9-C4	5.69	1.41	1.37
36	1	2986	U	N3-C4	-5.69	1.33	1.38
85	5	796	U	C2-N3	-5.69	1.33	1.37
85	5	1669	C	N1-C2	-5.69	1.34	1.40
36	1	607	A	N3-C4	-5.69	1.31	1.34
36	1	677	A	N7-C5	-5.69	1.35	1.39
36	1	1178	G	C5-C4	-5.69	1.34	1.38
36	1	1512	U	N1-C6	-5.69	1.32	1.38
36	1	2748	A	N7-C5	-5.69	1.35	1.39
36	1	2786	G	C5-C4	-5.69	1.34	1.38
52	M6	54	TYR	CE2-CZ	-5.69	1.31	1.38
80	6	1571	C	P-OP2	5.69	1.58	1.49
85	5	443	G	C6-N1	5.69	1.43	1.39
85	5	1352	A	C8-N7	5.69	1.35	1.31
85	5	1536	G	N3-C4	-5.69	1.31	1.35
85	5	1582	C	N1-C2	5.69	1.45	1.40
85	5	2647	A	N9-C4	-5.69	1.34	1.37
85	5	2965	U	C4-O4	-5.69	1.19	1.23
85	5	3112	G	C5-C6	-5.69	1.36	1.42
1	2	1188	C	N3-C4	-5.69	1.29	1.33
1	2	1431	G	C5-C4	-5.69	1.34	1.38
36	1	346	C	N3-C4	-5.69	1.29	1.33
36	1	815	G	N9-C8	-5.69	1.33	1.37
85	5	690	A	C6-N1	-5.69	1.31	1.35
85	5	1377	G	N7-C5	-5.69	1.35	1.39
85	5	2531	C	N3-C4	5.69	1.38	1.33
85	5	2705	A	C5-C6	-5.69	1.35	1.41
85	5	2974	U	N1-C2	-5.69	1.33	1.38
36	1	1723	A	C5-C6	-5.69	1.35	1.41
38	4	116	G	N9-C8	-5.69	1.33	1.37
69	O3	52	VAL	CB-CG1	-5.69	1.41	1.52
42	l5	263	GLU	CB-CG	-5.69	1.41	1.52
36	1	712	G	N3-C4	-5.69	1.31	1.35
36	1	823	C	C2-O2	-5.69	1.19	1.24
36	1	2373	A	C6-N1	-5.69	1.31	1.35
85	5	1333	C	C2-O2	-5.69	1.19	1.24
85	5	2663	G	N7-C5	-5.69	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	645	C	N1-C6	5.69	1.40	1.37
36	1	2130	G	N1-C2	-5.69	1.33	1.37
36	1	2237	C	C2-N3	-5.69	1.31	1.35
80	6	622	A	N3-C4	-5.69	1.31	1.34
85	5	3375	A	N3-C4	-5.69	1.31	1.34
36	1	1676	A	N9-C8	5.68	1.42	1.37
36	1	2886	U	N1-C6	-5.68	1.32	1.38
36	1	3337	G	C6-N1	-5.68	1.35	1.39
38	4	152	G	C6-O6	5.68	1.29	1.24
80	6	863	A	C5-C6	-5.68	1.35	1.41
80	6	1652	C	N1-C6	-5.68	1.33	1.37
85	5	328	U	C2-N3	-5.68	1.33	1.37
85	5	373	A	N3-C4	-5.68	1.31	1.34
85	5	2150	G	N7-C5	-5.68	1.35	1.39
37	7	7	G	N9-C8	-5.68	1.33	1.37
37	7	65	G	C5-C6	-5.68	1.36	1.42
36	1	787	G	C5-C6	-5.68	1.36	1.42
80	6	1652	C	C4-C5	-5.68	1.38	1.43
85	5	396	A	N7-C5	-5.68	1.35	1.39
85	5	645	A	C6-N1	-5.68	1.31	1.35
85	5	822	G	N9-C4	-5.68	1.33	1.38
85	5	2144	A	N9-C4	5.68	1.41	1.37
38	8	11	C	N1-C2	-5.68	1.34	1.40
1	2	279	G	N3-C4	5.68	1.39	1.35
36	1	1450	G	C5-C6	-5.68	1.36	1.42
36	1	2161	G	C6-O6	-5.68	1.19	1.24
85	5	2294	U	C2-N3	-5.68	1.33	1.37
56	n0	131	LYS	CD-CE	5.68	1.65	1.51
36	1	95	A	C5-C4	-5.68	1.34	1.38
36	1	661	G	C2-N2	-5.68	1.28	1.34
36	1	1575	A	N9-C4	5.68	1.41	1.37
36	1	2416	U	C2-N3	-5.68	1.33	1.37
85	5	532	A	N7-C5	-5.68	1.35	1.39
85	5	907	G	C6-O6	-5.68	1.19	1.24
85	5	917	A	P-OP2	5.68	1.58	1.49
85	5	1772	U	N3-C4	5.68	1.43	1.38
85	5	2884	C	C4-C5	-5.68	1.38	1.43
85	5	2946	A	C5-C6	-5.68	1.35	1.41
36	1	2631	U	C2-N3	-5.68	1.33	1.37
36	1	2979	U	P-OP2	-5.68	1.39	1.49
85	5	1018	G	N3-C4	5.68	1.39	1.35
38	8	65	A	N9-C4	5.68	1.41	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1789	A	N3-C4	5.68	1.38	1.34
36	1	45	A	C6-N1	-5.68	1.31	1.35
36	1	197	G	C6-O6	-5.68	1.19	1.24
36	1	2121	G	C5-C6	5.68	1.48	1.42
36	1	2199	G	N9-C4	-5.68	1.33	1.38
36	1	2717	U	N1-C6	-5.68	1.32	1.38
85	5	1150	A	C5-C4	-5.68	1.34	1.38
85	5	2100	A	N3-C4	5.68	1.38	1.34
85	5	2362	C	C2-N3	-5.68	1.31	1.35
85	5	2680	A	N3-C4	-5.68	1.31	1.34
85	5	2700	G	N9-C4	-5.68	1.33	1.38
54	m8	175	ALA	C-O	5.68	1.34	1.23
1	2	1043	U	N1-C2	5.67	1.43	1.38
36	1	728	G	C5-C4	-5.67	1.34	1.38
36	1	1734	G	C5-C4	-5.67	1.34	1.38
36	1	2155	G	N9-C8	-5.67	1.33	1.37
36	1	2623	G	C6-N1	-5.67	1.35	1.39
36	1	2719	U	N3-C4	-5.67	1.33	1.38
85	5	1537	A	N7-C5	-5.67	1.35	1.39
85	5	3089	C	N1-C6	-5.67	1.33	1.37
36	1	2561	A	N9-C4	-5.67	1.34	1.37
38	4	144	G	C5-C6	5.67	1.48	1.42
85	5	1098	A	N7-C5	-5.67	1.35	1.39
85	5	1480	G	C6-N1	5.67	1.43	1.39
85	5	2321	A	N7-C5	-5.67	1.35	1.39
85	5	3275	U	P-O5'	5.67	1.65	1.59
36	1	717	C	N3-C4	-5.67	1.29	1.33
36	1	1865	A	C5-C6	-5.67	1.35	1.41
80	6	1305	U	C2-O2	5.67	1.27	1.22
85	5	130	A	N7-C5	5.67	1.42	1.39
85	5	3331	U	C4-O4	-5.67	1.19	1.23
36	1	70	A	N9-C8	-5.67	1.33	1.37
36	1	1180	A	P-O5'	-5.67	1.54	1.59
36	1	2641	U	N1-C2	-5.67	1.33	1.38
85	5	1652	G	N3-C4	-5.67	1.31	1.35
1	2	16	G	N1-C2	-5.67	1.33	1.37
1	2	545	A	N9-C4	-5.67	1.34	1.37
36	1	661	G	N9-C4	-5.67	1.33	1.38
36	1	2269	U	C4-O4	5.67	1.28	1.23
85	5	1316	C	C2'-C1'	5.67	1.59	1.53
85	5	1763	U	C2-N3	5.67	1.41	1.37
85	5	2305	G	N1-C2	-5.67	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2313	A	N9-C8	-5.67	1.33	1.37
85	5	2345	A	N3-C4	-5.67	1.31	1.34
85	5	2549	G	C6-N1	5.67	1.43	1.39
85	5	3103	A	C5-C4	-5.67	1.34	1.38
85	5	3136	G	N3-C4	-5.67	1.31	1.35
38	8	73	U	N1-C2	5.67	1.43	1.38
38	8	85	G	N9-C8	5.67	1.41	1.37
36	1	1800	A	C5-C4	-5.67	1.34	1.38
36	1	2244	A	C6-N1	-5.67	1.31	1.35
36	1	2522	G	N3-C4	5.67	1.39	1.35
36	1	2761	G	N3-C4	-5.67	1.31	1.35
36	1	2943	G	N9-C8	-5.67	1.33	1.37
85	5	2605	G	C5-C6	-5.67	1.36	1.42
36	1	2139	A	N9-C8	-5.67	1.33	1.37
36	1	2791	G	N3-C4	-5.67	1.31	1.35
36	1	3193	C	C2-O2	-5.67	1.19	1.24
24	d2	89	TRP	CB-CG	-5.67	1.40	1.50
85	5	2686	A	N3-C4	-5.67	1.31	1.34
36	1	778	U	C3'-C2'	-5.66	1.46	1.52
36	1	2134	G	C8-N7	-5.66	1.27	1.30
36	1	2872	A	C5-C6	-5.66	1.35	1.41
85	5	291	C	N3-C4	-5.66	1.29	1.33
85	5	634	C	C2-O2	-5.66	1.19	1.24
85	5	1126	G	C2-N3	-5.66	1.28	1.32
85	5	1160	C	C4-C5	5.66	1.47	1.43
85	5	1411	C	C4-C5	-5.66	1.38	1.43
85	5	3297	U	N1-C2	-5.66	1.33	1.38
85	5	3365	U	N1-C2	-5.66	1.33	1.38
1	2	997	G	N7-C5	-5.66	1.35	1.39
36	1	305	U	C2-O2	-5.66	1.17	1.22
36	1	371	G	N3-C4	-5.66	1.31	1.35
62	N6	38	GLU	CG-CD	5.66	1.60	1.51
85	5	45	A	N9-C4	-5.66	1.34	1.37
85	5	114	A	C5-C6	-5.66	1.35	1.41
85	5	995	U	N1-C2	-5.66	1.33	1.38
85	5	1302	A	N9-C8	-5.66	1.33	1.37
85	5	2994	A	C5-C4	-5.66	1.34	1.38
85	5	3086	A	N7-C5	-5.66	1.35	1.39
36	1	210	U	C2-N3	-5.66	1.33	1.37
36	1	368	G	N9-C8	-5.66	1.33	1.37
36	1	917	A	N1-C2	-5.66	1.29	1.34
36	1	3376	A	N3-C4	-5.66	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	269	G	C5-C4	-5.66	1.34	1.38
80	6	1636	C	N3-C4	-5.66	1.29	1.33
80	6	1734	U	C4-C5	-5.66	1.38	1.43
85	5	2124	G	N1-C2	5.66	1.42	1.37
37	7	49	G	C6-O6	5.66	1.29	1.24
85	5	506	U	N3-C4	-5.66	1.33	1.38
85	5	2312	A	N7-C5	-5.66	1.35	1.39
85	5	2643	A	P-OP2	-5.66	1.39	1.49
36	1	569	A	N3-C4	-5.66	1.31	1.34
36	1	906	A	N9-C8	-5.66	1.33	1.37
36	1	1420	C	N1-C2	-5.66	1.34	1.40
38	4	124	G	N3-C4	-5.66	1.31	1.35
52	M6	80	PHE	CB-CG	-5.66	1.41	1.51
80	6	336	G	P-OP1	5.66	1.58	1.49
80	6	891	A	N3-C4	-5.66	1.31	1.34
80	6	1714	A	N9-C4	5.66	1.41	1.37
85	5	38	U	P-OP2	-5.66	1.39	1.49
85	5	282	G	N7-C5	-5.66	1.35	1.39
85	5	639	G	N7-C5	-5.66	1.35	1.39
85	5	713	U	N1-C2	-5.66	1.33	1.38
85	5	880	G	N3-C4	-5.66	1.31	1.35
85	5	1108	U	N1-C6	-5.66	1.32	1.38
85	5	1189	C	C2-O2	-5.66	1.19	1.24
85	5	2424	A	C5-C4	-5.66	1.34	1.38
85	5	2788	C	N1-C2	-5.66	1.34	1.40
85	5	3369	G	C5-C4	-5.66	1.34	1.38
38	8	1	A	C5-C4	-5.66	1.34	1.38
1	2	47	A	C6-N1	-5.65	1.31	1.35
85	5	810	A	N7-C5	-5.65	1.35	1.39
85	5	2148	U	N1-C6	-5.65	1.32	1.38
85	5	2731	U	C2-O2	-5.65	1.17	1.22
85	5	3310	A	N1-C2	-5.65	1.29	1.34
1	2	1229	C	N3-C4	-5.65	1.29	1.33
47	M0	17	TYR	CD2-CE2	-5.65	1.30	1.39
80	6	336	G	N9-C8	-5.65	1.33	1.37
80	6	1108	G	C5-C6	-5.65	1.36	1.42
80	6	1702	A	C5-C4	5.65	1.42	1.38
85	5	500	C	N1-C2	-5.65	1.34	1.40
85	5	2507	C	C2-O2	5.65	1.29	1.24
85	5	2547	A	N3-C4	5.65	1.38	1.34
51	m5	75	VAL	CB-CG1	-5.65	1.41	1.52
1	2	1736	A	N7-C5	-5.65	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	284	A	N3-C4	-5.65	1.31	1.34
36	1	791	A	N3-C4	-5.65	1.31	1.34
36	1	933	A	C6-N1	-5.65	1.31	1.35
36	1	2832	C	N1-C2	-5.65	1.34	1.40
80	6	1798	U	N1-C2	5.65	1.43	1.38
85	5	1426	C	N1-C6	-5.65	1.33	1.37
85	5	2620	G	C2-N3	-5.65	1.28	1.32
85	5	2996	U	N1-C2	5.65	1.43	1.38
85	5	3106	A	C5-C6	-5.65	1.35	1.41
36	1	1537	A	N7-C5	-5.65	1.35	1.39
85	5	2347	U	N1-C6	-5.65	1.32	1.38
36	1	67	A	N9-C4	-5.65	1.34	1.37
36	1	911	C	C2-N3	-5.65	1.31	1.35
36	1	1138	U	C2-O2	-5.65	1.17	1.22
36	1	1395	G	N9-C4	-5.65	1.33	1.38
38	4	58	G	C6-N1	-5.65	1.35	1.39
38	4	135	G	N9-C4	-5.65	1.33	1.38
85	5	2912	G	N7-C5	-5.65	1.35	1.39
38	8	78	G	N7-C5	-5.65	1.35	1.39
54	m8	153	PHE	CD1-CE1	-5.65	1.27	1.39
85	5	1869	C	N1-C6	-5.65	1.33	1.37
85	5	2706	G	N3-C4	-5.65	1.31	1.35
85	5	3303	G	C6-O6	-5.65	1.19	1.24
36	1	2306	C	N1-C6	5.64	1.40	1.37
36	1	2376	G	N9-C8	5.64	1.41	1.37
38	4	1	A	N7-C5	-5.64	1.35	1.39
85	5	369	A	N3-C4	-5.64	1.31	1.34
85	5	701	G	N7-C5	5.64	1.42	1.39
85	5	2850	G	N7-C5	-5.64	1.35	1.39
85	5	2858	U	N1-C2	-5.64	1.33	1.38
36	1	1406	A	N1-C2	-5.64	1.29	1.34
36	1	1617	G	C6-N1	5.64	1.43	1.39
80	6	1107	G	C6-N1	-5.64	1.35	1.39
85	5	350	C	N1-C2	-5.64	1.34	1.40
85	5	643	U	C4-C5	-5.64	1.38	1.43
85	5	1172	G	C5-C4	-5.64	1.34	1.38
85	5	2247	G	C6-N1	-5.64	1.35	1.39
85	5	2831	G	N3-C4	-5.64	1.31	1.35
85	5	2932	U	C2-N3	-5.64	1.33	1.37
85	5	2993	G	C5-C4	-5.64	1.34	1.38
37	7	10	C	C2-O2	-5.64	1.19	1.24
37	7	75	G	N1-C2	5.64	1.42	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	833	G	N9-C4	-5.64	1.33	1.38
36	1	2908	G	C6-O6	-5.64	1.19	1.24
85	5	1094	U	N3-C4	5.64	1.43	1.38
85	5	2782	U	C2-N3	-5.64	1.33	1.37
85	5	3113	A	N3-C4	-5.64	1.31	1.34
36	1	693	A	N3-C4	-5.64	1.31	1.34
36	1	1119	C	C5-C6	-5.64	1.29	1.34
36	1	1426	C	C2-O2	-5.64	1.19	1.24
36	1	1431	G	N9-C8	-5.64	1.33	1.37
36	1	3273	A	N9-C8	-5.64	1.33	1.37
80	6	309	C	N1-C6	-5.64	1.33	1.37
80	6	522	U	C2-N3	-5.64	1.33	1.37
85	5	753	C	C5-C6	-5.64	1.29	1.34
85	5	2598	G	N9-C8	-5.64	1.33	1.37
85	5	3030	G	N3-C4	-5.64	1.31	1.35
37	7	115	G	C5-C6	-5.64	1.36	1.42
36	1	578	A	N9-C4	-5.64	1.34	1.37
36	1	1171	G	C5-C4	-5.64	1.34	1.38
36	1	1454	A	C6-N1	-5.64	1.31	1.35
85	5	2305	G	C6-O6	-5.64	1.19	1.24
85	5	2926	A	C6-N1	-5.64	1.31	1.35
36	1	712	G	N9-C8	-5.64	1.33	1.37
36	1	753	C	N1-C2	-5.64	1.34	1.40
36	1	813	G	C6-O6	5.64	1.29	1.24
36	1	2855	U	N1-C2	-5.64	1.33	1.38
85	5	949	C	N1-C6	-5.64	1.33	1.37
85	5	2921	U	N1-C6	-5.64	1.32	1.38
1	2	847	U	N1-C2	-5.63	1.33	1.38
36	1	370	U	N3-C4	-5.63	1.33	1.38
36	1	658	G	C6-N1	-5.63	1.35	1.39
36	1	1444	G	N7-C5	-5.63	1.35	1.39
85	5	1709	C	N1-C6	-5.63	1.33	1.37
85	5	2096	A	N9-C8	5.63	1.42	1.37
36	1	213	A	C6-N1	-5.63	1.31	1.35
36	1	3358	U	N1-C2	5.63	1.43	1.38
80	6	179	A	N9-C4	5.63	1.41	1.37
85	5	2717	U	N1-C6	-5.63	1.32	1.38
1	2	1485	G	C6-N1	-5.63	1.35	1.39
36	1	337	G	N7-C5	-5.63	1.35	1.39
36	1	361	A	N9-C8	-5.63	1.33	1.37
36	1	1029	G	C6-N1	5.63	1.43	1.39
36	1	2299	A	C5-C4	-5.63	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2346	C	N1-C6	-5.63	1.33	1.37
80	6	51	A	N3-C4	-5.63	1.31	1.34
80	6	1399	C	N3-C4	5.63	1.37	1.33
85	5	906	A	N3-C4	-5.63	1.31	1.34
85	5	1190	A	C5-C4	-5.63	1.34	1.38
85	5	1594	A	N7-C5	-5.63	1.35	1.39
85	5	1891	A	N9-C8	-5.63	1.33	1.37
85	5	2620	G	N9-C4	-5.63	1.33	1.38
85	5	3103	A	C6-N1	-5.63	1.31	1.35
1	2	921	G	C5-C4	-5.63	1.34	1.38
36	1	1886	A	N7-C5	-5.63	1.35	1.39
36	1	2147	A	C6-N1	-5.63	1.31	1.35
36	1	2556	C	N1-C2	5.63	1.45	1.40
80	6	1734	U	N1-C6	-5.63	1.32	1.38
85	5	397	A	C6-N1	-5.63	1.31	1.35
1	2	1064	A	N7-C5	5.63	1.42	1.39
36	1	60	A	N7-C5	-5.63	1.35	1.39
36	1	194	U	C2-N3	5.63	1.41	1.37
36	1	3004	C	C4'-C3'	-5.63	1.47	1.52
36	1	3040	A	N3-C4	-5.63	1.31	1.34
36	1	3210	A	C6-N6	-5.63	1.29	1.33
36	1	3267	A	N7-C5	-5.63	1.35	1.39
38	4	67	U	N1-C6	-5.63	1.32	1.38
85	5	91	G	N1-C2	-5.63	1.33	1.37
85	5	684	G	N9-C4	-5.63	1.33	1.38
85	5	2382	G	N9-C4	-5.63	1.33	1.38
85	5	2523	A	N3-C4	5.63	1.38	1.34
85	5	2803	A	N9-C4	-5.63	1.34	1.37
37	7	29	C	N3-C4	-5.63	1.30	1.33
36	1	2619	G	C5-C6	-5.63	1.36	1.42
36	1	2939	G	N1-C2	-5.63	1.33	1.37
80	6	467	G	N9-C8	-5.63	1.33	1.37
80	6	565	C	C4-C5	5.63	1.47	1.43
85	5	947	G	C6-N1	-5.63	1.35	1.39
85	5	1005	G	N9-C4	-5.63	1.33	1.38
85	5	1389	G	N9-C8	-5.63	1.33	1.37
85	5	1896	A	N7-C5	-5.63	1.35	1.39
85	5	2124	G	C5-C6	5.63	1.48	1.42
85	5	2790	A	N3-C4	-5.63	1.31	1.34
85	5	2879	C	N3-C4	-5.63	1.30	1.33
37	7	9	C	N3-C4	-5.63	1.30	1.33
38	8	155	A	C5-C6	5.63	1.46	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1103	U	N3-C4	-5.62	1.33	1.38
1	2	1005	C	N3-C4	-5.62	1.30	1.33
36	1	367	A	N9-C4	-5.62	1.34	1.37
36	1	1851	G	N3-C4	-5.62	1.31	1.35
36	1	3067	C	N1-C6	-5.62	1.33	1.37
80	6	269	G	C6-N1	-5.62	1.35	1.39
85	5	657	A	C8-N7	-5.62	1.27	1.31
85	5	1065	A	C5-C4	-5.62	1.34	1.38
85	5	1415	U	N1-C6	-5.62	1.32	1.38
39	l2	165	VAL	CB-CG1	-5.62	1.41	1.52
1	2	515	A	C5-C4	-5.62	1.34	1.38
36	1	222	A	C6-N1	-5.62	1.31	1.35
36	1	939	U	C2-O2	-5.62	1.17	1.22
36	1	2290	C	N1-C6	-5.62	1.33	1.37
36	1	2375	G	C6-N1	-5.62	1.35	1.39
36	1	2445	A	C5-C6	5.62	1.46	1.41
38	4	98	U	C2-O2	-5.62	1.17	1.22
80	6	674	C	N1-C6	5.62	1.40	1.37
80	6	1663	G	C5-C6	-5.62	1.36	1.42
80	6	1747	G	C6-N1	-5.62	1.35	1.39
80	6	1771	U	N1-C2	-5.62	1.33	1.38
85	5	518	G	N1-C2	5.62	1.42	1.37
85	5	2208	A	N1-C2	5.62	1.39	1.34
85	5	2342	U	N1-C2	-5.62	1.33	1.38
36	1	2680	A	N3-C4	-5.62	1.31	1.34
38	4	31	G	N7-C5	-5.62	1.35	1.39
85	5	943	U	C2-O2	-5.62	1.17	1.22
85	5	1055	A	N9-C8	-5.62	1.33	1.37
85	5	1113	G	N9-C8	-5.62	1.33	1.37
85	5	1546	A	C5-C6	-5.62	1.35	1.41
85	5	2947	G	N7-C5	-5.62	1.35	1.39
1	2	1227	A	N9-C4	5.62	1.41	1.37
36	1	3200	G	N9-C8	-5.62	1.33	1.37
85	5	1613	A	N7-C5	-5.62	1.35	1.39
85	5	2351	U	C2-N3	-5.62	1.33	1.37
85	5	2560	C	N3-C4	5.62	1.37	1.33
85	5	2918	G	N9-C8	-5.62	1.33	1.37
85	5	3105	U	N1-C6	-5.62	1.32	1.38
64	n8	5	PHE	CD1-CE1	-5.62	1.28	1.39
80	6	684	A	N9-C4	5.62	1.41	1.37
85	5	2289	U	C2-N3	-5.62	1.33	1.37
85	5	2812	C	C2-N3	5.62	1.40	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2950	G	C6-N1	-5.62	1.35	1.39
1	2	99	C	N1-C6	-5.62	1.33	1.37
36	1	602	A	C6-N6	5.62	1.38	1.33
36	1	2097	U	C2-O2	5.62	1.27	1.22
36	1	2990	G	N3-C4	-5.62	1.31	1.35
80	6	87	C	N1-C6	-5.62	1.33	1.37
80	6	1702	A	C6-N1	5.62	1.39	1.35
85	5	508	U	C5-C6	5.62	1.39	1.34
85	5	976	U	C2-O2	-5.62	1.17	1.22
85	5	2107	A	C5-C4	-5.62	1.34	1.38
85	5	2756	C	C2-N3	-5.62	1.31	1.35
41	14	126	ILE	CB-CG2	-5.62	1.35	1.52
1	2	1764	A	N3-C4	-5.61	1.31	1.34
36	1	2106	A	N7-C5	5.61	1.42	1.39
80	6	353	A	C5-C4	-5.61	1.34	1.38
85	5	660	A	N9-C8	-5.61	1.33	1.37
85	5	1130	A	N9-C8	-5.61	1.33	1.37
85	5	1453	A	N9-C4	-5.61	1.34	1.37
85	5	2667	A	C5-C4	-5.61	1.34	1.38
85	5	2674	A	N9-C4	-5.61	1.34	1.37
36	1	61	A	C5-C4	-5.61	1.34	1.38
36	1	600	G	C5-C6	-5.61	1.36	1.42
36	1	889	U	C2-N3	-5.61	1.33	1.37
36	1	1093	A	C5-C6	5.61	1.46	1.41
36	1	2726	C	C2-O2	-5.61	1.19	1.24
36	1	3111	U	N1-C2	-5.61	1.33	1.38
36	1	1137	C	N1-C2	-5.61	1.34	1.40
36	1	2180	G	N9-C4	-5.61	1.33	1.38
36	1	2379	U	N1-C2	-5.61	1.33	1.38
85	5	412	G	N7-C5	-5.61	1.35	1.39
85	5	1431	G	N7-C5	-5.61	1.35	1.39
85	5	2529	A	N9-C4	-5.61	1.34	1.37
85	5	2629	U	N1-C2	-5.61	1.33	1.38
85	5	950	G	C8-N7	-5.61	1.27	1.30
85	5	1337	A	N3-C4	-5.61	1.31	1.34
85	5	1398	U	N1-C2	-5.61	1.33	1.38
85	5	2522	G	N7-C5	5.61	1.42	1.39
85	5	2858	U	C4-C5	-5.61	1.38	1.43
1	2	72	A	N9-C8	5.61	1.42	1.37
36	1	522	A	N9-C8	-5.61	1.33	1.37
36	1	895	A	C5-C6	-5.61	1.36	1.41
36	1	1180	A	N3-C4	-5.61	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2213	A	N3-C4	-5.61	1.31	1.34
85	5	500	C	N1-C6	-5.61	1.33	1.37
85	5	2355	G	C2-N2	-5.61	1.28	1.34
37	7	91	G	C6-N1	-5.61	1.35	1.39
1	2	454	U	C2-N3	5.61	1.41	1.37
36	1	121	A	C5'-C4'	-5.61	1.44	1.51
36	1	222	A	P-OP2	-5.61	1.39	1.49
36	1	354	U	N1-C6	-5.61	1.32	1.38
36	1	602	A	C6-N1	5.61	1.39	1.35
36	1	1107	C	N1-C6	-5.61	1.33	1.37
36	1	2240	G	C5-C6	-5.61	1.36	1.42
36	1	3308	C	N1-C6	-5.61	1.33	1.37
38	4	9	A	C5-C4	-5.61	1.34	1.38
80	6	293	U	N1-C2	-5.61	1.33	1.38
80	6	927	C	N1-C6	-5.61	1.33	1.37
80	6	1090	C	C3'-O3'	5.61	1.50	1.42
85	5	635	G	C5-C4	-5.61	1.34	1.38
85	5	1281	G	C5-C4	5.61	1.42	1.38
85	5	2591	A	C6-N1	5.61	1.39	1.35
40	13	229	VAL	CB-CG2	-5.61	1.41	1.52
36	1	1408	G	N9-C4	-5.60	1.33	1.38
36	1	2381	G	C2-N3	-5.60	1.28	1.32
36	1	2602	G	N9-C8	-5.60	1.33	1.37
37	3	26	C	N3-C4	-5.60	1.30	1.33
38	4	38	U	N1-C6	-5.60	1.32	1.38
36	1	376	G	N9-C4	-5.60	1.33	1.38
36	1	812	G	C6-N1	-5.60	1.35	1.39
36	1	1059	G	N9-C8	-5.60	1.33	1.37
36	1	1791	C	N1-C2	-5.60	1.34	1.40
36	1	2119	A	N7-C5	-5.60	1.35	1.39
80	6	985	G	N9-C4	-5.60	1.33	1.38
85	5	184	U	N1-C2	5.60	1.43	1.38
85	5	282	G	C6-O6	-5.60	1.19	1.24
85	5	327	A	C6-N6	-5.60	1.29	1.33
85	5	1441	G	N7-C5	-5.60	1.35	1.39
85	5	2646	C	C5-C6	-5.60	1.29	1.34
85	5	3119	U	N1-C6	-5.60	1.32	1.38
85	5	3313	U	C2-N3	-5.60	1.33	1.37
1	2	1019	A	N9-C4	-5.60	1.34	1.37
36	1	12	A	C6-N1	-5.60	1.31	1.35
36	1	908	G	C5-C4	-5.60	1.34	1.38
36	1	2975	U	N1-C2	-5.60	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	89	A	C5-C6	5.60	1.46	1.41
1	2	23	G	C6-N1	-5.60	1.35	1.39
54	M8	106	PHE	CD1-CE1	-5.60	1.28	1.39
80	6	630	A	N9-C4	-5.60	1.34	1.37
85	5	1043	C	P-OP2	5.60	1.58	1.49
85	5	1066	G	N1-C2	-5.60	1.33	1.37
85	5	1118	C	C4-N4	-5.60	1.28	1.33
85	5	1363	A	C6-N1	-5.60	1.31	1.35
85	5	2804	A	N7-C5	-5.60	1.35	1.39
36	1	182	U	N3-C4	-5.60	1.33	1.38
36	1	1384	U	N1-C6	-5.60	1.32	1.38
36	1	1927	G	C2-N3	-5.60	1.28	1.32
36	1	2911	A	C5-C6	-5.60	1.36	1.41
36	1	3008	A	C6-N1	-5.60	1.31	1.35
80	6	269	G	N9-C8	-5.60	1.33	1.37
80	6	634	G	C6-N1	-5.60	1.35	1.39
85	5	938	C	C4-C5	-5.60	1.38	1.43
85	5	1019	G	C5-C6	5.60	1.48	1.42
85	5	2778	G	C5-C4	-5.60	1.34	1.38
85	5	2862	U	N1-C2	-5.60	1.33	1.38
38	8	63	G	N7-C5	-5.60	1.35	1.39
36	1	74	G	N3-C4	-5.60	1.31	1.35
36	1	1750	A	N9-C4	-5.60	1.34	1.37
36	1	2569	A	C5-C6	5.60	1.46	1.41
36	1	2682	C	C2-N3	-5.60	1.31	1.35
36	1	3129	A	C6-N1	-5.60	1.31	1.35
36	1	579	G	C6-N1	-5.59	1.35	1.39
36	1	746	A	N7-C5	-5.59	1.35	1.39
36	1	947	G	N7-C5	-5.59	1.35	1.39
36	1	1162	U	C2-O2	-5.59	1.17	1.22
85	5	143	G	N9-C8	-5.59	1.33	1.37
85	5	530	G	C6-N1	-5.59	1.35	1.39
85	5	791	A	N9-C4	-5.59	1.34	1.37
85	5	1304	A	C5-C4	-5.59	1.34	1.38
85	5	1514	G	N3-C4	-5.59	1.31	1.35
85	5	2285	C	N1-C6	-5.59	1.33	1.37
36	1	213	A	N9-C4	-5.59	1.34	1.37
36	1	245	U	C4-O4	5.59	1.28	1.23
36	1	1785	U	N1-C2	-5.59	1.33	1.38
36	1	2800	G	C6-N1	-5.59	1.35	1.39
80	6	46	A	C5-C4	-5.59	1.34	1.38
85	5	330	G	N9-C4	-5.59	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	863	C	N3-C4	-5.59	1.30	1.33
85	5	2198	A	N3-C4	-5.59	1.31	1.34
85	5	2304	C	N3-C4	-5.59	1.30	1.33
36	1	1086	C	N3-C4	-5.59	1.30	1.33
36	1	2517	U	C2-N3	-5.59	1.33	1.37
36	1	2974	U	C4-C5	-5.59	1.38	1.43
38	4	41	A	C6-N1	-5.59	1.31	1.35
80	6	322	G	C6-N1	5.59	1.43	1.39
80	6	1119	G	N3-C4	-5.59	1.31	1.35
85	5	406	G	N9-C4	-5.59	1.33	1.38
1	2	284	G	N9-C4	-5.59	1.33	1.38
1	2	440	U	N3-C4	-5.59	1.33	1.38
36	1	397	A	C5-C4	-5.59	1.34	1.38
36	1	528	U	C2-N3	5.59	1.41	1.37
36	1	969	C	N3-C4	-5.59	1.30	1.33
36	1	1835	A	C6-N1	-5.59	1.31	1.35
36	1	2128	C	C2-O2	-5.59	1.19	1.24
37	3	34	C	N1-C2	-5.59	1.34	1.40
80	6	321	C	N1-C2	5.59	1.45	1.40
85	5	881	C	C2-O2	-5.59	1.19	1.24
85	5	1094	U	C2-O2	5.59	1.27	1.22
85	5	1322	U	N1-C6	-5.59	1.32	1.38
85	5	1466	G	N9-C8	-5.59	1.33	1.37
85	5	2126	A	N3-C4	-5.59	1.31	1.34
85	5	2309	A	N7-C5	-5.59	1.35	1.39
85	5	3187	A	N9-C8	-5.59	1.33	1.37
38	4	142	C	C4-C5	-5.59	1.38	1.43
80	6	78	A	N3-C4	-5.59	1.31	1.34
85	5	932	U	N1-C6	-5.59	1.32	1.38
85	5	1148	G	C8-N7	-5.59	1.27	1.30
36	1	1577	G	C5-C4	5.59	1.42	1.38
36	1	2716	U	N1-C2	-5.59	1.33	1.38
36	1	2878	G	N9-C8	-5.59	1.33	1.37
36	1	3130	A	C6-N1	-5.59	1.31	1.35
85	5	513	G	N3-C4	-5.59	1.31	1.35
85	5	870	G	N9-C4	-5.59	1.33	1.38
85	5	1573	G	N7-C5	5.59	1.42	1.39
85	5	2443	A	N7-C5	5.59	1.42	1.39
85	5	2652	U	C4-C5	-5.59	1.38	1.43
36	1	387	A	N3-C4	-5.58	1.31	1.34
85	5	1851	G	C5-C6	-5.58	1.36	1.42
85	5	2738	A	C5-C4	-5.58	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2898	G	N7-C5	-5.58	1.35	1.39
36	1	642	U	C5-C6	-5.58	1.29	1.34
36	1	1119	C	C4-C5	-5.58	1.38	1.43
36	1	1173	U	C2-N3	-5.58	1.33	1.37
37	3	72	A	C5-C6	-5.58	1.36	1.41
80	6	860	U	C2-N3	-5.58	1.33	1.37
85	5	100	A	N3-C4	-5.58	1.31	1.34
85	5	1524	A	C5-C4	-5.58	1.34	1.38
85	5	2909	U	C4-C5	-5.58	1.38	1.43
85	5	2910	A	C6-N1	-5.58	1.31	1.35
1	2	307	G	C6-N1	-5.58	1.35	1.39
36	1	353	G	C6-N1	-5.58	1.35	1.39
36	1	980	A	O3'-P	5.58	1.67	1.61
36	1	1406	A	C4'-C3'	-5.58	1.47	1.52
36	1	2323	G	C6-O6	-5.58	1.19	1.24
36	1	2736	A	C6-N1	-5.58	1.31	1.35
36	1	2837	A	N7-C5	-5.58	1.35	1.39
80	6	93	A	C6-N1	-5.58	1.31	1.35
80	6	1331	A	N3-C4	-5.58	1.31	1.34
85	5	803	C	N1-C2	-5.58	1.34	1.40
85	5	1195	A	N9-C4	-5.58	1.34	1.37
85	5	1406	A	N3-C4	-5.58	1.31	1.34
85	5	2654	C	C4-N4	-5.58	1.28	1.33
64	n8	44	ASN	CB-CG	5.58	1.63	1.51
36	1	2439	A	C5-C4	5.58	1.42	1.38
36	1	2522	G	N9-C8	5.58	1.41	1.37
85	5	1568	U	C2-N3	5.58	1.41	1.37
1	2	776	A	C5-C6	5.58	1.46	1.41
36	1	338	A	N9-C8	-5.58	1.33	1.37
36	1	641	C	N1-C2	-5.58	1.34	1.40
36	1	943	U	C2-N3	-5.58	1.33	1.37
36	1	2803	A	C6-N1	-5.58	1.31	1.35
36	1	2961	G	N3-C4	-5.58	1.31	1.35
36	1	3187	A	N3-C4	5.58	1.38	1.34
37	3	5	G	N7-C5	5.58	1.42	1.39
80	6	466	U	N3-C4	-5.58	1.33	1.38
80	6	1116	A	N7-C5	-5.58	1.35	1.39
80	6	1125	A	N3-C4	-5.58	1.31	1.34
85	5	70	A	N7-C5	-5.58	1.35	1.39
85	5	2400	G	N3-C4	-5.58	1.31	1.35
85	5	3034	C	N3-C4	-5.58	1.30	1.33
36	1	350	C	C5-C6	-5.58	1.29	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	249	U	C2-N3	-5.58	1.33	1.37
85	5	1789	G	N7-C5	-5.58	1.35	1.39
36	1	748	U	C4-C5	-5.58	1.38	1.43
36	1	1148	G	N9-C4	-5.58	1.33	1.38
36	1	2119	A	N9-C4	-5.58	1.34	1.37
36	1	2699	G	C3'-O3'	-5.58	1.34	1.42
36	1	3081	C	N1-C6	-5.58	1.33	1.37
80	6	319	U	N3-C4	5.58	1.43	1.38
85	5	492	U	C2-N3	5.58	1.41	1.37
85	5	833	G	N9-C8	-5.58	1.33	1.37
85	5	2106	A	N7-C5	-5.58	1.35	1.39
36	1	1357	G	N7-C5	-5.57	1.35	1.39
36	1	3186	A	C5-C4	-5.57	1.34	1.38
80	6	574	G	C5-C4	-5.57	1.34	1.38
85	5	1377	G	N3-C4	-5.57	1.31	1.35
85	5	2117	A	C6-N1	-5.57	1.31	1.35
85	5	2193	U	C2-O2	-5.57	1.17	1.22
36	1	2146	C	N1-C6	-5.57	1.33	1.37
36	1	2313	A	C6-N1	-5.57	1.31	1.35
1	2	104	A	N3-C4	-5.57	1.31	1.34
36	1	684	G	C5-C4	-5.57	1.34	1.38
36	1	1683	A	C5-C6	-5.57	1.36	1.41
80	6	1768	G	N9-C8	-5.57	1.33	1.37
85	5	1781	C	C4-C5	-5.57	1.38	1.43
85	5	2125	A	C5-C6	-5.57	1.36	1.41
85	5	2747	A	C5-C4	-5.57	1.34	1.38
85	5	3028	G	C6-N1	-5.57	1.35	1.39
44	17	53	LYS	CD-CE	5.57	1.65	1.51
36	1	1900	A	N9-C8	-5.57	1.33	1.37
36	1	2787	G	N3-C4	-5.57	1.31	1.35
85	5	2387	A	P-OP1	-5.57	1.39	1.49
1	2	49	C	N1-C6	-5.57	1.33	1.37
1	2	277	U	C2-N3	5.57	1.41	1.37
36	1	425	G	C2-N2	-5.57	1.28	1.34
36	1	1354	G	C6-N1	5.57	1.43	1.39
36	1	1372	C	C2-O2	-5.57	1.19	1.24
36	1	1387	G	N3-C4	-5.57	1.31	1.35
36	1	2867	C	N3-C4	-5.57	1.30	1.33
85	5	2292	U	N1-C6	-5.57	1.32	1.38
85	5	2695	A	C5-C4	-5.57	1.34	1.38
85	5	2959	C	C2-O2	-5.57	1.19	1.24
85	5	3186	A	N9-C4	-5.57	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1572	C	N3-C4	-5.57	1.30	1.33
36	1	411	U	N3-C4	-5.57	1.33	1.38
36	1	1312	C	N1-C2	-5.57	1.34	1.40
36	1	1445	U	N1-C2	-5.57	1.33	1.38
36	1	1911	A	N3-C4	-5.57	1.31	1.34
36	1	2291	A	C6-N1	-5.57	1.31	1.35
80	6	792	U	N1-C2	5.57	1.43	1.38
85	5	1313	G	N3-C4	-5.57	1.31	1.35
85	5	1835	A	N3-C4	-5.57	1.31	1.34
85	5	1862	U	C2-N3	5.57	1.41	1.37
1	2	408	C	N3-C4	-5.56	1.30	1.33
36	1	1886	A	N9-C8	-5.56	1.33	1.37
80	6	1208	A	N9-C4	-5.56	1.34	1.37
80	6	1592	A	N7-C5	-5.56	1.35	1.39
85	5	1619	A	N3-C4	-5.56	1.31	1.34
38	8	48	A	N9-C4	-5.56	1.34	1.37
36	1	936	A	C5-C6	-5.56	1.36	1.41
36	1	1477	A	N7-C5	-5.56	1.35	1.39
36	1	2717	U	N1-C2	-5.56	1.33	1.38
85	5	2325	G	N3-C4	-5.56	1.31	1.35
36	1	81	C	N1-C6	-5.56	1.33	1.37
36	1	130	A	N3-C4	5.56	1.38	1.34
36	1	576	C	C2-N3	-5.56	1.31	1.35
85	5	1310	G	N9-C8	-5.56	1.33	1.37
76	q0	89	TYR	CD2-CE2	5.56	1.47	1.39
36	1	679	U	N1-C6	-5.56	1.32	1.38
36	1	696	C	C2-N3	-5.56	1.31	1.35
36	1	803	C	C4-C5	-5.56	1.38	1.43
36	1	2098	C	N1-C6	5.56	1.40	1.37
80	6	418	G	N1-C2	-5.56	1.33	1.37
85	5	684	G	N1-C2	5.56	1.42	1.37
85	5	936	A	C5-C6	-5.56	1.36	1.41
36	1	1854	C	C4-C5	-5.56	1.38	1.43
80	6	332	U	N1-C6	-5.56	1.32	1.38
80	6	973	A	C5-C6	-5.56	1.36	1.41
85	5	300	G	N1-C2	-5.56	1.33	1.37
85	5	1197	A	C5-C4	-5.56	1.34	1.38
85	5	1936	A	N3-C4	-5.56	1.31	1.34
85	5	1949	G	N9-C4	5.56	1.42	1.38
85	5	2302	G	N1-C2	-5.56	1.33	1.37
85	5	2892	A	N3-C4	-5.56	1.31	1.34
38	8	98	U	N3-C4	5.56	1.43	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	909	G	C8-N7	-5.56	1.27	1.30
85	5	2874	G	N7-C5	-5.56	1.35	1.39
36	1	49	A	N3-C4	-5.55	1.31	1.34
36	1	610	G	C5-C6	-5.55	1.36	1.42
36	1	1790	G	C6-N1	5.55	1.43	1.39
36	1	1921	A	N9-C4	5.55	1.41	1.37
36	1	2805	G	C5-C4	-5.55	1.34	1.38
64	N8	63	LYS	CD-CE	5.55	1.65	1.51
80	6	83	G	C6-O6	5.55	1.29	1.24
85	5	725	G	C8-N7	-5.55	1.27	1.30
85	5	2156	C	C2-N3	-5.55	1.31	1.35
36	1	290	G	N9-C8	-5.55	1.33	1.37
36	1	806	A	C6-N6	-5.55	1.29	1.33
36	1	936	A	N9-C8	-5.55	1.33	1.37
38	4	72	A	C6-N1	-5.55	1.31	1.35
85	5	54	C	C2-O2	-5.55	1.19	1.24
85	5	1660	C	C4-N4	-5.55	1.28	1.33
85	5	2802	A	C5-C4	-5.55	1.34	1.38
85	5	2913	C	C2-N3	-5.55	1.31	1.35
85	5	3272	C	C4-C5	-5.55	1.38	1.43
1	2	72	A	C6-N1	5.55	1.39	1.35
36	1	251	G	C2-N3	5.55	1.37	1.32
36	1	2990	G	C5-C4	-5.55	1.34	1.38
80	6	617	U	N1-C6	-5.55	1.32	1.38
85	5	234	G	C6-N1	5.55	1.43	1.39
85	5	3083	G	C6-N1	-5.55	1.35	1.39
56	n0	42	TRP	CB-CG	-5.55	1.40	1.50
36	1	760	G	C5-C4	-5.55	1.34	1.38
36	1	1525	G	C6-N1	-5.55	1.35	1.39
36	1	2608	G	C5-C4	-5.55	1.34	1.38
80	6	720	G	N9-C4	5.55	1.42	1.38
85	5	2298	U	N1-C6	-5.55	1.32	1.38
85	5	2799	A	C6-N6	-5.55	1.29	1.33
85	5	3016	A	N3-C4	-5.55	1.31	1.34
51	m5	25	VAL	CB-CG2	-5.55	1.41	1.52
38	8	5	U	N1-C6	-5.55	1.32	1.38
67	o1	12	TYR	CD2-CE2	-5.55	1.31	1.39
36	1	274	G	C5-C4	-5.55	1.34	1.38
36	1	368	G	C5-C4	-5.55	1.34	1.38
36	1	815	G	N9-C4	-5.55	1.33	1.38
36	1	1133	A	N9-C8	-5.55	1.33	1.37
36	1	1825	G	N7-C5	-5.55	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1927	G	C6-N1	-5.55	1.35	1.39
36	1	2424	A	N9-C4	-5.55	1.34	1.37
36	1	3130	A	C5-C4	-5.55	1.34	1.38
85	5	866	A	C6-N1	5.55	1.39	1.35
85	5	1598	G	C6-N1	-5.55	1.35	1.39
85	5	2818	U	C5-C6	-5.55	1.29	1.34
36	1	1170	A	N9-C4	-5.54	1.34	1.37
36	1	2337	C	N3-C4	-5.54	1.30	1.33
80	6	1347	U	N1-C2	-5.54	1.33	1.38
85	5	798	G	N9-C4	-5.54	1.33	1.38
47	m0	49	CYS	CB-SG	-5.54	1.72	1.81
1	2	1576	A	C6-N1	-5.54	1.31	1.35
36	1	1050	U	N3-C4	-5.54	1.33	1.38
36	1	1165	A	N7-C5	-5.54	1.35	1.39
36	1	1292	C	N1-C2	-5.54	1.34	1.40
80	6	670	U	N1-C2	5.54	1.43	1.38
85	5	421	G	C2-N2	-5.54	1.29	1.34
85	5	586	C	N1-C2	-5.54	1.34	1.40
85	5	1332	A	N9-C8	-5.54	1.33	1.37
43	l6	141	VAL	CB-CG1	-5.54	1.41	1.52
36	1	5	G	N1-C2	5.54	1.42	1.37
36	1	827	A	C5-C4	-5.54	1.34	1.38
36	1	917	A	N9-C8	-5.54	1.33	1.37
80	6	1169	G	N3-C4	-5.54	1.31	1.35
85	5	833	G	N9-C4	-5.54	1.33	1.38
85	5	1140	G	C5-C6	-5.54	1.36	1.42
85	5	1157	G	C5-C4	-5.54	1.34	1.38
85	5	1852	G	C3'-C2'	-5.54	1.46	1.52
85	5	2302	G	N7-C5	-5.54	1.35	1.39
85	5	3345	G	N1-C2	5.54	1.42	1.37
36	1	237	G	C6-N1	5.54	1.43	1.39
36	1	3309	G	C5-C4	-5.54	1.34	1.38
46	L9	180	TYR	CD1-CE1	5.54	1.47	1.39
54	M8	83	VAL	CB-CG2	-5.54	1.41	1.52
85	5	968	G	C8-N7	-5.54	1.27	1.30
85	5	2892	A	C5-C6	-5.54	1.36	1.41
36	1	2538	U	N1-C2	5.54	1.43	1.38
36	1	2600	C	N1-C6	-5.54	1.33	1.37
36	1	2632	G	C6-N1	-5.54	1.35	1.39
36	1	3309	G	C5-C6	-5.54	1.36	1.42
80	6	101	U	N1-C2	5.54	1.43	1.38
80	6	384	G	N9-C4	-5.54	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1022	C	N1-C6	-5.54	1.33	1.37
80	6	1108	G	N9-C4	-5.54	1.33	1.38
80	6	1675	C	N1-C6	-5.54	1.33	1.37
80	6	1789	G	C6-N1	-5.54	1.35	1.39
85	5	689	U	C2-N3	-5.54	1.33	1.37
85	5	1012	G	N9-C4	-5.54	1.33	1.38
85	5	2402	A	C6-N6	-5.54	1.29	1.33
85	5	2412	G	N7-C5	-5.54	1.35	1.39
85	5	2794	G	C5-C6	-5.54	1.36	1.42
85	5	3123	A	N3-C4	-5.54	1.31	1.34
72	o6	89	GLU	CG-CD	5.54	1.60	1.51
36	1	363	G	C2-N2	-5.54	1.29	1.34
36	1	2425	G	N9-C8	-5.54	1.33	1.37
80	6	1726	G	C8-N7	-5.54	1.27	1.30
80	6	1746	A	C5-C6	-5.54	1.36	1.41
85	5	2938	G	C6-N1	-5.54	1.35	1.39
36	1	878	G	N7-C5	-5.54	1.35	1.39
36	1	1823	A	N3-C4	-5.54	1.31	1.34
36	1	3139	A	C5-C4	-5.54	1.34	1.38
85	5	98	G	C5-C6	-5.54	1.36	1.42
85	5	734	C	C2-O2	5.54	1.29	1.24
85	5	789	A	N3-C4	-5.54	1.31	1.34
85	5	946	U	N1-C2	-5.54	1.33	1.38
85	5	1755	C	N1-C2	-5.54	1.34	1.40
85	5	2417	U	C5-C6	5.54	1.39	1.34
85	5	2745	G	N3-C4	-5.54	1.31	1.35
85	5	2761	G	C6-O6	-5.54	1.19	1.24
37	7	101	G	C8-N7	-5.54	1.27	1.30
36	1	144	A	N9-C4	-5.53	1.34	1.37
36	1	282	G	C8-N7	-5.53	1.27	1.30
36	1	512	U	N1-C6	-5.53	1.32	1.38
36	1	1146	C	C4-C5	-5.53	1.38	1.43
36	1	1395	G	N9-C8	-5.53	1.33	1.37
36	1	2701	U	N3-C4	-5.53	1.33	1.38
80	6	317	C	N1-C2	-5.53	1.34	1.40
80	6	339	C	N1-C6	-5.53	1.33	1.37
85	5	370	U	N3-C4	-5.53	1.33	1.38
85	5	374	A	C6-N1	-5.53	1.31	1.35
85	5	814	U	C4-C5	-5.53	1.38	1.43
85	5	1881	A	C6-N1	-5.53	1.31	1.35
85	5	1886	A	N1-C2	-5.53	1.29	1.34
85	5	2689	A	N7-C5	-5.53	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	7	U	N1-C6	-5.53	1.32	1.38
85	5	1927	G	N9-C4	-5.53	1.33	1.38
1	2	328	A	C5-C6	-5.53	1.36	1.41
36	1	996	A	C6-N6	-5.53	1.29	1.33
36	1	1537	A	C5-C6	-5.53	1.36	1.41
36	1	2122	G	C6-N1	-5.53	1.35	1.39
38	4	36	G	N9-C8	-5.53	1.33	1.37
80	6	385	A	N3-C4	-5.53	1.31	1.34
85	5	517	G	C5-C4	-5.53	1.34	1.38
85	5	1879	A	C5-C6	-5.53	1.36	1.41
85	5	2412	G	N9-C8	-5.53	1.33	1.37
37	7	73	C	C2-O2	5.53	1.29	1.24
36	1	907	G	C2-N3	5.53	1.37	1.32
36	1	2127	U	C2-O2	-5.53	1.17	1.22
36	1	3073	A	C5-C4	-5.53	1.34	1.38
78	Q2	43	TYR	CD2-CE2	-5.53	1.31	1.39
85	5	277	G	N9-C8	-5.53	1.33	1.37
85	5	831	G	C5-C4	-5.53	1.34	1.38
85	5	2665	U	N1-C2	-5.53	1.33	1.38
85	5	2929	C	N1-C6	-5.53	1.33	1.37
38	8	151	C	N1-C6	-5.53	1.33	1.37
1	2	545	A	N3-C4	-5.53	1.31	1.34
36	1	1186	G	C8-N7	-5.53	1.27	1.30
36	1	2609	A	C5-C4	-5.53	1.34	1.38
85	5	1513	G	C5-C6	-5.53	1.36	1.42
85	5	1658	G	C6-N1	-5.53	1.35	1.39
85	5	2095	G	N7-C5	5.53	1.42	1.39
85	5	2975	U	O3'-P	-5.53	1.54	1.61
85	5	3251	U	C2-N3	-5.53	1.33	1.37
53	m7	78	VAL	CB-CG1	-5.53	1.41	1.52
1	2	1576	A	N3-C4	-5.53	1.31	1.34
36	1	942	U	C2-N3	-5.53	1.33	1.37
36	1	994	G	N1-C2	-5.53	1.33	1.37
36	1	2178	A	N9-C4	-5.53	1.34	1.37
36	1	2407	C	C2-N3	-5.53	1.31	1.35
36	1	3359	A	C6-N1	5.53	1.39	1.35
44	L7	161	VAL	CB-CG1	-5.53	1.41	1.52
52	M6	39	GLU	CG-CD	-5.53	1.43	1.51
85	5	909	G	C2-N2	-5.53	1.29	1.34
85	5	1418	A	N9-C8	-5.53	1.33	1.37
85	5	1427	U	N1-C6	-5.53	1.32	1.38
85	5	2239	G	C2-N3	-5.53	1.28	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2888	U	N1-C6	-5.53	1.32	1.38
85	5	3016	A	N9-C4	-5.53	1.34	1.37
36	1	2100	A	C6-N1	5.52	1.39	1.35
85	5	341	G	N7-C5	-5.52	1.35	1.39
85	5	995	U	N1-C6	-5.52	1.32	1.38
85	5	2762	A	C5-C4	-5.52	1.34	1.38
85	5	2983	C	N1-C6	-5.52	1.33	1.37
1	2	716	A	N9-C4	5.52	1.41	1.37
36	1	697	A	N9-C4	-5.52	1.34	1.37
36	1	2712	U	N1-C2	-5.52	1.33	1.38
36	1	2895	G	N9-C8	-5.52	1.33	1.37
36	1	3129	A	N3-C4	-5.52	1.31	1.34
36	1	3142	A	C5-C4	-5.52	1.34	1.38
37	3	89	G	N3-C4	-5.52	1.31	1.35
38	4	134	G	C5-C4	-5.52	1.34	1.38
39	L2	133	TYR	CD1-CE1	-5.52	1.31	1.39
49	M3	123	ILE	CB-CG2	-5.52	1.35	1.52
85	5	101	G	C6-N1	-5.52	1.35	1.39
36	1	2656	A	N7-C5	-5.52	1.35	1.39
36	1	3103	A	C6-N1	-5.52	1.31	1.35
36	1	3127	A	N3-C4	-5.52	1.31	1.34
80	6	445	A	N3-C4	5.52	1.38	1.34
85	5	46	U	N1-C2	-5.52	1.33	1.38
85	5	631	U	N1-C6	-5.52	1.32	1.38
85	5	784	A	N9-C4	-5.52	1.34	1.37
36	1	187	A	N7-C5	-5.52	1.35	1.39
36	1	1145	G	C6-N1	-5.52	1.35	1.39
36	1	1193	A	C5-C6	-5.52	1.36	1.41
36	1	3063	C	N3-C4	-5.52	1.30	1.33
36	1	3188	G	N9-C4	-5.52	1.33	1.38
67	O1	64	VAL	CB-CG1	-5.52	1.41	1.52
85	5	1017	C	N1-C2	5.52	1.45	1.40
85	5	2303	A	C5-C6	-5.52	1.36	1.41
85	5	2755	C	C2-N3	-5.52	1.31	1.35
36	1	226	C	C4-C5	-5.52	1.38	1.43
36	1	363	G	N7-C5	-5.52	1.35	1.39
36	1	501	A	C5-C4	-5.52	1.34	1.38
36	1	653	A	C6-N6	-5.52	1.29	1.33
36	1	682	U	C2-O2	-5.52	1.17	1.22
36	1	1586	G	N9-C8	-5.52	1.33	1.37
36	1	2315	G	C2-N2	-5.52	1.29	1.34
36	1	2504	U	N1-C2	5.52	1.43	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	N6	73	VAL	CB-CG2	-5.52	1.41	1.52
80	6	449	C	C2-N3	-5.52	1.31	1.35
85	5	46	U	C4-C5	-5.52	1.38	1.43
85	5	285	A	P-OP2	5.52	1.58	1.49
85	5	869	G	C6-O6	-5.52	1.19	1.24
85	5	898	U	P-OP1	5.52	1.58	1.49
1	2	976	A	N7-C5	-5.52	1.35	1.39
1	2	1773	A	N9-C4	-5.52	1.34	1.37
36	1	2277	C	C2-O2	-5.52	1.19	1.24
36	1	2851	A	N3-C4	-5.52	1.31	1.34
36	1	3282	U	C2-N3	5.52	1.41	1.37
65	N9	35	VAL	CB-CG2	-5.52	1.41	1.52
80	6	703	G	C6-N1	5.52	1.43	1.39
80	6	1161	C	C2-N3	-5.52	1.31	1.35
1	2	16	G	C6-N1	-5.51	1.35	1.39
36	1	2241	U	N1-C2	-5.51	1.33	1.38
36	1	2243	A	N9-C8	-5.51	1.33	1.37
36	1	2756	C	N1-C6	-5.51	1.33	1.37
36	1	2779	A	N9-C4	-5.51	1.34	1.37
85	5	349	A	C6-N6	-5.51	1.29	1.33
85	5	930	U	C5-C6	-5.51	1.29	1.34
85	5	1018	G	C5-C6	5.51	1.47	1.42
85	5	1471	U	C2-N3	-5.51	1.33	1.37
32	e0	4	VAL	CB-CG1	-5.51	1.41	1.52
85	5	2327	U	P-O5'	-5.51	1.54	1.59
36	1	92	G	C5'-C4'	-5.51	1.44	1.51
36	1	707	U	C2-N3	-5.51	1.33	1.37
36	1	931	C	N1-C6	-5.51	1.33	1.37
46	L9	93	VAL	CB-CG1	-5.51	1.41	1.52
54	M8	184	PHE	CD2-CE2	-5.51	1.28	1.39
69	O3	22	VAL	CB-CG2	-5.51	1.41	1.52
80	6	495	C	N1-C6	5.51	1.40	1.37
80	6	569	C	N3-C4	-5.51	1.30	1.33
80	6	1698	G	N9-C4	5.51	1.42	1.38
31	d9	39	CYS	CB-SG	-5.51	1.72	1.81
85	5	815	G	C8-N7	-5.51	1.27	1.30
85	5	954	U	C2-N3	-5.51	1.33	1.37
85	5	1536	G	C2-N3	-5.51	1.28	1.32
85	5	2377	G	N9-C4	-5.51	1.33	1.38
85	5	2835	U	N1-C2	-5.51	1.33	1.38
85	5	2863	G	N7-C5	-5.51	1.35	1.39
36	1	356	C	C4-C5	-5.51	1.38	1.43

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	680	G	N1-C2	-5.51	1.33	1.37
36	1	1656	A	N9-C8	-5.51	1.33	1.37
36	1	1865	A	N9-C4	-5.51	1.34	1.37
80	6	304	U	N1-C6	-5.51	1.32	1.38
85	5	824	C	N1-C2	-5.51	1.34	1.40
85	5	2251	G	N7-C5	-5.51	1.35	1.39
85	5	2346	C	N1-C2	-5.51	1.34	1.40
1	2	680	C	N1-C2	5.51	1.45	1.40
36	1	893	C	N1-C6	-5.51	1.33	1.37
36	1	2409	G	C6-N1	-5.51	1.35	1.39
36	1	2418	G	C5-C4	-5.51	1.34	1.38
36	1	2830	G	C6-N1	5.51	1.43	1.39
85	5	364	G	C4'-C3'	-5.51	1.47	1.52
85	5	436	A	N3-C4	5.51	1.38	1.34
85	5	3319	U	N1-C2	5.51	1.43	1.38
1	2	594	A	C5-C6	5.51	1.46	1.41
80	6	1346	A	N9-C4	5.51	1.41	1.37
85	5	658	G	C6-N1	-5.51	1.35	1.39
85	5	1924	U	C5-C6	-5.51	1.29	1.34
85	5	3156	U	C4-C5	5.51	1.48	1.43
85	5	3325	G	N9-C8	-5.51	1.33	1.37
36	1	424	G	N9-C4	-5.50	1.33	1.38
80	6	486	G	C5-C4	5.50	1.42	1.38
85	5	2249	G	C6-N1	-5.50	1.35	1.39
1	2	331	A	C5-C4	-5.50	1.34	1.38
36	1	107	A	N3-C4	-5.50	1.31	1.34
36	1	269	G	C5-C6	-5.50	1.36	1.42
36	1	2809	C	C4-C5	-5.50	1.38	1.43
54	M8	106	PHE	CD2-CE2	-5.50	1.28	1.39
79	Q3	47	VAL	CB-CG2	-5.50	1.41	1.52
80	6	558	U	N1-C2	5.50	1.43	1.38
80	6	907	A	N7-C5	-5.50	1.35	1.39
85	5	100	A	C5-C4	-5.50	1.34	1.38
85	5	443	G	C5-C6	5.50	1.47	1.42
62	n6	108	LYS	CD-CE	5.50	1.65	1.51
36	1	272	G	N9-C8	-5.50	1.33	1.37
36	1	388	G	N3-C4	-5.50	1.31	1.35
36	1	547	G	C5-C4	5.50	1.42	1.38
36	1	1380	G	C2-N2	-5.50	1.29	1.34
36	1	2788	C	N1-C2	-5.50	1.34	1.40
85	5	1171	G	C5-C4	-5.50	1.34	1.38
37	7	13	A	C5-C4	-5.50	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	335	G	C3'-C2'	-5.50	1.46	1.52
36	1	945	C	N1-C6	-5.50	1.33	1.37
36	1	1340	G	N9-C4	-5.50	1.33	1.38
80	6	943	C	C2-N3	-5.50	1.31	1.35
85	5	2926	A	N3-C4	-5.50	1.31	1.34
85	5	3205	G	N3-C4	-5.50	1.31	1.35
38	8	24	G	N1-C2	-5.50	1.33	1.37
1	2	921	G	C6-N1	-5.50	1.35	1.39
36	1	1394	A	C6-N6	-5.50	1.29	1.33
36	1	1438	U	C2-O2	-5.50	1.17	1.22
36	1	1764	U	O3'-P	5.50	1.67	1.61
36	1	2864	A	C6-N6	-5.50	1.29	1.33
36	1	3087	A	N9-C4	5.50	1.41	1.37
85	5	361	A	N9-C8	-5.50	1.33	1.37
85	5	1156	C	C4-C5	-5.50	1.38	1.43
85	5	2183	A	C5-C6	-5.50	1.36	1.41
38	8	43	A	N7-C5	-5.50	1.35	1.39
36	1	518	G	N9-C4	-5.50	1.33	1.38
36	1	1506	A	N7-C5	-5.50	1.35	1.39
36	1	2740	A	N9-C4	-5.50	1.34	1.37
36	1	3025	C	N3-C4	-5.50	1.30	1.33
47	M0	186	GLU	CG-CD	5.50	1.60	1.51
80	6	313	U	C2'-C1'	-5.50	1.47	1.53
80	6	420	A	N7-C5	-5.50	1.35	1.39
80	6	571	G	C6-N1	-5.50	1.35	1.39
80	6	1040	G	N9-C4	5.50	1.42	1.38
15	c3	83	GLU	CB-CG	5.50	1.62	1.52
85	5	1054	A	N9-C8	-5.50	1.33	1.37
85	5	1406	A	C6-N6	-5.50	1.29	1.33
85	5	2627	C	C2'-C1'	-5.50	1.47	1.53
85	5	2769	A	N9-C4	-5.50	1.34	1.37
85	5	2939	G	P-OP2	-5.50	1.39	1.49
85	5	2963	C	N1-C6	-5.50	1.33	1.37
85	5	3257	C	N1-C6	-5.50	1.33	1.37
36	1	832	G	N3-C4	-5.50	1.31	1.35
36	1	2389	C	N1-C2	-5.50	1.34	1.40
36	1	3328	G	C6-N1	-5.50	1.35	1.39
80	6	157	A	C5-C4	-5.50	1.34	1.38
1	2	238	U	C2-N3	5.49	1.41	1.37
36	1	948	C	N3-C4	-5.49	1.30	1.33
36	1	1898	G	N7-C5	-5.49	1.35	1.39
36	1	2341	A	N9-C8	-5.49	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2617	U	C4-O4	5.49	1.28	1.23
42	L5	124	GLU	CB-CG	5.49	1.62	1.52
54	M8	153	PHE	CD1-CE1	-5.49	1.28	1.39
85	5	70	A	N9-C4	-5.49	1.34	1.37
85	5	1332	A	C5-C4	-5.49	1.34	1.38
85	5	3264	G	N7-C5	-5.49	1.35	1.39
37	7	84	A	C5-C4	-5.49	1.34	1.38
80	6	448	C	C2-O2	-5.49	1.19	1.24
85	5	1154	A	C5-C6	5.49	1.46	1.41
85	5	3049	A	C6-N1	-5.49	1.31	1.35
1	2	309	C	N1-C6	-5.49	1.33	1.37
36	1	1389	G	N7-C5	-5.49	1.35	1.39
3	s1	31	ASP	CB-CG	5.49	1.63	1.51
85	5	431	U	N1-C2	-5.49	1.33	1.38
85	5	997	A	C5-C6	-5.49	1.36	1.41
85	5	2353	G	C8-N7	-5.49	1.27	1.30
85	5	2372	A	N7-C5	-5.49	1.35	1.39
38	8	114	G	N1-C2	5.49	1.42	1.37
1	2	584	C	N1-C6	-5.49	1.33	1.37
1	2	606	A	N9-C4	-5.49	1.34	1.37
36	1	730	C	N1-C6	-5.49	1.33	1.37
36	1	1814	A	N9-C4	5.49	1.41	1.37
36	1	1955	U	N1-C2	5.49	1.43	1.38
36	1	2554	A	C5-C4	-5.49	1.34	1.38
47	M0	89	VAL	CB-CG2	-5.49	1.41	1.52
80	6	575	C	N1-C6	-5.49	1.33	1.37
85	5	370	U	C4-O4	-5.49	1.19	1.23
85	5	1178	G	N1-C2	-5.49	1.33	1.37
85	5	2106	A	C5-C6	-5.49	1.36	1.41
85	5	2557	A	N9-C4	-5.49	1.34	1.37
37	7	51	A	C6-N1	-5.49	1.31	1.35
36	1	716	A	C6-N1	5.49	1.39	1.35
36	1	862	U	C4-O4	-5.49	1.19	1.23
85	5	672	A	N9-C4	-5.49	1.34	1.37
85	5	2291	A	N3-C4	-5.49	1.31	1.34
1	2	1285	U	C2-N3	-5.49	1.33	1.37
36	1	1529	A	C5-C6	-5.49	1.36	1.41
38	4	98	U	C2-N3	-5.49	1.33	1.37
41	L4	265	GLU	CB-CG	5.49	1.62	1.52
46	L9	12	VAL	CB-CG2	-5.49	1.41	1.52
51	M5	53	TYR	CE1-CZ	-5.49	1.31	1.38
80	6	776	G	N9-C4	-5.49	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	353	G	C6-N1	-5.49	1.35	1.39
85	5	2888	U	P-OP1	-5.49	1.39	1.49
85	5	2907	G	C5-C6	-5.49	1.36	1.42
85	5	2938	G	P-O5'	-5.49	1.54	1.59
85	5	2975	U	C2-N3	-5.49	1.33	1.37
85	5	3230	G	N3-C4	-5.49	1.31	1.35
85	5	3335	A	N7-C5	-5.49	1.35	1.39
37	7	27	A	N3-C4	-5.49	1.31	1.34
37	7	121	U	N3-C4	5.49	1.43	1.38
70	o4	11	ASN	C-N	-5.49	1.23	1.34
38	4	80	A	N9-C4	-5.48	1.34	1.37
80	6	803	A	N9-C4	5.48	1.41	1.37
36	1	361	A	C6-N6	-5.48	1.29	1.33
36	1	1857	C	P-O5'	-5.48	1.54	1.59
36	1	2355	G	N3-C4	-5.48	1.31	1.35
85	5	103	G	C2-N3	-5.48	1.28	1.32
85	5	988	U	C2-O2	-5.48	1.17	1.22
85	5	1009	A	C5-C6	-5.48	1.36	1.41
85	5	2760	C	N1-C2	-5.48	1.34	1.40
36	1	2355	G	N7-C5	-5.48	1.35	1.39
36	1	2834	G	N1-C2	-5.48	1.33	1.37
38	4	3	A	N9-C4	-5.48	1.34	1.37
85	5	1445	U	N1-C2	-5.48	1.33	1.38
85	5	2353	G	O3'-P	-5.48	1.54	1.61
85	5	2374	C	N3-C4	-5.48	1.30	1.33
85	5	2906	C	N1-C6	-5.48	1.33	1.37
85	5	3207	U	C4-C5	5.48	1.48	1.43
38	8	42	G	N9-C4	-5.48	1.33	1.38
69	o3	26	ASN	CB-CG	-5.48	1.38	1.51
36	1	1296	C	N1-C2	-5.48	1.34	1.40
36	1	2326	A	N3-C4	-5.48	1.31	1.34
85	5	2291	A	C5-C4	-5.48	1.34	1.38
85	5	2886	U	N1-C2	-5.48	1.33	1.38
1	2	234	G	C5-C4	5.48	1.42	1.38
36	1	415	G	N3-C4	-5.48	1.31	1.35
36	1	597	G	C5-C4	-5.48	1.34	1.38
36	1	1332	A	C6-N1	-5.48	1.31	1.35
36	1	1435	A	C5-C6	-5.48	1.36	1.41
36	1	3121	U	C4-O4	-5.48	1.19	1.23
36	1	3242	G	C5-C4	-5.48	1.34	1.38
80	6	1732	A	C6-N1	-5.48	1.31	1.35
85	5	394	G	N9-C8	-5.48	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1571	A	N9-C4	5.48	1.41	1.37
85	5	2648	G	N7-C5	-5.48	1.35	1.39
68	o2	57	TYR	CD2-CE2	-5.48	1.31	1.39
85	5	1096	U	C2-N3	5.48	1.41	1.37
85	5	1428	A	N9-C8	-5.48	1.33	1.37
85	5	1587	A	N9-C8	-5.48	1.33	1.37
36	1	60	A	C5-C6	-5.47	1.36	1.41
36	1	744	A	N9-C8	-5.47	1.33	1.37
36	1	1404	G	N9-C8	-5.47	1.34	1.37
36	1	1426	C	C4'-C3'	-5.47	1.47	1.52
36	1	1453	A	C5-C4	-5.47	1.34	1.38
36	1	1907	C	C2-N3	-5.47	1.31	1.35
36	1	2727	A	C5-C4	-5.47	1.34	1.38
36	1	2956	A	C6-N6	-5.47	1.29	1.33
38	4	148	G	N3-C4	-5.47	1.31	1.35
40	L3	85	VAL	CB-CG1	-5.47	1.41	1.52
85	5	810	A	C6-N1	-5.47	1.31	1.35
85	5	921	A	N1-C2	-5.47	1.29	1.34
85	5	1569	U	N1-C6	5.47	1.42	1.38
85	5	2753	G	N1-C2	-5.47	1.33	1.37
85	5	2753	G	N3-C4	-5.47	1.31	1.35
38	8	47	C	N3-C4	-5.47	1.30	1.33
40	l3	130	PHE	CD2-CE2	-5.47	1.28	1.39
42	l5	126	GLU	CG-CD	5.47	1.60	1.51
1	2	1086	U	C2-N3	-5.47	1.33	1.37
36	1	972	A	C5-C4	-5.47	1.34	1.38
36	1	1154	A	C6-N6	-5.47	1.29	1.33
36	1	1186	G	N1-C2	-5.47	1.33	1.37
80	6	436	A	C5-C4	-5.47	1.34	1.38
80	6	534	A	N9-C4	5.47	1.41	1.37
80	6	1791	A	N9-C4	-5.47	1.34	1.37
85	5	563	U	C2-N3	-5.47	1.33	1.37
85	5	1470	U	N3-C4	-5.47	1.33	1.38
85	5	1857	C	C2-N3	-5.47	1.31	1.35
85	5	1909	A	C6-N6	-5.47	1.29	1.33
85	5	2658	G	C2-N3	-5.47	1.28	1.32
85	5	2869	U	N3-C4	-5.47	1.33	1.38
85	5	2941	A	C5-C4	-5.47	1.34	1.38
36	1	3148	U	N1-C2	-5.47	1.33	1.38
36	1	3266	G	C6-N1	-5.47	1.35	1.39
85	5	2907	G	N9-C8	-5.47	1.34	1.37
1	2	982	U	C2-N3	5.47	1.41	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S9	95	TYR	CD2-CE2	5.47	1.47	1.39
36	1	593	C	N1-C2	-5.47	1.34	1.40
36	1	684	G	N9-C4	-5.47	1.33	1.38
36	1	1083	G	C6-O6	-5.47	1.19	1.24
36	1	1170	A	N3-C4	-5.47	1.31	1.34
36	1	1183	C	C5-C6	-5.47	1.29	1.34
36	1	3106	A	C6-N1	-5.47	1.31	1.35
85	5	195	U	C4-O4	-5.47	1.19	1.23
85	5	1902	G	C6-N1	-5.47	1.35	1.39
85	5	2160	G	N3-C4	-5.47	1.31	1.35
1	2	748	G	N3-C4	5.47	1.39	1.35
1	2	1638	A	N7-C5	-5.47	1.35	1.39
36	1	54	C	C2-N3	-5.47	1.31	1.35
36	1	741	U	N3-C4	-5.47	1.33	1.38
36	1	2113	A	N9-C4	5.47	1.41	1.37
36	1	2328	U	N3-C4	-5.47	1.33	1.38
36	1	2394	G	C2-N3	-5.47	1.28	1.32
36	1	2525	G	C6-O6	-5.47	1.19	1.24
80	6	41	A	C5-C4	-5.47	1.34	1.38
80	6	984	G	N3-C4	-5.47	1.31	1.35
85	5	882	A	N9-C4	-5.47	1.34	1.37
85	5	2820	A	N9-C4	-5.47	1.34	1.37
1	2	1792	G	C6-N1	5.47	1.43	1.39
85	5	1681	U	N1-C2	-5.47	1.33	1.38
85	5	2193	U	C2-N3	-5.47	1.33	1.37
85	5	2780	A	C6-N1	-5.47	1.31	1.35
1	2	740	A	N9-C4	-5.46	1.34	1.37
1	2	1097	G	C5-C4	-5.46	1.34	1.38
1	2	1319	A	N9-C4	-5.46	1.34	1.37
1	2	1416	G	N7-C5	-5.46	1.35	1.39
36	1	1306	G	C5-C6	-5.46	1.36	1.42
37	3	7	G	N3-C4	-5.46	1.31	1.35
80	6	550	A	C6-N1	-5.46	1.31	1.35
85	5	252	U	N3-C4	5.46	1.43	1.38
85	5	1662	G	N7-C5	-5.46	1.35	1.39
85	5	2920	U	C4-C5	-5.46	1.38	1.43
85	5	2938	G	C5-C4	-5.46	1.34	1.38
85	5	3034	C	N1-C6	-5.46	1.33	1.37
36	1	100	A	C5-C4	-5.46	1.34	1.38
36	1	800	G	N7-C5	-5.46	1.35	1.39
36	1	2984	C	C4-C5	-5.46	1.38	1.43
80	6	923	A	N9-C8	-5.46	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	2	A	N3-C4	-5.46	1.31	1.34
1	2	1094	G	N9-C8	-5.46	1.34	1.37
36	1	104	G	N7-C5	-5.46	1.35	1.39
36	1	109	A	C5-C4	-5.46	1.34	1.38
36	1	363	G	C8-N7	-5.46	1.27	1.30
36	1	1947	G	N9-C8	-5.46	1.34	1.37
36	1	2150	G	N9-C8	-5.46	1.34	1.37
36	1	2971	A	N9-C8	5.46	1.42	1.37
36	1	3216	G	C6-N1	-5.46	1.35	1.39
85	5	573	C	N1-C6	-5.46	1.33	1.37
85	5	585	A	C5-C4	-5.46	1.34	1.38
85	5	906	A	P-O5'	-5.46	1.54	1.59
85	5	2249	G	C5-C4	-5.46	1.34	1.38
36	1	1401	A	C5-C4	-5.46	1.34	1.38
36	1	1469	C	C2-N3	-5.46	1.31	1.35
85	5	1051	U	N1-C6	-5.46	1.33	1.38
78	q2	78	LYS	CB-CG	5.46	1.67	1.52
85	5	390	G	N9-C4	-5.46	1.33	1.38
85	5	1095	U	C4-O4	5.46	1.28	1.23
85	5	1406	A	N9-C4	-5.46	1.34	1.37
85	5	1712	G	C6-N1	-5.46	1.35	1.39
85	5	1884	A	N9-C8	-5.46	1.33	1.37
85	5	3102	G	C6-N1	-5.46	1.35	1.39
42	l5	53	VAL	CB-CG2	-5.46	1.41	1.52
73	o7	26	SER	CA-CB	-5.46	1.44	1.52
36	1	43	A	C5-C4	-5.46	1.34	1.38
80	6	943	C	N1-C2	-5.46	1.34	1.40
85	5	802	C	O3'-P	-5.46	1.54	1.61
85	5	2955	U	C2-O2	-5.46	1.17	1.22
85	5	3294	A	C6-N1	-5.46	1.31	1.35
37	7	110	G	C5-C4	-5.46	1.34	1.38
36	1	2501	U	N1-C6	5.46	1.42	1.38
36	1	2640	A	C5-C4	-5.46	1.34	1.38
85	5	2313	A	C6-N1	-5.46	1.31	1.35
85	5	2607	G	N3-C4	-5.46	1.31	1.35
36	1	174	C	N3-C4	5.45	1.37	1.33
36	1	677	A	C5-C4	-5.45	1.34	1.38
36	1	1321	G	N9-C8	-5.45	1.34	1.37
36	1	1536	G	N9-C4	-5.45	1.33	1.38
36	1	2107	A	N3-C4	-5.45	1.31	1.34
36	1	2155	G	C5-C4	-5.45	1.34	1.38
36	1	2627	C	C2-O2	-5.45	1.19	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2697	A	C5-C4	-5.45	1.34	1.38
80	6	43	A	N7-C5	-5.45	1.35	1.39
80	6	674	C	N1-C2	5.45	1.45	1.40
85	5	821	U	C4'-C3'	-5.45	1.47	1.52
85	5	1490	A	C6-N6	-5.45	1.29	1.33
85	5	1695	U	C2-N3	-5.45	1.33	1.37
85	5	2702	A	C5-C6	-5.45	1.36	1.41
42	l5	280	GLU	CG-CD	5.45	1.60	1.51
36	1	1591	G	N7-C5	-5.45	1.35	1.39
36	1	3136	G	C6-N1	-5.45	1.35	1.39
78	Q2	43	TYR	CD1-CE1	-5.45	1.31	1.39
20	c8	21	ASN	CA-CB	5.45	1.67	1.53
85	5	1020	G	N3-C4	5.45	1.39	1.35
85	5	1319	G	N7-C5	-5.45	1.35	1.39
38	8	157	U	N1-C2	5.45	1.43	1.38
36	1	249	U	N1-C2	5.45	1.43	1.38
36	1	983	A	N9-C4	-5.45	1.34	1.37
38	4	104	A	C5-C6	-5.45	1.36	1.41
80	6	1028	C	N1-C6	-5.45	1.33	1.37
85	5	326	U	N3-C4	5.45	1.43	1.38
85	5	723	U	N1-C6	-5.45	1.33	1.38
85	5	1499	C	N3-C4	-5.45	1.30	1.33
85	5	2128	C	C4-C5	-5.45	1.38	1.43
85	5	2261	G	N9-C4	-5.45	1.33	1.38
85	5	2336	U	C2-O2	-5.45	1.17	1.22
85	5	2660	G	C5-C4	-5.45	1.34	1.38
38	8	79	A	N3-C4	5.45	1.38	1.34
40	l3	130	PHE	CD1-CE1	-5.45	1.28	1.39
42	l5	263	GLU	CG-CD	-5.45	1.43	1.51
36	1	1401	A	N3-C4	-5.45	1.31	1.34
36	1	1747	G	C2-N3	-5.45	1.28	1.32
85	5	3332	U	C4-O4	-5.45	1.19	1.23
37	7	4	U	C2-N3	-5.45	1.33	1.37
37	7	49	G	C6-N1	5.45	1.43	1.39
36	1	3027	A	C5-C4	5.45	1.42	1.38
85	5	1102	A	N3-C4	-5.45	1.31	1.34
36	1	878	G	N3-C4	-5.45	1.31	1.35
36	1	1758	G	C5-C6	5.45	1.47	1.42
36	1	2733	A	N7-C5	-5.45	1.35	1.39
36	1	3379	C	C4-N4	5.45	1.38	1.33
38	4	150	G	N9-C8	-5.45	1.34	1.37
80	6	10	G	N9-C8	-5.45	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1127	G	N3-C4	-5.45	1.31	1.35
85	5	753	C	C2-N3	-5.45	1.31	1.35
85	5	1441	G	C2-N2	-5.45	1.29	1.34
85	5	2559	U	N1-C6	-5.45	1.33	1.38
85	5	3128	G	C6-N1	-5.45	1.35	1.39
85	5	3173	G	N7-C5	-5.45	1.35	1.39
1	2	980	G	N7-C5	-5.44	1.35	1.39
36	1	364	G	C5-C6	-5.44	1.36	1.42
36	1	904	A	N9-C8	-5.44	1.33	1.37
36	1	937	G	N1-C2	-5.44	1.33	1.37
36	1	1880	U	N1-C2	-5.44	1.33	1.38
36	1	3253	G	N9-C8	5.44	1.41	1.37
36	1	21	G	N9-C8	-5.44	1.34	1.37
36	1	208	C	N3-C4	-5.44	1.30	1.33
36	1	928	C	C2-O2	-5.44	1.19	1.24
36	1	981	U	N3-C4	5.44	1.43	1.38
36	1	1178	G	C6-O6	-5.44	1.19	1.24
36	1	1560	G	N7-C5	5.44	1.42	1.39
85	5	637	C	N1-C2	-5.44	1.34	1.40
85	5	1415	U	C4'-C3'	-5.44	1.47	1.52
85	5	2365	C	C4-C5	-5.44	1.38	1.43
85	5	2529	A	N3-C4	-5.44	1.31	1.34
85	5	2695	A	C6-N6	-5.44	1.29	1.33
1	2	771	A	N3-C4	5.44	1.38	1.34
36	1	1672	U	N1-C2	-5.44	1.33	1.38
36	1	1818	U	C2-N3	5.44	1.41	1.37
36	1	2315	G	N1-C2	-5.44	1.33	1.37
36	1	2724	U	C2-O2	-5.44	1.17	1.22
80	6	15	U	N3-C4	-5.44	1.33	1.38
80	6	1160	A	N7-C5	-5.44	1.35	1.39
85	5	345	G	N9-C4	-5.44	1.33	1.38
85	5	759	U	N1-C2	-5.44	1.33	1.38
85	5	1080	A	N7-C5	-5.44	1.35	1.39
85	5	2623	G	C8-N7	-5.44	1.27	1.30
85	5	2951	G	C5-C4	-5.44	1.34	1.38
85	5	3308	C	N1-C2	-5.44	1.34	1.40
36	1	1566	A	N9-C4	5.44	1.41	1.37
36	1	2099	A	C5-C4	5.44	1.42	1.38
36	1	2615	G	C5-C4	-5.44	1.34	1.38
36	1	2937	G	N9-C8	-5.44	1.34	1.37
85	5	359	U	C4-C5	-5.44	1.38	1.43
1	2	1285	U	N1-C6	-5.44	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	579	G	N1-C2	-5.44	1.33	1.37
36	1	678	G	N9-C8	-5.44	1.34	1.37
36	1	844	G	N9-C8	-5.44	1.34	1.37
36	1	2938	G	N3-C4	-5.44	1.31	1.35
24	d2	6	VAL	CB-CG1	-5.44	1.41	1.52
85	5	73	C	N3-C4	-5.44	1.30	1.33
85	5	91	G	C2-N3	-5.44	1.28	1.32
85	5	1168	U	N1-C6	-5.44	1.33	1.38
85	5	2194	G	O3'-P	-5.44	1.54	1.61
85	5	2673	A	N3-C4	-5.44	1.31	1.34
1	2	848	A	C5-C6	-5.44	1.36	1.41
37	3	92	A	N3-C4	-5.44	1.31	1.34
85	5	858	A	N3-C4	-5.44	1.31	1.34
85	5	1305	U	N1-C6	-5.44	1.33	1.38
85	5	2175	U	P-O5'	-5.44	1.54	1.59
36	1	157	A	N7-C5	-5.43	1.35	1.39
36	1	672	A	N7-C5	-5.43	1.35	1.39
80	6	1655	A	N3-C4	-5.43	1.31	1.34
85	5	1126	G	N1-C2	-5.43	1.33	1.37
85	5	1186	G	C2-N3	-5.43	1.28	1.32
85	5	1802	C	C2-N3	-5.43	1.31	1.35
85	5	1893	A	C6-N1	-5.43	1.31	1.35
85	5	1904	C	N1-C6	-5.43	1.33	1.37
85	5	2917	G	C6-N1	-5.43	1.35	1.39
36	1	32	U	N1-C6	-5.43	1.33	1.38
36	1	251	G	C5-C6	5.43	1.47	1.42
36	1	251	G	C6-N1	5.43	1.43	1.39
36	1	1169	A	C6-N6	-5.43	1.29	1.33
36	1	2911	A	N7-C5	-5.43	1.35	1.39
80	6	1040	G	C5-C4	5.43	1.42	1.38
85	5	2817	A	N9-C8	-5.43	1.33	1.37
76	q0	89	TYR	CD1-CE1	5.43	1.47	1.39
36	1	2393	G	C5-C4	-5.43	1.34	1.38
36	1	3070	A	N9-C4	-5.43	1.34	1.37
36	1	3320	A	N3-C4	-5.43	1.31	1.34
80	6	611	U	C2-N3	-5.43	1.33	1.37
80	6	634	G	N3-C4	-5.43	1.31	1.35
80	6	871	G	C6-N1	5.43	1.43	1.39
85	5	971	G	C5-C4	-5.43	1.34	1.38
85	5	1607	U	C3'-O3'	5.43	1.49	1.42
85	5	2429	G	P-OP2	5.43	1.58	1.49
85	5	2515	A	N3-C4	-5.43	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	148	G	N9-C8	-5.43	1.34	1.37
36	1	196	G	N9-C8	-5.43	1.34	1.37
36	1	917	A	N9-C4	-5.43	1.34	1.37
36	1	2289	U	N1-C6	-5.43	1.33	1.38
36	1	2350	C	N3-C4	-5.43	1.30	1.33
36	1	2364	G	C2-N3	-5.43	1.28	1.32
36	1	3156	U	C2-N3	5.43	1.41	1.37
85	5	792	G	N9-C4	-5.43	1.33	1.38
85	5	825	U	P-OP1	-5.43	1.39	1.49
85	5	1442	U	N3-C4	-5.43	1.33	1.38
85	5	1839	A	N9-C8	-5.43	1.33	1.37
85	5	2276	G	C2-N3	-5.43	1.28	1.32
85	5	2745	G	N9-C4	-5.43	1.33	1.38
85	5	3200	G	C6-N1	-5.43	1.35	1.39
36	1	2426	U	N3-C4	-5.43	1.33	1.38
36	1	2786	G	N9-C8	-5.43	1.34	1.37
36	1	2820	A	C5-C4	-5.43	1.34	1.38
85	5	1155	C	C2-O2	-5.43	1.19	1.24
36	1	144	A	N7-C5	-5.43	1.35	1.39
36	1	804	C	C5-C6	-5.43	1.30	1.34
36	1	1020	G	C6-N1	5.43	1.43	1.39
36	1	2297	U	C2-O2	-5.43	1.17	1.22
80	6	392	G	C5-C4	-5.43	1.34	1.38
85	5	121	A	C5-C6	-5.43	1.36	1.41
85	5	676	G	C6-N1	-5.43	1.35	1.39
85	5	747	A	N3-C4	-5.43	1.31	1.34
85	5	1083	G	C5-C4	-5.43	1.34	1.38
85	5	2977	G	N3-C4	-5.43	1.31	1.35
85	5	3103	A	C6-N6	-5.43	1.29	1.33
41	14	71	VAL	CB-CG2	-5.43	1.41	1.52
36	1	421	G	C5-C4	-5.42	1.34	1.38
36	1	1047	A	N7-C5	-5.42	1.35	1.39
36	1	1334	U	N1-C6	-5.42	1.33	1.38
85	5	242	C	N3-C4	5.42	1.37	1.33
85	5	2172	A	C6-N1	-5.42	1.31	1.35
85	5	2416	U	C2-O2	-5.42	1.17	1.22
85	5	2850	G	C8-N7	-5.42	1.27	1.30
85	5	3187	A	C5-C4	-5.42	1.34	1.38
36	1	1109	U	N1-C2	-5.42	1.33	1.38
36	1	1115	G	C2-N2	-5.42	1.29	1.34
36	1	2790	A	C6-N1	-5.42	1.31	1.35
36	1	3296	A	C6-N1	-5.42	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	91	C	N3-C4	-5.42	1.30	1.33
80	6	148	A	C5-C4	-5.42	1.34	1.38
80	6	947	U	C2-N3	5.42	1.41	1.37
85	5	835	G	N9-C8	-5.42	1.34	1.37
85	5	1507	G	C8-N7	-5.42	1.27	1.30
36	1	971	G	C6-O6	-5.42	1.19	1.24
36	1	1145	G	C5-C6	-5.42	1.36	1.42
36	1	1664	G	C2-N3	-5.42	1.28	1.32
36	1	2376	G	C8-N7	5.42	1.34	1.30
36	1	3308	C	N1-C2	-5.42	1.34	1.40
80	6	555	A	C6-N6	-5.42	1.29	1.33
85	5	504	A	C6-N6	-5.42	1.29	1.33
85	5	945	C	N3-C4	-5.42	1.30	1.33
85	5	990	U	N3-C4	-5.42	1.33	1.38
85	5	2722	U	N3-C4	-5.42	1.33	1.38
85	5	2848	G	C2-N3	-5.42	1.28	1.32
1	2	1115	A	N3-C4	-5.42	1.31	1.34
1	2	1625	G	N3-C4	-5.42	1.31	1.35
36	1	220	G	C5-C4	-5.42	1.34	1.38
36	1	1302	A	N3-C4	-5.42	1.31	1.34
36	1	3188	G	N7-C5	-5.42	1.35	1.39
80	6	1027	A	N3-C4	-5.42	1.31	1.34
1	2	22	A	C5-C6	-5.42	1.36	1.41
36	1	176	G	C5-C4	5.42	1.42	1.38
36	1	405	U	C5-C6	-5.42	1.29	1.34
36	1	519	A	C6-N1	-5.42	1.31	1.35
36	1	1542	G	N9-C8	5.42	1.41	1.37
36	1	1804	A	N7-C5	-5.42	1.35	1.39
36	1	2313	A	N3-C4	-5.42	1.31	1.34
80	6	815	G	N9-C8	5.42	1.41	1.37
80	6	1362	U	N1-C2	5.42	1.43	1.38
85	5	20	A	C6-N1	-5.42	1.31	1.35
85	5	413	U	N1-C6	-5.42	1.33	1.38
85	5	844	G	N1-C2	-5.42	1.33	1.37
85	5	848	A	N3-C4	-5.42	1.31	1.34
85	5	943	U	P-O5'	-5.42	1.54	1.59
85	5	1321	G	C5-C6	-5.42	1.36	1.42
85	5	2247	G	N9-C4	-5.42	1.33	1.38
85	5	2780	A	C5-C6	-5.42	1.36	1.41
85	5	2789	U	N1-C2	-5.42	1.33	1.38
38	8	117	C	N1-C6	-5.42	1.33	1.37
36	1	1149	G	C5-C4	-5.42	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1738	C	N1-C6	-5.42	1.33	1.37
38	4	72	A	N7-C5	-5.42	1.35	1.39
80	6	1293	U	C4-C5	5.42	1.48	1.43
80	6	1727	G	N3-C4	-5.42	1.31	1.35
85	5	713	U	N1-C6	-5.42	1.33	1.38
85	5	828	A	N7-C5	-5.42	1.35	1.39
85	5	1357	G	C2-N3	-5.42	1.28	1.32
85	5	1885	U	N1-C6	-5.42	1.33	1.38
85	5	2320	A	N9-C8	-5.42	1.33	1.37
36	1	2913	C	C2-N3	-5.42	1.31	1.35
36	1	3336	A	C6-N1	-5.42	1.31	1.35
46	L9	151	VAL	CB-CG2	-5.42	1.41	1.52
80	6	1418	G	N1-C2	5.42	1.42	1.37
85	5	86	G	N9-C8	-5.42	1.34	1.37
85	5	841	A	C5-C6	-5.42	1.36	1.41
85	5	1430	U	N1-C2	-5.42	1.33	1.38
85	5	1744	G	N9-C4	-5.42	1.33	1.38
85	5	2131	A	C6-N1	-5.42	1.31	1.35
1	2	447	U	C2-N3	5.41	1.41	1.37
36	1	343	U	C4-C5	-5.41	1.38	1.43
36	1	1784	G	N9-C4	-5.41	1.33	1.38
36	1	2408	U	N3-C4	-5.41	1.33	1.38
85	5	808	A	C5-C4	-5.41	1.34	1.38
85	5	3309	G	N9-C8	-5.41	1.34	1.37
36	1	4	U	C2-O2	5.41	1.27	1.22
36	1	217	U	C2-O2	-5.41	1.17	1.22
36	1	1147	G	N9-C4	-5.41	1.33	1.38
80	6	1114	G	P-O5'	-5.41	1.54	1.59
36	1	66	A	C5-C6	-5.41	1.36	1.41
36	1	588	G	C6-O6	-5.41	1.19	1.24
36	1	1163	A	N9-C4	-5.41	1.34	1.37
80	6	453	U	C2-N3	5.41	1.41	1.37
80	6	481	A	N7-C5	5.41	1.42	1.39
36	1	1846	C	N1-C2	-5.41	1.34	1.40
36	1	2297	U	C2-N3	-5.41	1.33	1.37
36	1	2389	C	C4-C5	-5.41	1.38	1.43
80	6	99	C	N3-C4	-5.41	1.30	1.33
80	6	1652	C	N1-C2	-5.41	1.34	1.40
85	5	1434	G	C5-C6	-5.41	1.36	1.42
85	5	3133	C	C4-C5	-5.41	1.38	1.43
38	8	44	A	C6-N1	-5.41	1.31	1.35
1	2	1487	G	N7-C5	-5.41	1.36	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	580	C	C2-O2	-5.41	1.19	1.24
36	1	1404	G	N1-C2	-5.41	1.33	1.37
36	1	2206	G	N3-C4	5.41	1.39	1.35
36	1	214	G	C6-N1	-5.41	1.35	1.39
36	1	1176	C	C4-C5	-5.41	1.38	1.43
36	1	1918	C	N3-C4	-5.41	1.30	1.33
80	6	1286	U	C2-N3	-5.41	1.33	1.37
85	5	586	C	C5-C6	-5.41	1.30	1.34
85	5	1340	G	N1-C2	-5.41	1.33	1.37
85	5	1467	A	C5-C4	-5.41	1.34	1.38
85	5	2193	U	N3-C4	-5.41	1.33	1.38
36	1	923	C	C2-O2	5.40	1.29	1.24
38	4	151	C	C2-N3	5.40	1.40	1.35
1	2	629	U	C2-N3	-5.40	1.33	1.37
36	1	538	G	N3-C4	-5.40	1.31	1.35
36	1	1736	G	N3-C4	-5.40	1.31	1.35
36	1	2224	A	C6-N1	-5.40	1.31	1.35
36	1	3167	A	C5-C6	5.40	1.46	1.41
80	6	1022	C	N3-C4	-5.40	1.30	1.33
80	6	1131	A	C5-C6	-5.40	1.36	1.41
85	5	1370	G	C6-O6	-5.40	1.19	1.24
85	5	1894	U	C4'-C3'	-5.40	1.47	1.52
85	5	2112	U	N1-C2	-5.40	1.33	1.38
85	5	2302	G	C2-N3	-5.40	1.28	1.32
53	m7	154	GLU	CB-CG	5.40	1.62	1.52
1	2	47	A	C5-C6	-5.40	1.36	1.41
1	2	1650	A	N3-C4	-5.40	1.31	1.34
36	1	1150	A	C5-C6	-5.40	1.36	1.41
36	1	1458	U	C2-N3	-5.40	1.33	1.37
36	1	1566	A	N3-C4	5.40	1.38	1.34
36	1	2732	G	C6-O6	-5.40	1.19	1.24
36	1	3281	U	C2-O2	5.40	1.27	1.22
85	5	100	A	N7-C5	-5.40	1.36	1.39
85	5	1545	A	C5-C6	-5.40	1.36	1.41
85	5	2722	U	C2-N3	-5.40	1.33	1.37
85	5	3142	A	N7-C5	-5.40	1.36	1.39
37	7	52	G	N9-C8	-5.40	1.34	1.37
37	7	84	A	N1-C2	-5.40	1.29	1.34
37	7	89	G	N9-C8	-5.40	1.34	1.37
36	1	2629	U	N1-C6	-5.40	1.33	1.38
38	4	88	A	N3-C4	-5.40	1.31	1.34
38	4	109	A	N7-C5	-5.40	1.36	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	407	A	N7-C5	-5.40	1.36	1.39
85	5	1598	G	C5-C4	-5.40	1.34	1.38
85	5	1750	A	C5-C6	-5.40	1.36	1.41
85	5	2767	U	C2-N3	5.40	1.41	1.37
1	2	1093	G	C6-N1	-5.40	1.35	1.39
36	1	1498	A	C5-C4	-5.40	1.34	1.38
85	5	1319	G	C5-C4	-5.40	1.34	1.38
85	5	2385	G	C2-N3	-5.40	1.28	1.32
85	5	2395	G	C2-N3	-5.40	1.28	1.32
85	5	2519	A	N9-C8	5.40	1.42	1.37
36	1	1143	A	C6-N1	-5.40	1.31	1.35
36	1	2246	G	C2-N3	-5.40	1.28	1.32
36	1	2362	C	C4-C5	-5.40	1.38	1.43
1	2	1716	C	N1-C2	-5.39	1.34	1.40
36	1	1635	G	N9-C8	-5.39	1.34	1.37
36	1	1802	C	N1-C2	-5.39	1.34	1.40
36	1	3048	A	C6-N1	-5.39	1.31	1.35
38	4	102	U	C4-O4	5.39	1.27	1.23
44	L7	214	TRP	CB-CG	-5.39	1.40	1.50
80	6	569	C	N1-C6	-5.39	1.33	1.37
85	5	1586	G	N9-C8	-5.39	1.34	1.37
85	5	3205	G	N9-C8	-5.39	1.34	1.37
85	5	3308	C	C2-O2	-5.39	1.19	1.24
38	8	38	U	C2-O2	-5.39	1.17	1.22
36	1	57	A	C5-C6	-5.39	1.36	1.41
36	1	1101	G	N7-C5	-5.39	1.36	1.39
36	1	2244	A	N3-C4	-5.39	1.31	1.34
36	1	3306	U	C2-N3	-5.39	1.33	1.37
85	5	1345	G	N7-C5	5.39	1.42	1.39
85	5	1373	A	N3-C4	-5.39	1.31	1.34
85	5	1440	G	C5-C6	-5.39	1.36	1.42
85	5	2977	G	N9-C8	-5.39	1.34	1.37
40	L3	200	GLU	CG-CD	5.39	1.60	1.51
68	O2	119	VAL	CB-CG2	-5.39	1.41	1.52
71	O5	54	VAL	CB-CG2	-5.39	1.41	1.52
85	5	711	A	C6-N1	-5.39	1.31	1.35
85	5	724	U	C2-O2	-5.39	1.17	1.22
85	5	1075	A	N9-C8	-5.39	1.33	1.37
85	5	2607	G	N7-C5	-5.39	1.36	1.39
85	5	2942	C	N1-C6	-5.39	1.33	1.37
1	2	1008	A	N9-C4	-5.39	1.34	1.37
36	1	82	C	N1-C2	-5.39	1.34	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1383	G	C5-C6	-5.39	1.36	1.42
36	1	1460	A	N3-C4	-5.39	1.31	1.34
36	1	2213	A	C5-C4	-5.39	1.34	1.38
36	1	2223	A	N7-C5	-5.39	1.36	1.39
36	1	2742	C	N1-C6	-5.39	1.33	1.37
80	6	942	G	C5-C6	-5.39	1.36	1.42
85	5	215	G	C6-N1	-5.39	1.35	1.39
85	5	398	A	N3-C4	5.39	1.38	1.34
85	5	1487	G	N3-C4	-5.39	1.31	1.35
85	5	1497	C	C2-O2	-5.39	1.19	1.24
85	5	2420	C	N1-C2	-5.39	1.34	1.40
1	2	8	U	C4-C5	-5.39	1.38	1.43
36	1	2149	A	N3-C4	-5.39	1.31	1.34
80	6	1586	A	C6-N1	5.39	1.39	1.35
80	6	1744	A	C5-C4	-5.39	1.34	1.38
1	2	313	U	C2-N3	-5.39	1.33	1.37
1	2	1779	C	C2-N3	5.39	1.40	1.35
36	1	224	C	N1-C6	5.39	1.40	1.37
36	1	1026	A	C5-C6	5.39	1.45	1.41
36	1	1435	A	C8-N7	-5.39	1.27	1.31
36	1	1754	G	C5-C4	-5.39	1.34	1.38
36	1	1871	U	N1-C6	-5.39	1.33	1.38
36	1	2605	G	C2-N3	-5.39	1.28	1.32
36	1	2731	U	N3-C4	5.39	1.43	1.38
36	1	2806	U	N1-C2	-5.39	1.33	1.38
36	1	3111	U	C4-C5	-5.39	1.38	1.43
80	6	25	C	N3-C4	5.39	1.37	1.33
80	6	1145	U	N1-C2	-5.39	1.33	1.38
80	6	1296	A	N9-C8	-5.39	1.33	1.37
80	6	1623	C	N1-C6	-5.39	1.33	1.37
1	2	43	A	C6-N1	-5.38	1.31	1.35
36	1	300	G	N9-C8	-5.38	1.34	1.37
36	1	625	G	N1-C2	-5.38	1.33	1.37
36	1	714	G	N1-C2	-5.38	1.33	1.37
36	1	2387	A	C5-C4	-5.38	1.34	1.38
36	1	2850	G	N3-C4	-5.38	1.31	1.35
36	1	2963	C	C3'-C2'	-5.38	1.46	1.52
36	1	3067	C	N3-C4	-5.38	1.30	1.33
36	1	3264	G	N9-C8	-5.38	1.34	1.37
52	M6	8	VAL	CB-CG2	-5.38	1.41	1.52
80	6	332	U	C2-O2	-5.38	1.17	1.22
85	5	20	A	N9-C4	-5.38	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	373	A	N9-C8	-5.38	1.33	1.37
85	5	1515	A	C5-C4	-5.38	1.34	1.38
85	5	2134	G	N9-C8	-5.38	1.34	1.37
37	7	45	A	N1-C2	-5.38	1.29	1.34
1	2	43	A	N3-C4	-5.38	1.31	1.34
36	1	924	G	C6-N1	-5.38	1.35	1.39
36	1	2141	U	N1-C2	-5.38	1.33	1.38
36	1	2737	C	N1-C2	-5.38	1.34	1.40
38	4	8	C	N1-C2	-5.38	1.34	1.40
80	6	562	G	N3-C4	-5.38	1.31	1.35
85	5	2372	A	P-O5'	-5.38	1.54	1.59
85	5	2690	G	N9-C4	-5.38	1.33	1.38
38	8	52	A	N3-C4	-5.38	1.31	1.34
36	1	619	A	N1-C2	5.38	1.39	1.34
36	1	1801	U	C2-O2	-5.38	1.17	1.22
36	1	1814	A	C5-C4	5.38	1.42	1.38
36	1	2395	G	C2-N3	-5.38	1.28	1.32
36	1	2431	C	C2-N3	-5.38	1.31	1.35
36	1	2944	U	C4-C5	-5.38	1.38	1.43
85	5	143	G	N9-C4	-5.38	1.33	1.38
85	5	164	A	C6-N1	5.38	1.39	1.35
1	2	407	A	N3-C4	-5.38	1.31	1.34
36	1	1525	G	N3-C4	-5.38	1.31	1.35
36	1	2097	U	N1-C6	5.38	1.42	1.38
85	5	2172	A	C5-C4	-5.38	1.34	1.38
85	5	2413	A	C5-C6	-5.38	1.36	1.41
85	5	2538	U	C2-N3	5.38	1.41	1.37
1	2	994	G	C6-N1	5.38	1.43	1.39
36	1	351	A	C6-N1	-5.38	1.31	1.35
36	1	1543	G	C6-N1	5.38	1.43	1.39
85	5	99	A	N7-C5	-5.38	1.36	1.39
85	5	833	G	N3-C4	-5.38	1.31	1.35
85	5	979	U	C2-O2	5.38	1.27	1.22
85	5	1760	A	N9-C4	5.38	1.41	1.37
85	5	2939	G	P-O5'	-5.38	1.54	1.59
85	5	3374	U	N3-C4	-5.38	1.33	1.38
64	n8	52	TYR	CE2-CZ	-5.38	1.31	1.38
36	1	1362	G	C6-N1	-5.38	1.35	1.39
36	1	2965	U	N1-C6	-5.38	1.33	1.38
37	3	81	U	N1-C2	-5.38	1.33	1.38
40	L3	7	GLU	CG-CD	5.38	1.60	1.51
80	6	316	A	C6-N1	-5.38	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1004	U	N3-C4	-5.38	1.33	1.38
80	6	1655	A	N9-C4	-5.38	1.34	1.37
85	5	441	U	N1-C2	5.38	1.43	1.38
85	5	620	U	C4-O4	5.38	1.27	1.23
85	5	706	A	C5-C4	-5.38	1.34	1.38
85	5	1455	U	N1-C2	5.38	1.43	1.38
85	5	2209	U	C4-O4	5.38	1.27	1.23
85	5	2299	A	N9-C8	-5.38	1.33	1.37
85	5	2731	U	N1-C6	-5.38	1.33	1.38
85	5	2854	U	C4-C5	-5.38	1.38	1.43
38	8	43	A	N9-C4	-5.38	1.34	1.37
53	m7	146	ILE	CB-CG2	-5.38	1.36	1.52
36	1	2147	A	N7-C5	-5.38	1.36	1.39
36	1	2320	A	C6-N1	-5.38	1.31	1.35
36	1	1462	A	N3-C4	-5.37	1.31	1.34
36	1	1936	A	N9-C4	-5.37	1.34	1.37
40	L3	352	GLU	CG-CD	5.37	1.60	1.51
80	6	1296	A	N3-C4	-5.37	1.31	1.34
85	5	1567	U	N1-C2	5.37	1.43	1.38
85	5	1604	G	N7-C5	5.37	1.42	1.39
1	2	309	C	N3-C4	-5.37	1.30	1.33
1	2	1285	U	N3-C4	-5.37	1.33	1.38
1	2	1638	A	C5-C4	-5.37	1.34	1.38
36	1	136	G	N7-C5	5.37	1.42	1.39
36	1	333	G	N9-C8	-5.37	1.34	1.37
36	1	409	A	C5-C4	-5.37	1.34	1.38
36	1	574	U	N3-C4	-5.37	1.33	1.38
36	1	924	G	P-O5'	-5.37	1.54	1.59
36	1	1120	A	C5-C4	-5.37	1.34	1.38
36	1	1159	A	C5-C4	-5.37	1.34	1.38
36	1	1469	C	N3-C4	-5.37	1.30	1.33
38	8	3	A	N1-C2	-5.37	1.29	1.34
36	1	1108	U	C2-O2	-5.37	1.17	1.22
36	1	2247	G	N9-C4	-5.37	1.33	1.38
36	1	2701	U	N1-C6	-5.37	1.33	1.38
36	1	3369	G	N1-C2	-5.37	1.33	1.37
80	6	537	G	C5-C4	-5.37	1.34	1.38
85	5	770	G	N9-C8	-5.37	1.34	1.37
85	5	2876	C	C4'-C3'	-5.37	1.47	1.52
41	14	50	TYR	CD2-CE2	-5.37	1.31	1.39
36	1	757	C	N1-C2	-5.37	1.34	1.40
36	1	1132	C	C2-O2	-5.37	1.19	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1661	U	N1-C6	-5.37	1.33	1.38
85	5	13	A	N3-C4	-5.37	1.31	1.34
85	5	26	A	N9-C8	-5.37	1.33	1.37
85	5	249	U	C2-N3	5.37	1.41	1.37
85	5	1179	A	C6-N1	-5.37	1.31	1.35
85	5	3355	U	P-O5'	5.37	1.65	1.59
36	1	1459	C	C2-N3	-5.37	1.31	1.35
85	5	680	G	N9-C4	-5.37	1.33	1.38
1	2	245	U	C2-N3	-5.37	1.33	1.37
1	2	1265	U	C2-N3	-5.37	1.33	1.37
31	D9	39	CYS	CB-SG	-5.37	1.73	1.81
36	1	12	A	N9-C4	-5.37	1.34	1.37
36	1	662	U	C4-C5	-5.37	1.38	1.43
36	1	665	A	C4'-C3'	-5.37	1.47	1.52
36	1	2651	G	N7-C5	-5.37	1.36	1.39
38	4	96	A	C6-N6	-5.37	1.29	1.33
85	5	433	A	N9-C4	-5.37	1.34	1.37
85	5	517	G	N1-C2	-5.37	1.33	1.37
85	5	530	G	C6-O6	-5.37	1.19	1.24
85	5	1176	C	C2-N3	5.37	1.40	1.35
85	5	1475	A	N9-C8	-5.37	1.33	1.37
85	5	1864	A	C4'-C3'	-5.37	1.47	1.52
85	5	2198	A	C6-N1	-5.37	1.31	1.35
56	n0	103	VAL	CB-CG1	-5.37	1.41	1.52
36	1	44	U	C4-O4	-5.36	1.19	1.23
36	1	68	C	C2-N3	-5.36	1.31	1.35
36	1	283	G	N3-C4	-5.36	1.31	1.35
36	1	707	U	N3-C4	-5.36	1.33	1.38
36	1	780	A	C5-C6	-5.36	1.36	1.41
36	1	899	U	C2-O2	-5.36	1.17	1.22
36	1	1060	U	N1-C2	-5.36	1.33	1.38
36	1	2612	U	N1-C6	-5.36	1.33	1.38
38	4	105	A	N7-C5	-5.36	1.36	1.39
49	M3	113	VAL	CB-CG1	-5.36	1.41	1.52
85	5	374	A	C6-N6	-5.36	1.29	1.33
85	5	1251	A	P-OP2	5.36	1.58	1.49
85	5	2158	A	C5-C4	-5.36	1.34	1.38
85	5	2396	G	N7-C5	-5.36	1.36	1.39
85	5	2524	A	N9-C4	-5.36	1.34	1.37
85	5	3177	G	N9-C4	-5.36	1.33	1.38
85	5	3262	U	N1-C6	-5.36	1.33	1.38
38	8	103	G	C5-C6	-5.36	1.36	1.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	S6	122	GLU	CB-CG	5.36	1.62	1.52
36	1	710	A	C6-N1	-5.36	1.31	1.35
36	1	1883	A	N3-C4	-5.36	1.31	1.34
36	1	2772	C	N1-C2	5.36	1.45	1.40
85	5	333	G	N9-C4	-5.36	1.33	1.38
85	5	1828	A	C6-N1	-5.36	1.31	1.35
66	o0	69	TYR	CD1-CE1	5.36	1.47	1.39
36	1	685	G	C5-C4	-5.36	1.34	1.38
36	1	919	U	N1-C2	-5.36	1.33	1.38
80	6	591	A	C5-C4	-5.36	1.34	1.38
85	5	1152	G	C5-C6	-5.36	1.36	1.42
85	5	2389	C	C4-N4	-5.36	1.29	1.33
85	5	2924	U	N3-C4	-5.36	1.33	1.38
85	5	3195	U	C2-O2	5.36	1.27	1.22
36	1	203	G	C5-C4	-5.36	1.34	1.38
36	1	2880	U	N1-C6	-5.36	1.33	1.38
36	1	3011	A	C8-N7	-5.36	1.27	1.31
71	O5	100	VAL	CB-CG2	-5.36	1.41	1.52
80	6	989	U	C2-N3	5.36	1.41	1.37
80	6	998	A	N9-C4	-5.36	1.34	1.37
85	5	35	A	N7-C5	-5.36	1.36	1.39
1	2	691	C	N1-C6	5.36	1.40	1.37
36	1	37	U	C2-O2	-5.36	1.17	1.22
36	1	864	G	N9-C8	-5.36	1.34	1.37
36	1	1371	G	C1'-N9	-5.36	1.39	1.46
36	1	3266	G	N3-C4	-5.36	1.31	1.35
36	1	3297	U	N1-C2	-5.36	1.33	1.38
85	5	117	U	C2-O2	5.36	1.27	1.22
85	5	867	G	N3-C4	-5.36	1.31	1.35
85	5	1116	G	N1-C2	-5.36	1.33	1.37
85	5	1802	C	N1-C2	-5.36	1.34	1.40
85	5	2330	C	N3-C4	-5.36	1.30	1.33
37	7	54	U	C2-N3	-5.36	1.33	1.37
38	8	33	A	N9-C8	-5.36	1.33	1.37
69	o3	94	PHE	CD1-CE1	-5.36	1.28	1.39
1	2	353	A	C6-N1	-5.36	1.31	1.35
36	1	290	G	N3-C4	-5.36	1.31	1.35
36	1	516	A	N7-C5	-5.36	1.36	1.39
36	1	826	G	N3-C4	-5.36	1.31	1.35
36	1	885	U	N1-C6	-5.36	1.33	1.38
36	1	919	U	N3-C4	-5.36	1.33	1.38
36	1	1202	A	N3-C4	-5.36	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2133	U	N1-C6	-5.36	1.33	1.38
79	Q3	18	TYR	CE1-CZ	-5.36	1.31	1.38
85	5	685	G	N9-C4	-5.36	1.33	1.38
85	5	836	A	N9-C8	-5.36	1.33	1.37
85	5	1084	A	N9-C4	-5.36	1.34	1.37
85	5	1153	A	C6-N6	-5.36	1.29	1.33
85	5	1581	C	N1-C6	5.36	1.40	1.37
85	5	1668	G	N9-C8	-5.36	1.34	1.37
85	5	2989	U	N3-C4	-5.36	1.33	1.38
85	5	3332	U	C4-C5	-5.36	1.38	1.43
53	m7	51	VAL	CB-CG1	-5.36	1.41	1.52
36	1	713	U	N3-C4	-5.35	1.33	1.38
51	M5	150	TRP	CB-CG	-5.35	1.40	1.50
85	5	3095	U	C2-N3	-5.35	1.34	1.37
85	5	3213	A	C5-C4	-5.35	1.35	1.38
1	2	164	A	N3-C4	-5.35	1.31	1.34
1	2	910	C	N1-C2	-5.35	1.34	1.40
36	1	1454	A	N3-C4	-5.35	1.31	1.34
36	1	1914	G	C6-N1	-5.35	1.35	1.39
36	1	2652	U	N3-C4	-5.35	1.33	1.38
36	1	2844	C	N3-C4	5.35	1.37	1.33
36	1	3085	G	N3-C4	-5.35	1.31	1.35
80	6	364	G	N9-C4	-5.35	1.33	1.38
80	6	1169	G	N7-C5	-5.35	1.36	1.39
80	6	1660	A	N9-C4	-5.35	1.34	1.37
85	5	281	G	N3-C4	-5.35	1.31	1.35
85	5	1435	A	N9-C4	-5.35	1.34	1.37
85	5	1882	G	C5-C6	-5.35	1.36	1.42
54	m8	153	PHE	CB-CG	-5.35	1.42	1.51
75	O9	25	GLN	CG-CD	5.35	1.63	1.51
80	6	467	G	N1-C2	-5.35	1.33	1.37
85	5	1174	G	C5-C6	-5.35	1.36	1.42
36	1	407	A	C5-C4	-5.35	1.35	1.38
36	1	1481	A	N3-C4	-5.35	1.31	1.34
36	1	2863	G	N7-C5	-5.35	1.36	1.39
85	5	1192	C	C4-C5	5.35	1.47	1.43
85	5	2341	A	N9-C8	-5.35	1.33	1.37
85	5	2384	A	N7-C5	-5.35	1.36	1.39
85	5	2553	U	C2-O2	-5.35	1.17	1.22
1	2	938	A	N9-C4	-5.35	1.34	1.37
36	1	866	A	C5-C4	-5.35	1.35	1.38
36	1	901	G	C5-C6	-5.35	1.37	1.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1451	C	C4-C5	-5.35	1.38	1.43
36	1	2715	A	N1-C2	-5.35	1.29	1.34
36	1	3233	C	C2-N3	5.35	1.40	1.35
54	M8	172	PHE	CA-CB	-5.35	1.42	1.53
80	6	108	A	N3-C4	-5.35	1.31	1.34
85	5	2371	G	N9-C8	-5.35	1.34	1.37
85	5	3134	A	C6-N6	-5.35	1.29	1.33
69	o3	94	PHE	CD2-CE2	-5.35	1.28	1.39
36	1	748	U	C4-O4	-5.35	1.19	1.23
36	1	2308	C	N1-C6	-5.35	1.33	1.37
36	1	3206	C	C4-C5	-5.35	1.38	1.43
36	1	3239	G	C2-N3	-5.35	1.28	1.32
85	5	2938	G	C5-C6	-5.35	1.37	1.42
36	1	936	A	C2-N3	-5.34	1.28	1.33
36	1	2840	C	N1-C6	-5.34	1.33	1.37
36	1	3332	U	C5-C6	-5.34	1.29	1.34
37	3	95	A	C5-C6	-5.34	1.36	1.41
47	M0	8	CYS	CB-SG	-5.34	1.73	1.81
79	Q3	8	VAL	CB-CG1	-5.34	1.41	1.52
80	6	53	G	N9-C4	-5.34	1.33	1.38
85	5	270	U	C2-N3	5.34	1.41	1.37
85	5	424	G	C6-N1	5.34	1.43	1.39
36	1	677	A	C6-N6	-5.34	1.29	1.33
51	M5	202	TYR	CE1-CZ	-5.34	1.31	1.38
85	5	533	A	N3-C4	-5.34	1.31	1.34
85	5	2823	G	N7-C5	-5.34	1.36	1.39
85	5	3005	A	N9-C4	-5.34	1.34	1.37
1	2	93	A	N9-C8	-5.34	1.33	1.37
36	1	939	U	P-OP2	-5.34	1.39	1.49
36	1	2143	A	N3-C4	-5.34	1.31	1.34
47	M0	157	TYR	CD2-CE2	-5.34	1.31	1.39
68	O2	35	GLN	CG-CD	-5.34	1.38	1.51
85	5	883	A	C5-C6	-5.34	1.36	1.41
85	5	1085	A	N3-C4	-5.34	1.31	1.34
85	5	1195	A	N3-C4	-5.34	1.31	1.34
85	5	1377	G	N1-C2	-5.34	1.33	1.37
85	5	1517	G	N3-C4	-5.34	1.31	1.35
85	5	3238	G	N9-C8	5.34	1.41	1.37
36	1	1814	A	N7-C5	5.34	1.42	1.39
36	1	3107	U	N3-C4	-5.34	1.33	1.38
80	6	127	G	N7-C5	-5.34	1.36	1.39
80	6	1648	A	C5-C6	-5.34	1.36	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	64	G	N7-C5	-5.34	1.36	1.39
85	5	2700	G	C5-C4	-5.34	1.34	1.38
65	n9	28	LYS	CD-CE	5.34	1.64	1.51
36	1	101	G	C6-N1	-5.34	1.35	1.39
36	1	796	U	C4-C5	-5.34	1.38	1.43
36	1	2871	G	N1-C2	-5.34	1.33	1.37
80	6	413	U	N3-C4	-5.34	1.33	1.38
85	5	43	A	N9-C4	-5.34	1.34	1.37
85	5	72	C	C2-N3	-5.34	1.31	1.35
85	5	1578	C	N1-C6	5.34	1.40	1.37
85	5	2873	U	N1-C2	-5.34	1.33	1.38
85	5	3126	C	C2-N3	-5.34	1.31	1.35
36	1	1141	C	C4-C5	-5.34	1.38	1.43
36	1	1444	G	N9-C8	-5.34	1.34	1.37
36	1	1467	A	N9-C8	-5.34	1.33	1.37
36	1	1517	G	N9-C4	-5.34	1.33	1.38
36	1	1538	G	C6-N1	-5.34	1.35	1.39
36	1	1890	U	C4-C5	-5.34	1.38	1.43
36	1	2200	U	C2-O2	-5.34	1.17	1.22
40	L3	119	TYR	CD1-CE1	-5.34	1.31	1.39
42	L5	221	GLU	CG-CD	5.34	1.59	1.51
80	6	1667	A	C6-N1	-5.34	1.31	1.35
85	5	639	G	N9-C8	-5.34	1.34	1.37
85	5	2249	G	N3-C4	-5.34	1.31	1.35
85	5	2633	U	C2-N3	-5.34	1.34	1.37
85	5	2939	G	C2-N3	-5.34	1.28	1.32
1	2	72	A	N9-C4	5.33	1.41	1.37
36	1	1172	G	C2-N3	-5.33	1.28	1.32
36	1	1351	U	N1-C6	5.33	1.42	1.38
36	1	2818	U	C2-O2	-5.33	1.17	1.22
80	6	653	C	N1-C2	5.33	1.45	1.40
80	6	789	A	N3-C4	-5.33	1.31	1.34
80	6	796	A	C5-C6	-5.33	1.36	1.41
85	5	107	A	C6-N6	-5.33	1.29	1.33
85	5	272	G	C6-N1	-5.33	1.35	1.39
85	5	2367	A	C5-C4	-5.33	1.35	1.38
38	8	102	U	C2-N3	5.33	1.41	1.37
36	1	698	U	N1-C2	5.33	1.43	1.38
36	1	1373	A	N9-C8	-5.33	1.33	1.37
80	6	561	G	C6-N1	5.33	1.43	1.39
80	6	1011	G	N7-C5	-5.33	1.36	1.39
85	5	1939	G	N3-C4	-5.33	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2244	A	C6-N1	-5.33	1.31	1.35
85	5	2341	A	C6-N1	-5.33	1.31	1.35
85	5	3287	U	N1-C2	5.33	1.43	1.38
85	5	3369	G	N1-C2	-5.33	1.33	1.37
36	1	856	G	C5-C4	-5.33	1.34	1.38
36	1	1563	C	N1-C6	5.33	1.40	1.37
36	1	1840	U	C2-N3	-5.33	1.34	1.37
36	1	1845	G	C3'-C2'	-5.33	1.46	1.52
36	1	1952	G	N9-C8	5.33	1.41	1.37
37	3	84	A	C6-N6	-5.33	1.29	1.33
80	6	179	A	N7-C5	5.33	1.42	1.39
80	6	1230	A	N9-C4	5.33	1.41	1.37
85	5	1372	C	C2-N3	-5.33	1.31	1.35
85	5	1893	A	C5-C4	-5.33	1.35	1.38
85	5	2346	C	N1-C6	-5.33	1.33	1.37
85	5	2365	C	N1-C2	-5.33	1.34	1.40
85	5	2885	C	C2-O2	-5.33	1.19	1.24
36	1	404	G	N1-C2	-5.33	1.33	1.37
36	1	1680	G	N9-C4	-5.33	1.33	1.38
80	6	391	A	N7-C5	-5.33	1.36	1.39
85	5	1147	G	N3-C4	-5.33	1.31	1.35
85	5	2240	G	C6-N1	-5.33	1.35	1.39
53	m7	24	VAL	CB-CG2	-5.33	1.41	1.52
36	1	89	A	N3-C4	-5.33	1.31	1.34
36	1	1093	A	C6-N6	5.33	1.38	1.33
36	1	1431	G	C5-C4	-5.33	1.34	1.38
36	1	2147	A	C5-C4	-5.33	1.35	1.38
80	6	1757	G	C8-N7	-5.33	1.27	1.30
85	5	511	G	N3-C4	-5.33	1.31	1.35
85	5	1079	A	C5-C6	-5.33	1.36	1.41
85	5	3306	U	P-O5'	-5.33	1.54	1.59
42	l5	73	VAL	CB-CG2	-5.33	1.41	1.52
36	1	399	A	N7-C5	-5.33	1.36	1.39
36	1	1898	G	N3-C4	-5.33	1.31	1.35
36	1	2431	C	N3-C4	-5.33	1.30	1.33
85	5	1934	G	C6-N1	5.33	1.43	1.39
85	5	3044	G	N9-C8	-5.33	1.34	1.37
85	5	3153	U	C2-O2	5.33	1.27	1.22
37	7	97	A	N9-C8	-5.33	1.33	1.37
36	1	575	G	N3-C4	-5.33	1.31	1.35
36	1	645	A	N9-C8	-5.33	1.33	1.37
36	1	726	G	N9-C4	-5.33	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1073	U	N1-C6	-5.33	1.33	1.38
36	1	1494	U	C2-N3	-5.33	1.34	1.37
36	1	2199	G	N9-C8	-5.33	1.34	1.37
80	6	303	U	C2-N3	-5.33	1.34	1.37
80	6	1104	U	N1-C2	-5.33	1.33	1.38
85	5	201	A	N3-C4	-5.33	1.31	1.34
85	5	396	A	C5-C4	-5.33	1.35	1.38
85	5	1910	A	C5-C6	-5.33	1.36	1.41
85	5	3294	A	N9-C8	-5.33	1.33	1.37
37	7	114	U	C4-O4	5.33	1.27	1.23
1	2	1189	U	N1-C2	5.32	1.43	1.38
1	2	1723	A	N3-C4	-5.32	1.31	1.34
36	1	107	A	N9-C4	-5.32	1.34	1.37
36	1	214	G	C5-C4	-5.32	1.34	1.38
36	1	242	C	N3-C4	5.32	1.37	1.33
36	1	602	A	N7-C5	5.32	1.42	1.39
36	1	1321	G	C4'-C3'	-5.32	1.47	1.52
36	1	1369	A	N9-C8	-5.32	1.33	1.37
80	6	1582	U	N1-C6	-5.32	1.33	1.38
85	5	604	G	C5-C4	5.32	1.42	1.38
85	5	802	C	C4'-C3'	-5.32	1.47	1.52
85	5	1168	U	C2-N3	-5.32	1.34	1.37
85	5	2520	A	N7-C5	-5.32	1.36	1.39
85	5	3327	G	N1-C2	5.32	1.42	1.37
59	n3	75	PRO	CB-CG	-5.32	1.23	1.50
1	2	780	G	N1-C2	-5.32	1.33	1.37
36	1	2218	G	N3-C4	-5.32	1.31	1.35
80	6	889	U	C2-N3	-5.32	1.34	1.37
85	5	52	A	N3-C4	-5.32	1.31	1.34
85	5	540	U	C2-N3	5.32	1.41	1.37
85	5	600	G	C5-C6	-5.32	1.37	1.42
85	5	1085	A	P-O5'	-5.32	1.54	1.59
36	1	632	G	P-OP1	-5.32	1.40	1.49
36	1	2430	A	N7-C5	-5.32	1.36	1.39
36	1	3155	U	N3-C4	5.32	1.43	1.38
37	3	45	A	C6-N1	-5.32	1.31	1.35
56	N0	78	TRP	CE3-CZ3	-5.32	1.29	1.38
29	d7	37	CYS	CB-SG	5.32	1.91	1.82
85	5	870	G	C2-N3	-5.32	1.28	1.32
85	5	959	C	N3-C4	-5.32	1.30	1.33
85	5	1457	U	N1-C2	-5.32	1.33	1.38
85	5	2762	A	N9-C4	-5.32	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	964	U	N1-C2	-5.32	1.33	1.38
36	1	656	A	C3'-C2'	-5.32	1.46	1.52
36	1	980	A	N7-C5	5.32	1.42	1.39
85	5	1473	G	N9-C4	-5.32	1.33	1.38
85	5	1540	U	C2-N3	-5.32	1.34	1.37
85	5	2387	A	O3'-P	-5.32	1.54	1.61
36	1	1342	C	N1-C2	-5.32	1.34	1.40
36	1	1854	C	C2-N3	-5.32	1.31	1.35
36	1	2193	U	N1-C6	-5.32	1.33	1.38
36	1	2610	G	N1-C2	-5.32	1.33	1.37
36	1	3369	G	C6-N1	-5.32	1.35	1.39
41	L4	90	PHE	CD2-CE2	-5.32	1.28	1.39
80	6	90	C	N1-C6	-5.32	1.33	1.37
85	5	433	A	N3-C4	-5.32	1.31	1.34
85	5	1913	A	C6-N1	-5.32	1.31	1.35
37	7	91	G	N9-C8	-5.32	1.34	1.37
1	2	632	U	C2-N3	-5.32	1.34	1.37
36	1	909	G	N9-C4	-5.32	1.33	1.38
36	1	937	G	N7-C5	-5.32	1.36	1.39
36	1	1337	A	C6-N1	-5.32	1.31	1.35
36	1	2610	G	C2-N2	-5.32	1.29	1.34
59	N3	8	GLY	N-CA	5.32	1.54	1.46
80	6	385	A	N7-C5	-5.32	1.36	1.39
80	6	1084	A	C5-C4	-5.32	1.35	1.38
85	5	1011	A	N7-C5	-5.32	1.36	1.39
85	5	1362	G	N3-C4	-5.32	1.31	1.35
85	5	2503	G	N7-C5	5.32	1.42	1.39
85	5	2967	A	N9-C8	-5.32	1.33	1.37
85	5	3026	G	N7-C5	-5.32	1.36	1.39
36	1	397	A	C6-N6	-5.31	1.29	1.33
36	1	428	A	N9-C4	-5.31	1.34	1.37
36	1	660	A	C5-C4	-5.31	1.35	1.38
36	1	1092	C	N3-C4	5.31	1.37	1.33
80	6	253	A	N9-C4	-5.31	1.34	1.37
80	6	429	G	N7-C5	-5.31	1.36	1.39
80	6	1648	A	C6-N1	-5.31	1.31	1.35
85	5	2297	U	P-O5'	-5.31	1.54	1.59
36	1	567	G	N7-C5	-5.31	1.36	1.39
36	1	1700	G	N3-C4	-5.31	1.31	1.35
36	1	2623	G	N3-C4	-5.31	1.31	1.35
36	1	3171	U	N1-C2	5.31	1.43	1.38
38	4	106	C	N1-C2	-5.31	1.34	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	347	G	N7-C5	-5.31	1.36	1.39
85	5	342	A	C6-N1	-5.31	1.31	1.35
85	5	875	G	O3'-P	-5.31	1.54	1.61
85	5	1446	A	N9-C4	5.31	1.41	1.37
85	5	2646	C	N1-C6	-5.31	1.33	1.37
38	8	96	A	N9-C4	-5.31	1.34	1.37
67	o1	12	TYR	CE2-CZ	-5.31	1.31	1.38
85	5	296	A	N7-C5	-5.31	1.36	1.39
85	5	2535	A	N3-C4	5.31	1.38	1.34
85	5	2930	A	C8-N7	-5.31	1.27	1.31
38	8	45	C	N3-C4	-5.31	1.30	1.33
1	2	470	A	N9-C4	-5.31	1.34	1.37
36	1	300	G	N9-C4	-5.31	1.33	1.38
36	1	1368	U	C4-C5	-5.31	1.38	1.43
36	1	1590	G	N3-C4	-5.31	1.31	1.35
36	1	2933	A	C6-N6	-5.31	1.29	1.33
80	6	318	U	N1-C6	-5.31	1.33	1.38
85	5	89	A	N9-C4	-5.31	1.34	1.37
85	5	501	A	N3-C4	-5.31	1.31	1.34
85	5	614	C	P-OP1	-5.31	1.40	1.49
85	5	793	C	N1-C6	-5.31	1.33	1.37
85	5	828	A	N9-C4	-5.31	1.34	1.37
85	5	1172	G	N3-C4	-5.31	1.31	1.35
85	5	1540	U	N1-C6	-5.31	1.33	1.38
85	5	3032	A	C5-C4	-5.31	1.35	1.38
1	2	254	A	N9-C4	-5.31	1.34	1.37
36	1	953	G	N1-C2	-5.31	1.33	1.37
36	1	2378	C	N1-C2	-5.31	1.34	1.40
36	1	2441	A	C5-C4	5.31	1.42	1.38
36	1	2660	G	C5-C4	-5.31	1.34	1.38
36	1	3219	G	C6-O6	5.31	1.28	1.24
80	6	579	A	C6-N1	5.31	1.39	1.35
85	5	79	U	C2-N3	-5.31	1.34	1.37
85	5	928	C	N1-C6	-5.31	1.33	1.37
85	5	1599	G	N9-C4	-5.31	1.33	1.38
85	5	2414	G	C5-C6	-5.31	1.37	1.42
85	5	2635	A	C5-C6	-5.31	1.36	1.41
85	5	3145	C	P-OP1	-5.31	1.40	1.49
37	7	8	G	N3-C4	-5.31	1.31	1.35
37	7	88	G	C4'-C3'	-5.31	1.47	1.52
1	2	390	G	C5-C6	-5.31	1.37	1.42
36	1	911	C	C4-C5	-5.31	1.38	1.43

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	377	A	N9-C4	5.31	1.41	1.37
85	5	417	A	N7-C5	-5.31	1.36	1.39
85	5	2296	A	N1-C2	-5.31	1.29	1.34
36	1	1655	G	C8-N7	-5.30	1.27	1.30
36	1	2390	A	C6-N6	-5.30	1.29	1.33
36	1	2976	A	N9-C8	-5.30	1.33	1.37
80	6	1748	G	C6-O6	5.30	1.28	1.24
85	5	307	A	N9-C4	-5.30	1.34	1.37
85	5	1677	G	C6-N1	-5.30	1.35	1.39
85	5	2204	C	N3-C4	-5.30	1.30	1.33
36	1	2877	G	C6-N1	-5.30	1.35	1.39
36	1	2911	A	C6-N6	-5.30	1.29	1.33
38	4	31	G	C2-N3	-5.30	1.28	1.32
80	6	761	G	N1-C2	-5.30	1.33	1.37
85	5	1154	A	C6-N6	5.30	1.38	1.33
85	5	2616	C	N1-C6	-5.30	1.33	1.37
85	5	2919	A	C5-C4	-5.30	1.35	1.38
42	l5	45	ASN	CB-CG	-5.30	1.38	1.51
1	2	540	G	N3-C4	5.30	1.39	1.35
36	1	405	U	C4-O4	-5.30	1.19	1.23
36	1	2678	A	C6-N1	-5.30	1.31	1.35
38	4	140	G	N7-C5	-5.30	1.36	1.39
62	N6	88	GLU	CB-CG	5.30	1.62	1.52
80	6	341	A	N3-C4	-5.30	1.31	1.34
85	5	432	G	N3-C4	-5.30	1.31	1.35
85	5	585	A	N9-C8	-5.30	1.33	1.37
85	5	883	A	N7-C5	-5.30	1.36	1.39
85	5	1085	A	C6-N1	-5.30	1.31	1.35
85	5	1418	A	C5-C6	-5.30	1.36	1.41
85	5	1476	G	N7-C5	-5.30	1.36	1.39
85	5	1726	C	N1-C6	-5.30	1.33	1.37
48	m1	157	GLU	CG-CD	5.30	1.59	1.51
1	2	119	A	N9-C4	-5.30	1.34	1.37
36	1	301	G	N3-C4	-5.30	1.31	1.35
36	1	2522	G	C8-N7	5.30	1.34	1.30
36	1	3002	C	N3-C4	-5.30	1.30	1.33
36	1	3225	C	N1-C6	-5.30	1.33	1.37
80	6	165	G	N7-C5	-5.30	1.36	1.39
85	5	327	A	C5-C6	-5.30	1.36	1.41
85	5	2135	U	N1-C6	-5.30	1.33	1.38
38	8	23	U	N1-C2	-5.30	1.33	1.38
79	q3	26	VAL	CB-CG2	-5.30	1.41	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	171	G	C6-N1	5.30	1.43	1.39
36	1	1598	G	C6-N1	-5.30	1.35	1.39
85	5	2939	G	N3-C4	-5.30	1.31	1.35
36	1	269	G	C5-C4	-5.30	1.34	1.38
36	1	300	G	C6-N1	-5.30	1.35	1.39
36	1	1485	G	C6-N1	5.30	1.43	1.39
36	1	2758	A	C5-C4	-5.30	1.35	1.38
36	1	2875	U	C4-C5	-5.30	1.38	1.43
36	1	2932	U	N3-C4	-5.30	1.33	1.38
36	1	3219	G	N3-C4	-5.30	1.31	1.35
56	N0	79	VAL	CB-CG2	-5.30	1.41	1.52
80	6	1398	U	N1-C2	5.30	1.43	1.38
85	5	317	A	C5-C6	-5.30	1.36	1.41
85	5	976	U	N3-C4	-5.30	1.33	1.38
85	5	1139	G	C6-N1	-5.30	1.35	1.39
85	5	1744	G	N7-C5	-5.30	1.36	1.39
85	5	1907	C	C4-C5	-5.30	1.38	1.43
85	5	2124	G	C6-N1	5.30	1.43	1.39
85	5	217	U	N1-C2	-5.29	1.33	1.38
85	5	1463	U	C2-N3	-5.29	1.34	1.37
85	5	1519	G	N7-C5	-5.29	1.36	1.39
85	5	2647	A	O3'-P	-5.29	1.54	1.61
85	5	2904	U	C2-N3	-5.29	1.34	1.37
85	5	3045	G	N9-C8	-5.29	1.34	1.37
85	5	3100	U	C4-C5	-5.29	1.38	1.43
37	7	102	A	N3-C4	-5.29	1.31	1.34
1	2	1562	U	N1-C6	-5.29	1.33	1.38
36	1	570	A	C5-C6	-5.29	1.36	1.41
36	1	2824	G	C5-C6	-5.29	1.37	1.42
85	5	106	A	C5-C4	-5.29	1.35	1.38
85	5	170	G	C6-O6	5.29	1.28	1.24
85	5	318	A	N3-C4	-5.29	1.31	1.34
85	5	642	U	N1-C2	-5.29	1.33	1.38
85	5	1111	U	C4-O4	-5.29	1.19	1.23
85	5	2367	A	C5-C6	-5.29	1.36	1.41
85	5	2601	A	N7-C5	-5.29	1.36	1.39
85	5	2796	G	N1-C2	-5.29	1.33	1.37
85	5	3139	A	C5-C4	-5.29	1.35	1.38
85	5	3298	C	N1-C6	-5.29	1.33	1.37
1	2	389	G	C6-N1	-5.29	1.35	1.39
1	2	1567	G	C6-N1	-5.29	1.35	1.39
1	2	1593	G	C6-N1	-5.29	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2661	G	C6-N1	-5.29	1.35	1.39
36	1	3367	C	N1-C6	-5.29	1.33	1.37
80	6	100	A	N9-C8	-5.29	1.33	1.37
80	6	616	G	N9-C8	-5.29	1.34	1.37
80	6	1673	G	C6-N1	5.29	1.43	1.39
85	5	980	A	N9-C4	5.29	1.41	1.37
85	5	1429	G	N9-C8	-5.29	1.34	1.37
85	5	3371	G	C8-N7	-5.29	1.27	1.30
36	1	1693	C	N1-C6	-5.29	1.33	1.37
80	6	599	A	C6-N1	-5.29	1.31	1.35
85	5	340	C	C4-C5	-5.29	1.38	1.43
85	5	1182	A	N3-C4	-5.29	1.31	1.34
85	5	2647	A	C6-N1	-5.29	1.31	1.35
85	5	2802	A	N7-C5	-5.29	1.36	1.39
36	1	366	A	N9-C8	-5.29	1.33	1.37
36	1	3117	C	N3-C4	5.29	1.37	1.33
36	1	3326	G	N9-C8	-5.29	1.34	1.37
50	M4	138	ALA	CA-CB	5.29	1.63	1.52
85	5	885	U	C2-O2	-5.29	1.17	1.22
85	5	2411	U	N3-C4	-5.29	1.33	1.38
85	5	2800	G	N1-C2	-5.29	1.33	1.37
36	1	1060	U	C4-O4	-5.29	1.19	1.23
36	1	1514	G	N9-C4	-5.29	1.33	1.38
80	6	73	U	C2-N3	5.29	1.41	1.37
37	7	94	C	N1-C6	-5.29	1.33	1.37
1	2	390	G	N7-C5	-5.29	1.36	1.39
36	1	665	A	N9-C4	-5.29	1.34	1.37
36	1	1441	G	C2-N3	-5.29	1.28	1.32
36	1	1923	C	N3-C4	-5.29	1.30	1.33
36	1	2871	G	C6-N1	-5.29	1.35	1.39
36	1	3101	G	C5-C4	-5.29	1.34	1.38
36	1	3365	U	C2-O2	-5.29	1.17	1.22
69	O3	53	TYR	CE2-CZ	-5.29	1.31	1.38
85	5	277	G	N3-C4	-5.29	1.31	1.35
85	5	846	A	C6-N1	-5.29	1.31	1.35
85	5	954	U	N1-C2	5.29	1.43	1.38
85	5	1136	A	C5-C6	-5.29	1.36	1.41
85	5	1144	U	N1-C6	-5.29	1.33	1.38
85	5	2723	U	N1-C2	-5.29	1.33	1.38
85	5	3199	G	N3-C4	-5.29	1.31	1.35
36	1	110	G	N9-C4	-5.28	1.33	1.38
36	1	1300	G	N1-C2	-5.28	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2725	U	C2-N3	-5.28	1.34	1.37
38	4	98	U	N1-C6	-5.28	1.33	1.38
80	6	152	U	C2-N3	-5.28	1.34	1.37
80	6	540	G	N9-C8	-5.28	1.34	1.37
85	5	1005	G	N7-C5	-5.28	1.36	1.39
85	5	1789	G	C5-C4	-5.28	1.34	1.38
85	5	2895	G	C2-N2	-5.28	1.29	1.34
37	7	86	U	N1-C6	-5.28	1.33	1.38
36	1	77	A	N7-C5	-5.28	1.36	1.39
36	1	2827	U	C2-N3	-5.28	1.34	1.37
85	5	2325	G	C6-N1	-5.28	1.35	1.39
1	2	976	A	C6-N1	-5.28	1.31	1.35
36	1	885	U	C4'-C3'	-5.28	1.47	1.52
36	1	929	A	N3-C4	-5.28	1.31	1.34
36	1	1538	G	C3'-C2'	-5.28	1.47	1.52
36	1	2791	G	C2-N3	-5.28	1.28	1.32
37	3	49	G	N7-C5	5.28	1.42	1.39
47	M0	9	TYR	CE1-CZ	-5.28	1.31	1.38
80	6	567	A	N3-C4	-5.28	1.31	1.34
80	6	632	U	C2-N3	-5.28	1.34	1.37
85	5	2142	A	C5-C6	5.28	1.45	1.41
85	5	2163	C	N3-C4	-5.28	1.30	1.33
36	1	32	U	C2-O2	-5.28	1.17	1.22
80	6	1439	C	N1-C6	5.28	1.40	1.37
37	7	79	A	C5-C6	-5.28	1.36	1.41
1	2	1113	G	C6-N1	-5.28	1.35	1.39
36	1	1027	A	C6-N1	5.28	1.39	1.35
36	1	1284	C	P-O5'	5.28	1.65	1.59
36	1	1491	A	N7-C5	-5.28	1.36	1.39
36	1	1736	G	C6-N1	-5.28	1.35	1.39
36	1	1928	G	C5-C4	-5.28	1.34	1.38
36	1	2288	G	N3-C4	-5.28	1.31	1.35
36	1	2382	G	C5-C4	-5.28	1.34	1.38
85	5	386	A	N3-C4	-5.28	1.31	1.34
85	5	557	A	N9-C4	-5.28	1.34	1.37
85	5	681	U	C4-O4	5.28	1.27	1.23
85	5	926	A	C5-C6	-5.28	1.36	1.41
85	5	2676	A	N7-C5	-5.28	1.36	1.39
85	5	2948	C	N1-C2	-5.28	1.34	1.40
85	5	2962	U	C4-C5	-5.28	1.38	1.43
1	2	1538	A	N7-C5	-5.28	1.36	1.39
36	1	524	U	N3-C4	-5.28	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1168	U	N3-C4	-5.28	1.33	1.38
36	1	1325	U	N1-C2	-5.28	1.33	1.38
36	1	3174	A	N3-C4	-5.28	1.31	1.34
37	3	87	G	N7-C5	-5.28	1.36	1.39
40	L3	255	TRP	CE2-CZ2	-5.28	1.30	1.39
85	5	1457	U	C2-O2	-5.28	1.17	1.22
85	5	1673	G	N1-C2	-5.28	1.33	1.37
85	5	1831	U	C4-O4	5.28	1.27	1.23
85	5	2403	G	N9-C8	-5.28	1.34	1.37
85	5	3086	A	N9-C8	-5.28	1.33	1.37
85	5	3238	G	N7-C5	5.28	1.42	1.39
57	n1	36	VAL	CB-CG2	-5.28	1.41	1.52
36	1	1375	G	N9-C4	-5.27	1.33	1.38
36	1	2691	A	N9-C8	-5.27	1.33	1.37
36	1	2902	A	N9-C8	-5.27	1.33	1.37
85	5	909	G	N1-C2	-5.27	1.33	1.37
36	1	425	G	N9-C4	-5.27	1.33	1.38
36	1	1734	G	N3-C4	-5.27	1.31	1.35
36	1	1888	U	C4-O4	-5.27	1.19	1.23
36	1	2700	G	N7-C5	-5.27	1.36	1.39
36	1	3349	C	C2-N3	5.27	1.40	1.35
38	4	105	A	N9-C4	5.27	1.41	1.37
85	5	672	A	C6-N6	-5.27	1.29	1.33
85	5	878	G	N7-C5	-5.27	1.36	1.39
85	5	1211	U	C4-O4	-5.27	1.19	1.23
85	5	3097	C	N1-C6	-5.27	1.33	1.37
43	l6	61	ASN	CB-CG	-5.27	1.39	1.51
36	1	3337	G	N7-C5	-5.27	1.36	1.39
38	4	20	U	N1-C6	-5.27	1.33	1.38
80	6	1005	A	N9-C4	-5.27	1.34	1.37
85	5	315	C	N3-C4	-5.27	1.30	1.33
85	5	939	U	N1-C6	-5.27	1.33	1.38
85	5	2506	U	C2-O2	5.27	1.27	1.22
36	1	142	C	C4'-C3'	-5.27	1.47	1.52
36	1	172	G	N3-C4	5.27	1.39	1.35
36	1	2345	A	N7-C5	-5.27	1.36	1.39
85	5	2422	C	N3-C4	-5.27	1.30	1.33
85	5	3017	A	N9-C8	-5.27	1.33	1.37
85	5	3120	C	C4-C5	-5.27	1.38	1.43
53	m7	24	VAL	CB-CG1	-5.27	1.41	1.52
36	1	1152	G	N9-C4	-5.27	1.33	1.38
38	4	33	A	N9-C8	-5.27	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	N5	114	VAL	CB-CG1	-5.27	1.41	1.52
80	6	368	U	C2-N3	-5.27	1.34	1.37
85	5	530	G	N7-C5	-5.27	1.36	1.39
85	5	544	C	N1-C2	5.27	1.45	1.40
85	5	2144	A	N3-C4	5.27	1.38	1.34
85	5	2640	A	O3'-P	-5.27	1.54	1.61
85	5	2835	U	C4-C5	-5.27	1.38	1.43
85	5	2933	A	C6-N6	-5.27	1.29	1.33
85	5	2985	C	C2-O2	-5.27	1.19	1.24
37	7	88	G	C2-N2	-5.27	1.29	1.34
36	1	746	A	C5-C4	-5.27	1.35	1.38
36	1	1593	A	N9-C8	-5.27	1.33	1.37
36	1	2369	G	C5-C6	5.27	1.47	1.42
36	1	3111	U	C2-N3	-5.27	1.34	1.37
80	6	1715	G	N3-C4	5.27	1.39	1.35
85	5	61	A	N9-C8	-5.27	1.33	1.37
38	8	114	G	C6-O6	5.27	1.28	1.24
1	2	1593	G	N9-C8	-5.26	1.34	1.37
36	1	370	U	C2-O2	-5.26	1.17	1.22
36	1	409	A	N3-C4	-5.26	1.31	1.34
36	1	1057	A	C5-C4	-5.26	1.35	1.38
36	1	2659	G	N9-C4	-5.26	1.33	1.38
80	6	926	A	C5-C6	-5.26	1.36	1.41
85	5	1061	A	C6-N1	-5.26	1.31	1.35
85	5	2831	G	C2-N2	-5.26	1.29	1.34
85	5	2846	U	P-O5'	5.26	1.65	1.59
86	l8	29	SER	CA-CB	-5.26	1.45	1.52
38	4	53	A	N9-C8	-5.26	1.33	1.37
85	5	863	C	C5-C6	-5.26	1.30	1.34
85	5	1322	U	N1-C2	-5.26	1.33	1.38
50	m4	36	VAL	CB-CG2	-5.26	1.41	1.52
36	1	54	C	C4-N4	-5.26	1.29	1.33
36	1	2666	C	N1-C2	-5.26	1.34	1.40
36	1	2717	U	C5-C6	-5.26	1.29	1.34
36	1	2721	A	N9-C4	-5.26	1.34	1.37
80	6	465	G	N9-C4	-5.26	1.33	1.38
80	6	1041	G	N7-C5	-5.26	1.36	1.39
80	6	1650	U	C4-C5	-5.26	1.38	1.43
80	6	1662	G	N9-C8	-5.26	1.34	1.37
85	5	689	U	N3-C4	-5.26	1.33	1.38
85	5	1395	G	C6-O6	-5.26	1.19	1.24
85	5	2389	C	C4-C5	-5.26	1.38	1.43

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	639	G	N7-C5	-5.26	1.36	1.39
36	1	1855	U	N3-C4	-5.26	1.33	1.38
36	1	2549	G	C5-C6	5.26	1.47	1.42
37	3	24	A	N7-C5	-5.26	1.36	1.39
80	6	1748	G	N1-C2	5.26	1.42	1.37
85	5	544	C	N1-C6	5.26	1.40	1.37
85	5	699	A	C5-C6	-5.26	1.36	1.41
85	5	983	A	C6-N1	-5.26	1.31	1.35
85	5	1118	C	C3'-C2'	-5.26	1.47	1.52
1	2	370	A	N9-C4	5.26	1.41	1.37
36	1	1850	A	C5-C6	-5.26	1.36	1.41
36	1	2635	A	N9-C4	5.26	1.41	1.37
85	5	1079	A	N9-C4	-5.26	1.34	1.37
36	1	376	G	N9-C8	-5.26	1.34	1.37
36	1	1300	G	P-OP1	-5.26	1.40	1.49
36	1	2139	A	N3-C4	-5.26	1.31	1.34
36	1	2995	A	N3-C4	-5.26	1.31	1.34
80	6	794	U	C2-O2	5.26	1.27	1.22
85	5	1179	A	C5-C4	-5.26	1.35	1.38
49	m3	118	GLU	CG-CD	5.26	1.59	1.51
1	2	1006	A	N9-C4	-5.25	1.34	1.37
36	1	294	U	N1-C2	-5.25	1.33	1.38
85	5	9	U	N1-C2	-5.25	1.33	1.38
85	5	822	G	N7-C5	-5.25	1.36	1.39
85	5	1142	G	C5-C4	-5.25	1.34	1.38
85	5	1382	G	N9-C4	-5.25	1.33	1.38
85	5	2933	A	N9-C4	-5.25	1.34	1.37
85	5	2990	G	P-O5'	-5.25	1.54	1.59
85	5	3066	U	N3-C4	-5.25	1.33	1.38
85	5	3267	A	C5-C4	-5.25	1.35	1.38
37	7	14	U	N1-C6	-5.25	1.33	1.38
36	1	2608	G	C5-C6	-5.25	1.37	1.42
85	5	914	A	C5-C4	-5.25	1.35	1.38
85	5	1433	A	N3-C4	-5.25	1.31	1.34
85	5	1894	U	C2-N3	-5.25	1.34	1.37
43	l6	52	VAL	CB-CG1	-5.25	1.41	1.52
69	o3	8	TYR	CE2-CZ	-5.25	1.31	1.38
1	2	22	A	N9-C4	-5.25	1.34	1.37
1	2	1065	C	N1-C2	5.25	1.45	1.40
36	1	165	A	N9-C8	5.25	1.42	1.37
36	1	655	C	N3-C4	-5.25	1.30	1.33
36	1	1798	A	C5-C6	-5.25	1.36	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2161	G	C5-C6	-5.25	1.37	1.42
36	1	2412	G	C5-C4	-5.25	1.34	1.38
38	4	139	U	N1-C6	-5.25	1.33	1.38
85	5	97	U	C4-O4	5.25	1.27	1.23
85	5	220	G	N1-C2	-5.25	1.33	1.37
85	5	2733	A	C8-N7	-5.25	1.27	1.31
85	5	3157	U	N1-C6	5.25	1.42	1.38
36	1	661	G	P-OP2	-5.25	1.40	1.49
85	5	2194	G	C6-N1	-5.25	1.35	1.39
59	n3	137	VAL	CB-CG1	-5.25	1.41	1.52
1	2	1775	G	N3-C4	-5.25	1.31	1.35
36	1	970	A	C6-N6	-5.25	1.29	1.33
36	1	1305	U	C2-N3	-5.25	1.34	1.37
36	1	1695	U	C2-N3	-5.25	1.34	1.37
36	1	1915	A	N9-C4	-5.25	1.34	1.37
36	1	2938	G	C5-C6	-5.25	1.37	1.42
36	1	3169	U	N1-C2	5.25	1.43	1.38
37	3	102	A	N3-C4	-5.25	1.31	1.34
41	L4	52	VAL	CB-CG2	-5.25	1.41	1.52
80	6	471	A	N9-C4	-5.25	1.34	1.37
80	6	865	A	C6-N1	-5.25	1.31	1.35
80	6	1160	A	P-OP2	5.25	1.57	1.49
80	6	1698	G	N3-C4	5.25	1.39	1.35
85	5	237	G	N1-C2	5.25	1.42	1.37
85	5	912	G	C8-N7	-5.25	1.27	1.30
85	5	1172	G	N1-C2	-5.25	1.33	1.37
85	5	3136	G	N1-C2	-5.25	1.33	1.37
56	n0	134	ASP	CB-CG	-5.25	1.40	1.51
1	2	412	A	C5-C4	5.25	1.42	1.38
36	1	66	A	N3-C4	-5.25	1.31	1.34
36	1	324	A	N7-C5	-5.25	1.36	1.39
36	1	952	A	C5-C6	-5.25	1.36	1.41
36	1	1354	G	N9-C8	5.25	1.41	1.37
36	1	1394	A	N9-C4	-5.25	1.34	1.37
36	1	1443	G	N9-C4	-5.25	1.33	1.38
36	1	1536	G	C6-O6	-5.25	1.19	1.24
36	1	3347	A	C6-N1	5.25	1.39	1.35
37	3	92	A	N9-C4	-5.25	1.34	1.37
38	4	56	G	N3-C4	-5.25	1.31	1.35
85	5	106	A	C5-C6	-5.25	1.36	1.41
85	5	1128	U	N1-C6	-5.25	1.33	1.38
85	5	1190	A	N9-C8	-5.25	1.33	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1372	C	N1-C2	-5.25	1.34	1.40
85	5	2769	A	C5-C6	5.25	1.45	1.41
67	o1	64	VAL	CB-CG2	-5.25	1.41	1.52
36	1	250	U	C4-O4	5.25	1.27	1.23
36	1	1418	A	N7-C5	-5.25	1.36	1.39
36	1	1801	U	N3-C4	-5.25	1.33	1.38
36	1	2379	U	C5-C6	-5.25	1.29	1.34
38	4	149	A	N9-C4	-5.25	1.34	1.37
85	5	1871	U	C2-O2	-5.25	1.17	1.22
85	5	2507	C	N3-C4	5.25	1.37	1.33
38	8	134	G	C8-N7	-5.25	1.27	1.30
36	1	361	A	C5-C6	-5.24	1.36	1.41
36	1	1098	A	N3-C4	-5.24	1.31	1.34
36	1	1327	C	N1-C2	-5.24	1.34	1.40
36	1	1406	A	C5-C6	-5.24	1.36	1.41
36	1	2693	C	N1-C2	-5.24	1.34	1.40
38	4	58	G	N1-C2	-5.24	1.33	1.37
85	5	165	A	N3-C4	5.24	1.38	1.34
85	5	822	G	N9-C8	-5.24	1.34	1.37
85	5	1342	C	O3'-P	-5.24	1.54	1.61
85	5	1582	C	C2-N3	5.24	1.40	1.35
85	5	2809	C	P-OP2	-5.24	1.40	1.49
37	7	78	U	N1-C6	-5.24	1.33	1.38
38	8	33	A	N7-C5	-5.24	1.36	1.39
36	1	951	A	C5-C6	-5.24	1.36	1.41
36	1	980	A	C5-C6	5.24	1.45	1.41
85	5	2640	A	C5-C6	-5.24	1.36	1.41
85	5	2708	C	C4-C5	-5.24	1.38	1.43
85	5	3107	U	N1-C6	-5.24	1.33	1.38
85	5	3209	A	C5-C4	5.24	1.42	1.38
85	5	3387	U	N1-C2	-5.24	1.33	1.38
1	2	1010	A	N9-C4	-5.24	1.34	1.37
1	2	1486	A	N7-C5	-5.24	1.36	1.39
36	1	2178	A	N9-C8	-5.24	1.33	1.37
36	1	2383	C	N3-C4	-5.24	1.30	1.33
40	L3	233	TRP	CB-CG	-5.24	1.40	1.50
85	5	567	G	N3-C4	-5.24	1.31	1.35
85	5	2315	G	N7-C5	-5.24	1.36	1.39
44	17	133	TYR	CE2-CZ	-5.24	1.31	1.38
1	2	975	A	N9-C8	5.24	1.42	1.37
36	1	784	A	N9-C8	-5.24	1.33	1.37
36	1	1493	G	C2-N2	-5.24	1.29	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2113	A	C6-N1	-5.24	1.31	1.35
36	1	2247	G	N9-C8	-5.24	1.34	1.37
80	6	625	C	C4-C5	-5.24	1.38	1.43
85	5	560	G	C5-C6	-5.24	1.37	1.42
85	5	588	G	C5-C4	-5.24	1.34	1.38
85	5	1143	A	C8-N7	-5.24	1.27	1.31
85	5	1915	A	N7-C5	-5.24	1.36	1.39
1	2	1469	G	C6-N1	-5.24	1.35	1.39
36	1	676	G	N1-C2	-5.24	1.33	1.37
36	1	1083	G	C5-C4	-5.24	1.34	1.38
85	5	1499	C	N1-C2	-5.24	1.34	1.40
85	5	3361	G	C6-N1	5.24	1.43	1.39
1	2	1096	A	C5-C4	-5.24	1.35	1.38
36	1	1351	U	C4-O4	5.24	1.27	1.23
36	1	1867	A	N9-C8	-5.24	1.33	1.37
36	1	1874	A	C6-N1	-5.24	1.31	1.35
36	1	3320	A	N7-C5	-5.24	1.36	1.39
80	6	103	A	N3-C4	-5.24	1.31	1.34
85	5	1343	A	C5-C6	-5.24	1.36	1.41
85	5	1837	U	N1-C6	-5.24	1.33	1.38
85	5	2648	G	C6-N1	-5.24	1.35	1.39
36	1	1130	A	N9-C4	-5.23	1.34	1.37
36	1	2888	U	N1-C2	-5.23	1.33	1.38
36	1	3079	U	N1-C2	-5.23	1.33	1.38
80	6	11	A	C5-C6	5.23	1.45	1.41
85	5	2523	A	N7-C5	5.23	1.42	1.39
1	2	511	A	N9-C4	5.23	1.41	1.37
1	2	730	C	N1-C6	-5.23	1.34	1.37
1	2	1110	G	N9-C8	-5.23	1.34	1.37
10	S8	179	CYS	CB-SG	-5.23	1.73	1.81
36	1	229	G	N9-C8	5.23	1.41	1.37
36	1	964	G	C2-N3	-5.23	1.28	1.32
36	1	1071	U	C4-O4	5.23	1.27	1.23
36	1	1336	U	C2-N3	-5.23	1.34	1.37
36	1	2409	G	C8-N7	-5.23	1.27	1.30
36	1	2722	U	C4-C5	-5.23	1.38	1.43
41	L4	267	VAL	CB-CG2	-5.23	1.41	1.52
85	5	1780	G	N3-C4	-5.23	1.31	1.35
85	5	1884	A	C4'-C3'	-5.23	1.47	1.52
85	5	1891	A	N9-C4	-5.23	1.34	1.37
85	5	1894	U	N1-C2	-5.23	1.33	1.38
85	5	3069	G	C6-N1	-5.23	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	331	A	N7-C5	-5.23	1.36	1.39
36	1	403	C	N1-C2	-5.23	1.34	1.40
36	1	696	C	N3-C4	-5.23	1.30	1.33
36	1	807	A	N9-C8	-5.23	1.33	1.37
36	1	2326	A	C2-N3	-5.23	1.28	1.33
36	1	2650	U	N1-C6	-5.23	1.33	1.38
36	1	2733	A	N9-C8	-5.23	1.33	1.37
36	1	2818	U	C2-N3	-5.23	1.34	1.37
85	5	1640	G	C6-N1	-5.23	1.35	1.39
65	n9	23	LYS	CD-CE	5.23	1.64	1.51
36	1	1545	A	N9-C4	5.23	1.41	1.37
36	1	2141	U	N3-C4	-5.23	1.33	1.38
85	5	874	U	C2-N3	-5.23	1.34	1.37
85	5	1880	U	N1-C6	-5.23	1.33	1.38
85	5	3296	A	N9-C8	-5.23	1.33	1.37
36	1	694	C	N1-C2	-5.23	1.34	1.40
36	1	1205	A	N9-C4	-5.23	1.34	1.37
36	1	1380	G	C2-N3	-5.23	1.28	1.32
80	6	930	A	N3-C4	-5.23	1.31	1.34
80	6	1738	U	C2-O2	-5.23	1.17	1.22
85	5	2639	G	N9-C8	-5.23	1.34	1.37
85	5	2806	U	N1-C2	-5.23	1.33	1.38
36	1	340	C	N1-C6	-5.23	1.34	1.37
36	1	2381	G	N9-C8	-5.23	1.34	1.37
36	1	3127	A	N9-C4	-5.23	1.34	1.37
41	l4	274	TYR	CB-CG	-5.23	1.43	1.51
1	2	1628	G	N3-C4	-5.22	1.31	1.35
36	1	547	G	N9-C8	5.22	1.41	1.37
36	1	1406	A	C6-N6	-5.22	1.29	1.33
36	1	1795	U	N1-C2	-5.22	1.33	1.38
36	1	2413	A	C5-C4	-5.22	1.35	1.38
36	1	3183	A	N3-C4	-5.22	1.31	1.34
85	5	709	A	N7-C5	-5.22	1.36	1.39
85	5	2184	U	N1-C2	-5.22	1.33	1.38
85	5	2697	A	P-O5'	-5.22	1.54	1.59
1	2	194	U	C2-N3	5.22	1.41	1.37
1	2	886	U	N3-C4	5.22	1.43	1.38
36	1	376	G	C8-N7	-5.22	1.27	1.30
36	1	1418	A	C6-N6	-5.22	1.29	1.33
36	1	1444	G	N9-C4	-5.22	1.33	1.38
36	1	2193	U	C2-N3	5.22	1.41	1.37
36	1	2289	U	C2-N3	-5.22	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2426	U	N1-C2	-5.22	1.33	1.38
36	1	2655	U	N1-C2	-5.22	1.33	1.38
36	1	3160	U	C2-N3	-5.22	1.34	1.37
45	L8	56	VAL	CB-CG1	-5.22	1.41	1.52
80	6	1022	C	C2-N3	-5.22	1.31	1.35
85	5	243	G	N7-C5	5.22	1.42	1.39
85	5	2097	U	C2-N3	5.22	1.41	1.37
85	5	2376	G	C5-C6	-5.22	1.37	1.42
37	7	14	U	C4-O4	-5.22	1.19	1.23
36	1	429	U	C5'-C4'	-5.22	1.45	1.51
36	1	1202	A	N9-C4	-5.22	1.34	1.37
36	1	2241	U	O3'-P	-5.22	1.54	1.61
1	2	1733	A	N3-C4	-5.22	1.31	1.34
36	1	692	A	C5-C4	-5.22	1.35	1.38
36	1	2409	G	C2'-C1'	-5.22	1.47	1.53
68	O2	30	GLU	CB-CG	5.22	1.62	1.52
74	O8	54	LEU	C-N	-5.22	1.22	1.34
85	5	942	U	O3'-P	-5.22	1.54	1.61
85	5	1134	G	N1-C2	-5.22	1.33	1.37
85	5	2873	U	N3-C4	-5.22	1.33	1.38
85	5	3205	G	N7-C5	-5.22	1.36	1.39
38	8	117	C	N1-C2	-5.22	1.34	1.40
68	o2	76	VAL	CB-CG1	-5.22	1.41	1.52
1	2	896	G	C6-N1	5.22	1.43	1.39
36	1	1309	U	C2-N3	-5.22	1.34	1.37
85	5	872	U	C2-O2	-5.22	1.17	1.22
85	5	1493	G	N3-C4	-5.22	1.31	1.35
85	5	1899	G	N7-C5	-5.22	1.36	1.39
85	5	3296	A	N3-C4	-5.22	1.31	1.34
1	2	81	G	C6-N1	5.22	1.43	1.39
1	2	1131	C	N3-C4	-5.22	1.30	1.33
36	1	572	A	C5-C6	-5.22	1.36	1.41
36	1	755	A	C5-C4	-5.22	1.35	1.38
36	1	907	G	N3-C4	5.22	1.39	1.35
85	5	402	A	N9-C8	-5.22	1.33	1.37
85	5	644	G	N9-C8	-5.22	1.34	1.37
85	5	1111	U	C4-C5	-5.22	1.38	1.43
85	5	1170	A	N7-C5	-5.22	1.36	1.39
44	17	195	PHE	CD2-CE2	-5.22	1.28	1.39
36	1	95	A	N9-C4	-5.21	1.34	1.37
36	1	3106	A	N9-C4	-5.21	1.34	1.37
38	4	53	A	N9-C4	-5.21	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	73	U	N3-C4	5.21	1.43	1.38
80	6	607	G	C5-C4	-5.21	1.34	1.38
80	6	669	G	C6-N1	5.21	1.43	1.39
85	5	1192	C	N1-C6	5.21	1.40	1.37
85	5	1532	C	N3-C4	-5.21	1.30	1.33
85	5	2390	A	C8-N7	-5.21	1.27	1.31
85	5	3105	U	C4'-C3'	-5.21	1.47	1.52
1	2	1274	G	N3-C4	-5.21	1.31	1.35
36	1	25	U	C4-O4	5.21	1.27	1.23
36	1	1620	U	N1-C2	5.21	1.43	1.38
36	1	1725	C	N1-C2	-5.21	1.34	1.40
85	5	2775	U	C2-N3	-5.21	1.34	1.37
85	5	2858	U	N3-C4	-5.21	1.33	1.38
85	5	2891	U	P-OP1	-5.21	1.40	1.49
1	2	344	A	N9-C4	-5.21	1.34	1.37
36	1	154	U	N1-C2	-5.21	1.33	1.38
36	1	1353	U	C2-N3	5.21	1.41	1.37
38	4	133	G	N9-C8	-5.21	1.34	1.37
59	N3	39	VAL	CB-CG2	-5.21	1.42	1.52
85	5	1100	U	N1-C6	-5.21	1.33	1.38
85	5	2350	C	C2-N3	-5.21	1.31	1.35
38	8	7	U	N3-C4	-5.21	1.33	1.38
69	o3	9	VAL	CB-CG2	-5.21	1.42	1.52
36	1	941	G	C5-C4	-5.21	1.34	1.38
36	1	947	G	N9-C8	-5.21	1.34	1.37
80	6	361	C	C4-C5	-5.21	1.38	1.43
80	6	1125	A	N9-C4	-5.21	1.34	1.37
85	5	2354	C	P-OP1	-5.21	1.40	1.49
85	5	2539	C	N1-C6	5.21	1.40	1.37
85	5	3178	A	C6-N1	-5.21	1.31	1.35
36	1	62	A	N3-C4	-5.21	1.31	1.34
36	1	619	A	C6-N6	5.21	1.38	1.33
36	1	3003	G	N9-C8	-5.21	1.34	1.37
80	6	1778	G	N3-C4	-5.21	1.31	1.35
27	d5	54	VAL	N-CA	5.21	1.56	1.46
85	5	605	U	N1-C6	-5.21	1.33	1.38
85	5	844	G	C5-C4	-5.21	1.34	1.38
85	5	3190	C	N3-C4	-5.21	1.30	1.33
85	5	3204	C	C2-N3	-5.21	1.31	1.35
37	7	116	C	N3-C4	5.21	1.37	1.33
36	1	760	G	C6-N1	-5.21	1.35	1.39
36	1	944	C	N1-C2	-5.21	1.34	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1903	U	C2-O2	-5.21	1.17	1.22
36	1	3204	C	C2-N3	-5.21	1.31	1.35
80	6	396	G	N3-C4	-5.21	1.31	1.35
85	5	670	C	N1-C6	-5.21	1.34	1.37
85	5	876	A	N7-C5	-5.21	1.36	1.39
85	5	1457	U	N1-C6	-5.21	1.33	1.38
85	5	1925	U	N1-C2	-5.21	1.33	1.38
85	5	2232	A	N3-C4	-5.21	1.31	1.34
38	8	88	A	C6-N1	-5.21	1.31	1.35
36	1	2631	U	N1-C6	-5.21	1.33	1.38
85	5	213	A	C5-C4	-5.21	1.35	1.38
85	5	591	G	C2-N3	-5.21	1.28	1.32
85	5	815	G	N9-C4	-5.21	1.33	1.38
85	5	2783	U	C2-O2	-5.21	1.17	1.22
36	1	2607	G	N3-C4	-5.20	1.31	1.35
36	1	3108	G	C6-N1	-5.20	1.35	1.39
85	5	1476	G	C2-N2	-5.20	1.29	1.34
85	5	2428	U	N1-C6	-5.20	1.33	1.38
54	m8	87	VAL	CB-CG2	-5.20	1.42	1.52
36	1	2394	G	N9-C8	-5.20	1.34	1.37
36	1	2820	A	N9-C8	-5.20	1.33	1.37
38	4	16	G	N9-C8	-5.20	1.34	1.37
41	L4	74	ILE	C-N	-5.20	1.24	1.34
85	5	141	C	N1-C2	-5.20	1.34	1.40
85	5	437	G	O3'-P	5.20	1.67	1.61
85	5	1874	A	C5-C4	-5.20	1.35	1.38
1	2	949	A	N7-C5	-5.20	1.36	1.39
36	1	109	A	C5-C6	-5.20	1.36	1.41
36	1	2821	C	N1-C6	-5.20	1.34	1.37
38	4	82	U	N3-C4	5.20	1.43	1.38
44	L7	149	TYR	CD2-CE2	5.20	1.47	1.39
80	6	168	A	N9-C4	5.20	1.41	1.37
80	6	1731	A	N7-C5	-5.20	1.36	1.39
85	5	180	C	N1-C2	5.20	1.45	1.40
85	5	1356	U	C4-O4	5.20	1.27	1.23
85	5	1843	C	C2-N3	-5.20	1.31	1.35
85	5	2139	A	N9-C4	-5.20	1.34	1.37
1	2	808	U	C2-N3	5.20	1.41	1.37
36	1	1207	G	C5-C4	-5.20	1.34	1.38
36	1	1535	A	N3-C4	-5.20	1.31	1.34
36	1	1915	A	C5-C6	-5.20	1.36	1.41
36	1	2389	C	C5'-C4'	-5.20	1.45	1.51

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2750	U	N1-C6	-5.20	1.33	1.38
36	1	3350	C	N1-C6	5.20	1.40	1.37
37	3	20	A	N9-C4	5.20	1.41	1.37
40	L3	264	VAL	CB-CG1	-5.20	1.42	1.52
80	6	1114	G	N3-C4	-5.20	1.31	1.35
85	5	1407	A	N7-C5	-5.20	1.36	1.39
85	5	1530	U	C4-O4	-5.20	1.19	1.23
85	5	2922	G	N9-C4	-5.20	1.33	1.38
85	5	3168	A	N3-C4	5.20	1.38	1.34
85	5	3309	G	C5-C4	-5.20	1.34	1.38
46	19	48	VAL	CB-CG2	-5.20	1.42	1.52
71	o5	53	CYS	CB-SG	-5.20	1.73	1.81
85	5	848	A	N9-C4	-5.20	1.34	1.37
85	5	2336	U	N1-C2	-5.20	1.33	1.38
85	5	2867	C	N1-C2	-5.20	1.34	1.40
1	2	1382	C	N1-C6	5.20	1.40	1.37
36	1	49	A	C8-N7	-5.20	1.27	1.31
36	1	1339	C	N1-C2	5.20	1.45	1.40
36	1	3271	G	C6-O6	5.20	1.28	1.24
36	1	3310	A	N3-C4	-5.20	1.31	1.34
37	3	29	C	C2-O2	-5.20	1.19	1.24
37	3	48	U	N1-C6	5.20	1.42	1.38
38	4	26	U	N1-C2	-5.20	1.33	1.38
85	5	905	U	N1-C2	-5.20	1.33	1.38
85	5	1401	A	C5-C6	-5.20	1.36	1.41
85	5	1913	A	C6-N6	-5.20	1.29	1.33
36	1	213	A	N3-C4	-5.19	1.31	1.34
36	1	1426	C	C5'-C4'	-5.19	1.45	1.51
36	1	3102	G	N7-C5	-5.19	1.36	1.39
80	6	129	U	C2-N3	5.19	1.41	1.37
80	6	211	U	N3-C4	-5.19	1.33	1.38
80	6	1106	U	C4-C5	-5.19	1.38	1.43
85	5	1635	G	N9-C4	-5.19	1.33	1.38
85	5	1834	U	C4-O4	5.19	1.27	1.23
85	5	3130	A	C8-N7	-5.19	1.27	1.31
1	2	1469	G	N7-C5	-5.19	1.36	1.39
1	2	1553	A	C5-C4	-5.19	1.35	1.38
36	1	1467	A	N7-C5	-5.19	1.36	1.39
36	1	1564	U	N1-C6	5.19	1.42	1.38
36	1	2232	A	C6-N1	-5.19	1.31	1.35
36	1	2914	G	N9-C8	-5.19	1.34	1.37
36	1	2981	U	N1-C6	-5.19	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	L7	175	LYS	CD-CE	5.19	1.64	1.51
80	6	1567	U	C2-N3	-5.19	1.34	1.37
80	6	1747	G	N9-C8	-5.19	1.34	1.37
80	6	1761	U	N1-C2	-5.19	1.33	1.38
85	5	639	G	C5-C4	-5.19	1.34	1.38
85	5	655	C	N1-C6	-5.19	1.34	1.37
85	5	1009	A	N3-C4	-5.19	1.31	1.34
85	5	1540	U	N1-C2	-5.19	1.33	1.38
85	5	1823	A	N7-C5	-5.19	1.36	1.39
1	2	173	A	N7-C5	-5.19	1.36	1.39
1	2	752	A	C5-C6	5.19	1.45	1.41
36	1	1093	A	N7-C5	5.19	1.42	1.39
36	1	1522	U	C4-C5	-5.19	1.38	1.43
80	6	406	U	N1-C6	-5.19	1.33	1.38
80	6	720	G	C5-C6	5.19	1.47	1.42
80	6	1715	G	N9-C4	5.19	1.42	1.38
85	5	376	G	N7-C5	-5.19	1.36	1.39
85	5	949	C	C4-C5	-5.19	1.38	1.43
85	5	1678	G	N9-C4	5.19	1.42	1.38
85	5	1868	G	C5-C4	-5.19	1.34	1.38
85	5	2239	G	C5-C6	-5.19	1.37	1.42
85	5	2877	G	C2-N3	-5.19	1.28	1.32
38	8	121	U	C2-N3	-5.19	1.34	1.37
36	1	1377	G	C5-C4	-5.19	1.34	1.38
36	1	2161	G	N1-C2	-5.19	1.33	1.37
38	4	152	G	C2-N3	-5.19	1.28	1.32
85	5	124	U	N1-C2	5.19	1.43	1.38
85	5	1393	A	C6-N1	-5.19	1.31	1.35
85	5	2319	U	N3-C4	5.19	1.43	1.38
36	1	776	U	C2-O2	5.19	1.27	1.22
36	1	1513	G	C6-O6	-5.19	1.19	1.24
36	1	2732	G	C5-C6	-5.19	1.37	1.42
36	1	2784	G	C5-C4	-5.19	1.34	1.38
36	1	3305	A	N3-C4	-5.19	1.31	1.34
49	M3	119	TYR	CD2-CE2	-5.19	1.31	1.39
80	6	176	C	N3-C4	-5.19	1.30	1.33
80	6	548	G	C2-N3	-5.19	1.28	1.32
80	6	580	A	N9-C4	5.19	1.41	1.37
80	6	1160	A	N9-C4	-5.19	1.34	1.37
85	5	1884	A	N9-C4	-5.19	1.34	1.37
80	6	394	C	N1-C2	-5.19	1.34	1.40
85	5	1380	G	N9-C4	-5.19	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	14	U	C2-O2	-5.19	1.17	1.22
39	l2	4	VAL	CB-CG1	-5.19	1.42	1.52
50	m4	47	ASP	CB-CG	-5.19	1.40	1.51
54	m8	153	PHE	CD2-CE2	-5.19	1.28	1.39
1	2	1793	G	N3-C4	5.18	1.39	1.35
36	1	1196	C	N1-C2	5.18	1.45	1.40
36	1	1544	G	C5-C4	-5.18	1.34	1.38
36	1	2402	A	N3-C4	-5.18	1.31	1.34
36	1	3396	U	N1-C2	5.18	1.43	1.38
54	M8	106	PHE	CB-CG	-5.18	1.42	1.51
80	6	652	G	C6-N1	5.18	1.43	1.39
80	6	1650	U	N1-C2	-5.18	1.33	1.38
85	5	156	G	C5-C4	-5.18	1.34	1.38
85	5	661	G	N7-C5	-5.18	1.36	1.39
85	5	1059	G	C5-C4	-5.18	1.34	1.38
85	5	2267	C	N3-C4	-5.18	1.30	1.33
36	1	968	G	C5-C6	-5.18	1.37	1.42
36	1	994	G	C5-C4	-5.18	1.34	1.38
38	4	100	U	C4'-C3'	-5.18	1.47	1.52
80	6	305	C	N1-C2	-5.18	1.34	1.40
80	6	986	G	N3-C4	-5.18	1.31	1.35
85	5	654	C	C4-C5	-5.18	1.38	1.43
85	5	1166	G	C5-C4	-5.18	1.34	1.38
85	5	3279	A	P-O5'	5.18	1.65	1.59
85	5	3310	A	C5-C6	-5.18	1.36	1.41
37	7	119	U	C2-N3	-5.18	1.34	1.37
36	1	64	G	C2-N3	-5.18	1.28	1.32
36	1	420	G	C5-C4	-5.18	1.34	1.38
36	1	726	G	C6-O6	-5.18	1.19	1.24
36	1	1110	U	C4'-C3'	-5.18	1.47	1.52
36	1	2400	G	C6-N1	-5.18	1.35	1.39
36	1	2442	G	C5-C4	5.18	1.42	1.38
36	1	2864	A	C4'-C3'	-5.18	1.47	1.52
85	5	1017	C	N3-C4	5.18	1.37	1.33
36	1	110	G	C2-N3	-5.18	1.28	1.32
36	1	196	G	N7-C5	-5.18	1.36	1.39
36	1	412	G	N3-C4	-5.18	1.31	1.35
36	1	637	C	C5-C6	-5.18	1.30	1.34
36	1	781	G	C2-N3	-5.18	1.28	1.32
36	1	824	C	N1-C6	-5.18	1.34	1.37
36	1	1850	A	N7-C5	-5.18	1.36	1.39
36	1	2614	G	N7-C5	-5.18	1.36	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	L4	272	VAL	CB-CG2	-5.18	1.42	1.52
85	5	222	A	C6-N6	-5.18	1.29	1.33
85	5	639	G	C5-C6	-5.18	1.37	1.42
85	5	956	U	N1-C6	-5.18	1.33	1.38
85	5	1020	G	C6-N1	5.18	1.43	1.39
85	5	1193	A	N9-C4	-5.18	1.34	1.37
85	5	2793	G	N9-C4	-5.18	1.33	1.38
85	5	2951	G	N9-C4	-5.18	1.33	1.38
36	1	592	A	N9-C4	5.18	1.41	1.37
36	1	3318	G	N3-C4	-5.18	1.31	1.35
80	6	1169	G	C6-N1	-5.18	1.35	1.39
1	2	349	U	C2-N3	-5.18	1.34	1.37
80	6	91	G	N9-C4	-5.18	1.33	1.38
85	5	3011	A	C5-C6	-5.18	1.36	1.41
42	l5	133	GLU	CG-CD	5.18	1.59	1.51
1	2	1290	U	C2-N3	5.17	1.41	1.37
36	1	272	G	N3-C4	-5.17	1.31	1.35
36	1	584	G	C6-N1	-5.17	1.35	1.39
36	1	838	G	C5-C4	-5.17	1.34	1.38
36	1	1352	A	O3'-P	5.17	1.67	1.61
36	1	2295	A	N7-C5	-5.17	1.36	1.39
38	4	18	U	N1-C2	-5.17	1.33	1.38
80	6	825	U	N1-C2	-5.17	1.33	1.38
85	5	1006	A	C6-N1	-5.17	1.31	1.35
85	5	1447	G	N9-C8	-5.17	1.34	1.37
54	m8	147	ARG	CB-CG	-5.17	1.38	1.52
57	n1	72	VAL	CB-CG1	-5.17	1.42	1.52
36	1	602	A	N1-C2	5.17	1.39	1.34
36	1	1807	G	C6-N1	-5.17	1.35	1.39
80	6	1671	A	C5-C4	-5.17	1.35	1.38
85	5	150	A	N3-C4	5.17	1.38	1.34
85	5	2375	G	N9-C4	-5.17	1.33	1.38
37	7	9	C	C2-N3	-5.17	1.31	1.35
36	1	874	U	N1-C6	-5.17	1.33	1.38
36	1	1419	A	N7-C5	-5.17	1.36	1.39
36	1	1534	A	C6-N6	-5.17	1.29	1.33
36	1	1800	A	C6-N1	-5.17	1.31	1.35
36	1	1893	A	C6-N1	-5.17	1.31	1.35
36	1	1906	G	C5-C6	-5.17	1.37	1.42
36	1	2699	G	C8-N7	-5.17	1.27	1.30
38	4	53	A	C5-C4	-5.17	1.35	1.38
80	6	986	G	N9-C8	-5.17	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1301	U	C2-O2	5.17	1.27	1.22
85	5	377	A	N3-C4	5.17	1.38	1.34
85	5	1383	G	N3-C4	-5.17	1.31	1.35
85	5	2376	G	N9-C4	-5.17	1.33	1.38
36	1	1179	A	N7-C5	-5.17	1.36	1.39
42	L5	160	PHE	CB-CG	-5.17	1.42	1.51
67	O1	67	VAL	CB-CG1	-5.17	1.42	1.52
85	5	924	G	C2-N3	-5.17	1.28	1.32
85	5	1141	C	N3-C4	-5.17	1.30	1.33
85	5	1171	G	C3'-C2'	-5.17	1.47	1.52
85	5	2408	U	N3-C4	-5.17	1.33	1.38
85	5	3209	A	N9-C4	5.17	1.41	1.37
36	1	597	G	C6-O6	-5.17	1.19	1.24
36	1	1648	A	N3-C4	-5.17	1.31	1.34
36	1	1873	U	N1-C2	-5.17	1.33	1.38
36	1	2433	U	C4-C5	-5.17	1.38	1.43
36	1	2625	C	N1-C6	-5.17	1.34	1.37
36	1	2817	A	C6-N1	-5.17	1.31	1.35
80	6	676	G	N3-C4	5.17	1.39	1.35
85	5	1804	A	N7-C5	-5.17	1.36	1.39
59	n3	61	THR	CB-CG2	-5.17	1.35	1.52
1	2	1458	A	N9-C4	-5.17	1.34	1.37
36	1	265	A	C6-N6	5.17	1.38	1.33
36	1	908	G	C6-N1	-5.17	1.35	1.39
36	1	2145	A	C6-N1	-5.17	1.31	1.35
80	6	545	A	N3-C4	-5.17	1.31	1.34
80	6	1658	G	C6-N1	-5.17	1.35	1.39
85	5	377	A	N9-C8	5.17	1.41	1.37
85	5	651	G	C6-N1	-5.17	1.35	1.39
85	5	1494	U	N1-C6	-5.17	1.33	1.38
37	7	10	C	N3-C4	-5.17	1.30	1.33
55	m9	101	VAL	CB-CG2	-5.17	1.42	1.52
64	n8	130	VAL	CB-CG1	-5.17	1.42	1.52
1	2	1653	G	N3-C4	-5.17	1.31	1.35
36	1	641	C	P-OP2	-5.17	1.40	1.49
36	1	1350	A	P-OP2	5.17	1.57	1.49
36	1	2392	C	N1-C6	-5.17	1.34	1.37
79	Q3	55	TRP	CE3-CZ3	-5.17	1.29	1.38
80	6	750	U	N1-C2	-5.17	1.33	1.38
80	6	989	U	C4-O4	5.17	1.27	1.23
80	6	1610	G	N1-C2	-5.17	1.33	1.37
85	5	1649	U	N1-C2	-5.17	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2382	G	C5-C4	-5.17	1.34	1.38
85	5	2857	C	C4-C5	-5.17	1.38	1.43
36	1	1541	G	N7-C5	5.16	1.42	1.39
37	3	76	A	C6-N1	5.16	1.39	1.35
79	Q3	92	ALA	CA-CB	5.16	1.63	1.52
80	6	18	C	C4-C5	-5.16	1.38	1.43
80	6	1088	A	N7-C5	-5.16	1.36	1.39
85	5	2593	A	N9-C4	-5.16	1.34	1.37
36	1	332	C	N3-C4	-5.16	1.30	1.33
36	1	1807	G	C5-C6	-5.16	1.37	1.42
36	1	1840	U	N1-C2	-5.16	1.33	1.38
36	1	2243	A	C6-N1	-5.16	1.31	1.35
36	1	2918	G	C6-N1	-5.16	1.35	1.39
36	1	3028	G	N3-C4	5.16	1.39	1.35
80	6	1587	A	N9-C4	-5.16	1.34	1.37
85	5	760	G	C5-C6	-5.16	1.37	1.42
85	5	2722	U	N1-C6	-5.16	1.33	1.38
85	5	2767	U	N3-C4	5.16	1.43	1.38
85	5	3069	G	C6-O6	-5.16	1.19	1.24
1	2	1773	A	N3-C4	-5.16	1.31	1.34
36	1	127	G	C6-N1	-5.16	1.35	1.39
36	1	527	A	N9-C4	5.16	1.41	1.37
36	1	1299	U	O3'-P	-5.16	1.54	1.61
36	1	1433	A	P-O5'	-5.16	1.54	1.59
36	1	2648	G	C2-N3	-5.16	1.28	1.32
37	3	105	C	N1-C2	-5.16	1.34	1.40
80	6	622	A	N9-C4	-5.16	1.34	1.37
85	5	52	A	N9-C4	-5.16	1.34	1.37
85	5	905	U	C2-O2	-5.16	1.17	1.22
85	5	973	A	N9-C8	-5.16	1.33	1.37
85	5	1332	A	C2-N3	-5.16	1.28	1.33
85	5	2822	U	C4-O4	5.16	1.27	1.23
37	7	44	C	C2-N3	5.16	1.39	1.35
36	1	2114	C	N3-C4	-5.16	1.30	1.33
36	1	2187	G	C5-C6	-5.16	1.37	1.42
36	1	2608	G	C2-N3	-5.16	1.28	1.32
37	3	79	A	C6-N1	-5.16	1.31	1.35
38	4	105	A	N3-C4	5.16	1.38	1.34
52	M6	88	VAL	CB-CG2	-5.16	1.42	1.52
80	6	1115	U	N1-C2	-5.16	1.33	1.38
85	5	1565	G	N9-C8	5.16	1.41	1.37
85	5	2943	G	N9-C4	-5.16	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	328	A	N7-C5	-5.16	1.36	1.39
1	2	1733	A	C6-N1	-5.16	1.31	1.35
36	1	2298	U	N1-C2	-5.16	1.33	1.38
38	4	96	A	N1-C2	-5.16	1.29	1.34
80	6	480	G	C5-C6	5.16	1.47	1.42
85	5	492	U	N3-C4	5.16	1.43	1.38
85	5	513	G	C6-N1	-5.16	1.35	1.39
36	1	591	G	N9-C8	-5.16	1.34	1.37
36	1	901	G	C2-N3	-5.16	1.28	1.32
36	1	1386	A	C6-N6	-5.16	1.29	1.33
36	1	1801	U	N1-C6	-5.16	1.33	1.38
36	1	2601	A	N1-C2	-5.16	1.29	1.34
36	1	2633	U	N3-C4	-5.16	1.33	1.38
36	1	2805	G	N7-C5	-5.16	1.36	1.39
36	1	3114	A	N9-C8	-5.16	1.33	1.37
37	3	5	G	C6-N1	-5.16	1.35	1.39
80	6	98	U	N1-C2	-5.16	1.33	1.38
80	6	496	G	C6-N1	5.16	1.43	1.39
80	6	601	A	N7-C5	-5.16	1.36	1.39
85	5	824	C	C2-O2	-5.16	1.19	1.24
85	5	1099	A	N7-C5	-5.16	1.36	1.39
85	5	2278	C	C4-C5	-5.16	1.38	1.43
85	5	268	A	C6-N1	-5.15	1.31	1.35
85	5	1836	C	N1-C2	-5.15	1.34	1.40
1	2	962	A	N3-C4	-5.15	1.31	1.34
1	2	1125	A	N7-C5	-5.15	1.36	1.39
1	2	1583	A	N9-C4	-5.15	1.34	1.37
36	1	18	G	O3'-P	-5.15	1.54	1.61
36	1	1147	G	C5-C4	-5.15	1.34	1.38
36	1	1760	A	N7-C5	5.15	1.42	1.39
85	5	165	A	N9-C4	5.15	1.41	1.37
85	5	1780	G	C6-N1	-5.15	1.35	1.39
85	5	2273	G	N3-C4	-5.15	1.31	1.35
38	8	45	C	N1-C6	-5.15	1.34	1.37
68	o2	119	VAL	CB-CG1	-5.15	1.42	1.52
36	1	360	G	N7-C5	-5.15	1.36	1.39
36	1	378	A	N3-C4	-5.15	1.31	1.34
36	1	655	C	C2-O2	-5.15	1.19	1.24
36	1	1494	U	N1-C2	-5.15	1.33	1.38
36	1	2862	U	C4'-C3'	-5.15	1.47	1.52
38	4	15	G	C6-N1	-5.15	1.35	1.39
80	6	486	G	N9-C8	5.15	1.41	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1772	U	C5-C6	5.15	1.38	1.34
85	5	2250	G	N9-C4	-5.15	1.33	1.38
36	1	1162	U	C4-O4	-5.15	1.19	1.23
36	1	1313	G	C5-C6	-5.15	1.37	1.42
44	L7	24	GLU	CB-CG	5.15	1.61	1.52
80	6	1728	A	C5-C6	-5.15	1.36	1.41
85	5	533	A	N7-C5	-5.15	1.36	1.39
85	5	3133	C	C2-O2	-5.15	1.19	1.24
1	2	822	U	C2-N3	5.15	1.41	1.37
1	2	1552	A	N9-C4	5.15	1.41	1.37
36	1	1658	G	N3-C4	-5.15	1.31	1.35
36	1	1877	U	N3-C4	-5.15	1.33	1.38
36	1	2121	G	N9-C8	-5.15	1.34	1.37
36	1	2730	G	C2-N2	-5.15	1.29	1.34
36	1	2934	A	C6-N1	-5.15	1.31	1.35
36	1	3142	A	N9-C4	-5.15	1.34	1.37
44	L7	192	GLY	C-N	-5.15	1.24	1.34
73	O7	27	PHE	CD1-CE1	-5.15	1.28	1.39
85	5	669	U	C2-N3	-5.15	1.34	1.37
85	5	819	U	C2'-C1'	-5.15	1.47	1.53
85	5	1047	A	C6-N6	-5.15	1.29	1.33
85	5	1351	U	C4-C5	5.15	1.48	1.43
85	5	2433	U	N1-C6	-5.15	1.33	1.38
85	5	2867	C	N3-C4	-5.15	1.30	1.33
85	5	3055	U	C2-O2	-5.15	1.17	1.22
85	5	3085	G	C2-N3	-5.15	1.28	1.32
36	1	838	G	N7-C5	-5.15	1.36	1.39
85	5	1727	G	N3-C4	-5.15	1.31	1.35
85	5	1761	C	N1-C2	5.15	1.45	1.40
85	5	2387	A	N3-C4	-5.15	1.31	1.34
1	2	737	A	C5-C6	5.14	1.45	1.41
36	1	798	G	N1-C2	-5.14	1.33	1.37
36	1	861	C	N1-C6	-5.14	1.34	1.37
36	1	1321	G	N7-C5	-5.14	1.36	1.39
36	1	1364	C	N3-C4	-5.14	1.30	1.33
36	1	1829	G	N9-C8	-5.14	1.34	1.37
36	1	2106	A	C6-N1	5.14	1.39	1.35
36	1	2618	G	C2-N2	-5.14	1.29	1.34
54	M8	153	PHE	CD2-CE2	-5.14	1.28	1.39
85	5	350	C	C2-N3	-5.14	1.31	1.35
85	5	1129	A	C6-N6	-5.14	1.29	1.33
85	5	1569	U	N3-C4	5.14	1.43	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1640	G	N3-C4	-5.14	1.31	1.35
85	5	1882	G	N7-C5	-5.14	1.36	1.39
85	5	3080	G	N9-C4	-5.14	1.33	1.38
85	5	3244	A	N9-C4	5.14	1.41	1.37
37	7	57	G	N9-C4	-5.14	1.33	1.38
1	2	716	A	N3-C4	5.14	1.38	1.34
36	1	39	A	N7-C5	5.14	1.42	1.39
36	1	583	G	C5-C4	-5.14	1.34	1.38
36	1	609	G	C5-C4	-5.14	1.34	1.38
36	1	678	G	C5-C6	-5.14	1.37	1.42
36	1	701	G	C6-N1	-5.14	1.35	1.39
36	1	1217	A	N9-C4	5.14	1.41	1.37
36	1	3067	C	N1-C2	-5.14	1.35	1.40
38	4	107	G	N9-C4	-5.14	1.33	1.38
80	6	1126	G	N9-C8	-5.14	1.34	1.37
11	s9	81	VAL	CB-CG1	-5.14	1.42	1.52
85	5	1470	U	C2-N3	-5.14	1.34	1.37
85	5	2668	U	N3-C4	5.14	1.43	1.38
38	8	31	G	N7-C5	-5.14	1.36	1.39
64	n8	98	THR	C-N	5.14	1.45	1.34
69	o3	21	ARG	CG-CD	5.14	1.64	1.51
36	1	440	A	P-O5'	5.14	1.64	1.59
36	1	3308	C	C4-C5	-5.14	1.38	1.43
38	4	135	G	N3-C4	-5.14	1.31	1.35
85	5	1944	U	C2-N3	-5.14	1.34	1.37
85	5	2682	C	C2-N3	-5.14	1.31	1.35
1	2	1778	U	N1-C2	5.14	1.43	1.38
36	1	585	A	N9-C8	-5.14	1.33	1.37
36	1	719	U	C2-O2	5.14	1.26	1.22
36	1	1289	G	N9-C4	-5.14	1.33	1.38
36	1	1852	G	C2'-C1'	-5.14	1.47	1.53
36	1	2207	A	N9-C8	5.14	1.41	1.37
36	1	2726	C	N1-C2	-5.14	1.35	1.40
36	1	2813	A	C6-N1	-5.14	1.31	1.35
36	1	2819	A	C6-N1	5.14	1.39	1.35
36	1	2968	G	N3-C4	-5.14	1.31	1.35
36	1	3309	G	C2-N3	-5.14	1.28	1.32
38	4	107	G	N9-C8	-5.14	1.34	1.37
80	6	872	G	C6-N1	5.14	1.43	1.39
85	5	519	A	N9-C8	-5.14	1.33	1.37
85	5	1675	G	N1-C2	-5.14	1.33	1.37
85	5	1902	G	P-O5'	-5.14	1.54	1.59

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2162	U	N3-C4	-5.14	1.33	1.38
85	5	2312	A	C6-N1	-5.14	1.31	1.35
85	5	2380	U	C4'-C3'	-5.14	1.47	1.52
85	5	2793	G	N9-C8	-5.14	1.34	1.37
37	7	64	A	N9-C4	5.14	1.41	1.37
36	1	118	U	N1-C2	-5.14	1.33	1.38
36	1	2986	U	C2-O2	-5.14	1.17	1.22
38	4	45	C	N1-C2	-5.14	1.35	1.40
85	5	363	G	C6-N1	-5.14	1.35	1.39
85	5	1851	G	C3'-C2'	-5.14	1.47	1.52
44	17	39	GLU	CD-OE1	5.14	1.31	1.25
36	1	1287	A	N3-C4	-5.14	1.31	1.34
36	1	1752	A	N9-C4	-5.14	1.34	1.37
36	1	1915	A	N7-C5	-5.14	1.36	1.39
37	3	19	C	N1-C6	5.14	1.40	1.37
80	6	1784	C	C2-O2	-5.14	1.19	1.24
85	5	440	A	N3-C4	5.14	1.38	1.34
85	5	1690	C	N1-C6	-5.14	1.34	1.37
85	5	2356	A	P-O5'	-5.14	1.54	1.59
85	5	2411	U	N1-C2	-5.14	1.33	1.38
37	7	57	G	C5-C4	-5.14	1.34	1.38
1	2	601	A	C5-C6	-5.13	1.36	1.41
1	2	1148	G	N9-C8	5.13	1.41	1.37
36	1	1868	G	C6-N1	-5.13	1.35	1.39
36	1	1916	U	N1-C2	-5.13	1.33	1.38
36	1	3004	C	C5'-C4'	-5.13	1.45	1.51
36	1	3140	G	N1-C2	-5.13	1.33	1.37
37	3	55	A	C6-N1	-5.13	1.31	1.35
85	5	2949	U	C4-C5	-5.13	1.39	1.43
1	2	260	U	N1-C6	5.13	1.42	1.38
36	1	2663	G	N3-C4	-5.13	1.31	1.35
80	6	1727	G	N9-C8	-5.13	1.34	1.37
1	2	627	C	C4-C5	-5.13	1.38	1.43
1	2	1003	A	N3-C4	-5.13	1.31	1.34
36	1	690	A	C6-N1	-5.13	1.31	1.35
36	1	2632	G	N3-C4	-5.13	1.31	1.35
36	1	2820	A	C6-N1	-5.13	1.31	1.35
44	L7	176	TYR	CE1-CZ	-5.13	1.31	1.38
80	6	1747	G	C6-O6	-5.13	1.19	1.24
85	5	707	U	C2-O2	-5.13	1.17	1.22
85	5	751	A	N9-C8	-5.13	1.33	1.37
85	5	855	U	C2-N3	5.13	1.41	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	44	C	N3-C4	5.13	1.37	1.33
36	1	1208	U	C2-N3	-5.13	1.34	1.37
36	1	1407	A	N9-C8	-5.13	1.33	1.37
85	5	213	A	N7-C5	-5.13	1.36	1.39
85	5	769	G	N3-C4	-5.13	1.31	1.35
85	5	2133	U	C4-O4	-5.13	1.19	1.23
85	5	2188	A	N9-C8	-5.13	1.33	1.37
85	5	2934	A	C6-N1	-5.13	1.31	1.35
85	5	3085	G	N9-C4	-5.13	1.33	1.38
36	1	647	A	C6-N1	-5.13	1.31	1.35
36	1	1841	A	N9-C8	-5.13	1.33	1.37
36	1	2592	G	N9-C4	-5.13	1.33	1.38
36	1	2598	G	C6-N1	-5.13	1.35	1.39
36	1	3378	C	C2-O2	-5.13	1.19	1.24
37	3	41	G	N9-C4	-5.13	1.33	1.38
40	L3	158	VAL	CB-CG2	-5.13	1.42	1.52
80	6	51	A	C6-N1	-5.13	1.31	1.35
80	6	577	G	C6-N1	5.13	1.43	1.39
85	5	907	G	C6-N1	-5.13	1.35	1.39
85	5	2414	G	N9-C4	-5.13	1.33	1.38
85	5	3223	A	N3-C4	-5.13	1.31	1.34
38	8	44	A	C5-C6	-5.13	1.36	1.41
9	S7	98	ILE	C-N	5.13	1.45	1.34
36	1	1061	A	N3-C4	-5.13	1.31	1.34
36	1	1935	G	N9-C8	-5.13	1.34	1.37
36	1	2888	U	N1-C6	-5.13	1.33	1.38
36	1	2946	A	N1-C2	-5.13	1.29	1.34
36	1	3034	C	C4-C5	-5.13	1.38	1.43
36	1	3256	G	N9-C8	5.13	1.41	1.37
38	4	131	A	N3-C4	-5.13	1.31	1.34
80	6	241	U	C4-O4	5.13	1.27	1.23
80	6	871	G	N1-C2	5.13	1.41	1.37
85	5	2117	A	N7-C5	-5.13	1.36	1.39
85	5	2787	G	N3-C4	-5.13	1.31	1.35
44	l7	38	LYS	CD-CE	5.13	1.64	1.51
47	m0	146	ASP	CB-CG	5.13	1.62	1.51
1	2	1362	C	N1-C6	5.12	1.40	1.37
80	6	783	G	N1-C2	-5.12	1.33	1.37
85	5	2663	G	C6-N1	5.12	1.43	1.39
85	5	2890	A	N9-C4	-5.12	1.34	1.37
38	8	10	A	C5-C4	-5.12	1.35	1.38
36	1	1048	A	N9-C4	-5.12	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2408	U	C5-C6	-5.12	1.29	1.34
80	6	657	U	C2-N3	5.12	1.41	1.37
85	5	216	G	C5-C6	-5.12	1.37	1.42
85	5	634	C	N1-C2	-5.12	1.35	1.40
85	5	1297	C	N3-C4	-5.12	1.30	1.33
85	5	2790	A	N7-C5	-5.12	1.36	1.39
85	5	3012	A	C5-C4	-5.12	1.35	1.38
85	5	3310	A	C6-N1	-5.12	1.31	1.35
85	5	3314	A	C6-N1	-5.12	1.31	1.35
36	1	805	G	C6-N1	-5.12	1.35	1.39
36	1	925	A	C6-N1	-5.12	1.31	1.35
36	1	1170	A	C2'-C1'	-5.12	1.47	1.53
36	1	2214	A	C5-C6	-5.12	1.36	1.41
36	1	3101	G	C6-N1	-5.12	1.35	1.39
45	L8	233	TRP	CE3-CZ3	-5.12	1.29	1.38
59	N3	4	ASN	CB-CG	5.12	1.62	1.51
85	5	237	G	C6-N1	5.12	1.43	1.39
85	5	1079	A	N3-C4	-5.12	1.31	1.34
85	5	1368	U	C4-C5	-5.12	1.39	1.43
85	5	2671	A	N7-C5	-5.12	1.36	1.39
85	5	3034	C	C2-N3	-5.12	1.31	1.35
85	5	3108	G	N7-C5	-5.12	1.36	1.39
53	m7	60	PHE	CD2-CE2	-5.12	1.29	1.39
71	o5	70	TYR	CD1-CE1	-5.12	1.31	1.39
36	1	562	C	N3-C4	-5.12	1.30	1.33
36	1	838	G	C2-N3	-5.12	1.28	1.32
36	1	2607	G	C5-C6	-5.12	1.37	1.42
85	5	1858	A	N7-C5	-5.12	1.36	1.39
85	5	1922	A	C5-C6	-5.12	1.36	1.41
61	n5	83	VAL	CB-CG1	-5.12	1.42	1.52
1	2	971	A	C5-C6	-5.12	1.36	1.41
36	1	1002	A	N9-C4	-5.12	1.34	1.37
36	1	1377	G	C5-C6	-5.12	1.37	1.42
36	1	2508	U	N3-C4	5.12	1.43	1.38
36	1	3123	A	C5-C4	-5.12	1.35	1.38
36	1	3213	A	N3-C4	-5.12	1.31	1.34
85	5	248	U	N1-C6	5.12	1.42	1.38
85	5	1380	G	N9-C8	-5.12	1.34	1.37
85	5	1465	A	C6-N1	-5.12	1.31	1.35
85	5	1654	A	C5-C4	-5.12	1.35	1.38
85	5	2337	C	N3-C4	-5.12	1.30	1.33
85	5	2864	A	C6-N6	-5.12	1.29	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	m6	135	TYR	CD2-CE2	-5.12	1.31	1.39
36	1	627	U	N1-C2	-5.12	1.33	1.38
80	6	589	C	N1-C6	5.12	1.40	1.37
85	5	3239	G	N9-C4	-5.12	1.33	1.38
1	2	239	C	N1-C6	5.12	1.40	1.37
36	1	97	U	N1-C6	-5.12	1.33	1.38
36	1	1708	C	C2-O2	-5.12	1.19	1.24
36	1	2956	A	N9-C8	-5.12	1.33	1.37
80	6	972	G	C5-C6	-5.12	1.37	1.42
80	6	1143	A	C5-C4	5.12	1.42	1.38
80	6	1411	A	N9-C4	-5.12	1.34	1.37
85	5	2382	G	C8-N7	-5.12	1.27	1.30
85	5	3309	G	O3'-P	-5.12	1.55	1.61
1	2	428	A	C6-N1	-5.11	1.31	1.35
36	1	1354	G	N7-C5	5.11	1.42	1.39
36	1	1654	A	N9-C8	-5.11	1.33	1.37
85	5	2262	A	N9-C8	-5.11	1.33	1.37
85	5	2324	A	C5-C4	-5.11	1.35	1.38
85	5	2337	C	N1-C2	-5.11	1.35	1.40
85	5	2882	U	C2-O2	-5.11	1.17	1.22
85	5	3128	G	N1-C2	-5.11	1.33	1.37
85	5	3157	U	C2-N3	5.11	1.41	1.37
1	2	1633	U	C2-O2	-5.11	1.17	1.22
36	1	1891	A	C5-C4	-5.11	1.35	1.38
36	1	3211	C	N1-C6	-5.11	1.34	1.37
80	6	770	A	N9-C8	-5.11	1.33	1.37
85	5	2333	C	C4-N4	-5.11	1.29	1.33
85	5	2636	A	C6-N1	-5.11	1.31	1.35
85	5	2642	A	C6-N1	-5.11	1.31	1.35
85	5	3318	G	N9-C8	-5.11	1.34	1.37
1	2	469	C	C2-N3	-5.11	1.31	1.35
36	1	105	C	C4-C5	-5.11	1.38	1.43
36	1	389	A	N3-C4	-5.11	1.31	1.34
36	1	1740	U	N1-C2	-5.11	1.33	1.38
80	6	103	A	N7-C5	-5.11	1.36	1.39
80	6	1590	G	N9-C4	-5.11	1.33	1.38
85	5	193	C	C2-N3	-5.11	1.31	1.35
85	5	300	G	C6-N1	-5.11	1.35	1.39
85	5	1779	C	C2'-C1'	5.11	1.58	1.53
85	5	2686	A	N9-C8	-5.11	1.33	1.37
85	5	3018	C	C2-O2	-5.11	1.19	1.24
37	7	80	G	C2-N2	-5.11	1.29	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	776	A	N7-C5	5.11	1.42	1.39
36	1	1370	G	C5-C4	-5.11	1.34	1.38
36	1	1897	G	N7-C5	-5.11	1.36	1.39
85	5	408	A	C4'-C3'	-5.11	1.47	1.52
85	5	1846	C	N1-C6	-5.11	1.34	1.37
1	2	831	C	N1-C2	5.11	1.45	1.40
36	1	1405	U	N1-C6	-5.11	1.33	1.38
80	6	825	U	C2-N3	5.11	1.41	1.37
85	5	2404	A	C5-C4	5.11	1.42	1.38
85	5	2438	A	C5-C4	5.11	1.42	1.38
85	5	3135	U	N1-C2	-5.11	1.33	1.38
38	8	9	A	N9-C4	5.11	1.41	1.37
73	o7	49	TRP	CB-CG	-5.11	1.41	1.50
36	1	3223	A	N3-C4	-5.11	1.31	1.34
80	6	1303	U	N1-C6	-5.11	1.33	1.38
85	5	353	G	N1-C2	-5.11	1.33	1.37
85	5	1117	G	C3'-C2'	-5.11	1.47	1.52
85	5	1139	G	C8-N7	-5.11	1.27	1.30
85	5	1366	A	N7-C5	-5.11	1.36	1.39
85	5	2360	C	C4'-C3'	-5.11	1.47	1.52
85	5	3132	C	N1-C6	-5.11	1.34	1.37
85	5	3158	G	N3-C4	-5.11	1.31	1.35
85	5	3174	A	N7-C5	5.11	1.42	1.39
52	m6	4	GLU	CG-CD	-5.11	1.44	1.51
36	1	1112	A	C3'-C2'	-5.10	1.47	1.52
36	1	1325	U	C2'-C1'	-5.10	1.47	1.53
85	5	1112	A	C6-N6	-5.10	1.29	1.33
85	5	1867	A	N9-C8	-5.10	1.33	1.37
85	5	2239	G	N1-C2	-5.10	1.33	1.37
85	5	2608	G	C5-C4	-5.10	1.34	1.38
36	1	519	A	N3-C4	-5.10	1.31	1.34
36	1	1108	U	N1-C2	-5.10	1.33	1.38
36	1	1468	A	C5-C6	-5.10	1.36	1.41
36	1	1765	U	C4-O4	5.10	1.27	1.23
36	1	3198	U	C2-N3	-5.10	1.34	1.37
85	5	1294	A	C5-C6	-5.10	1.36	1.41
85	5	2256	A	N9-C8	5.10	1.41	1.37
85	5	2813	A	C5-C6	-5.10	1.36	1.41
85	5	2943	G	C2-N3	-5.10	1.28	1.32
37	7	43	U	C2-O2	-5.10	1.17	1.22
36	1	937	G	C2-N2	-5.10	1.29	1.34
36	1	1839	A	N3-C4	-5.10	1.31	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2618	G	N7-C5	-5.10	1.36	1.39
36	1	2729	U	C2-N3	5.10	1.41	1.37
80	6	39	A	N7-C5	-5.10	1.36	1.39
80	6	320	U	C2-O2	5.10	1.26	1.22
85	5	2618	G	C6-O6	-5.10	1.19	1.24
85	5	2928	C	C2-O2	-5.10	1.19	1.24
1	2	1653	G	N7-C5	-5.10	1.36	1.39
85	5	710	A	C5-C6	-5.10	1.36	1.41
85	5	1462	A	C5-C6	-5.10	1.36	1.41
85	5	1835	A	N9-C4	-5.10	1.34	1.37
85	5	1928	G	N9-C8	5.10	1.41	1.37
85	5	2149	A	C5-C4	-5.10	1.35	1.38
38	8	92	A	N9-C8	5.10	1.41	1.37
1	2	999	C	N1-C6	-5.10	1.34	1.37
36	1	88	A	P-OP2	-5.10	1.40	1.49
36	1	157	A	N9-C4	-5.10	1.34	1.37
36	1	198	A	N9-C4	-5.10	1.34	1.37
36	1	299	G	C6-N1	5.10	1.43	1.39
36	1	1352	A	P-OP1	5.10	1.57	1.49
36	1	2377	G	N1-C2	-5.10	1.33	1.37
36	1	2697	A	N1-C2	-5.10	1.29	1.34
36	1	2752	U	C2-O2	-5.10	1.17	1.22
36	1	3057	U	N3-C4	-5.10	1.33	1.38
37	3	73	C	N1-C6	5.10	1.40	1.37
80	6	1674	C	N1-C6	-5.10	1.34	1.37
85	5	174	C	N1-C2	5.10	1.45	1.40
85	5	390	G	C2'-C1'	-5.10	1.47	1.53
85	5	707	U	N1-C6	-5.10	1.33	1.38
85	5	2354	C	C3'-C2'	-5.10	1.47	1.52
85	5	2800	G	C6-N1	-5.10	1.35	1.39
54	m8	96	PHE	CB-CG	-5.10	1.42	1.51
47	M0	50	VAL	CB-CG2	-5.10	1.42	1.52
69	O3	94	PHE	CD2-CE2	-5.10	1.29	1.39
85	5	825	U	N1-C6	-5.10	1.33	1.38
85	5	2385	G	N9-C4	-5.10	1.33	1.38
85	5	3100	U	C2-N3	-5.10	1.34	1.37
85	5	3289	G	N9-C4	5.10	1.42	1.38
1	2	1726	U	N1-C2	-5.09	1.33	1.38
36	1	688	G	C5-C6	5.09	1.47	1.42
36	1	940	G	C8-N7	-5.09	1.27	1.30
36	1	1349	G	N7-C5	5.09	1.42	1.39
36	1	1785	U	N1-C6	-5.09	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	394	C	C4-C5	-5.09	1.38	1.43
80	6	930	A	N9-C4	-5.09	1.34	1.37
80	6	1645	G	N3-C4	-5.09	1.31	1.35
85	5	410	U	C5-C6	5.09	1.38	1.34
85	5	722	G	C5-C4	-5.09	1.34	1.38
85	5	921	A	C6-N1	-5.09	1.31	1.35
85	5	1226	G	N3-C4	-5.09	1.31	1.35
85	5	1336	U	C4-O4	-5.09	1.19	1.23
85	5	1406	A	N7-C5	-5.09	1.36	1.39
85	5	3305	A	C2-N3	-5.09	1.28	1.33
37	7	89	G	C6-N1	-5.09	1.35	1.39
36	1	164	A	N9-C8	5.09	1.41	1.37
36	1	1171	G	N9-C8	-5.09	1.34	1.37
36	1	1884	A	C5-C4	-5.09	1.35	1.38
36	1	2147	A	C3'-C2'	-5.09	1.47	1.52
80	6	103	A	C5-C6	-5.09	1.36	1.41
80	6	574	G	N7-C5	-5.09	1.36	1.39
36	1	329	U	C2-O2	-5.09	1.17	1.22
36	1	651	G	N7-C5	-5.09	1.36	1.39
36	1	3140	G	C6-O6	-5.09	1.19	1.24
80	6	1007	C	N3-C4	-5.09	1.30	1.33
85	5	881	C	N3-C4	-5.09	1.30	1.33
85	5	956	U	C4-O4	-5.09	1.19	1.23
85	5	1609	C	N1-C2	-5.09	1.35	1.40
36	1	80	G	C5-C4	-5.09	1.34	1.38
36	1	2153	U	N3-C4	-5.09	1.33	1.38
36	1	2746	A	N7-C5	-5.09	1.36	1.39
37	3	37	G	C6-N1	5.09	1.43	1.39
85	5	594	U	C4'-C3'	-5.09	1.47	1.52
85	5	1114	U	C4-O4	5.09	1.27	1.23
85	5	1674	G	C6-N1	-5.09	1.35	1.39
85	5	1910	A	N3-C4	-5.09	1.31	1.34
85	5	2433	U	C4-C5	-5.09	1.39	1.43
85	5	2914	G	C3'-C2'	-5.09	1.47	1.52
85	5	3209	A	N3-C4	5.09	1.38	1.34
36	1	407	A	C5-C6	-5.09	1.36	1.41
36	1	412	G	N9-C4	-5.09	1.33	1.38
36	1	2663	G	N9-C8	-5.09	1.34	1.37
36	1	2787	G	C5-C6	-5.09	1.37	1.42
85	5	1245	A	N9-C4	-5.09	1.34	1.37
85	5	2676	A	C5-C6	-5.09	1.36	1.41
36	1	1147	G	C8-N7	-5.09	1.27	1.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1211	U	C2-N3	-5.09	1.34	1.37
36	1	1952	G	N9-C4	5.09	1.42	1.38
36	1	2643	A	C6-N6	-5.09	1.29	1.33
36	1	3268	A	N7-C5	-5.09	1.36	1.39
36	1	3282	U	N3-C4	5.09	1.43	1.38
36	1	3336	A	N9-C4	-5.09	1.34	1.37
41	L4	181	VAL	CB-CG2	-5.09	1.42	1.52
80	6	1449	U	C2-N3	5.09	1.41	1.37
80	6	1784	C	C5-C6	-5.09	1.30	1.34
85	5	339	C	N1-C2	-5.09	1.35	1.40
85	5	2231	C	C2-O2	-5.09	1.19	1.24
85	5	3059	G	N1-C2	-5.09	1.33	1.37
36	1	2502	A	C5-C4	5.08	1.42	1.38
36	1	2502	A	C5-C6	5.08	1.45	1.41
36	1	2622	C	C2-O2	-5.08	1.19	1.24
36	1	2717	U	C2-N3	-5.08	1.34	1.37
85	5	2291	A	C6-N6	-5.08	1.29	1.33
36	1	535	G	N7-C5	-5.08	1.36	1.39
36	1	1805	C	N3-C4	-5.08	1.30	1.33
36	1	1805	C	N1-C6	-5.08	1.34	1.37
36	1	2747	A	N3-C4	-5.08	1.31	1.34
37	3	1	G	N3-C4	-5.08	1.31	1.35
37	3	94	C	N1-C2	-5.08	1.35	1.40
46	L9	59	ASN	CB-CG	5.08	1.62	1.51
64	N8	136	GLU	CG-CD	5.08	1.59	1.51
80	6	215	A	N9-C8	5.08	1.41	1.37
80	6	328	A	C5-C4	-5.08	1.35	1.38
80	6	418	G	C5-C6	-5.08	1.37	1.42
80	6	789	A	C6-N1	-5.08	1.31	1.35
80	6	1649	G	C5-C4	5.08	1.42	1.38
85	5	1738	C	N1-C2	-5.08	1.35	1.40
85	5	3105	U	C2-O2	-5.08	1.17	1.22
76	q0	94	SER	CB-OG	-5.08	1.35	1.42
1	2	1162	G	N3-C4	-5.08	1.31	1.35
36	1	107	A	N9-C8	-5.08	1.33	1.37
36	1	409	A	N9-C4	-5.08	1.34	1.37
36	1	697	A	C5-C6	-5.08	1.36	1.41
36	1	856	G	N1-C2	-5.08	1.33	1.37
36	1	2617	U	N1-C2	-5.08	1.33	1.38
38	4	8	C	C2-N3	-5.08	1.31	1.35
80	6	438	A	C5-C4	-5.08	1.35	1.38
80	6	934	C	N1-C2	5.08	1.45	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	999	G	C6-N1	-5.08	1.35	1.39
85	5	1664	G	N9-C4	-5.08	1.33	1.38
85	5	1922	A	C6-N1	-5.08	1.31	1.35
85	5	2524	A	N7-C5	-5.08	1.36	1.39
85	5	2864	A	N7-C5	-5.08	1.36	1.39
85	5	2887	A	N9-C4	-5.08	1.34	1.37
85	5	3011	A	N9-C8	-5.08	1.33	1.37
85	5	3276	G	N9-C8	5.08	1.41	1.37
85	5	3276	G	P-O5'	5.08	1.64	1.59
85	5	3376	A	C6-N1	-5.08	1.31	1.35
38	8	99	C	N1-C2	-5.08	1.35	1.40
51	m5	41	ARG	CG-CD	5.08	1.64	1.51
36	1	2575	G	N1-C2	5.08	1.41	1.37
49	M3	119	TYR	CE2-CZ	-5.08	1.31	1.38
80	6	751	G	N9-C8	-5.08	1.34	1.37
85	5	341	G	N9-C4	-5.08	1.33	1.38
85	5	1436	U	N1-C2	-5.08	1.33	1.38
85	5	1481	A	P-O5'	-5.08	1.54	1.59
1	2	1728	G	N9-C8	-5.08	1.34	1.37
36	1	2197	C	N3-C4	-5.08	1.30	1.33
36	1	3008	A	N3-C4	-5.08	1.31	1.34
36	1	3173	G	C8-N7	-5.08	1.27	1.30
36	1	3192	U	C4-O4	5.08	1.27	1.23
80	6	1649	G	C6-N1	5.08	1.43	1.39
4	s2	167	VAL	CB-CG1	-5.08	1.42	1.52
29	d7	40	CYS	CB-SG	5.08	1.90	1.82
85	5	53	G	N3-C4	-5.08	1.31	1.35
85	5	163	C	N1-C2	5.08	1.45	1.40
85	5	626	U	N3-C4	5.08	1.43	1.38
85	5	807	A	C6-N6	-5.08	1.29	1.33
85	5	1000	C	C2-N3	-5.08	1.31	1.35
85	5	2097	U	N1-C2	5.08	1.43	1.38
85	5	2153	U	N1-C6	-5.08	1.33	1.38
85	5	2362	C	P-OP2	-5.08	1.40	1.49
36	1	508	U	N1-C6	-5.08	1.33	1.38
36	1	1539	A	N9-C4	-5.08	1.34	1.37
36	1	3288	G	N9-C8	5.08	1.41	1.37
1	2	887	G	C5-C6	5.08	1.47	1.42
1	2	1542	A	N9-C4	-5.08	1.34	1.37
1	2	1588	G	N9-C4	-5.08	1.33	1.38
36	1	54	C	N1-C2	-5.08	1.35	1.40
36	1	1363	A	C2'-C1'	-5.08	1.47	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1786	G	C6-N1	-5.08	1.35	1.39
36	1	2965	U	C4-C5	-5.08	1.39	1.43
36	1	3326	G	C8-N7	-5.08	1.27	1.30
57	N1	84	TYR	CD2-CE2	5.08	1.47	1.39
85	5	1173	U	N3-C4	-5.08	1.33	1.38
85	5	2820	A	P-O5'	-5.08	1.54	1.59
85	5	2834	G	N3-C4	-5.08	1.31	1.35
36	1	1128	U	C4'-C3'	-5.07	1.47	1.52
37	3	84	A	C5-C6	-5.07	1.36	1.41
49	M3	167	PHE	CB-CG	-5.07	1.42	1.51
85	5	653	A	C6-N6	-5.07	1.29	1.33
85	5	668	G	N9-C8	-5.07	1.34	1.37
85	5	1174	G	N7-C5	-5.07	1.36	1.39
85	5	1915	A	C6-N6	-5.07	1.29	1.33
85	5	1953	G	N9-C8	5.07	1.41	1.37
85	5	2522	G	N9-C8	5.07	1.41	1.37
38	8	20	U	C4-C5	-5.07	1.39	1.43
38	8	81	U	C2-O2	5.07	1.26	1.22
44	l7	75	TYR	CE2-CZ	-5.07	1.31	1.38
61	n5	114	VAL	CB-CG2	-5.07	1.42	1.52
36	1	845	G	N3-C4	-5.07	1.31	1.35
36	1	2345	A	C5-C6	-5.07	1.36	1.41
85	5	373	A	N9-C4	-5.07	1.34	1.37
85	5	1417	G	C5-C6	-5.07	1.37	1.42
85	5	1613	A	N9-C8	-5.07	1.33	1.37
85	5	2638	C	C4-C5	-5.07	1.38	1.43
85	5	2856	G	C6-N1	-5.07	1.35	1.39
1	2	957	A	C6-N1	-5.07	1.32	1.35
36	1	280	U	C4'-C3'	-5.07	1.47	1.52
36	1	710	A	N7-C5	-5.07	1.36	1.39
36	1	772	U	N1-C2	-5.07	1.33	1.38
36	1	819	U	N1-C2	-5.07	1.33	1.38
36	1	2200	U	C2-N3	-5.07	1.34	1.37
36	1	2778	G	N3-C4	-5.07	1.31	1.35
36	1	3244	A	N3-C4	-5.07	1.31	1.34
37	3	73	C	C2-O2	5.07	1.29	1.24
80	6	9	U	N1-C6	-5.07	1.33	1.38
80	6	535	A	C5-C6	-5.07	1.36	1.41
85	5	835	G	C5-C4	-5.07	1.34	1.38
79	q3	59	CYS	CB-SG	-5.07	1.73	1.81
36	1	54	C	C5-C6	-5.07	1.30	1.34
36	1	228	U	N3-C4	-5.07	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2108	C	N3-C4	-5.07	1.30	1.33
85	5	660	A	N3-C4	-5.07	1.31	1.34
85	5	2981	U	N3-C4	-5.07	1.33	1.38
38	8	158	U	N1-C2	5.07	1.43	1.38
1	2	1097	G	N7-C5	-5.07	1.36	1.39
36	1	357	A	N9-C4	-5.07	1.34	1.37
36	1	649	A	C6-N1	-5.07	1.32	1.35
36	1	787	G	N9-C4	-5.07	1.33	1.38
36	1	1338	C	N1-C2	-5.07	1.35	1.40
36	1	1578	C	C5-C6	5.07	1.38	1.34
36	1	1705	U	N1-C2	5.07	1.43	1.38
37	3	67	G	N9-C4	-5.07	1.33	1.38
80	6	1011	G	N3-C4	-5.07	1.31	1.35
80	6	1024	U	N1-C6	-5.07	1.33	1.38
85	5	72	C	N1-C6	-5.07	1.34	1.37
85	5	658	G	N9-C4	-5.07	1.33	1.38
85	5	1103	A	C2-N3	5.07	1.38	1.33
85	5	1407	A	P-OP2	-5.07	1.40	1.49
85	5	1541	G	N3-C4	5.07	1.39	1.35
85	5	3048	A	N9-C8	-5.07	1.33	1.37
85	5	3215	A	N7-C5	-5.07	1.36	1.39
91	P	75	C	N3-C4	5.07	1.37	1.33
1	2	737	A	N3-C4	5.07	1.37	1.34
1	2	1449	G	N3-C4	5.07	1.39	1.35
36	1	1800	A	N7-C5	-5.07	1.36	1.39
36	1	2910	A	C8-N7	-5.07	1.28	1.31
36	1	2966	G	N9-C8	-5.07	1.34	1.37
80	6	164	A	N9-C4	-5.07	1.34	1.37
80	6	1199	G	N9-C4	-5.07	1.33	1.38
85	5	26	A	C3'-C2'	-5.07	1.47	1.52
85	5	1171	G	C2'-C1'	-5.07	1.47	1.53
85	5	2803	A	C5-C6	-5.07	1.36	1.41
85	5	3018	C	N3-C4	-5.07	1.30	1.33
36	1	607	A	N9-C8	-5.06	1.33	1.37
36	1	948	C	C5-C6	-5.06	1.30	1.34
36	1	1210	U	C2-N3	-5.06	1.34	1.37
36	1	1288	U	C2-N3	-5.06	1.34	1.37
1	2	164	A	N9-C4	-5.06	1.34	1.37
11	S9	158	PHE	C-N	-5.06	1.22	1.34
36	1	363	G	P-OP1	-5.06	1.40	1.49
36	1	1467	A	N1-C2	-5.06	1.29	1.34
36	1	2407	C	N3-C4	-5.06	1.30	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2632	G	N1-C2	-5.06	1.33	1.37
56	N0	97	VAL	CB-CG1	-5.06	1.42	1.52
80	6	506	A	C6-N1	5.06	1.39	1.35
80	6	1787	C	N1-C2	-5.06	1.35	1.40
85	5	514	G	C2-N3	-5.06	1.28	1.32
85	5	1213	G	N3-C4	-5.06	1.31	1.35
85	5	1250	G	O3'-P	5.06	1.67	1.61
85	5	2267	C	C4-N4	-5.06	1.29	1.33
85	5	2328	U	N1-C6	-5.06	1.33	1.38
85	5	3095	U	N1-C6	-5.06	1.33	1.38
44	l7	87	VAL	CB-CG1	-5.06	1.42	1.52
47	m0	46	PHE	CB-CG	-5.06	1.42	1.51
36	1	950	G	C5-C4	-5.06	1.34	1.38
36	1	1294	A	C5-C4	-5.06	1.35	1.38
36	1	1498	A	N3-C4	-5.06	1.31	1.34
36	1	2147	A	C5-C6	-5.06	1.36	1.41
85	5	1254	C	O3'-P	5.06	1.67	1.61
85	5	2142	A	C6-N6	-5.06	1.29	1.33
38	8	61	A	N9-C8	-5.06	1.33	1.37
36	1	597	G	N1-C2	-5.06	1.33	1.37
36	1	2311	G	C6-N1	-5.06	1.36	1.39
36	1	2641	U	N1-C6	-5.06	1.33	1.38
36	1	2686	A	N3-C4	-5.06	1.31	1.34
36	1	2885	C	N1-C2	-5.06	1.35	1.40
67	O1	25	PHE	CB-CG	-5.06	1.42	1.51
80	6	228	G	N7-C5	5.06	1.42	1.39
80	6	1364	G	C6-N1	5.06	1.43	1.39
85	5	381	U	C2-N3	5.06	1.41	1.37
85	5	981	U	C5-C6	5.06	1.38	1.34
85	5	1377	G	C5-C4	-5.06	1.34	1.38
53	m7	21	TYR	CG-CD2	-5.06	1.32	1.39
36	1	363	G	N9-C8	-5.06	1.34	1.37
36	1	618	C	N3-C4	-5.06	1.30	1.33
36	1	847	A	C5-C4	-5.06	1.35	1.38
36	1	1058	U	N1-C6	-5.06	1.33	1.38
36	1	1421	G	C8-N7	-5.06	1.27	1.30
36	1	1491	A	N3-C4	-5.06	1.31	1.34
36	1	2409	G	N1-C2	-5.06	1.33	1.37
37	3	74	C	N1-C6	5.06	1.40	1.37
85	5	3053	G	C8-N7	-5.06	1.27	1.30
36	1	1301	A	N9-C4	-5.06	1.34	1.37
36	1	2729	U	N1-C2	-5.06	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2891	U	N1-C6	-5.06	1.33	1.38
53	M7	152	GLU	CB-CG	-5.06	1.42	1.52
80	6	526	A	C5-C6	-5.06	1.36	1.41
85	5	248	U	P-OP1	5.06	1.57	1.49
85	5	1104	G	C6-O6	-5.06	1.19	1.24
85	5	2743	A	N7-C5	-5.06	1.36	1.39
85	5	2855	U	O3'-P	-5.06	1.55	1.61
1	2	355	G	N9-C8	-5.05	1.34	1.37
1	2	1710	G	N7-C5	-5.05	1.36	1.39
36	1	135	C	C2-N3	5.05	1.39	1.35
36	1	559	A	N3-C4	-5.05	1.31	1.34
36	1	636	C	C2-O2	-5.05	1.20	1.24
36	1	1324	U	C2-N3	-5.05	1.34	1.37
36	1	2911	A	P-O5'	-5.05	1.54	1.59
38	4	10	A	N9-C8	-5.05	1.33	1.37
50	M4	63	VAL	CB-CG2	-5.05	1.42	1.52
85	5	2658	G	N7-C5	-5.05	1.36	1.39
85	5	3273	A	C6-N6	-5.05	1.29	1.33
85	5	3334	U	C4-O4	-5.05	1.19	1.23
46	l9	186	PHE	CD1-CE1	-5.05	1.29	1.39
36	1	324	A	C6-N1	-5.05	1.32	1.35
36	1	2224	A	C5-C4	-5.05	1.35	1.38
36	1	2348	A	N7-C5	-5.05	1.36	1.39
36	1	2619	G	N9-C4	-5.05	1.33	1.38
85	5	2671	A	N9-C8	-5.05	1.33	1.37
85	5	2727	A	C5-C6	-5.05	1.36	1.41
85	5	2985	C	C5-C6	-5.05	1.30	1.34
41	l4	252	GLU	CG-CD	5.05	1.59	1.51
36	1	971	G	C6-N1	-5.05	1.36	1.39
36	1	992	A	N7-C5	-5.05	1.36	1.39
36	1	1352	A	C8-N7	5.05	1.35	1.31
36	1	3000	A	C1'-N9	-5.05	1.39	1.46
85	5	1121	U	C4-O4	-5.05	1.19	1.23
85	5	2233	A	N9-C8	-5.05	1.33	1.37
85	5	2970	C	N1-C2	-5.05	1.35	1.40
1	2	1305	A	N3-C4	-5.05	1.31	1.34
36	1	1340	G	N3-C4	-5.05	1.31	1.35
36	1	1473	G	N9-C4	-5.05	1.33	1.38
36	1	1914	G	N3-C4	-5.05	1.31	1.35
36	1	2410	U	P-O5'	-5.05	1.54	1.59
36	1	3349	C	N3-C4	5.05	1.37	1.33
80	6	102	U	C4-C5	-5.05	1.39	1.43

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	758	U	C2-N3	-5.05	1.34	1.37
80	6	1644	C	N3-C4	-5.05	1.30	1.33
80	6	1673	G	N9-C8	-5.05	1.34	1.37
85	5	607	A	N9-C8	-5.05	1.33	1.37
85	5	3200	G	C6-O6	-5.05	1.19	1.24
85	5	3333	G	C6-N1	-5.05	1.36	1.39
36	1	36	C	N1-C6	-5.05	1.34	1.37
50	M4	40	ASP	CB-CG	-5.05	1.41	1.51
80	6	550	A	N7-C5	-5.05	1.36	1.39
85	5	374	A	C5-C6	-5.05	1.36	1.41
85	5	950	G	C6-N1	-5.05	1.36	1.39
85	5	2202	C	N1-C2	-5.05	1.35	1.40
85	5	2275	A	N1-C2	-5.05	1.29	1.34
85	5	3359	A	N9-C4	5.05	1.40	1.37
36	1	103	G	N3-C4	-5.05	1.31	1.35
36	1	335	G	C2-N3	-5.05	1.28	1.32
36	1	351	A	N9-C4	-5.05	1.34	1.37
36	1	818	C	C4-C5	-5.05	1.39	1.43
36	1	1368	U	C2-O2	-5.05	1.17	1.22
36	1	1585	C	N3-C4	5.05	1.37	1.33
36	1	2149	A	N9-C8	-5.05	1.33	1.37
36	1	3043	C	N3-C4	-5.05	1.30	1.33
36	1	3087	A	C3'-C2'	-5.05	1.47	1.52
44	L7	195	PHE	CB-CG	-5.05	1.42	1.51
80	6	78	A	N9-C8	-5.05	1.33	1.37
80	6	669	G	N3-C4	5.05	1.39	1.35
85	5	1318	A	C6-N6	-5.05	1.29	1.33
36	1	1587	A	P-O5'	-5.04	1.54	1.59
36	1	2962	U	N3-C4	-5.04	1.33	1.38
85	5	2828	G	N9-C8	-5.04	1.34	1.37
37	7	87	G	C5-C4	-5.04	1.34	1.38
36	1	1619	A	C6-N6	5.04	1.38	1.33
36	1	2347	U	C2-O2	-5.04	1.17	1.22
36	1	2397	A	N9-C8	-5.04	1.33	1.37
36	1	2871	G	P-OP2	-5.04	1.40	1.49
36	1	2889	C	N1-C2	5.04	1.45	1.40
36	1	2969	A	N9-C4	-5.04	1.34	1.37
36	1	3171	U	N3-C4	5.04	1.43	1.38
36	1	3372	A	C6-N1	-5.04	1.32	1.35
80	6	538	A	N3-C4	-5.04	1.31	1.34
85	5	613	G	N9-C4	-5.04	1.33	1.38
85	5	692	A	N7-C5	-5.04	1.36	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2108	C	N1-C6	-5.04	1.34	1.37
85	5	2743	A	N9-C8	-5.04	1.33	1.37
1	2	240	U	P-O5'	5.04	1.64	1.59
1	2	881	A	N9-C4	5.04	1.40	1.37
36	1	1151	U	O3'-P	-5.04	1.55	1.61
36	1	1302	A	C5-C4	-5.04	1.35	1.38
36	1	1566	A	C6-N1	5.04	1.39	1.35
36	1	2355	G	C5-C6	-5.04	1.37	1.42
36	1	2959	C	N1-C2	-5.04	1.35	1.40
40	L3	84	VAL	CB-CG1	-5.04	1.42	1.52
85	5	170	G	N9-C4	5.04	1.42	1.38
85	5	714	G	N3-C4	-5.04	1.31	1.35
85	5	982	C	C4-C5	-5.04	1.39	1.43
85	5	1521	G	C5-C4	-5.04	1.34	1.38
85	5	3206	C	C4-C5	-5.04	1.39	1.43
38	8	150	G	C6-N1	-5.04	1.36	1.39
91	p	75	C	N3-C4	5.04	1.37	1.33
36	1	1875	G	C6-N1	-5.04	1.36	1.39
36	1	1928	G	C6-O6	-5.04	1.19	1.24
36	1	2974	U	N1-C6	-5.04	1.33	1.38
37	3	13	A	C5-C6	-5.04	1.36	1.41
38	4	70	G	C5'-C4'	-5.04	1.45	1.51
85	5	655	C	C4-N4	-5.04	1.29	1.33
85	5	1752	A	C5-C6	-5.04	1.36	1.41
36	1	329	U	C4-O4	-5.04	1.19	1.23
36	1	894	G	C5-C4	-5.04	1.34	1.38
36	1	1731	A	N3-C4	-5.04	1.31	1.34
36	1	1820	U	C3'-O3'	5.04	1.49	1.42
36	1	1868	G	N1-C2	-5.04	1.33	1.37
36	1	2984	C	C2-O2	-5.04	1.20	1.24
38	4	6	U	C2-O2	-5.04	1.17	1.22
38	4	36	G	P-OP1	-5.04	1.40	1.49
38	4	103	G	C2-N3	5.04	1.36	1.32
80	6	1321	A	N3-C4	-5.04	1.31	1.34
85	5	62	A	C5-C6	-5.04	1.36	1.41
85	5	682	U	N1-C6	-5.04	1.33	1.38
85	5	1919	G	C5-C4	-5.04	1.34	1.38
85	5	2889	C	N1-C6	-5.04	1.34	1.37
85	5	3382	U	N1-C6	5.04	1.42	1.38
37	7	78	U	C2-O2	-5.04	1.17	1.22
36	1	949	C	C4-C5	-5.04	1.39	1.43
36	1	1758	G	N9-C4	5.04	1.42	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2679	A	O3'-P	-5.04	1.55	1.61
36	1	2991	A	C6-N6	5.04	1.38	1.33
41	L4	300	ARG	CG-CD	5.04	1.64	1.51
80	6	230	C	N1-C6	5.04	1.40	1.37
85	5	42	C	N1-C6	-5.04	1.34	1.37
85	5	172	G	C5-C4	5.04	1.41	1.38
85	5	1112	A	N9-C8	-5.04	1.33	1.37
85	5	1713	G	C6-N1	-5.04	1.36	1.39
1	2	145	A	C6-N1	-5.04	1.32	1.35
1	2	1413	U	C2-N3	-5.04	1.34	1.37
1	2	1643	A	C5-C4	-5.04	1.35	1.38
36	1	981	U	C5-C6	5.04	1.38	1.34
36	1	1916	U	C2-N3	-5.04	1.34	1.37
36	1	2589	G	N3-C4	-5.04	1.31	1.35
38	4	15	G	N7-C5	-5.04	1.36	1.39
80	6	1265	G	N7-C5	5.04	1.42	1.39
85	5	628	A	N9-C8	-5.04	1.33	1.37
85	5	854	G	C8-N7	-5.04	1.27	1.30
85	5	1209	G	N9-C8	-5.04	1.34	1.37
85	5	2348	A	N9-C4	-5.04	1.34	1.37
85	5	2826	U	O3'-P	-5.04	1.55	1.61
85	5	2828	G	N1-C2	-5.04	1.33	1.37
85	5	2891	U	P-O5'	-5.04	1.54	1.59
85	5	3313	U	N3-C4	-5.04	1.33	1.38
36	1	3367	C	C2-N3	-5.03	1.31	1.35
44	L7	214	TRP	CE3-CZ3	-5.03	1.29	1.38
80	6	78	A	N9-C4	-5.03	1.34	1.37
85	5	2934	A	N1-C2	-5.03	1.29	1.34
85	5	3055	U	N1-C6	-5.03	1.33	1.38
36	1	1387	G	N7-C5	-5.03	1.36	1.39
36	1	1871	U	C2-O2	-5.03	1.17	1.22
36	1	2250	G	N9-C8	-5.03	1.34	1.37
80	6	1091	A	O3'-P	5.03	1.67	1.61
85	5	784	A	C6-N1	-5.03	1.32	1.35
85	5	2383	C	C2-N3	-5.03	1.31	1.35
48	m1	127	PHE	CD2-CE2	-5.03	1.29	1.39
51	m5	132	VAL	CB-CG2	-5.03	1.42	1.52
36	1	419	G	N9-C4	-5.03	1.33	1.38
36	1	645	A	C5-C6	5.03	1.45	1.41
36	1	795	G	C6-O6	5.03	1.28	1.24
36	1	3276	G	N9-C8	5.03	1.41	1.37
80	6	20	G	N3-C4	-5.03	1.31	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	222	A	N9-C4	5.03	1.40	1.37
80	6	279	G	N1-C2	5.03	1.41	1.37
80	6	537	G	C5-C6	-5.03	1.37	1.42
3	s1	117	TRP	CB-CG	-5.03	1.41	1.50
85	5	935	U	C2-N3	-5.03	1.34	1.37
85	5	1839	A	C6-N6	-5.03	1.29	1.33
85	5	1892	G	C4'-C3'	-5.03	1.47	1.52
85	5	2638	C	N1-C2	-5.03	1.35	1.40
85	5	2932	U	C2-O2	-5.03	1.17	1.22
85	5	3336	A	N7-C5	-5.03	1.36	1.39
85	5	680	G	N1-C2	-5.03	1.33	1.37
85	5	815	G	C2-N2	-5.03	1.29	1.34
85	5	2379	U	C3'-C2'	-5.03	1.47	1.52
1	2	1329	A	N9-C4	5.03	1.40	1.37
8	S6	122	GLU	CG-CD	5.03	1.59	1.51
36	1	134	U	C2-O2	5.03	1.26	1.22
36	1	870	G	N3-C4	-5.03	1.31	1.35
36	1	1392	G	N3-C4	-5.03	1.31	1.35
36	1	1392	G	N1-C2	-5.03	1.33	1.37
36	1	3161	C	N3-C4	5.03	1.37	1.33
56	N0	59	VAL	CB-CG1	-5.03	1.42	1.52
80	6	1318	G	N9-C4	-5.03	1.33	1.38
85	5	394	G	C6-O6	5.03	1.28	1.24
85	5	2131	A	N7-C5	-5.03	1.36	1.39
85	5	2395	G	N1-C2	-5.03	1.33	1.37
38	8	22	U	C4-O4	-5.03	1.19	1.23
68	o2	99	ASN	CB-CG	-5.03	1.39	1.51
1	2	1542	A	C5-C6	-5.03	1.36	1.41
36	1	35	A	P-OP1	-5.03	1.40	1.49
36	1	214	G	N9-C8	-5.03	1.34	1.37
80	6	86	A	C6-N1	-5.03	1.32	1.35
80	6	977	A	C5-C6	-5.03	1.36	1.41
80	6	983	A	N7-C5	-5.03	1.36	1.39
85	5	368	G	N9-C8	-5.03	1.34	1.37
85	5	968	G	C5-C4	-5.03	1.34	1.38
85	5	1139	G	C2-N2	-5.03	1.29	1.34
85	5	1764	U	N3-C4	5.03	1.43	1.38
38	8	34	U	N1-C6	-5.03	1.33	1.38
38	8	107	G	N7-C5	-5.03	1.36	1.39
36	1	198	A	C5-C6	-5.02	1.36	1.41
36	1	367	A	C5-C4	-5.02	1.35	1.38
44	L7	203	TRP	C-N	-5.02	1.24	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	119	A	C5-C6	-5.02	1.36	1.41
85	5	1301	A	N9-C8	-5.02	1.33	1.37
1	2	1541	U	C4-O4	-5.02	1.19	1.23
36	1	432	G	N9-C8	-5.02	1.34	1.37
36	1	1805	C	C2-O2	-5.02	1.20	1.24
38	4	79	A	C2-N3	5.02	1.38	1.33
80	6	148	A	N3-C4	-5.02	1.31	1.34
80	6	157	A	N3-C4	-5.02	1.31	1.34
80	6	315	A	C5-C4	-5.02	1.35	1.38
80	6	449	C	C2-O2	-5.02	1.20	1.24
28	d6	23	CYS	CB-SG	-5.02	1.73	1.81
85	5	189	G	C6-O6	-5.02	1.19	1.24
85	5	275	U	C2-O2	-5.02	1.17	1.22
85	5	510	G	C2-N3	-5.02	1.28	1.32
85	5	1455	U	C4-O4	-5.02	1.19	1.23
85	5	1591	G	C6-O6	5.02	1.28	1.24
85	5	2730	G	C5-C6	-5.02	1.37	1.42
1	2	337	G	N7-C5	-5.02	1.36	1.39
1	2	959	G	C6-N1	-5.02	1.36	1.39
1	2	1786	G	C6-N1	5.02	1.43	1.39
36	1	1079	A	N7-C5	-5.02	1.36	1.39
80	6	1132	A	N9-C4	-5.02	1.34	1.37
80	6	1324	G	P-OP2	5.02	1.57	1.49
85	5	353	G	N7-C5	-5.02	1.36	1.39
85	5	2271	A	C5-C4	-5.02	1.35	1.38
85	5	2895	G	N9-C4	-5.02	1.33	1.38
38	8	13	A	N1-C2	-5.02	1.29	1.34
1	2	1128	U	N1-C2	-5.02	1.34	1.38
36	1	1343	A	O3'-P	-5.02	1.55	1.61
36	1	2223	A	N9-C4	-5.02	1.34	1.37
80	6	1388	A	N3-C4	-5.02	1.31	1.34
85	5	2338	C	C4'-C3'	-5.02	1.47	1.52
85	5	2889	C	P-OP1	-5.02	1.40	1.49
57	n1	63	VAL	CB-CG2	-5.02	1.42	1.52
36	1	275	U	C4-O4	5.02	1.27	1.23
36	1	384	A	C6-N6	-5.02	1.29	1.33
36	1	390	G	C5-C6	-5.02	1.37	1.42
36	1	862	U	C4-C5	-5.02	1.39	1.43
36	1	889	U	C5-C6	-5.02	1.29	1.34
36	1	2401	A	C5-C4	5.02	1.42	1.38
36	1	2681	U	C2-O2	-5.02	1.17	1.22
36	1	2886	U	N3-C4	5.02	1.43	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	448	C	C2-N3	-5.02	1.31	1.35
80	6	952	A	C6-N1	-5.02	1.32	1.35
85	5	282	G	C5-C6	-5.02	1.37	1.42
85	5	727	G	P-O5'	-5.02	1.54	1.59
85	5	1439	U	C2-N3	-5.02	1.34	1.37
85	5	1536	G	N7-C5	-5.02	1.36	1.39
85	5	2121	G	N3-C4	-5.02	1.31	1.35
85	5	3081	C	C2-O2	-5.02	1.20	1.24
47	m0	46	PHE	CD1-CE1	-5.02	1.29	1.39
67	o1	64	VAL	CB-CG1	-5.02	1.42	1.52
36	1	1696	A	C6-N1	-5.02	1.32	1.35
36	1	2658	G	C5-C4	-5.02	1.34	1.38
36	1	2759	U	N1-C6	-5.02	1.33	1.38
38	4	21	C	C4'-C3'	-5.02	1.47	1.52
80	6	16	G	N7-C5	-5.02	1.36	1.39
36	1	867	G	C2-N2	-5.01	1.29	1.34
36	1	2873	U	N1-C2	-5.01	1.34	1.38
85	5	1404	G	N9-C8	-5.01	1.34	1.37
85	5	2133	U	N3-C4	-5.01	1.33	1.38
85	5	2691	A	C5-C6	-5.01	1.36	1.41
85	5	3097	C	C2-N3	-5.01	1.31	1.35
40	l3	154	TYR	CD1-CE1	-5.01	1.31	1.39
1	2	878	G	C5-C4	5.01	1.41	1.38
36	1	439	C	C2-O2	5.01	1.28	1.24
36	1	1833	G	N9-C8	-5.01	1.34	1.37
36	1	2174	G	N1-C2	-5.01	1.33	1.37
38	4	72	A	C5-C6	-5.01	1.36	1.41
80	6	119	A	N7-C5	-5.01	1.36	1.39
85	5	345	G	C5-C6	-5.01	1.37	1.42
85	5	947	G	C5-C6	-5.01	1.37	1.42
85	5	2360	C	P-OP2	-5.01	1.40	1.49
38	8	109	A	C6-N1	-5.01	1.32	1.35
1	2	600	U	C2-N3	-5.01	1.34	1.37
1	2	1612	G	N3-C4	-5.01	1.31	1.35
36	1	1296	C	N3-C4	-5.01	1.30	1.33
36	1	2127	U	C2-N3	-5.01	1.34	1.37
36	1	2584	G	C6-N1	-5.01	1.36	1.39
80	6	544	A	N7-C5	5.01	1.42	1.39
80	6	1081	A	N1-C2	5.01	1.38	1.34
85	5	441	U	O3'-P	5.01	1.67	1.61
85	5	1169	A	N3-C4	-5.01	1.31	1.34
85	5	2190	U	C2-N3	-5.01	1.34	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	l2	143	GLU	CD-OE2	5.01	1.31	1.25
54	m8	96	PHE	C-N	-5.01	1.24	1.34
36	1	2346	C	N3-C4	-5.01	1.30	1.33
36	1	3217	C	N3-C4	-5.01	1.30	1.33
80	6	278	U	N1-C2	5.01	1.43	1.38
80	6	1784	C	N1-C6	-5.01	1.34	1.37
85	5	632	G	N9-C8	-5.01	1.34	1.37
85	5	807	A	N7-C5	-5.01	1.36	1.39
85	5	1022	U	N1-C6	5.01	1.42	1.38
85	5	2928	C	O3'-P	-5.01	1.55	1.61
85	5	2940	A	N9-C4	-5.01	1.34	1.37
40	l3	6	TYR	CE1-CZ	-5.01	1.32	1.38
36	1	708	G	N9-C8	-5.01	1.34	1.37
36	1	1291	A	N7-C5	-5.01	1.36	1.39
36	1	2919	A	C6-N1	-5.01	1.32	1.35
85	5	220	G	N3-C4	-5.01	1.31	1.35
85	5	3329	U	N1-C2	-5.01	1.34	1.38
36	1	967	A	C4'-C3'	-5.01	1.47	1.52
36	1	1667	A	C6-N1	-5.01	1.32	1.35
36	1	1881	A	C5-C4	-5.01	1.35	1.38
85	5	94	G	C8-N7	-5.01	1.27	1.30
85	5	1001	G	C5-C6	5.01	1.47	1.42
85	5	1104	G	N1-C2	-5.01	1.33	1.37
85	5	2811	A	N3-C4	-5.01	1.31	1.34
85	5	2885	C	C5-C6	-5.01	1.30	1.34
44	l7	235	PHE	CG-CD2	-5.01	1.31	1.38
61	n5	123	TYR	CD1-CE1	-5.01	1.31	1.39
36	1	1181	U	C2-O2	-5.00	1.17	1.22
85	5	1132	C	N1-C2	-5.00	1.35	1.40
36	1	61	A	C6-N6	-5.00	1.29	1.33
36	1	213	A	C5-C4	-5.00	1.35	1.38
36	1	395	A	N3-C4	-5.00	1.31	1.34
36	1	498	A	N3-C4	-5.00	1.31	1.34
36	1	515	C	N3-C4	5.00	1.37	1.33
36	1	742	G	N9-C8	5.00	1.41	1.37
36	1	973	A	N3-C4	-5.00	1.31	1.34
36	1	1100	U	C2-O2	-5.00	1.17	1.22
36	1	1484	U	C4-O4	-5.00	1.19	1.23
36	1	2297	U	N3-C4	-5.00	1.33	1.38
36	1	2786	G	N1-C2	-5.00	1.33	1.37
80	6	3	U	N1-C6	-5.00	1.33	1.38
80	6	656	G	C6-N1	5.00	1.43	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	557	A	N3-C4	-5.00	1.31	1.34
85	5	2134	G	C4'-C3'	-5.00	1.47	1.52
85	5	2593	A	N7-C5	-5.00	1.36	1.39
85	5	2763	U	C4-C5	-5.00	1.39	1.43
85	5	3271	G	C2-N3	5.00	1.36	1.32
36	1	815	G	N7-C5	-5.00	1.36	1.39
36	1	1528	G	N1-C2	-5.00	1.33	1.37
36	1	2108	C	C2-N3	-5.00	1.31	1.35
36	1	2385	G	P-O5'	-5.00	1.54	1.59
36	1	3102	G	N3-C4	-5.00	1.31	1.35
36	1	3130	A	N9-C8	-5.00	1.33	1.37
80	6	576	G	N7-C5	-5.00	1.36	1.39
85	5	327	A	N1-C2	-5.00	1.29	1.34
85	5	1712	G	C5-C6	-5.00	1.37	1.42
85	5	2850	G	C6-O6	5.00	1.28	1.24

All (45668) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2707	C	N3-C4-C5	-50.63	101.65	121.90
80	6	54	C	N3-C4-C5	-49.41	102.13	121.90
80	6	1070	C	N3-C4-C5	-42.39	104.94	121.90
80	6	818	C	N3-C4-C5	-42.29	104.98	121.90
80	6	1498	G	C5-N7-C8	-42.11	83.24	104.30
85	5	748	U	N3-C4-C5	-38.17	91.70	114.60
85	5	1935	G	C5-N7-C8	-35.76	86.42	104.30
85	5	2707	C	C6-N1-C2	-35.67	106.03	120.30
85	5	2989	U	O5'-P-OP2	-34.95	68.76	110.70
80	6	1051	G	C5-N7-C8	-33.82	87.39	104.30
80	6	1673	G	C5-C6-N1	-33.06	94.97	111.50
37	7	63	A	C5-C6-N1	-32.73	101.33	117.70
80	6	420	A	C5-C6-N1	-32.52	101.44	117.70
80	6	1498	G	N7-C8-N9	32.50	129.35	113.10
85	5	2208	A	C5-C6-N1	-32.24	101.58	117.70
85	5	2603	G	C5-N7-C8	-32.06	88.27	104.30
85	5	2751	G	C5-N7-C8	-32.00	88.30	104.30
85	5	1662	G	C5-C6-N1	-31.87	95.56	111.50
85	5	3239	G	C5-N7-C8	-31.19	88.70	104.30
80	6	122	U	C4-C5-C6	-30.76	101.24	119.70
80	6	1498	G	C4-C5-N7	30.31	122.92	110.80
85	5	383	G	C5-C6-N1	-30.29	96.35	111.50
85	5	2964	G	N1-C6-O6	-30.23	101.76	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1649	G	C5-N7-C8	-30.13	89.23	104.30
80	6	423	G	C5-N7-C8	-30.05	89.27	104.30
85	5	2124	G	C5-C6-N1	-29.93	96.53	111.50
85	5	777	U	C4-C5-C6	-29.89	101.76	119.70
80	6	1155	G	C5-N7-C8	-29.75	89.42	104.30
85	5	748	U	C6-N1-C2	-29.60	103.24	121.00
80	6	1109	G	C5-N7-C8	-29.07	89.77	104.30
85	5	774	G	C5-C6-N1	-28.98	97.01	111.50
80	6	1070	C	C6-N1-C2	-28.63	108.85	120.30
80	6	1051	G	N7-C8-N9	28.54	127.37	113.10
36	1	672	A	C2-N3-C4	-28.39	96.41	110.60
85	5	3327	G	C5-C6-N1	-28.32	97.34	111.50
85	5	1133	A	N1-C6-N6	28.12	135.47	118.60
85	5	2603	G	N7-C8-N9	28.10	127.15	113.10
85	5	2751	G	N7-C8-N9	28.02	127.11	113.10
85	5	1772	U	N3-C4-C5	-27.99	97.81	114.60
85	5	1413	G	C5-N7-C8	-27.79	90.41	104.30
36	1	640	U	N1-C2-N3	27.67	131.50	114.90
85	5	1935	G	C4-C5-N7	27.55	121.82	110.80
80	6	204	G	C5-N7-C8	-27.53	90.53	104.30
85	5	1149	G	C8-N9-C4	-27.39	95.44	106.40
80	6	347	G	C5-C6-N1	-27.39	97.81	111.50
80	6	1672	G	C5-N7-C8	-26.91	90.84	104.30
85	5	2707	C	N1-C2-O2	-26.85	102.79	118.90
85	5	2417	U	N3-C4-C5	-26.70	98.58	114.60
85	5	2877	G	C5-N7-C8	-26.58	91.01	104.30
80	6	1673	G	C4-C5-N7	-26.50	100.20	110.80
91	p	74	C	O5'-P-OP2	-26.44	78.97	110.70
85	5	1935	G	N7-C8-N9	26.33	126.27	113.10
85	5	2877	G	N7-C8-N9	26.32	126.26	113.10
85	5	2724	U	N3-C4-C5	-26.18	98.89	114.60
85	5	1542	G	C5-N7-C8	-26.17	91.21	104.30
37	7	65	G	O5'-P-OP1	-26.02	79.48	110.70
80	6	1353	U	C4-C5-C6	-25.79	104.23	119.70
36	1	921	A	N1-C6-N6	-25.66	103.20	118.60
85	5	1149	G	C5-N7-C8	-25.65	91.48	104.30
85	5	963	G	O5'-P-OP2	-25.53	80.06	110.70
36	1	585	A	C2-N3-C4	-25.50	97.85	110.60
85	5	1133	A	C5-C6-N1	-25.50	104.95	117.70
80	6	1109	G	N7-C8-N9	25.46	125.83	113.10
80	6	122	U	C5-C6-N1	25.27	135.34	122.70
85	5	3239	G	C4-C5-N7	25.10	120.84	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1165	A	C2-N3-C4	-24.89	98.15	110.60
85	5	2850	G	N1-C6-O6	24.89	134.83	119.90
80	6	1294	G	C5-N7-C8	-24.87	91.86	104.30
85	5	2283	G	N1-C6-O6	24.83	134.80	119.90
85	5	1149	G	N7-C8-N9	24.80	125.50	113.10
80	6	264	G	C5-N7-C8	-24.70	91.95	104.30
80	6	678	A	C5-N7-C8	-24.58	91.61	103.90
36	1	267	G	N1-C6-O6	24.53	134.62	119.90
85	5	777	U	C5-C6-N1	24.42	134.91	122.70
36	1	645	A	N1-C6-N6	-24.41	103.95	118.60
36	1	59	G	N1-C6-O6	24.38	134.53	119.90
36	1	645	A	N9-C4-C5	24.35	115.54	105.80
80	6	1293	U	C4-C5-C6	-24.33	105.10	119.70
85	5	1661	G	C5-N7-C8	-24.32	92.14	104.30
37	7	100	C	C6-N1-C2	24.24	130.00	120.30
36	1	645	A	C6-N1-C2	-24.23	104.06	118.60
80	6	678	A	N7-C8-N9	24.05	125.83	113.80
85	5	1889	G	C5-C6-O6	-24.02	114.19	128.60
85	5	3050	U	N3-C2-O2	-24.01	105.39	122.20
85	5	2857	C	OP1-P-OP2	-24.00	83.59	119.60
37	7	85	G	N1-C6-O6	24.00	134.30	119.90
80	6	1498	G	C8-N9-C4	-23.82	96.87	106.40
80	6	1143	A	C5-N7-C8	-23.80	92.00	103.90
85	5	2663	G	N1-C6-O6	23.73	134.14	119.90
85	5	693	A	O5'-P-OP1	-23.71	82.24	110.70
80	6	423	G	N7-C8-N9	23.69	124.94	113.10
85	5	1375	G	C5-C6-N1	-23.55	99.72	111.50
85	5	2273	G	C5-C6-O6	23.51	142.71	128.60
80	6	1213	G	N1-C6-O6	23.50	134.00	119.90
80	6	1107	G	O5'-P-OP2	-23.48	82.53	110.70
85	5	1897	G	N1-C6-O6	23.48	133.99	119.90
80	6	1051	G	C4-C5-N7	23.40	120.16	110.80
85	5	2376	G	N7-C8-N9	23.34	124.77	113.10
36	1	1433	A	C8-N9-C4	-23.34	96.47	105.80
85	5	2406	C	N3-C4-C5	-23.33	112.57	121.90
80	6	469	C	C6-N1-C2	23.31	129.62	120.30
36	1	957	C	N1-C2-O2	-23.27	104.94	118.90
85	5	2964	G	C5-C6-O6	23.22	142.53	128.60
36	1	808	A	C5-C6-N1	23.19	129.29	117.70
85	5	1281	G	C5-N7-C8	-23.18	92.71	104.30
85	5	1805	C	C6-N1-C2	23.05	129.52	120.30
36	1	2636	A	C8-N9-C4	-23.04	96.58	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2888	U	C5-C4-O4	-23.02	112.09	125.90
80	6	871	G	C5-C6-N1	-23.00	100.00	111.50
80	6	420	A	C4-C5-C6	22.98	128.49	117.00
36	1	2972	G	C5-C6-O6	-22.97	114.82	128.60
36	1	928	C	C2-N3-C4	-22.96	108.42	119.90
80	6	1649	G	N7-C8-N9	22.91	124.56	113.10
80	6	1051	G	C8-N9-C4	-22.85	97.26	106.40
36	1	307	A	N1-C6-N6	-22.80	104.92	118.60
36	1	2873	U	N1-C2-N3	22.75	128.55	114.90
36	1	796	U	N1-C2-N3	22.67	128.50	114.90
36	1	3000	A	C8-N9-C4	22.61	114.84	105.80
85	5	3245	A	C2-N3-C4	-22.60	99.30	110.60
85	5	2707	C	N3-C4-N4	22.60	133.82	118.00
85	5	748	U	C5-C4-O4	22.59	139.45	125.90
85	5	1124	U	N3-C4-C5	-22.55	101.07	114.60
36	1	921	A	C5-C6-N1	22.55	128.97	117.70
36	1	435	C	C6-N1-C2	22.54	129.32	120.30
85	5	748	U	C2-N3-C4	22.54	140.52	127.00
80	6	410	A	O5'-P-OP2	-22.53	83.67	110.70
85	5	826	G	N1-C6-O6	22.53	133.42	119.90
80	6	871	G	N1-C6-O6	22.51	133.41	119.90
36	1	427	C	N1-C2-O2	-22.48	105.41	118.90
85	5	2376	G	C5-N7-C8	-22.46	93.07	104.30
85	5	2707	C	C5-C6-N1	22.37	132.18	121.00
85	5	2142	A	N1-C6-N6	-22.26	105.24	118.60
85	5	751	A	O5'-P-OP2	-22.25	84.00	110.70
85	5	425	G	C2-N3-C4	-22.25	100.78	111.90
85	5	2707	C	C2-N3-C4	22.25	131.02	119.90
36	1	942	U	N3-C4-C5	-22.22	101.27	114.60
85	5	721	G	N1-C6-O6	22.22	133.23	119.90
85	5	2656	A	C2-N3-C4	-22.20	99.50	110.60
85	5	2156	C	C6-N1-C2	22.19	129.18	120.30
85	5	2751	G	C4-C5-N7	22.16	119.66	110.80
36	1	702	C	C6-N1-C2	-22.11	111.46	120.30
85	5	2417	U	N3-C4-O4	22.11	134.87	119.40
36	1	967	A	C2-N3-C4	-22.09	99.55	110.60
36	1	1364	C	N3-C4-C5	22.09	130.73	121.90
37	7	45	A	N1-C6-N6	-22.08	105.35	118.60
85	5	1661	G	N7-C8-N9	21.98	124.09	113.10
85	5	2416	U	O5'-P-OP2	-21.98	84.33	110.70
85	5	2821	C	N1-C2-O2	-21.97	105.72	118.90
85	5	1862	U	N3-C4-C5	-21.95	101.43	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	798	G	N1-C6-O6	21.95	133.07	119.90
85	5	2725	U	N3-C4-C5	-21.95	101.43	114.60
80	6	1155	G	N7-C8-N9	21.94	124.07	113.10
85	5	1542	G	C4-C5-N7	21.93	119.57	110.80
80	6	54	C	C4-C5-C6	21.85	128.32	117.40
85	5	963	G	N1-C6-O6	-21.84	106.79	119.90
80	6	54	C	C6-N1-C2	-21.78	111.59	120.30
85	5	2319	U	N3-C4-C5	-21.76	101.54	114.60
36	1	2971	A	C8-N9-C4	-21.76	97.10	105.80
85	5	870	G	C5-N7-C8	-21.73	93.43	104.30
36	1	921	A	C6-N1-C2	-21.71	105.58	118.60
80	6	1143	A	N7-C8-N9	21.68	124.64	113.80
80	6	1649	G	C4-C5-N7	21.66	119.46	110.80
36	1	1904	C	C6-N1-C2	-21.61	111.66	120.30
36	1	802	C	C6-N1-C2	-21.60	111.66	120.30
85	5	1934	G	N1-C6-O6	21.59	132.85	119.90
38	8	3	A	O5'-P-OP2	21.58	136.59	110.70
85	5	2296	A	N1-C6-N6	-21.56	105.66	118.60
38	4	14	C	C6-N1-C2	21.54	128.92	120.30
85	5	1390	A	N1-C6-N6	-21.51	105.69	118.60
85	5	1413	G	N7-C8-N9	21.51	123.85	113.10
80	6	423	G	C8-N9-C4	-21.49	97.80	106.40
36	1	3275	U	C5-C6-N1	21.48	133.44	122.70
85	5	41	G	O5'-P-OP2	-21.45	84.96	110.70
85	5	2603	G	C4-C5-N7	21.43	119.37	110.80
85	5	2405	C	N3-C2-O2	-21.42	106.91	121.90
36	1	703	G	N1-C6-O6	-21.38	107.07	119.90
80	6	1155	G	C4-C5-N7	21.37	119.35	110.80
85	5	2603	G	C8-N9-C4	-21.33	97.87	106.40
85	5	2775	U	C5-C6-N1	-21.30	112.05	122.70
85	5	2403	G	N1-C6-O6	21.29	132.68	119.90
36	1	609	G	C5-C6-O6	-21.28	115.83	128.60
80	6	204	G	N7-C8-N9	21.24	123.72	113.10
85	5	2724	U	C6-N1-C2	-21.24	108.26	121.00
85	5	407	A	C8-N9-C4	-21.20	97.32	105.80
85	5	3089	C	C6-N1-C2	-21.19	111.82	120.30
80	6	347	G	N1-C6-O6	21.19	132.61	119.90
85	5	918	C	N3-C2-O2	21.16	136.71	121.90
85	5	2944	U	C5-C4-O4	21.15	138.59	125.90
80	6	818	C	C6-N1-C2	-21.15	111.84	120.30
85	5	3239	G	N7-C8-N9	21.13	123.67	113.10
36	1	1337	A	O5'-P-OP2	-21.12	85.35	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	508	U	N3-C4-C5	-21.12	101.93	114.60
85	5	2877	G	C8-N9-C4	-21.08	97.97	106.40
80	6	818	C	N3-C4-N4	21.04	132.73	118.00
85	5	1133	A	C4-C5-C6	21.03	127.52	117.00
36	1	672	A	C5-C6-N1	-21.03	107.19	117.70
85	5	283	G	C5-C6-O6	-20.98	116.01	128.60
36	1	585	A	C5-C6-N1	-20.98	107.21	117.70
85	5	1413	G	C4-C5-N7	20.96	119.19	110.80
36	1	1389	G	C5-C6-O6	-20.96	116.03	128.60
80	6	1417	A	O5'-P-OP2	20.95	135.84	110.70
85	5	2368	A	C8-N9-C4	-20.94	97.42	105.80
85	5	3161	C	C6-N1-C2	-20.89	111.94	120.30
80	6	1353	U	C5-C6-N1	20.84	133.12	122.70
36	1	641	C	C6-N1-C2	-20.82	111.97	120.30
36	1	2758	A	C8-N9-C4	20.78	114.11	105.80
85	5	508	U	C6-N1-C2	-20.78	108.53	121.00
85	5	915	A	O5'-P-OP1	-20.75	85.80	110.70
85	5	3039	C	N1-C2-O2	-20.75	106.45	118.90
85	5	2742	C	C6-N1-C2	20.73	128.59	120.30
85	5	2751	G	C8-N9-C4	-20.70	98.12	106.40
1	2	630	A	C8-N9-C4	20.69	114.08	105.80
85	5	2732	G	C5-C6-N1	-20.69	101.16	111.50
85	5	941	G	C5-C6-N1	20.66	121.83	111.50
37	7	85	G	C6-C5-N7	-20.63	118.02	130.40
85	5	2610	G	N1-C6-O6	20.61	132.26	119.90
85	5	2163	C	C6-N1-C2	-20.57	112.07	120.30
36	1	3367	C	C6-N1-C2	20.57	128.53	120.30
36	1	645	A	C5-C6-N1	20.54	127.97	117.70
85	5	2192	C	N3-C4-C5	-20.54	113.69	121.90
80	6	1131	A	C8-N9-C4	-20.51	97.60	105.80
85	5	1149	G	C5-C6-O6	-20.49	116.31	128.60
36	1	645	A	C2-N3-C4	20.48	120.84	110.60
36	1	2889	C	N1-C2-O2	20.45	131.17	118.90
85	5	101	G	O5'-P-OP2	-20.38	86.24	110.70
85	5	813	G	N1-C6-O6	20.38	132.12	119.90
85	5	2724	U	C4-C5-C6	20.37	131.92	119.70
85	5	2354	C	N3-C4-C5	-20.36	113.76	121.90
80	6	54	C	C2-N3-C4	20.34	130.07	119.90
85	5	330	G	C5-N7-C8	-20.34	94.13	104.30
85	5	2801	A	C5-C6-N1	20.32	127.86	117.70
85	5	798	G	C6-C5-N7	-20.28	118.23	130.40
85	5	813	G	C5-C6-O6	-20.28	116.43	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1070	C	C4-C5-C6	20.26	127.53	117.40
85	5	3308	C	O5'-P-OP2	-20.26	86.39	110.70
80	6	423	G	C4-C5-N7	20.17	118.87	110.80
85	5	1433	A	C8-N9-C4	-20.15	97.74	105.80
85	5	1662	G	C4-C5-N7	-20.14	102.74	110.80
37	7	85	G	C5-C6-O6	-20.14	116.52	128.60
36	1	54	C	C6-N1-C2	20.13	128.35	120.30
85	5	2300	G	N1-C6-O6	-20.13	107.82	119.90
85	5	2318	U	N3-C4-C5	-20.12	102.53	114.60
80	6	1109	G	C8-N9-C4	-20.08	98.37	106.40
85	5	734	C	C6-N1-C2	20.07	128.33	120.30
85	5	2288	G	N1-C2-N3	20.05	135.93	123.90
85	5	3089	C	N3-C4-C5	-20.04	113.89	121.90
36	1	1198	C	C6-N1-C2	-20.04	112.28	120.30
36	1	3362	A	N1-C6-N6	20.01	130.61	118.60
36	1	645	A	N3-C4-C5	-20.01	112.80	126.80
80	6	565	C	C5-C4-N4	20.00	134.20	120.20
85	5	2715	A	C8-N9-C4	-20.00	97.80	105.80
36	1	672	A	N1-C6-N6	20.00	130.60	118.60
85	5	358	G	C2-N3-C4	-19.99	101.91	111.90
85	5	2273	G	C5-C6-N1	-19.97	101.52	111.50
80	6	54	C	N3-C4-N4	19.97	131.98	118.00
38	4	144	G	C4-C5-N7	-19.94	102.82	110.80
80	6	1294	G	C4-C5-N7	19.94	118.78	110.80
36	1	942	U	C4-C5-C6	19.93	131.66	119.70
36	1	2889	C	N3-C2-O2	-19.87	107.99	121.90
36	1	2991	A	C5-C6-N1	-19.86	107.77	117.70
38	8	110	C	C6-N1-C2	-19.84	112.36	120.30
85	5	1444	G	N1-C6-O6	19.80	131.78	119.90
36	1	197	G	C4-C5-N7	19.76	118.70	110.80
85	5	1934	G	C5-C6-N1	-19.75	101.62	111.50
38	4	52	A	N1-C6-N6	-19.72	106.77	118.60
80	6	1214	U	N3-C4-O4	19.71	133.20	119.40
1	2	1436	G	C8-N9-C4	19.71	114.28	106.40
36	1	676	G	C8-N9-C4	-19.70	98.52	106.40
80	6	204	G	C4-C5-N7	19.67	118.67	110.80
36	1	1375	G	C5-C6-N1	-19.67	101.67	111.50
37	7	63	A	C4-C5-C6	19.66	126.83	117.00
36	1	2760	C	C6-N1-C2	19.66	128.16	120.30
36	1	3275	U	C2-N3-C4	19.64	138.78	127.00
36	1	2991	A	N1-C6-N6	19.63	130.38	118.60
36	1	2419	A	O5'-P-OP1	-19.60	87.18	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	645	A	C8-N9-C4	-19.59	97.97	105.80
36	1	580	C	C6-N1-C2	-19.59	112.47	120.30
85	5	591	G	N1-C6-O6	19.56	131.64	119.90
85	5	2968	G	N1-C6-O6	-19.55	108.17	119.90
85	5	1897	G	C6-C5-N7	-19.55	118.67	130.40
80	6	420	A	N1-C6-N6	19.55	130.33	118.60
85	5	1753	G	N1-C6-O6	19.55	131.63	119.90
36	1	397	A	N1-C6-N6	-19.54	106.88	118.60
80	6	1294	G	N7-C8-N9	19.54	122.87	113.10
36	1	1435	A	C8-N9-C4	-19.54	97.99	105.80
36	1	1115	G	C2-N3-C4	-19.51	102.14	111.90
36	1	283	G	C4-C5-N7	19.51	118.60	110.80
36	1	2811	A	C8-N9-C4	-19.49	98.00	105.80
38	4	116	G	C8-N9-C4	19.48	114.19	106.40
36	1	2808	A	N1-C6-N6	19.46	130.27	118.60
85	5	3019	U	N1-C2-O2	19.45	136.41	122.80
85	5	2864	A	C5-C6-N1	19.45	127.42	117.70
85	5	658	G	C8-N9-C4	-19.43	98.63	106.40
36	1	56	G	C5-C6-O6	-19.41	116.95	128.60
85	5	383	G	C6-N1-C2	19.38	136.73	125.10
85	5	410	U	C6-N1-C2	-19.35	109.39	121.00
85	5	216	G	N1-C6-O6	19.32	131.50	119.90
85	5	600	G	N1-C6-O6	19.32	131.49	119.90
85	5	2199	G	N1-C6-O6	19.32	131.49	119.90
85	5	1519	G	C5-C6-O6	-19.30	117.02	128.60
85	5	2741	C	N1-C2-O2	-19.27	107.33	118.90
80	6	1672	G	C4-C5-C6	-19.27	107.24	118.80
36	1	79	U	N1-C2-N3	19.27	126.46	114.90
36	1	49	A	C8-N9-C4	19.26	113.50	105.80
85	5	194	U	N3-C2-O2	-19.22	108.75	122.20
85	5	640	U	N3-C4-O4	19.19	132.83	119.40
36	1	1131	G	O5'-P-OP2	-19.18	87.68	110.70
85	5	1114	U	O5'-P-OP2	-19.17	87.69	110.70
85	5	2187	G	O5'-P-OP1	-19.14	87.73	110.70
85	5	106	A	C8-N9-C4	19.14	113.46	105.80
85	5	2403	G	C5-C6-N1	-19.13	101.94	111.50
85	5	1661	G	O5'-P-OP2	-19.12	87.76	110.70
85	5	1149	G	C4-C5-N7	19.11	118.44	110.80
36	1	55	G	C8-N9-C4	19.10	114.04	106.40
36	1	600	G	N1-C6-O6	19.09	131.36	119.90
80	6	469	C	N1-C2-N3	-19.08	105.85	119.20
85	5	1404	G	C2-N3-C4	-19.07	102.36	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1672	G	N7-C8-N9	19.06	122.63	113.10
85	5	870	G	N7-C8-N9	19.05	122.63	113.10
85	5	638	C	C6-N1-C2	-19.04	112.68	120.30
85	5	1205	A	C5-C6-N1	19.02	127.21	117.70
36	1	49	A	N7-C8-N9	-19.01	104.29	113.80
38	4	113	U	O5'-P-OP2	-19.01	87.89	110.70
38	4	108	C	N1-C2-O2	-19.00	107.50	118.90
36	1	671	U	O5'-P-OP2	-18.97	87.93	110.70
85	5	1312	C	N3-C4-C5	-18.95	114.32	121.90
85	5	813	G	C4-C5-N7	18.92	118.37	110.80
36	1	2758	A	N7-C8-N9	-18.89	104.35	113.80
36	1	2873	U	C5-C4-O4	18.88	137.23	125.90
85	5	3198	U	C5-C4-O4	-18.88	114.58	125.90
85	5	2893	C	N3-C2-O2	18.86	135.10	121.90
85	5	3050	U	N1-C2-O2	18.84	135.99	122.80
85	5	2376	G	C8-N9-C4	-18.82	98.87	106.40
85	5	2646	C	N3-C4-C5	18.81	129.43	121.90
1	2	1010	A	N1-C6-N6	18.80	129.88	118.60
36	1	221	A	O5'-P-OP1	-18.80	88.14	110.70
85	5	519	A	N1-C6-N6	18.80	129.88	118.60
36	1	286	U	N3-C2-O2	-18.78	109.05	122.20
85	5	653	A	C5-N7-C8	-18.77	94.52	103.90
80	6	32	U	N3-C4-C5	-18.76	103.34	114.60
80	6	264	G	N7-C8-N9	18.76	122.48	113.10
85	5	1696	A	O5'-P-OP2	-18.75	88.20	110.70
85	5	2142	A	C5-C6-N1	18.75	127.07	117.70
36	1	1165	A	N1-C2-N3	18.73	138.66	129.30
85	5	2395	G	C5-N7-C8	-18.73	94.94	104.30
80	6	646	C	C6-N1-C2	-18.73	112.81	120.30
85	5	2799	A	N1-C2-N3	18.72	138.66	129.30
85	5	651	G	C2-N3-C4	-18.68	102.56	111.90
85	5	2876	C	C2-N3-C4	-18.68	110.56	119.90
85	5	818	C	C6-N1-C2	18.68	127.77	120.30
36	1	54	C	N3-C4-C5	18.67	129.37	121.90
36	1	1519	G	O5'-P-OP2	-18.67	88.30	110.70
85	5	2320	A	C2-N3-C4	-18.66	101.27	110.60
36	1	2960	C	N3-C2-O2	-18.64	108.85	121.90
36	1	1154	A	C6-N1-C2	-18.61	107.44	118.60
85	5	2177	G	C5-C6-N1	-18.60	102.20	111.50
80	6	119	A	C2-N3-C4	-18.59	101.31	110.60
85	5	1180	A	O5'-P-OP1	-18.58	88.40	110.70
36	1	346	C	C2-N3-C4	-18.58	110.61	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2401	A	C2-N3-C4	-18.57	101.31	110.60
85	5	1434	G	O5'-P-OP2	-18.57	88.42	110.70
36	1	2720	G	O5'-P-OP2	-18.56	88.43	110.70
85	5	1156	C	N1-C2-O2	-18.56	107.77	118.90
36	1	940	G	O5'-P-OP1	-18.55	88.44	110.70
85	5	2944	U	N3-C2-O2	-18.54	109.22	122.20
85	5	2936	A	N1-C6-N6	-18.51	107.49	118.60
85	5	1662	G	C2-N3-C4	-18.51	102.64	111.90
36	1	427	C	C6-N1-C2	-18.50	112.90	120.30
36	1	857	G	C5-C6-N1	-18.49	102.25	111.50
36	1	1389	G	C4-C5-N7	18.49	118.19	110.80
38	4	94	C	C2-N3-C4	-18.48	110.66	119.90
80	6	818	C	C2-N3-C4	18.47	129.14	119.90
91	p	74	C	O5'-P-OP1	-18.47	88.54	110.70
85	5	3271	G	C5-C6-N1	18.46	120.73	111.50
36	1	3379	C	N3-C4-C5	-18.45	114.52	121.90
85	5	653	A	N1-C6-N6	18.44	129.67	118.60
85	5	1133	A	C6-C5-N7	-18.43	119.40	132.30
80	6	872	G	N1-C6-O6	18.43	130.96	119.90
85	5	208	C	O5'-P-OP1	-18.43	88.59	110.70
36	1	967	A	N1-C2-N3	18.42	138.51	129.30
85	5	1152	G	C5-N7-C8	-18.42	95.09	104.30
85	5	2884	C	C6-N1-C2	-18.41	112.93	120.30
80	6	1672	G	C4-C5-N7	18.41	118.16	110.80
85	5	295	A	C2-N3-C4	-18.40	101.40	110.60
85	5	1884	A	N1-C2-N3	18.40	138.50	129.30
80	6	1293	U	C5-C6-N1	18.38	131.89	122.70
36	1	2619	G	N1-C6-O6	-18.38	108.87	119.90
85	5	2852	C	C6-N1-C2	18.36	127.64	120.30
85	5	2943	G	N1-C6-O6	18.35	130.91	119.90
36	1	3212	C	C6-N1-C2	18.35	127.64	120.30
85	5	2300	G	C5-C6-N1	18.34	120.67	111.50
85	5	978	G	N1-C6-O6	-18.33	108.90	119.90
36	1	216	G	O5'-P-OP1	-18.33	88.70	110.70
36	1	936	A	O5'-P-OP2	-18.33	88.70	110.70
36	1	987	U	O5'-P-OP2	-18.33	88.71	110.70
36	1	1495	U	C5-C6-N1	-18.30	113.55	122.70
36	1	2715	A	N1-C6-N6	-18.30	107.62	118.60
36	1	640	U	C6-N1-C2	-18.29	110.03	121.00
36	1	3103	A	C2-N3-C4	-18.27	101.46	110.60
37	7	45	A	C5-C6-N1	18.27	126.84	117.70
36	1	2983	C	N3-C2-O2	-18.27	109.11	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3026	G	C5-C6-N1	-18.25	102.38	111.50
85	5	1444	G	C5-C6-N1	-18.23	102.38	111.50
37	7	85	G	C4-C5-N7	18.22	118.09	110.80
36	1	2890	A	C8-N9-C4	-18.22	98.51	105.80
36	1	3207	U	C5-C4-O4	18.22	136.83	125.90
85	5	2801	A	C2-N3-C4	18.21	119.71	110.60
85	5	2790	A	C2-N3-C4	-18.20	101.50	110.60
38	4	47	C	N3-C2-O2	-18.20	109.16	121.90
85	5	1192	C	N3-C2-O2	-18.20	109.16	121.90
36	1	2645	G	N1-C2-N3	18.20	134.82	123.90
85	5	437	G	N1-C6-O6	-18.19	108.99	119.90
36	1	1398	U	O5'-P-OP2	-18.18	88.88	110.70
85	5	2794	G	C5-C6-O6	-18.17	117.70	128.60
80	6	987	G	C5-N7-C8	-18.17	95.22	104.30
80	6	463	U	N3-C4-O4	18.16	132.11	119.40
85	5	701	G	C8-N9-C4	18.16	113.67	106.40
36	1	684	G	C4-C5-N7	18.16	118.06	110.80
36	1	2349	U	O5'-P-OP2	-18.15	88.92	110.70
85	5	1662	G	C4-C5-C6	18.13	129.68	118.80
85	5	208	C	C6-N1-C2	-18.13	113.05	120.30
37	7	11	A	O5'-P-OP1	-18.13	88.94	110.70
85	5	1281	G	N7-C8-N9	18.13	122.16	113.10
85	5	2970	C	C6-N1-C2	18.11	127.55	120.30
80	6	1727	G	C5-C6-N1	-18.11	102.44	111.50
85	5	345	G	C5-C6-N1	-18.11	102.45	111.50
85	5	2124	G	N1-C6-O6	18.10	130.76	119.90
80	6	818	C	C4-C5-C6	18.09	126.44	117.40
38	4	42	G	O5'-P-OP2	-18.08	89.01	110.70
85	5	657	A	C5-N7-C8	-18.07	94.87	103.90
36	1	1169	A	N1-C6-N6	-18.04	107.78	118.60
36	1	343	U	N1-C2-N3	18.03	125.72	114.90
85	5	580	C	C6-N1-C2	-18.02	113.09	120.30
85	5	2929	C	N3-C2-O2	-18.00	109.30	121.90
85	5	2881	C	N1-C2-O2	-17.99	108.11	118.90
85	5	2619	G	N1-C6-O6	-17.98	109.11	119.90
85	5	942	U	C6-N1-C2	-17.97	110.22	121.00
85	5	1482	A	O5'-P-OP2	-17.97	89.14	110.70
85	5	2794	G	C5-C6-N1	17.96	120.48	111.50
85	5	1343	A	C2-N3-C4	-17.95	101.63	110.60
85	5	2933	A	N1-C6-N6	-17.94	107.83	118.60
85	5	1903	U	N3-C4-C5	-17.93	103.84	114.60
85	5	1152	G	N7-C8-N9	17.93	122.06	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1213	G	C5-C6-O6	-17.92	117.85	128.60
85	5	3215	A	N1-C6-N6	17.91	129.35	118.60
85	5	2142	A	C2-N3-C4	17.91	119.56	110.60
80	6	1651	A	OP1-P-O3'	17.90	144.59	105.20
36	1	2632	G	O5'-P-OP2	-17.89	89.23	110.70
85	5	96	G	C2-N3-C4	-17.88	102.96	111.90
36	1	2960	C	N1-C2-O2	17.88	129.63	118.90
85	5	3018	C	O5'-P-OP2	-17.88	89.25	110.70
36	1	197	G	C5-C6-O6	-17.86	117.88	128.60
85	5	1519	G	C4-C5-N7	17.86	117.94	110.80
85	5	2725	U	C2-N3-C4	17.85	137.71	127.00
85	5	1542	G	N7-C8-N9	17.81	122.00	113.10
80	6	1143	A	C4-C5-C6	-17.81	108.09	117.00
36	1	1791	C	N1-C2-O2	-17.80	108.22	118.90
85	5	2644	C	C5-C6-N1	-17.79	112.11	121.00
36	1	2618	G	N1-C2-N3	17.78	134.57	123.90
85	5	1311	G	O5'-P-OP2	-17.78	89.37	110.70
85	5	3300	U	O5'-P-OP2	-17.76	89.38	110.70
36	1	610	G	C2-N3-C4	-17.76	103.02	111.90
36	1	1371	G	C2-N3-C4	-17.75	103.02	111.90
85	5	2893	C	N1-C2-O2	-17.74	108.25	118.90
36	1	17	G	C5-C6-O6	-17.73	117.96	128.60
36	1	2637	A	C6-N1-C2	-17.72	107.97	118.60
85	5	753	C	N3-C4-C5	17.70	128.98	121.90
85	5	1111	U	C5-C4-O4	-17.69	115.29	125.90
36	1	224	C	C2-N3-C4	17.68	128.74	119.90
85	5	3245	A	C5-C6-N1	-17.66	108.87	117.70
85	5	1399	A	C5-C6-N1	-17.66	108.87	117.70
80	6	1673	G	C2-N3-C4	-17.66	103.07	111.90
36	1	98	G	N1-C2-N3	17.65	134.49	123.90
36	1	59	G	C6-C5-N7	-17.65	119.81	130.40
36	1	2288	G	O5'-P-OP1	-17.65	89.52	110.70
85	5	82	C	N3-C4-C5	-17.64	114.84	121.90
36	1	178	U	N3-C2-O2	-17.63	109.86	122.20
80	6	54	C	N1-C2-O2	-17.62	108.33	118.90
36	1	1406	A	C5-C6-N1	17.62	126.51	117.70
36	1	2344	U	O5'-P-OP2	-17.59	89.59	110.70
38	8	20	U	N1-C2-O2	-17.59	110.49	122.80
80	6	419	G	C5-N7-C8	-17.57	95.51	104.30
36	1	751	A	C5-N7-C8	-17.57	95.11	103.90
36	1	2617	U	C5-C4-O4	17.57	136.44	125.90
36	1	625	G	N1-C6-O6	-17.56	109.36	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	857	G	C2-N3-C4	-17.55	103.12	111.90
85	5	1192	C	N1-C2-O2	17.55	129.43	118.90
36	1	2874	G	C5-C6-N1	-17.54	102.73	111.50
85	5	283	G	C4-C5-N7	17.54	117.82	110.80
85	5	2654	C	C6-N1-C2	-17.54	113.28	120.30
85	5	873	C	C6-N1-C2	-17.54	113.29	120.30
85	5	359	U	C5-C6-N1	17.54	131.47	122.70
85	5	2376	G	C6-C5-N7	-17.52	119.89	130.40
36	1	201	A	C2-N3-C4	-17.52	101.84	110.60
38	8	3	A	C5-C6-N1	17.51	126.45	117.70
85	5	3378	C	O5'-P-OP2	-17.50	89.70	110.70
85	5	635	G	C5-C6-O6	-17.50	118.10	128.60
85	5	2393	G	O5'-P-OP2	-17.49	89.71	110.70
36	1	870	G	C5-C6-O6	-17.48	118.11	128.60
36	1	2209	U	C5-C6-N1	17.47	131.44	122.70
36	1	796	U	N3-C2-O2	-17.47	109.97	122.20
85	5	1133	A	C2-N3-C4	-17.47	101.86	110.60
36	1	2618	G	N1-C2-N2	-17.46	100.49	116.20
85	5	1205	A	C6-N1-C2	-17.46	108.13	118.60
85	5	2405	C	C2-N3-C4	-17.44	111.18	119.90
36	1	159	A	C2-N3-C4	-17.43	101.88	110.60
36	1	2824	G	C5-C6-N1	-17.43	102.78	111.50
36	1	646	A	N1-C2-N3	17.43	138.01	129.30
36	1	1432	C	C6-N1-C2	-17.43	113.33	120.30
80	6	1498	G	C4-C5-C6	-17.42	108.35	118.80
85	5	1116	G	O5'-P-OP1	-17.41	89.81	110.70
85	5	774	G	C2-N3-C4	-17.40	103.20	111.90
37	3	91	G	C8-N9-C4	-17.40	99.44	106.40
85	5	798	G	C5-C6-N1	-17.38	102.81	111.50
36	1	942	U	C6-N1-C2	-17.38	110.57	121.00
36	1	2607	G	C8-N9-C4	17.38	113.35	106.40
85	5	2406	C	C6-N1-C2	-17.38	113.35	120.30
36	1	499	G	N1-C6-O6	17.38	130.32	119.90
80	6	678	A	C4-C5-C6	-17.37	108.31	117.00
36	1	33	G	O5'-P-OP2	-17.37	89.86	110.70
80	6	347	G	C4-C5-C6	17.37	129.22	118.80
85	5	1373	A	O5'-P-OP2	-17.36	89.87	110.70
85	5	96	G	N1-C6-O6	17.35	130.31	119.90
85	5	1872	C	N3-C2-O2	-17.35	109.75	121.90
36	1	1314	C	C6-N1-C2	-17.35	113.36	120.30
36	1	2121	G	C4-C5-N7	-17.34	103.86	110.80
36	1	2739	A	N1-C6-N6	17.34	129.00	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1308	A	C8-N9-C4	-17.34	98.87	105.80
85	5	2385	G	C5-C6-N1	-17.34	102.83	111.50
80	6	463	U	N3-C4-C5	-17.33	104.20	114.60
36	1	299	G	N1-C6-O6	17.33	130.30	119.90
85	5	3029	A	N1-C6-N6	-17.33	108.20	118.60
38	4	43	A	C5-C6-N1	17.32	126.36	117.70
85	5	2756	C	N1-C2-O2	-17.32	108.51	118.90
85	5	942	U	N1-C2-N3	17.31	125.29	114.90
85	5	2409	G	N1-C6-O6	-17.31	109.51	119.90
36	1	156	G	C5-C6-O6	-17.31	118.21	128.60
36	1	640	U	C4-C5-C6	17.31	130.09	119.70
36	1	3330	A	C2-N3-C4	17.30	119.25	110.60
38	8	3	A	OP1-P-OP2	-17.29	93.67	119.60
85	5	374	A	C8-N9-C4	-17.28	98.89	105.80
38	8	114	G	N1-C6-O6	17.28	130.27	119.90
85	5	2911	A	O5'-P-OP2	-17.28	89.97	110.70
85	5	345	G	N1-C6-O6	17.27	130.26	119.90
85	5	963	G	N3-C4-C5	-17.26	119.97	128.60
36	1	1175	C	N1-C2-O2	-17.25	108.55	118.90
36	1	49	A	C5-N7-C8	17.25	112.52	103.90
85	5	3136	G	OP1-P-OP2	-17.25	93.73	119.60
36	1	2138	A	C5-N7-C8	-17.24	95.28	103.90
85	5	2943	G	C5-N7-C8	-17.24	95.68	104.30
85	5	657	A	C4-C5-N7	17.22	119.31	110.70
85	5	3133	C	C6-N1-C2	-17.22	113.41	120.30
37	3	26	C	O5'-P-OP2	-17.22	90.04	110.70
36	1	1192	C	C4-C5-C6	17.21	126.01	117.40
36	1	2139	A	N1-C6-N6	-17.21	108.27	118.60
36	1	363	G	OP1-P-OP2	-17.20	93.80	119.60
36	1	2983	C	C5-C6-N1	-17.20	112.40	121.00
85	5	653	A	C4-C5-N7	17.20	119.30	110.70
85	5	1019	G	N1-C6-O6	-17.19	109.59	119.90
85	5	2215	A	C2-N3-C4	-17.18	102.01	110.60
85	5	2284	C	C6-N1-C2	17.17	127.17	120.30
36	1	1508	C	C6-N1-C2	-17.17	113.43	120.30
36	1	934	G	C8-N9-C4	-17.16	99.53	106.40
85	5	2278	C	C4-C5-C6	-17.16	108.82	117.40
36	1	984	G	C5-C6-O6	-17.15	118.31	128.60
85	5	518	G	C4-C5-N7	-17.15	103.94	110.80
85	5	3091	A	N1-C6-N6	-17.15	108.31	118.60
36	1	2824	G	C2-N3-C4	-17.15	103.33	111.90
85	5	2354	C	N1-C2-O2	-17.13	108.62	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	102	A	C2-N3-C4	-17.13	102.03	110.60
80	6	32	U	N3-C4-O4	17.12	131.39	119.40
85	5	1852	G	C8-N9-C4	-17.11	99.55	106.40
85	5	2395	G	C4-C5-N7	17.11	117.65	110.80
85	5	787	G	C5-C6-N1	-17.10	102.95	111.50
85	5	1006	A	O5'-P-OP2	-17.10	90.18	110.70
85	5	418	A	N1-C6-N6	17.10	128.86	118.60
85	5	2335	G	C6-N1-C2	-17.09	114.85	125.10
85	5	774	G	N1-C6-O6	17.09	130.15	119.90
36	1	2334	U	C5-C6-N1	-17.08	114.16	122.70
38	4	103	G	N3-C4-C5	-17.08	120.06	128.60
85	5	641	C	O5'-P-OP1	-17.08	90.21	110.70
85	5	2243	A	O5'-P-OP1	-17.08	90.21	110.70
36	1	1791	C	N3-C4-C5	-17.06	115.07	121.90
36	1	1383	G	N1-C6-O6	17.06	130.14	119.90
36	1	655	C	C6-N1-C2	-17.05	113.48	120.30
37	7	63	A	C4-C5-N7	-17.05	102.17	110.70
36	1	2375	G	C6-N1-C2	-17.05	114.87	125.10
85	5	652	G	OP1-P-OP2	-17.05	94.03	119.60
37	3	86	U	C6-N1-C2	17.05	131.23	121.00
36	1	2979	U	N3-C2-O2	-17.04	110.27	122.20
85	5	2278	C	N1-C2-O2	17.04	129.12	118.90
36	1	3330	A	C5-C6-N1	17.04	126.22	117.70
85	5	919	U	O5'-P-OP1	17.04	131.14	110.70
85	5	1934	G	N3-C2-N2	-17.03	107.98	119.90
85	5	2847	A	C8-N9-C4	17.03	112.61	105.80
36	1	2173	U	N1-C2-N3	17.02	125.11	114.90
36	1	350	C	N1-C2-O2	17.02	129.11	118.90
85	5	371	G	O5'-P-OP1	-17.02	90.28	110.70
85	5	2358	A	O5'-P-OP1	-17.02	90.28	110.70
36	1	1115	G	N1-C2-N3	17.01	134.11	123.90
36	1	120	G	N1-C6-O6	-17.01	109.69	119.90
85	5	2943	G	C6-C5-N7	-17.01	120.20	130.40
37	3	120	C	N3-C2-O2	-17.00	110.00	121.90
36	1	3103	A	O5'-P-OP2	-17.00	90.31	110.70
85	5	2156	C	C5-C6-N1	-17.00	112.50	121.00
85	5	3008	A	C2-N3-C4	-16.98	102.11	110.60
36	1	1589	A	N9-C4-C5	16.97	112.59	105.80
85	5	957	C	C6-N1-C2	-16.97	113.51	120.30
85	5	2267	C	N3-C4-C5	16.96	128.68	121.90
85	5	345	G	C4-C5-C6	16.95	128.97	118.80
85	5	2124	G	C2-N3-C4	-16.95	103.43	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3136	G	N1-C2-N3	16.94	134.06	123.90
36	1	1852	G	N1-C6-O6	16.94	130.06	119.90
85	5	2607	G	N3-C2-N2	-16.94	108.04	119.90
85	5	3036	G	N1-C6-O6	16.94	130.06	119.90
85	5	2661	G	C5-C6-N1	16.93	119.97	111.50
85	5	1897	G	N7-C8-N9	16.92	121.56	113.10
36	1	1389	G	C5-C6-N1	16.92	119.96	111.50
36	1	1683	A	N1-C6-N6	16.91	128.75	118.60
85	5	2208	A	C4-C5-C6	16.90	125.45	117.00
36	1	2617	U	N1-C2-N3	16.90	125.04	114.90
36	1	2866	U	O5'-P-OP2	-16.90	90.42	110.70
85	5	2928	C	N1-C2-O2	-16.90	108.76	118.90
85	5	3294	A	C6-N1-C2	-16.90	108.46	118.60
36	1	405	U	C5-C4-O4	-16.89	115.76	125.90
85	5	1897	G	C5-N7-C8	-16.89	95.85	104.30
80	6	987	G	N7-C8-N9	16.88	121.54	113.10
85	5	798	G	C2-N3-C4	-16.88	103.46	111.90
85	5	869	G	N1-C6-O6	-16.88	109.77	119.90
85	5	722	G	N1-C6-O6	16.88	130.03	119.90
85	5	2358	A	O5'-P-OP2	16.87	130.95	110.70
85	5	2724	U	N3-C4-O4	16.87	131.21	119.40
36	1	2991	A	C2-N3-C4	-16.87	102.17	110.60
85	5	2381	G	C6-C5-N7	-16.86	120.28	130.40
36	1	637	C	N3-C4-C5	16.86	128.65	121.90
85	5	638	C	N3-C4-C5	-16.86	115.16	121.90
80	6	1143	A	N1-C6-N6	-16.85	108.49	118.60
85	5	1492	G	C2-N3-C4	-16.84	103.48	111.90
85	5	928	C	O5'-P-OP2	-16.82	90.51	110.70
37	7	65	G	O5'-P-OP2	16.82	130.89	110.70
36	1	806	A	O5'-P-OP1	-16.82	90.52	110.70
85	5	645	A	N1-C6-N6	-16.81	108.51	118.60
85	5	2745	G	C5-C6-N1	-16.81	103.10	111.50
38	8	111	A	C8-N9-C4	-16.81	99.08	105.80
36	1	2617	U	N3-C4-C5	-16.80	104.52	114.60
36	1	96	G	C4-C5-N7	16.80	117.52	110.80
37	7	115	G	C5-C6-O6	-16.79	118.52	128.60
36	1	755	A	O5'-P-OP2	-16.79	90.55	110.70
36	1	2598	G	O5'-P-OP2	-16.79	90.56	110.70
85	5	2644	C	N3-C2-O2	-16.78	110.15	121.90
37	7	88	G	N1-C2-N3	16.78	133.97	123.90
85	5	2745	G	C5-C6-O6	16.78	138.66	128.60
36	1	2886	U	N3-C4-O4	16.77	131.14	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1308	A	O5'-P-OP1	-16.76	90.59	110.70
36	1	2983	C	C2-N3-C4	-16.76	111.52	119.90
36	1	1801	U	N1-C2-N3	16.76	124.95	114.90
80	6	1657	U	O5'-P-OP1	16.76	130.81	110.70
85	5	1296	C	C6-N1-C2	-16.75	113.60	120.30
36	1	2827	U	C5-C4-O4	-16.75	115.85	125.90
85	5	1064	A	O5'-P-OP2	-16.75	90.60	110.70
36	1	187	A	C8-N9-C4	-16.75	99.10	105.80
85	5	2415	C	N3-C2-O2	-16.75	110.18	121.90
80	6	1673	G	C4-C5-C6	16.74	128.85	118.80
85	5	890	C	C6-N1-C2	-16.74	113.60	120.30
85	5	776	U	C5-C6-N1	-16.74	114.33	122.70
85	5	826	G	C5-C6-O6	-16.74	118.56	128.60
80	6	264	G	C4-C5-N7	16.74	117.49	110.80
36	1	2942	C	C6-N1-C2	16.73	126.99	120.30
85	5	2223	A	C8-N9-C4	-16.73	99.11	105.80
85	5	748	U	C4-C5-C6	16.72	129.73	119.70
36	1	1380	G	C2-N3-C4	-16.72	103.54	111.90
36	1	1790	G	N1-C6-O6	16.70	129.92	119.90
80	6	103	A	C8-N9-C4	-16.70	99.12	105.80
36	1	665	A	O5'-P-OP1	-16.70	90.66	110.70
85	5	2966	G	N1-C6-O6	16.70	129.92	119.90
36	1	1003	A	C5-C6-N1	-16.68	109.36	117.70
36	1	2622	C	C6-N1-C2	-16.68	113.63	120.30
37	7	79	A	O5'-P-OP1	-16.68	90.68	110.70
36	1	363	G	O5'-P-OP2	16.67	130.71	110.70
85	5	820	A	C8-N9-C4	-16.67	99.13	105.80
37	3	74	C	C4-C5-C6	-16.66	109.07	117.40
36	1	693	A	O5'-P-OP1	-16.66	90.71	105.70
85	5	3225	C	N3-C4-N4	16.66	129.66	118.00
36	1	161	G	O5'-P-OP2	-16.65	90.72	105.70
36	1	808	A	C6-N1-C2	-16.65	108.61	118.60
36	1	3025	C	C6-N1-C2	16.65	126.96	120.30
85	5	2617	U	O5'-P-OP2	-16.64	90.72	105.70
85	5	2935	U	N3-C4-C5	-16.64	104.61	114.60
80	6	25	C	C2-N3-C4	16.64	128.22	119.90
85	5	2717	U	N1-C2-O2	-16.64	111.15	122.80
36	1	282	G	C8-N9-C4	-16.64	99.75	106.40
85	5	658	G	N7-C8-N9	16.63	121.41	113.10
36	1	928	C	C5-C6-N1	-16.62	112.69	121.00
85	5	647	A	C6-N1-C2	-16.62	108.63	118.60
36	1	1852	G	C4-C5-N7	16.61	117.44	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	641	C	N3-C2-O2	16.59	133.51	121.90
80	6	757	A	C5-C6-N1	-16.59	109.41	117.70
85	5	599	C	C2-N3-C4	-16.58	111.61	119.90
85	5	409	A	C2-N3-C4	16.58	118.89	110.60
38	4	92	A	C2-N3-C4	-16.58	102.31	110.60
85	5	2977	G	C6-N1-C2	-16.57	115.16	125.10
85	5	1865	A	C2-N3-C4	-16.57	102.32	110.60
36	1	711	A	C8-N9-C4	16.57	112.43	105.80
36	1	321	C	O5'-P-OP2	-16.56	90.79	105.70
85	5	2846	U	O4'-C1'-N1	-16.56	94.95	108.20
85	5	954	U	N3-C2-O2	-16.56	110.61	122.20
85	5	2199	G	C5-C6-O6	-16.55	118.67	128.60
36	1	660	A	O5'-P-OP2	-16.55	90.81	105.70
36	1	1156	C	C2-N3-C4	-16.54	111.63	119.90
36	1	957	C	N3-C4-C5	-16.52	115.29	121.90
36	1	2816	G	N1-C6-O6	16.52	129.81	119.90
36	1	85	A	C2-N3-C4	-16.51	102.34	110.60
36	1	1148	G	C5-C6-O6	-16.51	118.69	128.60
85	5	2707	C	N3-C2-O2	16.51	133.46	121.90
38	8	3	A	C5-C6-N6	-16.51	110.49	123.70
36	1	959	C	C6-N1-C2	16.50	126.90	120.30
36	1	683	U	N1-C2-O2	-16.50	111.25	122.80
36	1	907	G	C8-N9-C4	16.50	113.00	106.40
36	1	1148	G	N1-C6-O6	16.49	129.79	119.90
85	5	16	A	C8-N9-C4	16.49	112.40	105.80
85	5	1935	G	C4-C5-C6	-16.49	108.91	118.80
85	5	2283	G	C5-C6-O6	-16.49	118.71	128.60
85	5	2799	A	C6-N1-C2	-16.48	108.71	118.60
80	6	1070	C	C2-N3-C4	16.48	128.14	119.90
85	5	141	C	N3-C2-O2	16.48	133.44	121.90
80	6	1294	G	C8-N9-C4	-16.48	99.81	106.40
85	5	649	A	C5-N7-C8	-16.47	95.66	103.90
36	1	1111	U	N1-C2-O2	-16.47	111.27	122.80
85	5	391	A	O5'-P-OP2	-16.46	90.89	105.70
85	5	2233	A	N1-C6-N6	-16.45	108.73	118.60
85	5	1432	C	N3-C2-O2	-16.45	110.39	121.90
36	1	625	G	C5-C6-O6	16.43	138.46	128.60
85	5	2925	C	C6-N1-C2	16.43	126.87	120.30
36	1	2616	C	C6-N1-C2	-16.42	113.73	120.30
85	5	2417	U	C4-C5-C6	16.42	129.55	119.70
85	5	2653	C	N1-C2-O2	-16.41	109.05	118.90
36	1	1467	A	C5-C6-N1	16.41	125.91	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	948	C	C6-N1-C2	16.41	126.86	120.30
85	5	2376	G	O5'-P-OP2	-16.40	90.94	105.70
85	5	1944	U	N1-C2-N3	16.40	124.74	114.90
85	5	2283	G	C4-C5-N7	16.39	117.36	110.80
85	5	1343	A	C5-C6-N1	-16.38	109.51	117.70
36	1	640	U	N1-C2-O2	-16.38	111.33	122.80
85	5	1884	A	C2-N3-C4	-16.38	102.41	110.60
36	1	796	U	C2-N3-C4	-16.37	117.18	127.00
36	1	1467	A	N1-C6-N6	-16.37	108.78	118.60
80	6	420	A	C2-N3-C4	-16.37	102.42	110.60
80	6	270	C	C6-N1-C2	16.37	126.85	120.30
80	6	1649	G	N3-C4-C5	16.37	136.78	128.60
36	1	797	U	N1-C2-O2	-16.36	111.35	122.80
85	5	2296	A	C5-C6-N1	16.35	125.88	117.70
36	1	2777	G	C8-N9-C4	-16.34	99.86	106.40
36	1	676	G	N3-C4-C5	-16.33	120.44	128.60
85	5	2851	A	C8-N9-C4	-16.33	99.27	105.80
85	5	1292	C	N1-C2-O2	-16.32	109.11	118.90
36	1	1359	C	C6-N1-C2	16.32	126.83	120.30
36	1	1508	C	N3-C4-C5	-16.32	115.37	121.90
85	5	918	C	C2-N3-C4	16.32	128.06	119.90
36	1	1527	C	C6-N1-C2	16.32	126.83	120.30
36	1	283	G	C5-N7-C8	-16.31	96.14	104.30
85	5	2406	C	N1-C2-O2	-16.31	109.11	118.90
85	5	39	A	N1-C2-N3	16.31	137.46	129.30
85	5	2376	G	N1-C6-O6	16.30	129.68	119.90
85	5	1155	C	C6-N1-C2	-16.30	113.78	120.30
1	2	553	G	N1-C6-O6	16.30	129.68	119.90
36	1	684	G	C5-C6-O6	-16.29	118.83	128.60
36	1	690	A	N1-C6-N6	-16.29	108.83	118.60
36	1	1339	C	N3-C2-O2	-16.28	110.50	121.90
36	1	17	G	C4-C5-N7	16.28	117.31	110.80
38	4	41	A	N1-C6-N6	-16.28	108.83	118.60
36	1	2719	U	C5-C6-N1	-16.27	114.56	122.70
36	1	370	U	N3-C2-O2	-16.27	110.81	122.20
36	1	2811	A	N1-C2-N3	16.27	137.43	129.30
85	5	652	G	C4-C5-N7	-16.27	104.29	110.80
85	5	2966	G	C6-C5-N7	-16.27	120.64	130.40
36	1	942	U	N1-C2-N3	16.26	124.66	114.90
36	1	2381	G	C8-N9-C4	-16.26	99.90	106.40
85	5	1415	U	N3-C4-C5	-16.26	104.84	114.60
85	5	2906	C	O5'-P-OP2	-16.25	91.07	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	87	G	N1-C6-O6	16.25	129.65	119.90
36	1	2890	A	N9-C4-C5	16.25	112.30	105.80
85	5	3119	U	N1-C2-O2	-16.25	111.42	122.80
85	5	1662	G	N3-C2-N2	-16.24	108.53	119.90
36	1	1502	C	N1-C2-O2	-16.24	109.16	118.90
85	5	1772	U	C4-C5-C6	16.24	129.44	119.70
36	1	2174	G	N1-C2-N3	16.24	133.64	123.90
80	6	1659	A	C2-N3-C4	-16.24	102.48	110.60
36	1	2896	A	C2-N3-C4	-16.23	102.48	110.60
36	1	1307	G	O5'-P-OP2	-16.23	91.09	105.70
85	5	948	C	C6-N1-C2	16.23	126.79	120.30
85	5	1733	G	C5-N7-C8	-16.23	96.19	104.30
36	1	2169	G	N1-C6-O6	-16.22	110.17	119.90
85	5	2124	G	C4-C5-C6	16.22	128.53	118.80
36	1	2937	G	N1-C6-O6	-16.22	110.17	119.90
85	5	2663	G	C5-C6-O6	-16.22	118.87	128.60
85	5	1404	G	C5-C6-N1	-16.21	103.39	111.50
36	1	1312	C	N3-C4-C5	-16.21	115.42	121.90
85	5	600	G	C6-C5-N7	-16.20	120.68	130.40
36	1	2629	U	N1-C2-O2	-16.20	111.46	122.80
85	5	2964	G	C4-C5-N7	-16.20	104.32	110.80
85	5	1677	G	N1-C6-O6	-16.20	110.18	119.90
47	m0	90	ARG	NE-CZ-NH1	-16.20	112.20	120.30
85	5	644	G	C5-C6-N1	-16.19	103.41	111.50
85	5	653	A	C5-C6-N6	-16.19	110.75	123.70
85	5	748	U	C5-C6-N1	16.19	130.79	122.70
36	1	2121	G	C5-C6-O6	16.19	138.31	128.60
38	4	94	C	C5-C6-N1	-16.19	112.91	121.00
85	5	813	G	C5-N7-C8	-16.19	96.21	104.30
80	6	32	U	C6-N1-C2	-16.18	111.29	121.00
85	5	635	G	N1-C6-O6	16.18	129.61	119.90
36	1	2811	A	C6-N1-C2	-16.18	108.89	118.60
80	6	1673	G	N9-C4-C5	16.17	111.87	105.40
36	1	1585	C	N3-C4-N4	16.16	129.31	118.00
85	5	358	G	N1-C6-O6	16.16	129.59	119.90
36	1	857	G	C8-N9-C4	-16.16	99.94	106.40
80	6	1672	G	N3-C4-C5	16.15	136.67	128.60
85	5	1935	G	N3-C4-C5	16.15	136.68	128.60
36	1	645	A	C4-C5-N7	-16.14	102.63	110.70
85	5	332	C	O5'-P-OP2	-16.14	91.18	105.70
85	5	870	G	O5'-P-OP2	-16.13	91.18	105.70
85	5	1604	G	N1-C6-O6	-16.12	110.23	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	921	A	C6-N1-C2	-16.11	108.93	118.60
85	5	933	A	C6-N1-C2	-16.11	108.94	118.60
85	5	194	U	N1-C2-N3	16.09	124.55	114.90
85	5	1124	U	C4-C5-C6	16.09	129.35	119.70
36	1	217	U	N1-C2-N3	16.08	124.55	114.90
85	5	1124	U	C5-C4-O4	16.08	135.55	125.90
85	5	2754	G	N1-C2-N3	16.08	133.55	123.90
85	5	1476	G	C8-N9-C4	16.07	112.83	106.40
85	5	1349	G	C8-N9-C4	16.07	112.83	106.40
85	5	407	A	N1-C2-N3	16.07	137.33	129.30
85	5	1114	U	N3-C4-C5	-16.07	104.96	114.60
36	1	867	G	C5-C6-N1	-16.06	103.47	111.50
36	1	128	G	O5'-P-OP1	-16.05	91.25	105.70
85	5	1420	C	N3-C4-N4	-16.05	106.77	118.00
85	5	2412	G	O5'-P-OP2	-16.05	91.26	105.70
85	5	2559	U	C5-C6-N1	-16.04	114.68	122.70
85	5	345	G	C6-C5-N7	-16.03	120.78	130.40
85	5	2943	G	C8-N9-C4	-16.03	99.99	106.40
36	1	793	C	N3-C2-O2	16.03	133.12	121.90
85	5	1440	G	C5-N7-C8	-16.02	96.29	104.30
36	1	1949	G	O5'-P-OP1	-16.02	91.28	105.70
36	1	2873	U	N3-C2-O2	-16.02	110.99	122.20
85	5	2908	G	C5-N7-C8	-16.01	96.29	104.30
85	5	1889	G	N1-C6-O6	16.01	129.50	119.90
85	5	1897	G	C5-C6-O6	-16.01	119.00	128.60
85	5	1152	G	C8-N9-C4	-16.00	100.00	106.40
85	5	2615	G	N1-C6-O6	15.99	129.49	119.90
85	5	1895	A	N9-C4-C5	-15.98	99.41	105.80
85	5	3206	C	N3-C2-O2	-15.98	110.71	121.90
1	2	813	U	N3-C2-O2	-15.98	111.02	122.20
80	6	410	A	O5'-P-OP1	15.98	129.87	110.70
36	1	3025	C	C5-C6-N1	-15.97	113.02	121.00
85	5	743	C	N3-C4-C5	-15.95	115.52	121.90
36	1	921	A	C2-N3-C4	15.95	118.58	110.60
85	5	387	A	C8-N9-C4	-15.95	99.42	105.80
85	5	660	A	N1-C6-N6	-15.94	109.04	118.60
36	1	1634	G	C8-N9-C4	-15.94	100.03	106.40
36	1	2127	U	N1-C2-O2	-15.93	111.65	122.80
37	3	5	G	N1-C6-O6	-15.93	110.34	119.90
85	5	1901	A	N1-C6-N6	-15.92	109.05	118.60
36	1	923	C	N1-C2-O2	15.92	128.45	118.90
80	6	1634	C	N1-C2-O2	15.92	128.45	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2351	U	N3-C2-O2	-15.92	111.06	122.20
36	1	3361	G	N1-C6-O6	-15.91	110.35	119.90
36	1	867	G	N1-C2-N3	15.91	133.45	123.90
85	5	1173	U	O5'-P-OP1	15.90	129.78	110.70
85	5	1937	U	O5'-P-OP2	-15.90	91.39	105.70
36	1	901	G	C5-C6-O6	-15.89	119.06	128.60
85	5	2994	A	C6-N1-C2	-15.89	109.07	118.60
85	5	304	G	N3-C2-N2	-15.89	108.78	119.90
85	5	1307	G	O5'-P-OP2	-15.89	91.40	105.70
85	5	2775	U	C2-N3-C4	-15.88	117.47	127.00
36	1	2733	A	C4-C5-C6	15.88	124.94	117.00
85	5	3388	C	N3-C4-N4	-15.88	106.89	118.00
85	5	1661	G	C8-N9-C4	-15.87	100.05	106.40
36	1	2355	G	C5-C6-N1	-15.86	103.57	111.50
85	5	963	G	C5-C6-N1	15.86	119.43	111.50
85	5	2615	G	C4-C5-N7	15.85	117.14	110.80
85	5	1113	G	C2-N3-C4	-15.85	103.98	111.90
36	1	2886	U	N3-C4-C5	-15.84	105.09	114.60
85	5	813	G	C6-C5-N7	-15.84	120.90	130.40
36	1	80	G	N1-C6-O6	-15.84	110.40	119.90
85	5	326	U	C5-C6-N1	15.83	130.62	122.70
80	6	619	A	N1-C6-N6	-15.83	109.10	118.60
85	5	2095	G	C8-N9-C4	15.82	112.73	106.40
36	1	901	G	N1-C6-O6	15.82	129.39	119.90
36	1	2138	A	N7-C8-N9	15.81	121.70	113.80
80	6	1775	U	C5-C6-N1	-15.81	114.80	122.70
85	5	2610	G	C6-C5-N7	-15.80	120.92	130.40
36	1	1760	A	C2-N3-C4	15.80	118.50	110.60
36	1	1346	G	C2-N3-C4	-15.80	104.00	111.90
85	5	2428	U	N1-C2-O2	-15.79	111.75	122.80
85	5	1198	C	O5'-P-OP1	-15.79	91.49	105.70
36	1	2401	A	C5-N7-C8	-15.78	96.01	103.90
85	5	2278	C	N3-C4-C5	15.78	128.21	121.90
85	5	815	G	C8-N9-C4	15.78	112.71	106.40
36	1	992	A	N1-C2-N3	15.77	137.19	129.30
36	1	711	A	N7-C8-N9	-15.77	105.92	113.80
85	5	1424	C	N3-C4-C5	15.76	128.21	121.90
80	6	1109	G	C4-C5-N7	15.76	117.10	110.80
85	5	937	G	N1-C2-N3	15.75	133.35	123.90
85	5	2754	G	N1-C6-O6	-15.75	110.45	119.90
85	5	3098	G	C5-C6-O6	-15.75	119.15	128.60
36	1	609	G	C5-C6-N1	15.75	119.37	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2432	A	C8-N9-C4	-15.75	99.50	105.80
36	1	397	A	C5-C6-N1	15.74	125.57	117.70
85	5	922	U	N3-C2-O2	-15.74	111.18	122.20
85	5	2884	C	C5-C6-N1	15.74	128.87	121.00
85	5	582	G	N1-C6-O6	15.73	129.34	119.90
85	5	1012	G	C2-N3-C4	-15.73	104.04	111.90
36	1	3081	C	C6-N1-C2	15.72	126.59	120.30
85	5	2304	C	N1-C2-O2	-15.72	109.47	118.90
36	1	3340	G	C8-N9-C4	-15.71	100.11	106.40
85	5	1399	A	C2-N3-C4	-15.71	102.74	110.60
85	5	2312	A	C6-N1-C2	-15.71	109.17	118.60
85	5	2326	A	C8-N9-C4	15.70	112.08	105.80
85	5	83	U	O5'-P-OP2	-15.70	91.57	105.70
85	5	1185	C	N3-C2-O2	-15.70	110.91	121.90
85	5	499	G	C2-N3-C4	-15.69	104.06	111.90
85	5	2964	G	C6-C5-N7	15.69	139.81	130.40
85	5	2281	A	O5'-P-OP2	-15.67	91.59	105.70
85	5	327	A	C5-C6-N1	15.66	125.53	117.70
85	5	206	G	C8-N9-C4	-15.66	100.14	106.40
38	8	7	U	O5'-P-OP2	-15.66	91.61	105.70
85	5	2707	C	C4-C5-C6	15.66	125.23	117.40
80	6	565	C	C4-C5-C6	15.65	125.23	117.40
85	5	50	U	N3-C4-O4	15.65	130.35	119.40
85	5	1167	U	N1-C2-N3	15.64	124.29	114.90
36	1	2877	G	N1-C2-N3	15.64	133.28	123.90
85	5	2399	A	C2-N3-C4	-15.64	102.78	110.60
36	1	1522	U	N1-C2-N3	15.63	124.28	114.90
85	5	2403	G	N3-C2-N2	-15.62	108.96	119.90
36	1	1847	A	C5-C6-N6	15.61	136.19	123.70
85	5	653	A	C6-C5-N7	-15.61	121.37	132.30
36	1	690	A	C5-C6-N6	15.60	136.18	123.70
80	6	33	U	N3-C4-C5	-15.60	105.24	114.60
85	5	2283	G	C5-N7-C8	-15.60	96.50	104.30
36	1	2872	A	O5'-P-OP2	-15.60	91.66	105.70
85	5	1045	C	N3-C4-C5	-15.59	115.66	121.90
85	5	2754	G	C5-C6-O6	15.59	137.95	128.60
85	5	1934	G	C4-C5-C6	15.59	128.15	118.80
85	5	2943	G	C4-C5-N7	15.59	117.03	110.80
36	1	2972	G	N1-C6-O6	15.58	129.25	119.90
36	1	3085	G	C8-N9-C4	-15.58	100.17	106.40
1	2	87	C	C6-N1-C2	-15.57	114.07	120.30
85	5	1125	U	O5'-P-OP1	-15.57	91.69	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	604	G	O5'-P-OP1	-15.56	91.69	105.70
36	1	716	A	C8-N9-C4	15.56	112.03	105.80
80	6	565	C	N3-C4-C5	-15.56	115.67	121.90
80	6	1117	U	N3-C4-O4	15.56	130.29	119.40
36	1	610	G	C5-C6-N1	-15.55	103.72	111.50
85	5	1897	G	C4-C5-N7	15.54	117.02	110.80
38	8	92	A	C5-N7-C8	-15.54	96.13	103.90
36	1	2715	A	O5'-P-OP1	-15.54	91.71	105.70
85	5	1519	G	N1-C6-O6	15.53	129.22	119.90
38	4	114	G	N3-C4-C5	15.53	136.36	128.60
38	4	152	G	C5-C6-N1	-15.53	103.74	111.50
85	5	672	A	N1-C6-N6	-15.53	109.28	118.60
36	1	2607	G	N1-C6-O6	15.52	129.21	119.90
38	4	38	U	N3-C2-O2	-15.52	111.34	122.20
38	4	49	G	C8-N9-C4	15.50	112.60	106.40
85	5	1772	U	C2-N3-C4	15.50	136.30	127.00
85	5	2850	G	C5-C6-O6	-15.50	119.30	128.60
36	1	2180	G	N1-C6-O6	15.50	129.20	119.90
36	1	2811	A	N9-C4-C5	15.50	112.00	105.80
36	1	2816	G	C5-C6-N1	-15.50	103.75	111.50
36	1	1395	G	O5'-P-OP2	-15.49	91.76	105.70
80	6	757	A	C2-N3-C4	-15.49	102.86	110.60
36	1	2379	U	C5-C4-O4	-15.49	116.61	125.90
85	5	283	G	C5-C6-N1	15.49	119.24	111.50
85	5	870	G	N3-C4-N9	-15.49	116.71	126.00
36	1	2972	G	N1-C2-N3	-15.48	114.61	123.90
38	4	103	G	C5-C6-N1	15.47	119.24	111.50
85	5	649	A	C8-N9-C4	-15.47	99.61	105.80
36	1	802	C	N3-C4-C5	-15.47	115.71	121.90
36	1	3101	G	N1-C6-O6	-15.47	110.62	119.90
85	5	1412	G	O5'-P-OP1	15.46	129.26	110.70
85	5	1376	C	C6-N1-C2	-15.46	114.12	120.30
85	5	2416	U	C6-N1-C2	-15.46	111.72	121.00
36	1	1419	A	O5'-P-OP1	15.46	129.25	110.70
80	6	702	G	C5-C6-O6	-15.46	119.32	128.60
36	1	2373	A	O5'-P-OP1	-15.46	91.79	105.70
85	5	1128	U	O5'-P-OP2	-15.45	91.79	105.70
85	5	2891	U	N3-C2-O2	-15.45	111.38	122.20
85	5	2303	A	C8-N9-C4	15.45	111.98	105.80
36	1	1429	G	N1-C2-N3	15.45	133.17	123.90
36	1	867	G	C4-C5-N7	-15.44	104.62	110.80
36	1	632	G	C4-C5-N7	15.44	116.97	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2636	A	N9-C4-C5	15.43	111.97	105.80
85	5	656	A	N1-C6-N6	15.43	127.86	118.60
85	5	215	G	C8-N9-C4	-15.43	100.23	106.40
36	1	636	C	C2-N3-C4	-15.42	112.19	119.90
36	1	644	G	O5'-P-OP1	-15.42	91.82	105.70
38	4	56	G	C2-N3-C4	-15.42	104.19	111.90
85	5	3327	G	N3-C2-N2	-15.42	109.11	119.90
36	1	201	A	C5-C6-N1	-15.42	109.99	117.70
38	8	109	A	C8-N9-C4	-15.41	99.63	105.80
36	1	3134	A	O5'-P-OP2	-15.41	91.83	105.70
85	5	1488	G	C8-N9-C4	-15.41	100.24	106.40
36	1	1371	G	C8-N9-C4	15.40	112.56	106.40
85	5	2355	G	C2-N3-C4	-15.40	104.20	111.90
85	5	1310	G	C8-N9-C4	-15.40	100.24	106.40
36	1	3362	A	C5-N7-C8	-15.40	96.20	103.90
85	5	1361	U	N1-C2-O2	-15.40	112.02	122.80
37	7	31	U	C5-C6-N1	15.39	130.40	122.70
36	1	775	A	N1-C6-N6	15.39	127.83	118.60
38	4	142	C	C6-N1-C2	-15.39	114.14	120.30
80	6	1143	A	C5-C6-N1	15.39	125.39	117.70
36	1	578	A	C5-C6-N1	15.38	125.39	117.70
85	5	873	C	N3-C2-O2	-15.38	111.14	121.90
85	5	622	A	C8-N9-C4	15.37	111.95	105.80
85	5	2379	U	O5'-P-OP2	-15.37	91.86	105.70
37	7	60	G	O5'-P-OP2	-15.37	91.87	105.70
36	1	2121	G	N1-C6-O6	-15.37	110.68	119.90
80	6	295	A	C8-N9-C4	15.36	111.94	105.80
37	7	84	A	C8-N9-C4	-15.36	99.66	105.80
36	1	2635	A	O5'-P-OP2	-15.36	91.88	105.70
85	5	2724	U	N1-C2-N3	15.36	124.12	114.90
36	1	648	C	C6-N1-C2	-15.35	114.16	120.30
85	5	2888	U	N3-C4-O4	15.35	130.14	119.40
85	5	2117	A	C6-N1-C2	-15.35	109.39	118.60
36	1	579	G	O5'-P-OP2	-15.34	91.89	105.70
38	4	137	C	N3-C4-C5	-15.34	115.76	121.90
85	5	950	G	C8-N9-C4	15.34	112.54	106.40
85	5	2943	G	N7-C8-N9	15.34	120.77	113.10
80	6	58	U	C6-N1-C2	-15.34	111.80	121.00
85	5	2977	G	C5-C6-N1	15.34	119.17	111.50
36	1	957	C	C4-C5-C6	15.34	125.07	117.40
80	6	95	G	N1-C6-O6	-15.34	110.70	119.90
85	5	640	U	N1-C2-O2	-15.33	112.07	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3060	C	N1-C2-O2	-15.32	109.71	118.90
36	1	3022	G	C5-C6-O6	-15.32	119.41	128.60
36	1	600	G	C5-C6-O6	-15.31	119.41	128.60
36	1	2619	G	C5-C6-N1	15.31	119.16	111.50
80	6	1143	A	C8-N9-C4	-15.31	99.67	105.80
37	7	116	C	N3-C2-O2	15.31	132.62	121.90
36	1	1392	G	C6-N1-C2	-15.31	115.91	125.10
80	6	358	U	C6-N1-C2	-15.31	111.82	121.00
85	5	2617	U	N3-C4-C5	-15.30	105.42	114.60
85	5	101	G	O5'-P-OP1	15.30	129.06	110.70
85	5	407	A	N9-C4-C5	15.30	111.92	105.80
36	1	187	A	N7-C8-N9	15.30	121.45	113.80
85	5	1897	G	C8-N9-C4	-15.30	100.28	106.40
85	5	3245	A	N1-C6-N6	15.30	127.78	118.60
1	2	1640	U	N1-C2-O2	15.29	133.51	122.80
36	1	1426	C	C2-N3-C4	-15.30	112.25	119.90
36	1	510	G	C6-C5-N7	-15.29	121.23	130.40
85	5	1011	A	N1-C2-N3	15.28	136.94	129.30
85	5	2702	A	C2-N3-C4	-15.29	102.96	110.60
36	1	98	G	C2-N3-C4	-15.27	104.26	111.90
36	1	1919	G	C8-N9-C4	-15.27	100.29	106.40
85	5	506	U	C5-C6-N1	-15.27	115.06	122.70
85	5	2376	G	C4-C5-N7	15.27	116.91	110.80
85	5	2375	G	C6-N1-C2	-15.27	115.94	125.10
36	1	915	A	O5'-P-OP1	-15.27	91.96	105.70
36	1	2366	C	O5'-P-OP2	-15.26	91.96	105.70
85	5	2429	G	C2-N3-C4	-15.26	104.27	111.90
85	5	197	G	O5'-P-OP2	-15.26	91.97	105.70
85	5	2273	G	C4-C5-N7	-15.26	104.70	110.80
85	5	1301	A	N1-C2-N3	15.25	136.93	129.30
85	5	213	A	C8-N9-C4	-15.25	99.70	105.80
85	5	408	A	O5'-P-OP2	-15.24	91.98	105.70
85	5	2900	A	N1-C6-N6	-15.23	109.46	118.60
85	5	2953	U	N3-C2-O2	-15.23	111.54	122.20
85	5	1374	G	C4-C5-N7	15.23	116.89	110.80
38	4	47	C	N1-C2-O2	15.22	128.03	118.90
85	5	2800	G	N1-C6-O6	-15.21	110.77	119.90
36	1	328	U	N1-C2-N3	15.21	124.03	114.90
36	1	1505	C	N3-C4-C5	15.21	127.98	121.90
85	5	1848	G	C4-C5-N7	15.20	116.88	110.80
85	5	1852	G	N7-C8-N9	15.20	120.70	113.10
36	1	3298	C	C6-N1-C2	15.19	126.38	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	652	G	N7-C8-N9	-15.19	105.50	113.10
85	5	2863	G	N1-C6-O6	-15.20	110.78	119.90
36	1	400	G	C4-C5-N7	15.19	116.88	110.80
85	5	658	G	C5-N7-C8	-15.19	96.70	104.30
85	5	2846	U	C5-C6-N1	15.19	130.30	122.70
85	5	2877	G	C4-C5-N7	15.19	116.88	110.80
36	1	1495	U	N1-C2-O2	-15.19	112.17	122.80
36	1	5	G	N1-C6-O6	15.18	129.01	119.90
85	5	1909	A	C5-N7-C8	-15.18	96.31	103.90
85	5	2628	A	C5-C6-N6	15.18	135.84	123.70
85	5	2610	G	C5-C6-O6	-15.18	119.49	128.60
80	6	960	U	O5'-P-OP1	-15.18	92.04	105.70
36	1	578	A	C6-N1-C2	-15.17	109.50	118.60
36	1	928	C	N1-C2-O2	-15.17	109.80	118.90
36	1	1429	G	N1-C2-N2	-15.17	102.55	116.20
85	5	119	U	N3-C2-O2	-15.16	111.58	122.20
36	1	1139	G	C5-C6-N1	-15.16	103.92	111.50
38	8	11	C	O5'-P-OP1	-15.16	92.06	105.70
85	5	644	G	C5-C6-O6	15.16	137.69	128.60
85	5	748	U	N1-C2-N3	15.16	124.00	114.90
85	5	3127	A	O5'-P-OP1	-15.15	92.07	105.70
37	7	17	A	C8-N9-C4	15.15	111.86	105.80
36	1	1822	C	C6-N1-C2	-15.14	114.24	120.30
36	1	412	G	N1-C6-O6	-15.14	110.81	119.90
85	5	1149	G	N1-C6-O6	15.14	128.99	119.90
85	5	2403	G	OP1-P-OP2	-15.14	96.89	119.60
38	4	151	C	N3-C4-C5	-15.14	115.84	121.90
85	5	2861	U	O5'-P-OP2	-15.13	92.08	105.70
36	1	96	G	C5-N7-C8	-15.12	96.74	104.30
36	1	651	G	N1-C6-O6	-15.12	110.83	119.90
1	2	67	A	C8-N9-C4	15.12	111.85	105.80
36	1	665	A	C5-C6-N1	15.12	125.26	117.70
85	5	138	U	O5'-P-OP2	-15.11	92.10	105.70
36	1	785	G	C5-C6-N1	15.11	119.06	111.50
36	1	522	A	N1-C6-N6	15.11	127.67	118.60
38	4	41	A	O5'-P-OP1	-15.11	92.10	105.70
85	5	1389	G	C8-N9-C4	15.11	112.44	106.40
85	5	2389	C	C2-N3-C4	-15.11	112.34	119.90
36	1	328	U	C6-N1-C2	-15.10	111.94	121.00
36	1	1157	G	C8-N9-C4	-15.10	100.36	106.40
36	1	3258	U	O5'-P-OP1	-15.10	92.11	105.70
85	5	2981	U	N1-C2-N3	15.09	123.96	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	583	G	C5-C6-N1	-15.09	103.96	111.50
85	5	2369	G	C5-C6-N1	15.09	119.04	111.50
85	5	3181	C	N3-C4-C5	-15.09	115.86	121.90
85	5	647	A	N1-C2-N3	15.08	136.84	129.30
80	6	1673	G	C5-C6-O6	15.08	137.65	128.60
85	5	37	U	C4-C5-C6	15.08	128.75	119.70
36	1	2280	A	N1-C6-N6	-15.07	109.56	118.60
85	5	1440	G	N1-C6-O6	15.07	128.94	119.90
85	5	2958	A	C8-N9-C4	-15.07	99.77	105.80
36	1	3057	U	C5-C4-O4	15.07	134.94	125.90
36	1	3135	U	C4-C5-C6	15.07	128.74	119.70
85	5	1069	C	N3-C4-C5	15.07	127.93	121.90
85	5	1129	A	O5'-P-OP2	-15.07	92.14	105.70
85	5	879	U	O5'-P-OP1	-15.06	92.14	105.70
80	6	879	G	N1-C6-O6	-15.06	110.86	119.90
85	5	425	G	N1-C2-N3	15.06	132.94	123.90
36	1	1921	A	C8-N9-C4	-15.05	99.78	105.80
80	6	32	U	C4-C5-C6	15.05	128.73	119.70
85	5	3178	A	C5-C6-N1	-15.04	110.18	117.70
85	5	111	C	C6-N1-C2	15.04	126.32	120.30
80	6	872	G	C5-C6-N1	-15.03	103.98	111.50
85	5	2644	C	C2-N3-C4	-15.03	112.38	119.90
85	5	410	U	N1-C2-N3	15.03	123.92	114.90
85	5	2974	U	N1-C2-O2	-15.03	112.28	122.80
36	1	1426	C	N3-C2-O2	-15.02	111.38	121.90
36	1	387	A	C8-N9-C4	-15.02	99.79	105.80
36	1	2350	C	C5-C6-N1	-15.02	113.49	121.00
85	5	2416	U	N3-C4-O4	15.01	129.91	119.40
38	8	15	G	N1-C6-O6	-15.01	110.90	119.90
36	1	3031	G	O5'-P-OP2	-15.00	92.20	105.70
80	6	1200	G	N1-C6-O6	15.00	128.90	119.90
85	5	2381	G	C8-N9-C4	-15.00	100.40	106.40
80	6	335	U	N3-C2-O2	-15.00	111.70	122.20
36	1	957	C	N1-C2-N3	14.99	129.70	119.20
85	5	2621	G	N3-C2-N2	-14.99	109.41	119.90
85	5	213	A	C6-N1-C2	-14.99	109.61	118.60
85	5	1895	A	C8-N9-C4	14.98	111.79	105.80
36	1	1599	G	O5'-P-OP2	-14.98	92.22	105.70
85	5	2429	G	C5-C6-N1	-14.98	104.01	111.50
85	5	795	G	N1-C6-O6	14.98	128.89	119.90
80	6	1115	U	C5-C6-N1	-14.97	115.21	122.70
36	1	320	G	O5'-P-OP2	-14.97	92.23	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	787	G	C4-C5-N7	-14.97	104.81	110.80
80	6	1673	G	C5-N7-C8	14.97	111.78	104.30
85	5	2663	G	C6-C5-N7	-14.96	121.42	130.40
37	7	45	A	O5'-P-OP2	-14.97	92.23	105.70
85	5	1190	A	N1-C6-N6	-14.96	109.62	118.60
36	1	914	A	N1-C6-N6	-14.95	109.63	118.60
85	5	57	A	C8-N9-C4	14.96	111.78	105.80
36	1	2216	G	C8-N9-C4	-14.95	100.42	106.40
36	1	324	A	N1-C2-N3	14.95	136.78	129.30
36	1	1289	G	C2-N3-C4	-14.95	104.43	111.90
85	5	3177	G	C2-N3-C4	-14.95	104.43	111.90
85	5	715	A	C6-N1-C2	-14.94	109.64	118.60
36	1	2376	G	O5'-P-OP2	-14.94	92.25	105.70
85	5	1310	G	N7-C8-N9	14.94	120.57	113.10
36	1	1166	G	N1-C6-O6	14.94	128.86	119.90
85	5	2297	U	N1-C2-O2	-14.93	112.35	122.80
38	4	99	C	C6-N1-C2	14.93	126.27	120.30
85	5	1156	C	C6-N1-C2	-14.93	114.33	120.30
85	5	2623	G	C8-N9-C4	14.93	112.37	106.40
80	6	1599	C	N1-C2-O2	14.93	127.86	118.90
85	5	902	G	C5-C6-O6	-14.93	119.64	128.60
85	5	2767	U	N3-C4-O4	14.93	129.85	119.40
36	1	267	G	C6-C5-N7	-14.92	121.44	130.40
85	5	1047	A	C5-N7-C8	-14.92	96.44	103.90
85	5	947	G	C2-N3-C4	-14.92	104.44	111.90
36	1	921	A	N9-C4-C5	14.92	111.77	105.80
85	5	1295	G	C2-N3-C4	-14.92	104.44	111.90
80	6	1779	U	O5'-P-OP1	-14.92	92.27	105.70
85	5	3330	A	C5-C6-N1	14.92	125.16	117.70
36	1	933	A	C8-N9-C4	-14.91	99.83	105.80
85	5	810	A	C5-N7-C8	-14.91	96.44	103.90
38	4	31	G	C4-C5-N7	14.90	116.76	110.80
36	1	1062	A	C8-N9-C4	-14.90	99.84	105.80
36	1	1759	C	C6-N1-C2	14.90	126.26	120.30
80	6	1643	U	N3-C2-O2	-14.90	111.77	122.20
1	2	1637	G	C5-C6-N1	14.89	118.95	111.50
36	1	2670	G	N1-C6-O6	14.89	128.84	119.90
85	5	1361	U	O5'-P-OP2	14.89	128.57	110.70
85	5	920	A	C8-N9-C4	-14.89	99.84	105.80
85	5	1367	G	C5-C6-N1	-14.89	104.05	111.50
85	5	2199	G	C6-C5-N7	-14.89	121.47	130.40
85	5	638	C	N3-C2-O2	-14.88	111.48	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	703	G	C5-C6-O6	14.88	137.53	128.60
36	1	1132	C	N1-C2-N3	14.88	129.61	119.20
36	1	2609	A	O5'-P-OP1	14.87	128.55	110.70
85	5	2728	G	O5'-P-OP2	-14.88	92.31	105.70
85	5	2318	U	C4-C5-C6	14.87	128.62	119.70
85	5	2656	A	C5-C6-N1	-14.87	110.27	117.70
85	5	3325	G	C2-N3-C4	-14.87	104.47	111.90
85	5	773	G	N1-C6-O6	14.85	128.81	119.90
37	7	63	A	C6-N1-C2	14.85	127.51	118.60
36	1	1196	C	C6-N1-C2	14.85	126.24	120.30
36	1	1678	G	C8-N9-C4	-14.85	100.46	106.40
37	7	88	G	C6-N1-C2	-14.85	116.19	125.10
36	1	515	C	O5'-P-OP2	-14.85	92.34	105.70
85	5	410	U	N3-C4-C5	-14.85	105.69	114.60
85	5	701	G	N7-C8-N9	-14.84	105.68	113.10
85	5	607	A	C5-C6-N6	14.84	135.57	123.70
85	5	963	G	C6-N1-C2	-14.84	116.20	125.10
80	6	469	C	N1-C2-O2	14.84	127.80	118.90
85	5	1424	C	O5'-P-OP1	-14.84	92.35	105.70
85	5	1599	G	C8-N9-C4	14.84	112.33	106.40
85	5	358	G	C5-C6-N1	-14.83	104.08	111.50
80	6	1119	G	C8-N9-C4	-14.83	100.47	106.40
85	5	1292	C	N3-C2-O2	14.83	132.28	121.90
36	1	2831	G	O5'-P-OP1	-14.83	92.36	105.70
85	5	306	A	C8-N9-C4	14.83	111.73	105.80
36	1	798	G	OP1-P-OP2	-14.82	97.37	119.60
36	1	870	G	N1-C6-O6	14.82	128.79	119.90
36	1	1459	C	N1-C2-N3	14.82	129.57	119.20
36	1	1847	A	N1-C6-N6	-14.82	109.71	118.60
85	5	1113	G	C5-C6-N1	-14.82	104.09	111.50
36	1	2645	G	C4-C5-N7	-14.81	104.87	110.80
85	5	1155	C	C5-C4-N4	-14.81	109.83	120.20
85	5	2726	C	C5-C4-N4	14.81	130.57	120.20
85	5	922	U	N1-C2-O2	14.81	133.16	122.80
85	5	1879	A	C5-N7-C8	-14.81	96.50	103.90
36	1	338	A	N1-C2-N3	14.81	136.70	129.30
85	5	3120	C	C2-N3-C4	14.80	127.30	119.90
36	1	3109	G	N1-C6-O6	-14.80	111.02	119.90
85	5	2762	A	C8-N9-C4	-14.80	99.88	105.80
85	5	3240	C	N3-C4-C5	14.80	127.82	121.90
36	1	110	G	C2-N3-C4	-14.79	104.50	111.90
36	1	2715	A	C5-C6-N1	14.79	125.10	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2915	U	N1-C2-O2	-14.79	112.45	122.80
85	5	2830	G	C5-C6-N1	-14.79	104.11	111.50
85	5	1428	A	N1-C6-N6	-14.79	109.73	118.60
85	5	1919	G	C8-N9-C4	-14.78	100.49	106.40
36	1	761	A	C2-N3-C4	-14.78	103.21	110.60
85	5	407	A	C4-C5-C6	14.78	124.39	117.00
85	5	244	G	C8-N9-C4	14.77	112.31	106.40
85	5	826	G	C6-C5-N7	-14.77	121.54	130.40
85	5	110	G	OP1-P-OP2	-14.77	97.44	119.60
85	5	1656	A	O5'-P-OP2	-14.77	92.41	105.70
36	1	1110	U	O5'-P-OP2	-14.77	92.41	105.70
85	5	2920	U	N1-C2-O2	-14.77	112.46	122.80
85	5	1124	U	N3-C2-O2	-14.76	111.87	122.20
85	5	812	G	C5-C6-N1	-14.76	104.12	111.50
1	2	1283	A	N1-C6-N6	-14.75	109.75	118.60
85	5	1862	U	N3-C4-O4	14.75	129.73	119.40
85	5	878	G	C8-N9-C4	-14.75	100.50	106.40
1	2	1315	C	C6-N1-C2	-14.74	114.40	120.30
80	6	1498	G	C8-N9-C1'	14.74	146.16	127.00
36	1	1397	C	N1-C2-O2	-14.73	110.06	118.90
36	1	25	U	N1-C2-O2	-14.73	112.49	122.80
85	5	383	G	C5-C6-O6	14.73	137.44	128.60
36	1	39	A	N1-C6-N6	-14.73	109.76	118.60
85	5	345	G	C2-N3-C4	-14.72	104.54	111.90
36	1	2868	U	N3-C2-O2	-14.72	111.90	122.20
85	5	2380	U	N1-C2-O2	-14.72	112.50	122.80
85	5	1393	A	C8-N9-C4	-14.72	99.91	105.80
36	1	363	G	N1-C6-O6	-14.71	111.07	119.90
36	1	267	G	C4-C5-N7	14.71	116.68	110.80
36	1	1154	A	C5-C6-N1	14.71	125.06	117.70
85	5	518	G	C5-C6-O6	14.71	137.43	128.60
85	5	1753	G	C5-C6-O6	-14.71	119.78	128.60
85	5	1413	G	C8-N9-C4	-14.70	100.52	106.40
85	5	774	G	C4-C5-C6	14.69	127.61	118.80
36	1	909	G	C8-N9-C4	14.69	112.28	106.40
85	5	2421	U	N1-C2-N3	14.69	123.71	114.90
36	1	3373	U	C5-C6-N1	-14.68	115.36	122.70
85	5	98	G	C5-C6-N1	14.68	118.84	111.50
85	5	756	U	N1-C2-O2	-14.68	112.53	122.80
85	5	2400	G	C4-C5-N7	14.68	116.67	110.80
85	5	2737	C	N3-C4-C5	-14.68	116.03	121.90
36	1	168	U	N1-C2-N3	14.67	123.70	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	871	U	N3-C2-O2	14.67	132.47	122.20
85	5	1375	G	C2-N3-C4	-14.67	104.56	111.90
85	5	2208	A	C6-N1-C2	14.67	127.40	118.60
85	5	2943	G	C5-C6-O6	-14.67	119.80	128.60
36	1	2388	U	O5'-P-OP1	14.67	128.30	110.70
36	1	88	A	N1-C2-N3	14.67	136.63	129.30
38	4	110	C	N1-C2-O2	-14.67	110.10	118.90
38	4	67	U	C5-C6-N1	-14.66	115.37	122.70
85	5	3225	C	C5-C4-N4	-14.66	109.94	120.20
36	1	2800	G	C6-N1-C2	-14.66	116.31	125.10
80	6	576	G	N1-C6-O6	14.66	128.69	119.90
85	5	2824	G	N3-C2-N2	-14.66	109.64	119.90
36	1	2374	C	N1-C2-O2	14.66	127.69	118.90
85	5	513	G	C4-C5-N7	-14.66	104.94	110.80
1	2	312	A	C8-N9-C4	-14.65	99.94	105.80
37	3	88	G	O5'-P-OP2	-14.65	92.51	105.70
36	1	1408	G	C5-C6-O6	-14.65	119.81	128.60
36	1	2617	U	C4-C5-C6	14.65	128.49	119.70
85	5	1399	A	C6-N1-C2	14.65	127.39	118.60
85	5	3172	A	C6-N1-C2	-14.65	109.81	118.60
85	5	358	G	N3-C4-C5	14.64	135.92	128.60
85	5	1879	A	O5'-P-OP1	14.64	128.27	110.70
85	5	509	U	C5-C4-O4	14.64	134.68	125.90
85	5	1855	U	N3-C2-O2	-14.64	111.95	122.20
36	1	1426	C	C5-C6-N1	-14.64	113.68	121.00
37	7	84	A	C6-N1-C2	-14.64	109.82	118.60
85	5	801	A	N1-C2-N3	14.63	136.62	129.30
85	5	921	A	C5-C6-N1	14.62	125.01	117.70
85	5	89	A	C2-N3-C4	-14.62	103.29	110.60
85	5	1889	G	C4-C5-N7	14.62	116.65	110.80
85	5	2761	G	C5-C6-O6	-14.62	119.83	128.60
85	5	1661	G	C4-C5-N7	14.62	116.65	110.80
85	5	3348	G	C8-N9-C4	14.61	112.25	106.40
80	6	1750	A	C8-N9-C4	14.61	111.64	105.80
85	5	3000	A	N1-C6-N6	14.61	127.37	118.60
85	5	686	G	C2-N3-C4	-14.61	104.60	111.90
36	1	2417	U	N3-C4-C5	14.61	123.36	114.60
36	1	651	G	C5-N7-C8	14.60	111.60	104.30
36	1	2682	C	C5-C6-N1	-14.60	113.70	121.00
36	1	2401	A	C4-C5-N7	14.59	118.00	110.70
36	1	3311	C	N3-C4-C5	14.59	127.74	121.90
80	6	475	A	C5-C6-N1	14.59	125.00	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	408	A	N1-C6-N6	-14.59	109.84	118.60
85	5	2188	A	C2-N3-C4	-14.59	103.30	110.60
1	2	1640	U	N1-C2-N3	-14.58	106.15	114.90
36	1	806	A	C2-N3-C4	-14.58	103.31	110.60
85	5	1849	C	C4-C5-C6	14.58	124.69	117.40
36	1	583	G	N1-C2-N3	14.57	132.64	123.90
36	1	1825	G	N3-C4-C5	14.57	135.89	128.60
36	1	2816	G	C2-N3-C4	-14.57	104.61	111.90
38	4	152	G	C2-N3-C4	-14.57	104.62	111.90
37	7	63	A	C5-N7-C8	14.57	111.18	103.90
85	5	1152	G	C6-C5-N7	-14.56	121.66	130.40
85	5	2628	A	N1-C6-N6	-14.56	109.86	118.60
80	6	1672	G	N1-C6-O6	-14.56	111.16	119.90
36	1	653	A	C4-C5-N7	14.56	117.98	110.70
36	1	3143	C	N1-C2-O2	-14.56	110.16	118.90
85	5	1281	G	C4-C5-N7	14.56	116.62	110.80
1	2	1716	C	N1-C2-O2	-14.56	110.17	118.90
36	1	2401	A	N1-C6-N6	14.56	127.33	118.60
85	5	942	U	N3-C4-C5	-14.56	105.86	114.60
85	5	2863	G	OP1-P-O3'	14.55	137.21	105.20
36	1	346	C	C5-C6-N1	-14.54	113.73	121.00
36	1	641	C	N3-C4-C5	-14.54	116.08	121.90
80	6	463	U	N1-C2-O2	-14.54	112.62	122.80
85	5	779	G	O5'-P-OP1	-14.54	92.61	105.70
37	7	94	C	N3-C4-C5	14.54	127.72	121.90
85	5	225	C	C6-N1-C2	-14.54	114.48	120.30
85	5	994	G	N1-C6-O6	-14.54	111.18	119.90
38	8	92	A	C4-C5-N7	14.54	117.97	110.70
36	1	932	U	C2-N3-C4	-14.53	118.28	127.00
38	4	80	A	C8-N9-C4	14.53	111.61	105.80
36	1	154	U	O5'-P-OP1	-14.53	92.62	105.70
36	1	267	G	C5-C6-N1	-14.53	104.24	111.50
80	6	358	U	N3-C4-C5	-14.53	105.88	114.60
85	5	2907	G	C2-N3-C4	-14.53	104.64	111.90
36	1	400	G	C5-C6-O6	-14.52	119.89	128.60
36	1	640	U	C2-N3-C4	-14.52	118.29	127.00
36	1	2937	G	C8-N9-C4	14.52	112.21	106.40
85	5	208	C	O5'-P-OP2	14.52	128.13	110.70
85	5	2284	C	N1-C2-N3	-14.52	109.04	119.20
36	1	857	G	N7-C8-N9	14.52	120.36	113.10
36	1	2379	U	N1-C2-N3	14.52	123.61	114.90
85	5	1542	G	C5-C6-O6	-14.51	119.89	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	224	C	C5-C6-N1	14.51	128.25	121.00
36	1	353	G	N1-C6-O6	-14.51	111.19	119.90
36	1	378	A	C8-N9-C4	14.51	111.60	105.80
85	5	219	A	O5'-P-OP1	-14.51	92.64	105.70
36	1	1375	G	C4-C5-C6	14.51	127.50	118.80
85	5	886	C	C6-N1-C2	-14.51	114.50	120.30
85	5	2656	A	N1-C2-N3	14.51	136.55	129.30
37	7	39	C	O5'-P-OP2	-14.51	92.64	105.70
85	5	941	G	N1-C6-O6	-14.50	111.20	119.90
38	8	110	C	N3-C4-C5	-14.50	116.10	121.90
36	1	2410	U	C5-C4-O4	-14.50	117.20	125.90
36	1	2618	G	N1-C6-O6	-14.50	111.20	119.90
80	6	1643	U	C5-C6-N1	-14.49	115.45	122.70
36	1	233	C	C5-C6-N1	-14.49	113.75	121.00
36	1	2758	A	C5-N7-C8	14.49	111.14	103.90
80	6	1449	U	N3-C4-C5	-14.49	105.91	114.60
85	5	409	A	C5-C6-N1	14.48	124.94	117.70
85	5	3052	G	C4-C5-N7	-14.48	105.01	110.80
85	5	645	A	C2-N3-C4	14.48	117.84	110.60
85	5	3190	C	C6-N1-C2	-14.48	114.51	120.30
85	5	1370	G	O5'-P-OP1	-14.48	92.67	105.70
85	5	2644	C	O5'-P-OP1	-14.48	92.67	105.70
36	1	2610	G	C8-N9-C4	-14.47	100.61	106.40
85	5	788	C	N3-C4-C5	-14.47	116.11	121.90
85	5	1480	G	N1-C6-O6	14.47	128.58	119.90
85	5	2994	A	C8-N9-C4	-14.47	100.01	105.80
85	5	1140	G	C8-N9-C4	14.47	112.19	106.40
85	5	3086	A	C2-N3-C4	-14.47	103.37	110.60
36	1	936	A	C2-N3-C4	-14.46	103.37	110.60
85	5	2420	C	N3-C4-N4	14.46	128.12	118.00
85	5	2798	C	N3-C4-N4	-14.46	107.88	118.00
85	5	652	G	C8-N9-C4	14.46	112.18	106.40
85	5	1321	G	C2-N3-C4	-14.46	104.67	111.90
80	6	1673	G	N1-C2-N3	14.45	132.57	123.90
85	5	1006	A	C8-N9-C4	14.46	111.58	105.80
36	1	1308	A	N7-C8-N9	14.45	121.03	113.80
85	5	3216	G	O5'-P-OP2	-14.45	92.69	105.70
85	5	2944	U	C6-N1-C2	-14.45	112.33	121.00
85	5	2863	G	C8-N9-C4	-14.44	100.62	106.40
36	1	678	G	N1-C6-O6	14.44	128.56	119.90
36	1	388	G	C8-N9-C4	-14.44	100.62	106.40
36	1	2824	G	N3-C4-C5	14.44	135.82	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2732	G	C2-N3-C4	-14.43	104.68	111.90
36	1	427	C	N3-C4-C5	-14.43	116.13	121.90
36	1	1339	C	C6-N1-C2	-14.43	114.53	120.30
37	3	86	U	N1-C2-N3	-14.43	106.24	114.90
85	5	2995	A	N1-C2-N3	14.43	136.51	129.30
80	6	1673	G	N3-C2-N2	-14.43	109.80	119.90
80	6	48	G	O5'-P-OP2	-14.42	92.72	105.70
37	7	4	U	N3-C2-O2	-14.42	112.11	122.20
85	5	2775	U	N1-C2-N3	14.41	123.55	114.90
80	6	1641	C	N3-C4-C5	-14.41	116.14	121.90
36	1	2771	U	C5-C4-O4	-14.41	117.25	125.90
36	1	949	C	N1-C2-O2	-14.40	110.26	118.90
85	5	2155	G	C8-N9-C4	14.40	112.16	106.40
85	5	2843	U	N3-C2-O2	-14.40	112.12	122.20
85	5	3102	G	C2-N3-C4	-14.40	104.70	111.90
80	6	1678	A	C2-N3-C4	-14.40	103.40	110.60
85	5	96	G	C5-C6-N1	-14.39	104.30	111.50
1	2	1396	U	N3-C2-O2	-14.39	112.12	122.20
36	1	578	A	O5'-P-OP1	-14.39	92.75	105.70
85	5	2290	C	O5'-P-OP2	-14.39	92.75	105.70
36	1	609	G	C4-C5-N7	14.39	116.56	110.80
36	1	1165	A	C5-C6-N1	-14.39	110.50	117.70
85	5	2352	A	C8-N9-C4	14.39	111.56	105.80
85	5	2683	U	O5'-P-OP1	-14.39	92.75	105.70
36	1	927	C	C5-C6-N1	14.39	128.19	121.00
80	6	1264	G	C6-C5-N7	14.39	139.03	130.40
37	7	80	G	C6-N1-C2	-14.39	116.47	125.10
36	1	1151	U	N3-C4-C5	-14.38	105.97	114.60
37	3	34	C	N1-C2-O2	-14.38	110.27	118.90
85	5	141	C	N1-C2-O2	-14.38	110.27	118.90
36	1	932	U	C5-C6-N1	-14.38	115.51	122.70
36	1	2896	A	C5-C6-N1	-14.38	110.51	117.70
36	1	511	G	N3-C2-N2	-14.38	109.83	119.90
36	1	2711	C	O5'-P-OP1	-14.37	92.77	105.70
36	1	2954	U	N3-C4-O4	14.37	129.46	119.40
85	5	1718	G	N1-C6-O6	14.37	128.52	119.90
80	6	591	A	C8-N9-C4	14.37	111.55	105.80
85	5	607	A	N1-C6-N6	-14.37	109.98	118.60
85	5	3377	G	C2-N3-C4	14.37	119.08	111.90
36	1	63	A	N1-C6-N6	14.36	127.22	118.60
36	1	59	G	C5-C6-O6	-14.36	119.98	128.60
85	5	600	G	C5-C6-O6	-14.36	119.98	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	25	U	N3-C4-C5	-14.36	105.99	114.60
80	6	1663	G	OP1-P-OP2	-14.36	98.07	119.60
85	5	1221	A	O5'-P-OP1	-14.36	92.78	105.70
85	5	649	A	N7-C8-N9	14.36	120.98	113.80
1	2	1575	A	C8-N9-C4	-14.35	100.06	105.80
36	1	992	A	C2-N3-C4	-14.34	103.43	110.60
36	1	2719	U	C2-N3-C4	-14.34	118.39	127.00
36	1	2927	C	O5'-P-OP2	-14.34	92.79	105.70
38	8	3	A	C2-N3-C4	14.34	117.77	110.60
80	6	1109	G	C4-C5-C6	-14.34	110.20	118.80
36	1	899	U	N1-C2-N3	14.34	123.50	114.90
36	1	1136	A	N1-C2-N3	14.34	136.47	129.30
36	1	1703	U	C5-C6-N1	14.34	129.87	122.70
36	1	2201	G	N1-C6-O6	14.34	128.50	119.90
85	5	499	G	C5-C6-N1	-14.34	104.33	111.50
36	1	2908	G	C5-C6-N1	14.33	118.67	111.50
37	7	80	G	N1-C6-O6	-14.33	111.30	119.90
85	5	421	G	O5'-P-OP2	-14.33	92.80	105.70
85	5	1200	A	N1-C6-N6	14.33	127.20	118.60
36	1	1375	G	C2-N3-C4	-14.33	104.74	111.90
38	4	27	U	N3-C2-O2	-14.32	112.18	122.20
85	5	2607	G	N1-C6-O6	14.32	128.49	119.90
36	1	793	C	N1-C2-O2	-14.31	110.31	118.90
36	1	3367	C	C5-C6-N1	-14.31	113.84	121.00
85	5	1935	G	C8-N9-C4	-14.31	100.67	106.40
85	5	2862	U	C5-C6-N1	-14.31	115.55	122.70
85	5	3104	U	N3-C2-O2	14.31	132.22	122.20
85	5	1306	G	N7-C8-N9	14.31	120.25	113.10
36	1	1173	U	N1-C2-N3	14.31	123.48	114.90
36	1	1522	U	C2-N3-C4	-14.30	118.42	127.00
85	5	238	A	O5'-P-OP1	-14.30	92.83	105.70
85	5	3054	U	C6-N1-C2	-14.30	112.42	121.00
80	6	1115	U	C6-N1-C2	14.30	129.58	121.00
1	2	92	A	C8-N9-C4	14.30	111.52	105.80
36	1	1140	G	C5-C6-O6	14.30	137.18	128.60
36	1	3082	C	O5'-P-OP1	-14.30	92.83	105.70
36	1	1893	A	C2-N3-C4	-14.29	103.45	110.60
85	5	1430	U	O5'-P-OP2	-14.29	92.83	105.70
85	5	1131	G	N1-C6-O6	14.29	128.48	119.90
36	1	1207	G	N1-C6-O6	14.29	128.47	119.90
85	5	2927	C	C5-C6-N1	14.29	128.15	121.00
85	5	31	C	C2-N3-C4	-14.29	112.76	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2368	A	N7-C8-N9	14.29	120.94	113.80
36	1	151	A	N1-C6-N6	14.28	127.17	118.60
85	5	274	G	C5-C6-N1	-14.28	104.36	111.50
85	5	2698	G	N1-C6-O6	-14.28	111.33	119.90
36	1	3264	G	C8-N9-C4	14.27	112.11	106.40
85	5	2282	U	C5-C6-N1	-14.27	115.56	122.70
36	1	636	C	C5-C4-N4	-14.27	110.21	120.20
36	1	2956	A	C6-N1-C2	-14.27	110.04	118.60
85	5	2335	G	N3-C4-C5	-14.26	121.47	128.60
85	5	3085	G	O5'-P-OP2	-14.26	92.86	105.70
80	6	570	A	O5'-P-OP2	-14.26	92.87	105.70
85	5	1330	A	C6-N1-C2	-14.26	110.05	118.60
85	5	672	A	C5-C6-N1	14.26	124.83	117.70
85	5	2871	G	C8-N9-C4	-14.25	100.70	106.40
36	1	2619	G	O5'-P-OP1	-14.25	92.88	105.70
36	1	400	G	C8-N9-C4	-14.24	100.70	106.40
85	5	2830	G	C4-C5-N7	-14.24	105.11	110.80
85	5	2721	A	C8-N9-C4	-14.24	100.11	105.80
85	5	1297	C	C6-N1-C2	-14.23	114.61	120.30
85	5	2132	C	C2-N3-C4	-14.23	112.78	119.90
85	5	227	G	O5'-P-OP1	-14.23	92.89	105.70
85	5	37	U	N3-C4-C5	-14.23	106.06	114.60
36	1	54	C	C2-N3-C4	-14.23	112.78	119.90
80	6	1418	G	N1-C6-O6	14.23	128.44	119.90
36	1	2811	A	N7-C8-N9	14.22	120.91	113.80
85	5	2417	U	C6-N1-C2	-14.22	112.47	121.00
80	6	446	A	C8-N9-C4	-14.21	100.12	105.80
80	6	1649	G	N3-C4-N9	-14.21	117.47	126.00
80	6	459	G	N1-C6-O6	14.21	128.42	119.90
36	1	2355	G	N1-C6-O6	14.20	128.42	119.90
38	4	115	C	C2-N3-C4	-14.20	112.80	119.90
36	1	751	A	N7-C8-N9	14.20	120.90	113.80
36	1	823	C	N1-C2-O2	-14.20	110.38	118.90
85	5	1838	G	C5-C6-O6	-14.20	120.08	128.60
85	5	1895	A	C5-C6-N6	-14.20	112.34	123.70
36	1	2401	A	C5-C6-N1	-14.20	110.60	117.70
36	1	2105	G	C8-N9-C4	-14.19	100.72	106.40
85	5	2715	A	N9-C4-C5	14.19	111.47	105.80
36	1	80	G	N1-C2-N3	14.19	132.41	123.90
36	1	2736	A	C2-N3-C4	-14.19	103.51	110.60
85	5	1432	C	C2-N3-C4	-14.19	112.81	119.90
36	1	2306	C	N1-C2-O2	14.18	127.41	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2954	U	C5-C4-O4	14.18	134.41	125.90
85	5	3178	A	C4-C5-C6	14.18	124.09	117.00
36	1	425	G	N1-C2-N2	-14.18	103.44	116.20
36	1	2777	G	N9-C4-C5	14.17	111.07	105.40
80	6	1023	A	O5'-P-OP1	-14.17	92.95	105.70
36	1	2179	C	C6-N1-C2	-14.17	114.63	120.30
85	5	1429	G	N1-C2-N2	-14.17	103.45	116.20
36	1	651	G	C4-C5-N7	-14.16	105.13	110.80
85	5	3107	U	C5-C4-O4	-14.16	117.40	125.90
85	5	1543	G	C8-N9-C4	-14.16	100.74	106.40
80	6	871	G	C2-N3-C4	-14.15	104.82	111.90
85	5	3309	G	C8-N9-C4	-14.15	100.74	106.40
36	1	3000	A	C2-N3-C4	-14.15	103.52	110.60
85	5	974	G	N3-C2-N2	-14.15	109.99	119.90
85	5	2312	A	C5-C6-N1	14.15	124.78	117.70
36	1	286	U	C6-N1-C2	-14.14	112.51	121.00
36	1	2752	U	N1-C2-N3	14.14	123.38	114.90
38	8	18	U	O5'-P-OP2	-14.14	92.97	105.70
85	5	518	G	N3-C2-N2	-14.14	110.00	119.90
85	5	2930	A	C8-N9-C4	14.14	111.46	105.80
85	5	1432	C	N3-C4-C5	14.14	127.56	121.90
80	6	842	C	C6-N1-C2	-14.13	114.65	120.30
85	5	1221	A	O5'-P-OP2	14.13	127.66	110.70
80	6	1090	C	P-O3'-C3'	-14.13	102.75	119.70
36	1	2637	A	N1-C2-N3	14.12	136.36	129.30
36	1	2873	U	C4-C5-C6	14.12	128.17	119.70
80	6	1145	U	N3-C4-O4	14.12	129.28	119.40
85	5	391	A	O5'-P-OP1	14.12	127.64	110.70
85	5	2760	C	N1-C2-O2	-14.12	110.43	118.90
85	5	689	U	C5-C6-N1	-14.12	115.64	122.70
36	1	2621	G	N1-C6-O6	14.11	128.37	119.90
38	8	96	A	C5-C6-N1	14.11	124.76	117.70
36	1	3103	A	C5-C6-N1	-14.11	110.65	117.70
85	5	2187	G	O5'-P-OP2	14.11	127.63	110.70
36	1	2733	A	N1-C2-N3	14.10	136.35	129.30
36	1	363	G	N1-C2-N2	-14.10	103.51	116.20
36	1	942	U	N3-C4-O4	14.10	129.27	119.40
80	6	987	G	C8-N9-C4	-14.10	100.76	106.40
85	5	61	A	C2-N3-C4	-14.10	103.55	110.60
85	5	1868	G	C6-C5-N7	-14.10	121.94	130.40
36	1	25	U	O5'-P-OP2	14.09	127.61	110.70
36	1	727	G	N1-C2-N2	-14.09	103.52	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2173	U	C6-N1-C2	-14.09	112.55	121.00
85	5	1903	U	C6-N1-C2	-14.09	112.54	121.00
36	1	1183	C	N3-C4-C5	14.09	127.54	121.90
80	6	1751	C	C6-N1-C2	14.09	125.94	120.30
85	5	2768	U	O5'-P-OP1	-14.09	93.02	105.70
80	6	825	U	N3-C2-O2	14.09	132.06	122.20
36	1	883	A	N1-C2-N3	14.09	136.34	129.30
85	5	3036	G	C5-C6-N1	-14.09	104.46	111.50
85	5	753	C	C4-C5-C6	-14.08	110.36	117.40
36	1	1184	A	O5'-P-OP2	-14.08	93.03	105.70
38	4	131	A	C5-C6-N1	14.08	124.74	117.70
80	6	1017	U	C6-N1-C2	-14.08	112.55	121.00
36	1	1760	A	C5-C6-N1	14.07	124.74	117.70
36	1	2895	G	C8-N9-C4	14.07	112.03	106.40
36	1	796	U	C6-N1-C2	-14.07	112.56	121.00
36	1	2871	G	C5-N7-C8	-14.07	97.27	104.30
85	5	61	A	N1-C2-N3	14.07	136.34	129.30
80	6	1672	G	C5-C6-N1	14.07	118.53	111.50
85	5	755	A	O5'-P-OP2	-14.07	93.04	105.70
80	6	941	A	N1-C6-N6	-14.06	110.16	118.60
85	5	3215	A	C5-N7-C8	-14.06	96.87	103.90
36	1	2618	G	C6-N1-C2	-14.06	116.66	125.10
80	6	340	U	N1-C2-O2	-14.06	112.96	122.80
85	5	216	G	C2-N3-C4	-14.06	104.87	111.90
85	5	3008	A	N1-C2-N3	14.06	136.33	129.30
85	5	880	G	C4-C5-N7	-14.06	105.18	110.80
38	4	13	A	C8-N9-C4	-14.06	100.18	105.80
85	5	3335	A	N1-C6-N6	14.06	127.03	118.60
36	1	3000	A	N7-C8-N9	-14.06	106.77	113.80
37	3	41	G	N1-C6-O6	14.06	128.33	119.90
80	6	555	A	C8-N9-C4	-14.05	100.18	105.80
80	6	1017	U	O5'-P-OP1	-14.05	93.05	105.70
85	5	1406	A	C5-C6-N1	14.05	124.73	117.70
85	5	1742	U	C5-C6-N1	14.05	129.73	122.70
85	5	587	U	N1-C2-N3	-14.05	106.47	114.90
36	1	913	A	O5'-P-OP1	-14.04	93.06	105.70
85	5	2416	U	N3-C4-C5	-14.04	106.17	114.60
38	4	138	A	N1-C6-N6	14.04	127.02	118.60
36	1	1666	G	N1-C6-O6	14.03	128.32	119.90
85	5	960	U	C5-C4-O4	-14.03	117.48	125.90
38	8	15	G	C6-N1-C2	-14.03	116.68	125.10
85	5	582	G	N1-C2-N3	14.03	132.32	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1094	G	C8-N9-C4	14.03	112.01	106.40
36	1	2201	G	C6-C5-N7	-14.03	121.98	130.40
36	1	3362	A	C6-C5-N7	-14.02	122.48	132.30
36	1	2752	U	C5-C6-N1	-14.02	115.69	122.70
36	1	2601	A	N7-C8-N9	-14.02	106.79	113.80
36	1	2636	A	N7-C8-N9	14.02	120.81	113.80
85	5	330	G	C5-C6-O6	-14.02	120.19	128.60
37	7	74	C	O5'-P-OP1	-14.02	93.08	105.70
85	5	413	U	N1-C2-O2	-14.01	112.99	122.80
85	5	2414	G	C8-N9-C4	14.01	112.00	106.40
36	1	168	U	C5-C6-N1	-14.01	115.70	122.70
85	5	2319	U	C2-N3-C4	14.01	135.41	127.00
80	6	122	U	C2-N3-C4	14.01	135.40	127.00
80	6	1000	C	C2-N3-C4	-14.01	112.90	119.90
37	7	63	A	C5-C6-N6	14.01	134.90	123.70
36	1	3274	A	C8-N9-C4	-14.00	100.20	105.80
85	5	2820	A	C5-N7-C8	-14.00	96.90	103.90
36	1	2810	C	OP1-P-OP2	-14.00	98.60	119.60
36	1	337	G	C2-N3-C4	-14.00	104.90	111.90
80	6	947	U	C5-C6-N1	14.00	129.70	122.70
85	5	295	A	N9-C4-C5	-14.00	100.20	105.80
85	5	816	A	N1-C6-N6	-13.99	110.20	118.60
36	1	646	A	N9-C4-C5	13.99	111.40	105.80
85	5	1000	C	C6-N1-C2	13.99	125.90	120.30
85	5	870	G	C8-N9-C4	-13.99	100.81	106.40
36	1	1760	A	N1-C6-N6	-13.98	110.21	118.60
85	5	1903	U	N3-C4-O4	13.98	129.19	119.40
36	1	522	A	C2-N3-C4	-13.98	103.61	110.60
85	5	2316	G	O5'-P-OP2	-13.97	93.12	105.70
37	7	46	A	C8-N9-C4	-13.97	100.21	105.80
85	5	2369	G	C6-N1-C2	-13.97	116.72	125.10
85	5	358	G	N3-C2-N2	-13.97	110.12	119.90
37	7	49	G	N1-C6-O6	13.97	128.28	119.90
36	1	2719	U	N1-C2-N3	13.97	123.28	114.90
85	5	1448	U	C5-C6-N1	-13.97	115.72	122.70
85	5	2300	G	C6-N1-C2	-13.97	116.72	125.10
1	2	1024	G	O5'-P-OP1	-13.97	93.13	105.70
36	1	1897	G	C5-C6-N1	13.96	118.48	111.50
36	1	1461	A	N1-C6-N6	13.96	126.98	118.60
1	2	1107	A	C2-N3-C4	-13.96	103.62	110.60
36	1	1433	A	N9-C4-C5	13.96	111.38	105.80
36	1	1192	C	C5-C6-N1	-13.95	114.02	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	206	A	C8-N9-C4	-13.95	100.22	105.80
85	5	723	U	C5-C6-N1	-13.95	115.72	122.70
36	1	497	C	C5-C6-N1	-13.95	114.03	121.00
85	5	1536	G	O5'-P-OP1	-13.95	93.15	105.70
85	5	3136	G	O5'-P-OP1	13.95	127.44	110.70
85	5	2351	U	N1-C2-O2	13.94	132.56	122.80
85	5	908	G	C5-C6-O6	-13.94	120.23	128.60
36	1	180	C	N3-C4-C5	13.94	127.47	121.90
85	5	1841	A	N1-C6-N6	13.94	126.96	118.60
85	5	1300	G	O5'-P-OP2	-13.93	93.16	105.70
36	1	999	G	C5-C6-N1	13.93	118.47	111.50
36	1	2427	U	N3-C4-C5	13.93	122.96	114.60
36	1	3030	G	C8-N9-C4	-13.93	100.83	106.40
38	4	108	C	N3-C4-C5	-13.93	116.33	121.90
85	5	1293	U	N1-C2-N3	13.93	123.26	114.90
1	2	1257	C	C6-N1-C2	-13.92	114.73	120.30
1	2	1010	A	C5-N7-C8	-13.92	96.94	103.90
36	1	2186	U	C5-C4-O4	13.92	134.25	125.90
85	5	96	G	N3-C4-C5	13.92	135.56	128.60
85	5	229	G	N3-C2-N2	-13.92	110.16	119.90
85	5	1944	U	C6-N1-C2	-13.92	112.65	121.00
36	1	499	G	C4-C5-N7	13.92	116.37	110.80
37	7	91	G	N3-C4-C5	-13.92	121.64	128.60
36	1	1371	G	N1-C2-N3	13.92	132.25	123.90
85	5	2863	G	C5-C6-O6	13.91	136.95	128.60
36	1	3080	G	C5-C6-N1	13.91	118.46	111.50
80	6	1138	A	N1-C6-N6	-13.91	110.25	118.60
85	5	1403	C	C2-N3-C4	-13.91	112.94	119.90
36	1	672	A	N3-C4-C5	13.91	136.53	126.80
85	5	587	U	C6-N1-C2	13.91	129.34	121.00
36	1	56	G	C4-C5-N7	13.90	116.36	110.80
38	8	3	A	O5'-P-OP1	-13.90	93.19	105.70
80	6	1041	G	C8-N9-C4	-13.90	100.84	106.40
36	1	780	A	N1-C2-N3	13.90	136.25	129.30
36	1	1433	A	C6-N1-C2	-13.90	110.26	118.60
36	1	2099	A	C5-C6-N1	-13.90	110.75	117.70
85	5	3026	G	C5-C6-O6	-13.89	120.26	128.60
85	5	2400	G	C5-N7-C8	-13.89	97.35	104.30
36	1	512	U	N3-C4-C5	-13.89	106.27	114.60
85	5	2375	G	C8-N9-C4	-13.89	100.84	106.40
38	4	123	G	C5-C6-O6	-13.89	120.27	128.60
85	5	2960	C	C4-C5-C6	13.88	124.34	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3135	U	N1-C2-N3	13.88	123.23	114.90
36	1	3187	A	C5-C6-N1	13.88	124.64	117.70
85	5	965	A	C5-N7-C8	-13.88	96.96	103.90
80	6	1418	G	C5-C6-N1	-13.88	104.56	111.50
85	5	777	U	C6-N1-C1'	13.88	140.63	121.20
36	1	846	A	C2-N3-C4	-13.88	103.66	110.60
85	5	2966	G	C4-C5-N7	13.87	116.35	110.80
36	1	924	G	C8-N9-C4	-13.87	100.85	106.40
85	5	2767	U	N3-C4-C5	-13.87	106.28	114.60
85	5	2888	U	C2-N3-C4	-13.87	118.68	127.00
85	5	1131	G	N3-C2-N2	-13.87	110.19	119.90
85	5	2607	G	C2-N3-C4	-13.87	104.97	111.90
36	1	363	G	C5-C6-N1	13.86	118.43	111.50
36	1	653	A	C5-N7-C8	-13.86	96.97	103.90
36	1	758	C	N1-C2-O2	-13.86	110.58	118.90
85	5	658	G	O5'-P-OP2	-13.86	93.22	105.70
85	5	3149	G	O5'-P-OP1	13.86	127.33	110.70
36	1	3382	U	O5'-P-OP2	-13.86	93.23	105.70
80	6	368	U	N3-C2-O2	-13.86	112.50	122.20
85	5	394	G	C5-C6-N1	-13.86	104.57	111.50
85	5	508	U	C5-C6-N1	13.86	129.63	122.70
36	1	2355	G	C2-N3-C4	-13.86	104.97	111.90
36	1	2917	G	C2-N3-C4	13.86	118.83	111.90
36	1	846	A	C5-C6-N1	-13.85	110.77	117.70
36	1	928	C	N1-C2-N3	13.85	128.89	119.20
85	5	3052	G	N1-C6-O6	-13.85	111.59	119.90
80	6	403	G	C2-N3-C4	-13.84	104.98	111.90
80	6	609	U	C5-C6-N1	-13.84	115.78	122.70
36	1	789	A	C8-N9-C4	-13.84	100.26	105.80
85	5	1668	G	O5'-P-OP2	-13.84	93.25	105.70
80	6	324	U	C5-C6-N1	13.83	129.62	122.70
85	5	3036	G	C6-C5-N7	-13.83	122.10	130.40
85	5	3178	A	N1-C2-N3	13.83	136.22	129.30
85	5	2880	U	C6-N1-C2	-13.83	112.70	121.00
80	6	1136	U	N3-C2-O2	-13.83	112.52	122.20
38	8	92	A	N1-C6-N6	13.82	126.89	118.60
36	1	956	U	N1-C2-O2	-13.82	113.12	122.80
85	5	3010	U	N3-C2-O2	-13.82	112.52	122.20
36	1	1196	C	N1-C2-O2	13.82	127.19	118.90
38	4	128	U	C5-C6-N1	-13.82	115.79	122.70
80	6	1027	A	C2-N3-C4	-13.82	103.69	110.60
80	6	1649	G	C8-N9-C4	-13.82	100.87	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	499	G	C6-C5-N7	-13.81	122.11	130.40
36	1	2427	U	N1-C2-O2	13.81	132.47	122.80
37	3	29	C	C6-N1-C2	-13.81	114.77	120.30
80	6	1498	G	C5-C6-N1	13.81	118.41	111.50
85	5	776	U	N3-C4-O4	-13.81	109.73	119.40
36	1	2379	U	C2-N3-C4	-13.81	118.72	127.00
1	2	530	C	C6-N1-C2	13.80	125.82	120.30
36	1	2697	A	C8-N9-C4	-13.80	100.28	105.80
85	5	308	A	C2-N3-C4	-13.80	103.70	110.60
36	1	1346	G	N1-C2-N3	13.80	132.18	123.90
36	1	1408	G	N1-C6-O6	13.80	128.18	119.90
85	5	1295	G	N1-C2-N3	13.80	132.18	123.90
85	5	2761	G	C5-C6-N1	13.80	118.40	111.50
36	1	267	G	C5-N7-C8	-13.80	97.40	104.30
85	5	2616	C	N1-C2-O2	-13.80	110.62	118.90
36	1	499	G	C8-N9-C4	-13.80	100.88	106.40
85	5	633	C	N3-C4-C5	-13.79	116.38	121.90
36	1	3022	G	C4-C5-N7	13.79	116.32	110.80
85	5	3247	G	C8-N9-C4	13.79	111.92	106.40
85	5	1113	G	N1-C2-N3	13.79	132.17	123.90
85	5	2986	U	O5'-P-OP1	13.79	127.25	110.70
36	1	102	C	N1-C2-O2	-13.78	110.63	118.90
36	1	341	G	C8-N9-C4	-13.78	100.89	106.40
85	5	226	C	O5'-P-OP1	-13.78	93.30	105.70
85	5	3194	C	N3-C2-O2	-13.78	112.25	121.90
36	1	3362	A	C4-C5-N7	13.78	117.59	110.70
36	1	1445	U	N1-C2-O2	-13.78	113.16	122.80
38	4	146	U	N1-C2-O2	-13.78	113.16	122.80
85	5	3271	G	N3-C4-C5	-13.78	121.71	128.60
85	5	3304	U	N3-C2-O2	-13.78	112.56	122.20
36	1	1801	U	C4-C5-C6	13.77	127.96	119.70
38	8	14	C	C2-N3-C4	-13.77	113.01	119.90
36	1	2699	G	N1-C6-O6	13.77	128.16	119.90
85	5	1589	A	C8-N9-C4	-13.77	100.29	105.80
80	6	1535	U	C5-C6-N1	-13.77	115.82	122.70
85	5	352	A	O5'-P-OP1	-13.77	93.31	105.70
85	5	2283	G	C6-C5-N7	-13.77	122.14	130.40
36	1	1307	G	N1-C2-N3	13.76	132.16	123.90
36	1	2606	G	O5'-P-OP2	-13.76	93.32	105.70
36	1	2607	G	C2-N3-C4	-13.76	105.02	111.90
85	5	793	C	C6-N1-C2	-13.76	114.80	120.30
36	1	85	A	C5-C6-N1	-13.75	110.82	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1196	C	N1-C2-N3	-13.75	109.57	119.20
37	3	79	A	C2-N3-C4	-13.75	103.72	110.60
85	5	942	U	N1-C2-O2	-13.75	113.17	122.80
85	5	2890	A	N9-C4-C5	13.75	111.30	105.80
36	1	1592	G	C5-C6-N1	-13.75	104.62	111.50
36	1	2175	U	C5-C4-O4	13.75	134.15	125.90
80	6	1294	G	C6-C5-N7	-13.75	122.15	130.40
1	2	1195	G	C5-C6-O6	-13.75	120.35	128.60
85	5	1851	G	N1-C6-O6	13.74	128.15	119.90
36	1	499	G	C5-N7-C8	-13.74	97.43	104.30
36	1	2137	U	N3-C2-O2	-13.74	112.58	122.20
85	5	67	A	C8-N9-C4	13.74	111.30	105.80
85	5	1868	G	C5-C6-O6	-13.74	120.35	128.60
85	5	2976	A	N9-C4-C5	13.74	111.30	105.80
85	5	39	A	C2-N3-C4	-13.74	103.73	110.60
85	5	208	C	C5-C6-N1	13.74	127.87	121.00
36	1	1644	C	N3-C4-C5	-13.74	116.41	121.90
36	1	2701	U	N3-C2-O2	-13.74	112.58	122.20
80	6	360	A	N1-C6-N6	-13.74	110.36	118.60
85	5	1408	G	N3-C2-N2	-13.74	110.28	119.90
85	5	2410	U	N1-C2-O2	-13.74	113.18	122.80
36	1	64	G	N9-C4-C5	13.73	110.89	105.40
80	6	628	G	N1-C2-N3	13.73	132.14	123.90
85	5	1609	C	C6-N1-C2	13.73	125.79	120.30
36	1	3270	U	N3-C4-O4	-13.73	109.79	119.40
36	1	2293	C	C5-C4-N4	-13.73	110.59	120.20
85	5	1301	A	C2-N3-C4	-13.73	103.74	110.60
85	5	657	A	N1-C6-N6	13.72	126.83	118.60
36	1	2370	G	C5-C6-N1	13.72	118.36	111.50
85	5	397	A	C4-C5-N7	-13.72	103.84	110.70
36	1	3275	U	N1-C2-N3	-13.72	106.67	114.90
85	5	2615	G	C5-N7-C8	-13.72	97.44	104.30
36	1	917	A	C5-C6-N1	13.72	124.56	117.70
36	1	1853	U	N3-C2-O2	-13.72	112.60	122.20
36	1	2237	C	C6-N1-C2	13.72	125.79	120.30
85	5	356	C	C2-N3-C4	-13.72	113.04	119.90
36	1	1199	C	N1-C2-O2	-13.72	110.67	118.90
36	1	2317	A	O5'-P-OP2	-13.72	93.36	105.70
85	5	410	U	N3-C2-O2	-13.72	112.60	122.20
85	5	650	C	N3-C4-C5	13.71	127.39	121.90
36	1	789	A	N1-C6-N6	-13.71	110.37	118.60
36	1	706	A	C2-N3-C4	-13.71	103.75	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3175	U	N1-C2-O2	-13.70	113.21	122.80
36	1	515	C	N3-C4-C5	-13.70	116.42	121.90
80	6	423	G	N3-C4-N9	-13.70	117.78	126.00
85	5	2637	A	N1-C2-N3	13.70	136.15	129.30
85	5	2649	A	N7-C8-N9	13.70	120.65	113.80
85	5	2620	G	C5-N7-C8	-13.69	97.46	104.30
36	1	645	A	OP1-P-OP2	-13.69	99.07	119.60
36	1	2758	A	N1-C6-N6	-13.69	110.39	118.60
36	1	2138	A	C4-C5-N7	13.68	117.54	110.70
85	5	649	A	C4-C5-N7	13.68	117.54	110.70
36	1	331	G	C5-C6-O6	-13.68	120.39	128.60
80	6	1751	C	O5'-P-OP2	-13.68	93.39	105.70
85	5	1868	G	N1-C6-O6	13.68	128.11	119.90
85	5	2652	U	N3-C2-O2	13.68	131.78	122.20
38	4	43	A	C5-C6-N6	-13.68	112.76	123.70
85	5	2644	C	N3-C4-N4	-13.68	108.42	118.00
85	5	974	G	O5'-P-OP1	13.68	127.11	110.70
85	5	1407	A	OP1-P-OP2	-13.68	99.09	119.60
80	6	1729	C	N1-C2-O2	-13.67	110.70	118.90
80	6	163	G	N3-C4-N9	-13.67	117.80	126.00
36	1	2400	G	C4-C5-N7	13.67	116.27	110.80
80	6	295	A	N7-C8-N9	-13.66	106.97	113.80
80	6	305	C	N1-C2-O2	-13.66	110.70	118.90
85	5	2369	G	O5'-P-OP2	-13.66	93.40	105.70
85	5	1434	G	N3-C2-N2	-13.66	110.34	119.90
36	1	1157	G	N9-C4-C5	13.66	110.86	105.40
36	1	2818	U	C5-C4-O4	-13.66	117.71	125.90
36	1	2837	A	N1-C2-N3	13.65	136.13	129.30
36	1	64	G	C8-N9-C4	-13.65	100.94	106.40
85	5	2925	C	O5'-P-OP1	13.65	127.08	110.70
85	5	1322	U	C4-C5-C6	13.65	127.89	119.70
36	1	2726	C	N1-C2-N3	13.65	128.75	119.20
85	5	3086	A	N1-C2-N3	13.65	136.12	129.30
85	5	1370	G	N1-C6-O6	-13.65	111.71	119.90
85	5	2365	C	N1-C2-O2	-13.65	110.71	118.90
85	5	591	G	C5-C6-N1	-13.64	104.68	111.50
85	5	1488	G	N7-C8-N9	13.64	119.92	113.10
85	5	2967	A	N1-C6-N6	-13.64	110.42	118.60
36	1	2816	G	C4-C5-C6	13.64	126.98	118.80
1	2	1115	A	N1-C6-N6	-13.63	110.42	118.60
85	5	1161	G	C5-C6-N1	13.63	118.32	111.50
36	1	1753	G	C4-C5-N7	13.63	116.25	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1889	G	O5'-P-OP1	13.63	127.06	110.70
85	5	3025	C	C5-C6-N1	-13.63	114.18	121.00
80	6	264	G	C8-N9-C4	-13.63	100.95	106.40
80	6	1214	U	C5-C4-O4	-13.62	117.73	125.90
85	5	777	U	N3-C4-C5	13.62	122.77	114.60
37	3	28	C	C6-N1-C2	-13.62	114.85	120.30
85	5	204	A	C5-C6-N1	13.62	124.51	117.70
85	5	2970	C	C5-C6-N1	-13.62	114.19	121.00
80	6	1549	C	C6-N1-C2	-13.62	114.85	120.30
85	5	640	U	N3-C4-C5	-13.61	106.43	114.60
37	7	102	A	C5-C6-N1	-13.61	110.89	117.70
85	5	3198	U	C5-C6-N1	13.61	129.50	122.70
36	1	76	G	N3-C4-C5	-13.61	121.80	128.60
36	1	1619	A	N1-C6-N6	13.61	126.76	118.60
36	1	3135	U	N3-C4-C5	-13.61	106.44	114.60
38	4	109	A	C8-N9-C4	-13.61	100.36	105.80
85	5	3128	G	C8-N9-C4	-13.60	100.96	106.40
85	5	229	G	N1-C2-N3	13.60	132.06	123.90
85	5	1139	G	N1-C2-N3	13.60	132.06	123.90
85	5	1662	G	N1-C6-O6	13.60	128.06	119.90
85	5	2759	U	N1-C2-N3	13.60	123.06	114.90
85	5	2296	A	OP1-P-OP2	-13.60	99.20	119.60
85	5	330	G	C4-C5-N7	13.59	116.24	110.80
36	1	1207	G	C5-C6-O6	-13.59	120.45	128.60
36	1	2297	U	N3-C2-O2	-13.59	112.69	122.20
36	1	249	U	N3-C2-O2	-13.59	112.69	122.20
36	1	388	G	N7-C8-N9	13.59	119.89	113.10
80	6	1653	C	N1-C2-O2	-13.59	110.75	118.90
85	5	1078	U	C2-N3-C4	13.59	135.15	127.00
85	5	1827	C	C6-N1-C2	13.59	125.73	120.30
1	2	307	G	C4-C5-N7	-13.58	105.37	110.80
36	1	2972	G	C4-C5-N7	13.58	116.23	110.80
85	5	957	C	N1-C2-N3	13.58	128.71	119.20
36	1	102	C	O5'-P-OP2	-13.58	93.48	105.70
38	4	111	A	C5-C6-N1	-13.58	110.91	117.70
36	1	2972	G	C2-N3-C4	13.58	118.69	111.90
85	5	2841	G	C8-N9-C4	13.58	111.83	106.40
85	5	3099	C	C6-N1-C2	13.58	125.73	120.30
36	1	2927	C	N3-C4-C5	13.58	127.33	121.90
80	6	1749	A	C2-N3-C4	-13.57	103.81	110.60
36	1	1603	A	N1-C6-N6	-13.57	110.46	118.60
36	1	121	A	O5'-P-OP2	-13.57	93.49	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1045	C	C2-N3-C4	13.56	126.68	119.90
85	5	1114	U	C5-C4-O4	13.56	134.04	125.90
36	1	2871	G	N7-C8-N9	13.56	119.88	113.10
36	1	260	C	C6-N1-C2	13.56	125.72	120.30
36	1	2887	A	O5'-P-OP2	-13.56	93.50	105.70
36	1	110	G	N3-C2-N2	-13.55	110.41	119.90
80	6	427	C	N1-C2-O2	-13.55	110.77	118.90
85	5	1412	G	O5'-P-OP2	-13.55	93.50	105.70
85	5	3330	A	C6-N1-C2	-13.55	110.47	118.60
36	1	2706	G	C5-C6-O6	-13.55	120.47	128.60
36	1	2811	A	N1-C6-N6	-13.54	110.47	118.60
36	1	2945	G	N1-C6-O6	13.54	128.03	119.90
85	5	1871	U	N3-C2-O2	-13.54	112.72	122.20
85	5	1884	A	C4-C5-C6	13.54	123.77	117.00
36	1	3046	A	O5'-P-OP1	-13.54	93.51	105.70
85	5	984	G	N1-C6-O6	13.54	128.03	119.90
36	1	585	A	N3-C4-C5	13.54	136.28	126.80
80	6	1670	G	N1-C6-O6	13.54	128.02	119.90
80	6	1592	A	C8-N9-C4	-13.54	100.39	105.80
80	6	1654	G	C2-N3-C4	-13.54	105.13	111.90
36	1	1553	U	N1-C2-O2	-13.54	113.33	122.80
36	1	3362	A	C2-N3-C4	-13.54	103.83	110.60
85	5	581	U	O5'-P-OP1	-13.54	93.52	105.70
85	5	3327	G	C4-C5-C6	13.54	126.92	118.80
38	4	56	G	C8-N9-C4	13.53	111.81	106.40
80	6	560	U	OP2-P-O3'	13.53	134.97	105.20
36	1	1425	U	N1-C2-N3	13.53	123.02	114.90
85	5	3376	A	P-O3'-C3'	-13.53	103.46	119.70
80	6	1641	C	C6-N1-C2	-13.53	114.89	120.30
85	5	1374	G	C5-C6-O6	-13.53	120.48	128.60
85	5	639	G	C2-N3-C4	-13.53	105.14	111.90
85	5	1543	G	N7-C8-N9	13.52	119.86	113.10
85	5	1669	C	N1-C2-O2	-13.52	110.79	118.90
85	5	2283	G	C2-N3-C4	-13.52	105.14	111.90
36	1	420	G	C5-C6-O6	-13.52	120.49	128.60
36	1	2886	U	N1-C2-O2	-13.52	113.34	122.80
85	5	376	G	O5'-P-OP1	-13.52	93.53	105.70
36	1	425	G	OP1-P-OP2	-13.52	99.32	119.60
80	6	1727	G	C4-C5-N7	-13.51	105.40	110.80
85	5	2767	U	C5-C6-N1	13.50	129.45	122.70
36	1	277	G	C2-N3-C4	13.50	118.65	111.90
85	5	2980	U	C4-C5-C6	13.50	127.80	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	40	A	C8-N9-C4	-13.50	100.40	105.80
36	1	883	A	C8-N9-C4	-13.50	100.40	105.80
85	5	2619	G	C5-C6-N1	13.50	118.25	111.50
36	1	1398	U	C5-C4-O4	13.50	134.00	125.90
36	1	968	G	C5-C6-O6	-13.49	120.50	128.60
80	6	31	C	C6-N1-C2	-13.49	114.90	120.30
85	5	701	G	C5-N7-C8	13.49	111.05	104.30
85	5	1437	C	C6-N1-C2	-13.49	114.90	120.30
1	2	1185	A	N1-C6-N6	-13.49	110.51	118.60
85	5	1450	G	N3-C2-N2	-13.49	110.46	119.90
36	1	1375	G	N1-C2-N3	13.49	131.99	123.90
36	1	910	G	C8-N9-C4	-13.49	101.00	106.40
36	1	914	A	N1-C2-N3	13.48	136.04	129.30
1	2	908	G	C5-C6-O6	-13.48	120.51	128.60
1	2	47	A	C8-N9-C4	-13.48	100.41	105.80
36	1	1373	A	C6-N1-C2	-13.48	110.51	118.60
85	5	880	G	C6-N1-C2	-13.48	117.01	125.10
85	5	1291	A	C8-N9-C4	13.48	111.19	105.80
36	1	2719	U	N1-C2-O2	-13.48	113.36	122.80
80	6	420	A	N1-C2-N3	13.48	136.04	129.30
36	1	134	U	C6-N1-C2	13.48	129.09	121.00
85	5	333	G	C2-N3-C4	-13.48	105.16	111.90
85	5	607	A	N1-C2-N3	13.48	136.04	129.30
85	5	3183	A	N1-C2-N3	13.47	136.04	129.30
36	1	3016	A	C2-N3-C4	-13.47	103.86	110.60
85	5	2908	G	C4-C5-N7	13.47	116.19	110.80
36	1	194	U	C5-C6-N1	13.47	129.43	122.70
36	1	761	A	C5-C6-N1	-13.47	110.97	117.70
80	6	358	U	N3-C4-O4	13.47	128.83	119.40
85	5	82	C	N1-C2-O2	-13.47	110.82	118.90
85	5	594	U	O5'-P-OP2	-13.47	93.58	105.70
85	5	2353	G	C6-C5-N7	-13.47	122.32	130.40
85	5	3079	U	N1-C2-O2	-13.47	113.37	122.80
36	1	271	C	N1-C2-O2	-13.46	110.82	118.90
80	6	405	C	C6-N1-C2	13.47	125.69	120.30
36	1	2653	C	C6-N1-C2	-13.46	114.91	120.30
36	1	427	C	N1-C2-N3	13.46	128.62	119.20
85	5	1293	U	C5-C6-N1	-13.46	115.97	122.70
85	5	359	U	C6-N1-C2	-13.46	112.93	121.00
85	5	866	A	C8-N9-C4	13.46	111.18	105.80
85	5	3271	G	N1-C6-O6	-13.45	111.83	119.90
36	1	641	C	N1-C2-O2	-13.45	110.83	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	568	G	N1-C6-O6	13.45	127.97	119.90
85	5	2710	C	OP1-P-OP2	-13.45	99.42	119.60
36	1	918	C	N3-C2-O2	13.45	131.31	121.90
85	5	2319	U	N3-C4-O4	13.45	128.81	119.40
36	1	33	G	O5'-P-OP1	-13.44	93.60	105.70
37	7	64	A	C5-C6-N1	13.45	124.42	117.70
36	1	1548	C	N3-C4-C5	-13.44	116.52	121.90
85	5	2359	C	C5-C4-N4	-13.44	110.79	120.20
36	1	3278	C	N1-C2-O2	13.44	126.96	118.90
80	6	204	G	C4-C5-C6	-13.44	110.74	118.80
80	6	1747	G	C8-N9-C4	13.44	111.78	106.40
85	5	95	A	C5-C6-N1	13.44	124.42	117.70
36	1	914	A	C4-C5-N7	-13.44	103.98	110.70
85	5	809	G	N7-C8-N9	13.44	119.82	113.10
36	1	2699	G	C5-C6-O6	-13.43	120.54	128.60
85	5	918	C	C5-C6-N1	13.43	127.72	121.00
85	5	3061	G	O5'-P-OP1	-13.43	93.61	105.70
37	7	100	C	C5-C6-N1	-13.43	114.28	121.00
36	1	940	G	C5-C6-N1	13.43	118.22	111.50
36	1	713	U	C5-C6-N1	-13.43	115.99	122.70
85	5	2875	U	O5'-P-OP1	-13.43	93.61	105.70
85	5	990	U	O5'-P-OP1	13.43	126.81	110.70
85	5	2968	G	C6-N1-C2	-13.43	117.04	125.10
85	5	3198	U	N3-C4-O4	13.43	128.80	119.40
85	5	3207	U	N3-C4-C5	-13.43	106.55	114.60
36	1	324	A	C8-N9-C4	-13.42	100.43	105.80
36	1	2125	A	C5-N7-C8	-13.42	97.19	103.90
36	1	2160	G	C5-C6-O6	13.42	136.65	128.60
38	4	103	G	C2-N3-C4	13.42	118.61	111.90
38	4	104	A	C8-N9-C4	-13.42	100.43	105.80
85	5	326	U	C2-N3-C4	13.42	135.06	127.00
85	5	748	U	N3-C4-O4	13.42	128.80	119.40
85	5	965	A	C4-C5-N7	13.42	117.41	110.70
36	1	3104	U	O5'-P-OP1	-13.42	93.62	105.70
36	1	3367	C	N3-C4-C5	13.42	127.27	121.90
38	4	40	A	O5'-P-OP1	-13.42	93.62	105.70
85	5	330	G	N7-C8-N9	13.42	119.81	113.10
36	1	282	G	C5-C6-O6	13.42	136.65	128.60
85	5	721	G	C5-C6-O6	-13.42	120.55	128.60
85	5	942	U	N3-C4-O4	13.42	128.79	119.40
36	1	73	C	C6-N1-C2	-13.41	114.93	120.30
36	1	2560	C	N1-C2-O2	13.41	126.95	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1541	G	N1-C2-N3	-13.41	115.85	123.90
85	5	2662	G	C8-N9-C4	-13.41	101.03	106.40
85	5	1041	U	C5-C6-N1	-13.41	116.00	122.70
85	5	1201	C	O5'-P-OP2	13.41	126.79	110.70
85	5	2936	A	C5-C6-N1	13.41	124.41	117.70
85	5	2146	C	N3-C4-C5	-13.41	116.54	121.90
36	1	742	G	C5-N7-C8	-13.40	97.60	104.30
85	5	391	A	N1-C6-N6	-13.40	110.56	118.60
38	8	97	A	N1-C2-N3	13.40	136.00	129.30
36	1	1383	G	C6-C5-N7	-13.40	122.36	130.40
85	5	2964	G	N9-C4-C5	13.40	110.76	105.40
36	1	138	U	C5-C6-N1	-13.40	116.00	122.70
38	4	131	A	C6-N1-C2	-13.40	110.56	118.60
38	8	51	G	C8-N9-C4	-13.40	101.04	106.40
36	1	2978	U	N3-C2-O2	-13.39	112.82	122.20
85	5	1119	C	N3-C4-N4	13.39	127.38	118.00
85	5	3327	G	N1-C6-O6	13.39	127.94	119.90
80	6	1673	G	N3-C4-N9	-13.39	117.96	126.00
85	5	1110	U	N3-C2-O2	-13.39	112.83	122.20
36	1	975	C	N3-C4-C5	-13.39	116.54	121.90
85	5	2980	U	N1-C2-N3	13.39	122.93	114.90
85	5	333	G	N1-C2-N3	13.39	131.93	123.90
85	5	3388	C	C5-C4-N4	13.39	129.57	120.20
36	1	3177	G	N1-C6-O6	-13.39	111.87	119.90
1	2	630	A	N7-C8-N9	-13.38	107.11	113.80
36	1	2733	A	C5-C6-N1	-13.38	111.01	117.70
36	1	1166	G	C4-C5-N7	13.38	116.15	110.80
85	5	1819	U	C5-C4-O4	13.38	133.93	125.90
85	5	1592	G	C8-N9-C4	-13.38	101.05	106.40
85	5	295	A	N1-C6-N6	13.38	126.62	118.60
85	5	748	U	C6-N1-C1'	13.37	139.92	121.20
85	5	518	G	N9-C4-C5	13.37	110.75	105.40
38	4	37	A	C8-N9-C4	-13.37	100.45	105.80
85	5	3311	C	C2-N3-C4	13.37	126.58	119.90
1	2	420	A	N1-C2-N3	13.37	135.98	129.30
36	1	1157	G	N1-C2-N3	13.37	131.92	123.90
80	6	627	C	N3-C4-C5	-13.37	116.55	121.90
36	1	499	G	N7-C8-N9	13.36	119.78	113.10
85	5	809	G	C5-N7-C8	-13.36	97.62	104.30
38	8	109	A	O5'-P-OP2	-13.36	93.67	105.70
36	1	2113	A	N1-C6-N6	-13.36	110.58	118.60
38	4	56	G	C5-C6-N1	-13.36	104.82	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2425	G	N3-C4-C5	13.36	135.28	128.60
85	5	667	C	C6-N1-C2	13.36	125.64	120.30
36	1	742	G	C8-N9-C4	-13.36	101.06	106.40
36	1	1847	A	C2-N3-C4	-13.35	103.92	110.60
85	5	2649	A	C5-N7-C8	-13.35	97.22	103.90
36	1	2940	A	C5-C6-N1	13.35	124.38	117.70
36	1	921	A	N3-C4-C5	-13.35	117.46	126.80
36	1	2385	G	C4-C5-N7	-13.35	105.46	110.80
36	1	2825	C	C6-N1-C2	-13.35	114.96	120.30
37	7	60	G	O5'-P-OP1	13.35	126.71	110.70
36	1	267	G	N3-C4-C5	13.34	135.27	128.60
36	1	2416	U	O5'-P-OP2	-13.34	93.69	105.70
85	5	867	G	C4-C5-N7	13.34	116.14	110.80
85	5	1131	G	C5-C6-N1	-13.34	104.83	111.50
80	6	1032	G	C8-N9-C4	13.34	111.74	106.40
36	1	400	G	C5-N7-C8	-13.34	97.63	104.30
36	1	2808	A	C5-N7-C8	-13.34	97.23	103.90
36	1	970	A	C8-N9-C4	-13.33	100.47	105.80
85	5	530	G	C5-C6-O6	-13.33	120.60	128.60
37	7	61	G	C8-N9-C4	13.33	111.73	106.40
36	1	904	A	N1-C6-N6	-13.33	110.61	118.60
36	1	1906	G	OP1-P-OP2	-13.33	99.61	119.60
36	1	510	G	N1-C6-O6	13.32	127.89	119.90
36	1	1629	U	N1-C2-O2	-13.32	113.47	122.80
80	6	783	G	N1-C6-O6	-13.32	111.91	119.90
1	2	1716	C	N3-C2-O2	13.32	131.22	121.90
85	5	3312	U	N3-C4-O4	13.32	128.72	119.40
36	1	338	A	C8-N9-C4	-13.32	100.47	105.80
37	7	103	A	C5-C6-N1	13.31	124.36	117.70
36	1	59	G	N7-C8-N9	13.31	119.76	113.10
36	1	978	G	C5-C6-O6	-13.31	120.61	128.60
85	5	1136	A	C2-N3-C4	-13.31	103.94	110.60
85	5	926	A	C2-N3-C4	-13.31	103.94	110.60
85	5	2958	A	C6-N1-C2	-13.31	110.61	118.60
36	1	89	A	OP1-P-OP2	-13.31	99.64	119.60
85	5	693	A	C8-N9-C4	-13.31	100.48	105.80
85	5	948	C	N3-C2-O2	13.30	131.21	121.90
85	5	3200	G	C4-C5-N7	13.30	116.12	110.80
36	1	2224	A	N1-C6-N6	-13.30	110.62	118.60
85	5	1693	C	N3-C2-O2	-13.30	112.59	121.90
85	5	2984	C	N3-C2-O2	-13.30	112.59	121.90
36	1	326	U	C6-N1-C2	-13.30	113.02	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2147	A	C2-N3-C4	-13.30	103.95	110.60
85	5	2994	A	C5-C6-N1	13.30	124.35	117.70
36	1	1434	G	N7-C8-N9	13.30	119.75	113.10
36	1	2972	G	C8-N9-C4	-13.29	101.08	106.40
85	5	2124	G	C4-C5-N7	-13.30	105.48	110.80
36	1	1468	A	C2-N3-C4	-13.29	103.95	110.60
85	5	1829	G	N1-C6-O6	13.29	127.88	119.90
36	1	1847	A	N1-C2-N3	13.29	135.94	129.30
38	4	107	G	C8-N9-C4	13.29	111.72	106.40
85	5	407	A	N7-C8-N9	13.29	120.44	113.80
36	1	2863	G	C6-C5-N7	-13.28	122.43	130.40
80	6	110	U	N3-C4-C5	-13.28	106.63	114.60
1	2	449	C	C6-N1-C2	-13.28	114.99	120.30
37	3	23	A	C8-N9-C4	-13.28	100.49	105.80
36	1	2160	G	C4-C5-N7	-13.28	105.49	110.80
85	5	2187	G	C6-C5-N7	-13.28	122.43	130.40
36	1	701	G	C4-C5-N7	-13.28	105.49	110.80
85	5	793	C	C5-C6-N1	13.28	127.64	121.00
36	1	96	G	C2-N3-C4	-13.28	105.26	111.90
36	1	201	A	C8-N9-C4	13.27	111.11	105.80
80	6	466	U	N1-C2-N3	13.27	122.86	114.90
36	1	1137	C	C6-N1-C2	13.27	125.61	120.30
37	7	29	C	C2-N3-C4	-13.27	113.26	119.90
85	5	1690	C	C6-N1-C2	-13.27	114.99	120.30
36	1	925	A	C8-N9-C4	-13.27	100.49	105.80
36	1	1432	C	N3-C2-O2	-13.27	112.61	121.90
36	1	2374	C	N3-C2-O2	-13.27	112.61	121.90
85	5	393	U	C6-N1-C2	-13.27	113.04	121.00
85	5	641	C	C2-N3-C4	13.27	126.53	119.90
85	5	2158	A	C6-N1-C2	-13.27	110.64	118.60
36	1	412	G	C5-C6-O6	13.26	136.56	128.60
85	5	2388	U	N3-C2-O2	13.26	131.49	122.20
36	1	1433	A	N7-C8-N9	13.26	120.43	113.80
85	5	31	C	N3-C4-C5	13.26	127.20	121.90
85	5	1078	U	N3-C4-C5	-13.26	106.64	114.60
85	5	2884	C	N3-C4-C5	-13.26	116.60	121.90
85	5	3178	A	C2-N3-C4	-13.26	103.97	110.60
85	5	53	G	C8-N9-C4	13.26	111.70	106.40
85	5	2288	G	C6-N1-C2	-13.26	117.15	125.10
38	8	110	C	C4-C5-C6	13.26	124.03	117.40
85	5	347	G	C8-N9-C4	-13.25	101.10	106.40
38	8	138	A	C5-N7-C8	13.25	110.53	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1303	A	N1-C6-N6	13.25	126.55	118.60
36	1	646	A	C8-N9-C4	-13.25	100.50	105.80
38	4	84	C	C5-C6-N1	-13.25	114.38	121.00
85	5	2646	C	C2-N3-C4	-13.25	113.28	119.90
85	5	2898	G	C5-C6-N1	-13.25	104.88	111.50
85	5	3215	A	C5-C6-N6	-13.25	113.10	123.70
85	5	798	G	C4-C5-C6	13.25	126.75	118.80
85	5	1256	G	C8-N9-C4	13.25	111.70	106.40
85	5	2613	U	N1-C2-O2	-13.25	113.53	122.80
80	6	562	G	N1-C6-O6	13.24	127.84	119.90
80	6	1127	G	C2-N3-C4	-13.24	105.28	111.90
80	6	1294	G	N1-C6-O6	13.24	127.84	119.90
80	6	1280	C	N3-C4-C5	-13.24	116.60	121.90
85	5	48	A	C6-N1-C2	-13.24	110.66	118.60
36	1	1303	A	N1-C6-N6	-13.24	110.66	118.60
36	1	2601	A	C6-N1-C2	-13.24	110.66	118.60
85	5	1197	A	C4-C5-N7	-13.23	104.08	110.70
36	1	2598	G	O5'-P-OP1	13.23	126.58	110.70
1	2	73	U	N1-C2-O2	13.23	132.06	122.80
36	1	662	U	C4-C5-C6	-13.23	111.76	119.70
36	1	2982	A	C2-N3-C4	13.23	117.22	110.60
85	5	2335	G	N1-C2-N3	13.23	131.84	123.90
85	5	2864	A	C4-C5-C6	-13.23	110.38	117.00
36	1	1449	A	N1-C6-N6	-13.23	110.66	118.60
80	6	565	C	C5-C6-N1	-13.23	114.39	121.00
85	5	2405	C	C5-C6-N1	-13.23	114.39	121.00
85	5	2798	C	C5-C4-N4	13.23	129.46	120.20
36	1	57	A	C2-N3-C4	-13.22	103.99	110.60
36	1	3054	U	C5-C6-N1	-13.22	116.09	122.70
80	6	268	C	C6-N1-C2	13.22	125.59	120.30
80	6	818	C	N1-C2-O2	-13.22	110.97	118.90
36	1	1512	U	N1-C2-O2	-13.22	113.55	122.80
37	3	74	C	N3-C2-O2	13.21	131.15	121.90
80	6	204	G	N3-C4-C5	13.21	135.21	128.60
37	7	79	A	N1-C6-N6	13.21	126.53	118.60
36	1	1320	C	N3-C4-C5	-13.21	116.62	121.90
36	1	2150	G	C2-N3-C4	-13.21	105.29	111.90
80	6	1053	G	C8-N9-C4	-13.21	101.12	106.40
85	5	266	A	N1-C6-N6	-13.21	110.67	118.60
85	5	2715	A	C4-C5-C6	13.21	123.61	117.00
85	5	1134	G	N1-C2-N3	13.21	131.82	123.90
80	6	1735	U	N3-C2-O2	-13.20	112.96	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3006	A	N1-C2-N3	13.20	135.90	129.30
38	8	134	G	C8-N9-C4	13.20	111.68	106.40
36	1	76	G	C5-C6-N1	13.20	118.10	111.50
80	6	941	A	C2-N3-C4	13.20	117.20	110.60
36	1	2222	A	C8-N9-C4	-13.20	100.52	105.80
85	5	508	U	C5-C4-O4	13.20	133.82	125.90
85	5	2710	C	N1-C2-O2	-13.20	110.98	118.90
80	6	1651	A	OP2-P-O3'	-13.19	76.17	105.20
36	1	326	U	C5-C6-N1	13.19	129.30	122.70
36	1	499	G	C5-C6-O6	-13.19	120.69	128.60
36	1	1121	U	C6-N1-C2	13.19	128.91	121.00
80	6	678	A	C8-N9-C4	-13.19	100.53	105.80
85	5	3267	A	C6-N1-C2	-13.19	110.69	118.60
80	6	423	G	C4-C5-C6	-13.18	110.89	118.80
80	6	1748	G	N1-C6-O6	13.18	127.81	119.90
85	5	2620	G	C4-C5-N7	13.18	116.07	110.80
36	1	1124	U	C5-C6-N1	13.18	129.29	122.70
36	1	1154	A	N3-C4-C5	-13.18	117.57	126.80
80	6	1643	U	C2-N3-C4	-13.18	119.09	127.00
85	5	2617	U	N1-C2-O2	-13.18	113.57	122.80
85	5	918	C	N1-C2-N3	-13.18	109.97	119.20
85	5	2620	G	C8-N9-C4	-13.18	101.13	106.40
85	5	2960	C	N1-C2-N3	13.18	128.43	119.20
36	1	666	A	C6-N1-C2	-13.18	110.69	118.60
36	1	1822	C	O5'-P-OP1	-13.17	93.84	105.70
36	1	1902	G	N1-C6-O6	13.17	127.80	119.90
36	1	3311	C	C6-N1-C2	13.17	125.57	120.30
36	1	2890	A	O5'-P-OP1	13.17	126.50	110.70
36	1	1414	G	N1-C6-O6	13.17	127.80	119.90
85	5	942	U	C4-C5-C6	13.17	127.60	119.70
85	5	957	C	N3-C2-O2	-13.17	112.68	121.90
85	5	1199	C	N1-C2-O2	-13.17	111.00	118.90
1	2	1643	A	C5-C6-N1	13.17	124.28	117.70
85	5	1149	G	C8-N9-C1'	13.17	144.12	127.00
36	1	1103	A	C2-N3-C4	13.16	117.18	110.60
36	1	1182	A	N1-C6-N6	13.16	126.50	118.60
36	1	1308	A	C2-N3-C4	-13.16	104.02	110.60
85	5	947	G	C5-C6-N1	-13.16	104.92	111.50
85	5	2147	A	C5-C6-N1	13.16	124.28	117.70
85	5	2302	G	C5-C6-O6	13.16	136.50	128.60
1	2	1128	U	C5-C6-N1	13.16	129.28	122.70
36	1	824	C	N3-C2-O2	-13.16	112.69	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3016	A	C5-C6-N1	-13.16	111.12	117.70
85	5	1450	G	C5-C6-O6	-13.16	120.70	128.60
36	1	780	A	C2-N3-C4	-13.16	104.02	110.60
36	1	2975	U	O5'-P-OP2	-13.16	93.86	105.70
36	1	3046	A	N1-C6-N6	13.16	126.49	118.60
85	5	2829	U	N3-C4-O4	13.16	128.61	119.40
36	1	2808	A	C4-C5-N7	13.15	117.28	110.70
40	13	4	ARG	NE-CZ-NH1	13.15	126.88	120.30
36	1	808	A	N1-C6-N6	-13.15	110.71	118.60
36	1	2286	U	N1-C2-N3	13.15	122.79	114.90
36	1	2364	G	C5-C6-O6	13.15	136.49	128.60
85	5	2231	C	N3-C4-C5	-13.15	116.64	121.90
1	2	48	G	O5'-P-OP2	-13.15	93.87	105.70
36	1	1389	G	C2-N3-C4	13.15	118.47	111.90
36	1	2728	G	C5-C6-N1	13.15	118.07	111.50
85	5	1393	A	N1-C6-N6	-13.15	110.71	118.60
36	1	364	G	C2-N3-C4	-13.14	105.33	111.90
80	6	1051	G	C4-C5-C6	-13.14	110.91	118.80
36	1	895	A	C2-N3-C4	-13.14	104.03	110.60
36	1	676	G	N7-C8-N9	13.14	119.67	113.10
36	1	2300	G	C8-N9-C4	-13.14	101.14	106.40
36	1	2971	A	C4-C5-C6	13.14	123.57	117.00
85	5	2985	C	N3-C4-C5	13.14	127.16	121.90
1	2	1250	G	C8-N9-C4	-13.13	101.15	106.40
36	1	222	A	O5'-P-OP2	-13.13	93.88	105.70
36	1	338	A	N9-C4-C5	13.13	111.05	105.80
36	1	1799	A	C5-C6-N6	13.13	134.20	123.70
85	5	2652	U	O5'-P-OP2	-13.13	93.88	105.70
37	3	82	G	N9-C4-C5	13.13	110.65	105.40
85	5	1420	C	N3-C4-C5	13.13	127.15	121.90
85	5	1772	U	C5-C4-O4	13.13	133.78	125.90
38	4	7	U	N1-C2-O2	-13.13	113.61	122.80
38	4	66	A	C5-C6-N1	-13.12	111.14	117.70
85	5	518	G	C5-C6-N1	-13.13	104.94	111.50
85	5	2550	U	N1-C2-N3	13.12	122.78	114.90
1	2	1436	G	N7-C8-N9	-13.12	106.54	113.10
36	1	30	G	N1-C2-N3	13.12	131.77	123.90
85	5	24	G	N1-C6-O6	-13.12	112.03	119.90
85	5	2352	A	N7-C8-N9	-13.12	107.24	113.80
85	5	971	G	C5-C6-O6	-13.12	120.73	128.60
85	5	1171	G	O5'-P-OP2	-13.12	93.89	105.70
36	1	872	U	OP1-P-OP2	-13.12	99.92	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1105	A	C2-N3-C4	-13.12	104.04	110.60
36	1	1139	G	N3-C2-N2	-13.12	110.72	119.90
36	1	1183	C	O5'-P-OP1	13.12	126.44	110.70
85	5	802	C	N1-C2-O2	-13.12	111.03	118.90
85	5	2888	U	O5'-P-OP1	-13.12	93.89	105.70
37	7	39	C	N3-C4-C5	-13.12	116.65	121.90
38	8	23	U	N3-C2-O2	-13.12	113.02	122.20
36	1	421	G	C5-C6-N1	13.12	118.06	111.50
80	6	1002	G	C8-N9-C4	-13.11	101.15	106.40
85	5	189	G	N1-C6-O6	-13.11	112.03	119.90
1	2	370	A	N1-C6-N6	-13.11	110.73	118.60
38	4	110	C	O5'-P-OP2	-13.11	93.90	105.70
85	5	1519	G	C5-N7-C8	-13.11	97.74	104.30
85	5	2313	A	OP1-P-OP2	-13.11	99.93	119.60
36	1	3026	G	N1-C6-O6	13.11	127.77	119.90
85	5	1903	U	N1-C2-O2	-13.11	113.62	122.80
80	6	637	C	O5'-P-OP2	-13.11	93.91	105.70
36	1	59	G	C8-N9-C4	-13.10	101.16	106.40
80	6	129	U	N1-C2-N3	-13.10	107.04	114.90
80	6	1042	G	C8-N9-C4	-13.10	101.16	106.40
85	5	1865	A	C5-C6-N1	-13.10	111.15	117.70
85	5	2339	C	C6-N1-C2	-13.10	115.06	120.30
85	5	2830	G	N1-C2-N3	13.10	131.76	123.90
85	5	2899	C	N3-C4-C5	-13.10	116.66	121.90
36	1	1062	A	N7-C8-N9	13.10	120.35	113.80
36	1	2619	G	C6-N1-C2	-13.10	117.24	125.10
85	5	2283	G	N3-C4-C5	13.10	135.15	128.60
1	2	565	C	N3-C2-O2	-13.10	112.73	121.90
85	5	1792	C	C4-C5-C6	13.10	123.95	117.40
80	6	1195	C	N3-C4-C5	-13.09	116.66	121.90
36	1	97	U	N1-C2-O2	-13.09	113.64	122.80
38	4	68	G	C2-N3-C4	-13.09	105.36	111.90
38	4	111	A	C2-N3-C4	-13.09	104.06	110.60
85	5	3311	C	N3-C2-O2	13.09	131.06	121.90
85	5	2850	G	C8-N9-C4	13.09	111.64	106.40
85	5	3212	C	N1-C2-O2	-13.09	111.05	118.90
85	5	957	C	C4-C5-C6	13.08	123.94	117.40
85	5	1414	G	N7-C8-N9	13.08	119.64	113.10
36	1	2941	A	O5'-P-OP2	-13.08	93.93	105.70
85	5	1433	A	N9-C4-C5	13.08	111.03	105.80
1	2	354	C	N3-C4-C5	-13.08	116.67	121.90
36	1	2647	A	C8-N9-C4	-13.08	100.57	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	999	G	C2-N3-C4	13.07	118.44	111.90
85	5	1517	G	O5'-P-OP2	-13.07	93.93	105.70
85	5	1901	A	C8-N9-C4	-13.07	100.57	105.80
85	5	2656	A	C5-N7-C8	-13.07	97.36	103.90
80	6	1740	A	O5'-P-OP2	-13.07	93.94	105.70
36	1	935	U	N3-C4-O4	13.07	128.55	119.40
36	1	1888	U	N3-C2-O2	-13.07	113.05	122.20
85	5	3328	G	C8-N9-C4	-13.07	101.17	106.40
38	8	66	A	C8-N9-C4	-13.07	100.57	105.80
37	7	80	G	C5-C6-N1	13.07	118.03	111.50
85	5	270	U	C5-C6-N1	13.06	129.23	122.70
36	1	53	G	N1-C2-N3	13.06	131.74	123.90
85	5	291	C	C5-C6-N1	-13.06	114.47	121.00
85	5	1085	A	C2-N3-C4	-13.06	104.07	110.60
85	5	1424	C	C6-N1-C2	13.06	125.53	120.30
36	1	2819	A	O5'-P-OP2	-13.06	93.94	105.70
38	8	15	G	N1-C2-N3	13.06	131.74	123.90
80	6	420	A	C6-C5-N7	-13.06	123.16	132.30
85	5	1131	G	O5'-P-OP2	-13.06	93.95	105.70
85	5	506	U	C4-C5-C6	13.05	127.53	119.70
36	1	2855	U	C5-C6-N1	-13.05	116.17	122.70
38	4	58	G	OP1-P-OP2	-13.05	100.02	119.60
85	5	431	U	N3-C4-C5	-13.05	106.77	114.60
85	5	777	U	C2-N1-C1'	-13.05	102.04	117.70
85	5	3072	C	N3-C4-C5	-13.05	116.68	121.90
36	1	1589	A	C8-N9-C4	-13.05	100.58	105.80
85	5	341	G	C5-C6-N1	-13.05	104.98	111.50
85	5	1483	G	C2-N3-C4	13.05	118.42	111.90
36	1	638	C	C2-N3-C4	13.05	126.42	119.90
38	4	97	A	N1-C2-N3	13.04	135.82	129.30
85	5	1001	G	C5-C6-O6	13.04	136.43	128.60
85	5	1294	A	N1-C2-N3	13.04	135.82	129.30
85	5	2375	G	C5-C6-N1	13.04	118.02	111.50
79	Q3	23	ARG	NE-CZ-NH1	-13.03	113.78	120.30
80	6	1137	A	C2-N3-C4	-13.03	104.08	110.60
85	5	652	G	C5-N7-C8	13.03	110.82	104.30
36	1	2699	G	C4-C5-N7	13.03	116.01	110.80
85	5	93	C	N3-C4-N4	13.03	127.12	118.00
85	5	213	A	C5-C6-N1	13.03	124.21	117.70
36	1	904	A	C2-N3-C4	-13.02	104.09	110.60
37	3	94	C	N1-C2-O2	-13.02	111.09	118.90
85	5	2937	G	OP1-P-OP2	-13.02	100.07	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	307	A	N9-C4-C5	13.02	111.01	105.80
36	1	3103	A	N1-C2-N3	13.02	135.81	129.30
36	1	426	G	O5'-P-OP1	-13.02	93.98	105.70
85	5	364	G	C2-N3-C4	-13.02	105.39	111.90
85	5	2761	G	C6-N1-C2	-13.02	117.29	125.10
85	5	3313	U	O5'-P-OP2	-13.01	93.99	105.70
38	4	52	A	C6-N1-C2	-13.01	110.79	118.60
80	6	957	G	N1-C6-O6	13.01	127.71	119.90
36	1	37	U	N1-C2-N3	13.01	122.70	114.90
36	1	857	G	C6-C5-N7	-13.01	122.59	130.40
36	1	804	C	C4-C5-C6	-13.01	110.90	117.40
36	1	1753	G	C5-C6-O6	-13.01	120.80	128.60
36	1	2237	C	C5-C6-N1	-13.01	114.50	121.00
37	3	20	A	C8-N9-C4	-13.01	100.60	105.80
85	5	2140	U	N3-C2-O2	-13.01	113.10	122.20
36	1	408	A	C4-C5-N7	-13.00	104.20	110.70
36	1	2293	C	C5-C6-N1	13.00	127.50	121.00
36	1	2370	G	N1-C6-O6	-13.00	112.10	119.90
85	5	2757	U	N1-C2-N3	13.00	122.70	114.90
85	5	898	U	OP1-P-OP2	-13.00	100.10	119.60
85	5	1413	G	C5-C6-O6	-13.00	120.80	128.60
85	5	3085	G	C5-C6-O6	13.00	136.40	128.60
85	5	1869	C	C6-N1-C2	13.00	125.50	120.30
36	1	1425	U	N3-C2-O2	-12.99	113.10	122.20
36	1	1901	A	N1-C6-N6	-12.99	110.80	118.60
85	5	3065	G	C2-N3-C4	-12.99	105.40	111.90
37	7	54	U	N3-C2-O2	-12.99	113.10	122.20
36	1	283	G	C6-C5-N7	-12.99	122.61	130.40
85	5	308	A	C5-C6-N1	-12.99	111.20	117.70
36	1	1417	G	C8-N9-C4	12.99	111.59	106.40
36	1	1435	A	N9-C4-C5	12.99	111.00	105.80
80	6	1014	G	N1-C2-N3	12.99	131.69	123.90
36	1	1151	U	C6-N1-C2	-12.99	113.21	121.00
38	4	41	A	C5-C6-N6	12.99	134.09	123.70
85	5	1895	A	C4-C5-N7	12.99	117.19	110.70
85	5	2968	G	C6-C5-N7	12.99	138.19	130.40
36	1	1429	G	C6-N1-C2	-12.98	117.31	125.10
36	1	808	A	C2-N3-C4	12.98	117.09	110.60
36	1	2119	A	C5-C6-N6	-12.98	113.31	123.70
85	5	407	A	C6-N1-C2	-12.98	110.81	118.60
85	5	2936	A	C8-N9-C4	-12.98	100.61	105.80
36	1	1426	C	N1-C2-N3	12.97	128.28	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1871	U	N1-C2-N3	12.97	122.68	114.90
85	5	394	G	C5-C6-O6	12.97	136.38	128.60
85	5	644	G	C4-C5-N7	-12.97	105.61	110.80
36	1	1165	A	O5'-P-OP2	-12.97	94.03	105.70
38	4	52	A	C5-C6-N1	12.97	124.19	117.70
36	1	44	U	N3-C4-O4	-12.97	110.32	119.40
38	4	80	A	N7-C8-N9	-12.97	107.31	113.80
85	5	1306	G	C5-N7-C8	-12.97	97.81	104.30
85	5	2093	A	C4-C5-N7	12.97	117.19	110.70
85	5	532	A	C8-N9-C4	-12.97	100.61	105.80
85	5	1792	C	N1-C2-O2	-12.97	111.12	118.90
85	5	2927	C	C6-N1-C2	-12.97	115.11	120.30
36	1	2847	A	N1-C6-N6	12.97	126.38	118.60
36	1	2916	U	N1-C2-O2	12.96	131.88	122.80
85	5	1322	U	C5-C6-N1	-12.96	116.22	122.70
85	5	1496	C	N1-C2-O2	12.96	126.68	118.90
36	1	636	C	C6-N1-C2	-12.96	115.11	120.30
36	1	294	U	C5-C4-O4	12.96	133.68	125.90
80	6	335	U	OP1-P-O3'	12.96	133.72	105.20
85	5	1488	G	C5-N7-C8	-12.96	97.82	104.30
36	1	1132	C	C4-C5-C6	12.96	123.88	117.40
36	1	2160	G	N1-C6-O6	-12.96	112.12	119.90
85	5	1000	C	N3-C4-C5	12.96	127.08	121.90
36	1	633	C	C2-N3-C4	-12.95	113.43	119.90
64	n8	46	ASP	CB-CG-OD1	12.95	129.96	118.30
85	5	1440	G	N7-C8-N9	12.95	119.57	113.10
36	1	1297	C	C2-N3-C4	-12.95	113.43	119.90
36	1	57	A	N1-C6-N6	12.94	126.36	118.60
36	1	96	G	O5'-P-OP2	-12.94	94.05	105.70
80	6	1147	A	C8-N9-C4	-12.94	100.62	105.80
85	5	1171	G	O5'-P-OP1	12.94	126.23	110.70
85	5	1594	A	C8-N9-C4	-12.94	100.62	105.80
85	5	880	G	C5-N7-C8	12.94	110.77	104.30
36	1	2689	A	O5'-P-OP1	-12.94	94.06	105.70
36	1	2870	C	OP1-P-O3'	12.94	133.66	105.20
85	5	408	A	N1-C2-N3	12.94	135.77	129.30
85	5	1294	A	C2-N3-C4	-12.94	104.13	110.60
36	1	408	A	N9-C4-C5	12.93	110.97	105.80
85	5	1301	A	N7-C8-N9	12.93	120.26	113.80
85	5	1759	C	N1-C2-O2	12.93	126.66	118.90
37	7	100	C	N3-C2-O2	12.93	130.95	121.90
36	1	751	A	O5'-P-OP2	-12.93	94.07	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1483	G	N1-C6-O6	-12.93	112.14	119.90
80	6	1670	G	N1-C2-N3	12.93	131.66	123.90
85	5	1434	G	N1-C6-O6	12.93	127.66	119.90
1	2	87	C	N3-C4-C5	-12.92	116.73	121.90
36	1	37	U	C4-C5-C6	12.92	127.45	119.70
36	1	1383	G	C5-C6-O6	-12.92	120.85	128.60
85	5	1115	G	C8-N9-C4	-12.92	101.23	106.40
85	5	1662	G	C5-C6-O6	12.92	136.35	128.60
85	5	2648	G	C2-N3-C4	-12.92	105.44	111.90
36	1	3120	C	C6-N1-C2	12.92	125.47	120.30
85	5	2177	G	C2-N3-C4	-12.92	105.44	111.90
85	5	2385	G	C2-N3-C4	-12.92	105.44	111.90
36	1	2144	A	C5-C6-N1	12.91	124.16	117.70
85	5	3052	G	N9-C4-C5	12.91	110.56	105.40
36	1	1169	A	C5-C6-N1	12.91	124.16	117.70
36	1	1801	U	N3-C2-O2	-12.91	113.17	122.20
36	1	2756	C	O5'-P-OP1	12.90	126.18	110.70
85	5	1446	A	N1-C6-N6	-12.90	110.86	118.60
36	1	2375	G	C5-C6-N1	12.90	117.95	111.50
85	5	581	U	C5-C6-N1	12.90	129.15	122.70
36	1	1794	G	C5-C6-N1	-12.90	105.05	111.50
36	1	2693	C	C6-N1-C2	12.90	125.46	120.30
85	5	2980	U	N1-C2-O2	-12.90	113.77	122.80
85	5	1598	G	C5-C6-N1	12.90	117.95	111.50
36	1	1513	G	C5-C6-N1	12.89	117.95	111.50
85	5	2223	A	N1-C6-N6	-12.89	110.86	118.60
36	1	994	G	N1-C6-O6	-12.89	112.17	119.90
38	4	27	U	N1-C2-O2	12.89	131.82	122.80
1	2	1128	U	N3-C2-O2	12.89	131.22	122.20
85	5	1662	G	O5'-P-OP1	-12.89	94.10	105.70
85	5	1200	A	C8-N9-C4	12.89	110.95	105.80
85	5	2830	G	C2-N3-C4	-12.89	105.46	111.90
36	1	677	A	C6-N1-C2	-12.88	110.87	118.60
85	5	966	U	C6-N1-C2	-12.88	113.27	121.00
85	5	2825	C	C6-N1-C2	12.89	125.45	120.30
85	5	981	U	O5'-P-OP1	-12.88	94.10	105.70
36	1	1433	A	C5-C6-N1	12.88	124.14	117.70
37	3	17	A	N1-C2-N3	12.88	135.74	129.30
85	5	1407	A	C2-N3-C4	-12.88	104.16	110.60
85	5	2160	G	C6-N1-C2	-12.88	117.37	125.10
85	5	2843	U	N1-C2-O2	12.88	131.82	122.80
85	5	2980	U	N3-C4-C5	-12.88	106.87	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	957	C	C6-N1-C2	-12.88	115.15	120.30
36	1	2695	A	O5'-P-OP1	-12.88	94.11	105.70
36	1	2777	G	N1-C6-O6	-12.88	112.17	119.90
36	1	3046	A	C4-C5-C6	12.88	123.44	117.00
85	5	653	A	O5'-P-OP2	-12.88	94.11	105.70
36	1	1794	G	C2-N3-C4	-12.88	105.46	111.90
85	5	826	G	C4-C5-N7	12.87	115.95	110.80
36	1	972	A	O5'-P-OP2	-12.87	94.12	105.70
85	5	2979	U	N3-C2-O2	-12.87	113.19	122.20
91	p	75	C	C6-N1-C2	12.87	125.45	120.30
85	5	658	G	C2-N3-C4	-12.87	105.47	111.90
36	1	2627	C	C5-C6-N1	-12.87	114.57	121.00
85	5	2907	G	N1-C6-O6	12.87	127.62	119.90
85	5	1165	A	C6-N1-C2	-12.86	110.88	118.60
85	5	2864	A	C5-N7-C8	-12.86	97.47	103.90
85	5	920	A	N7-C8-N9	12.86	120.23	113.80
36	1	2401	A	C6-C5-N7	-12.86	123.30	132.30
85	5	867	G	C5-N7-C8	-12.86	97.87	104.30
85	5	1476	G	C2-N3-C4	-12.86	105.47	111.90
85	5	3022	G	O5'-P-OP1	-12.86	94.13	105.70
91	P	75	C	C6-N1-C2	12.86	125.44	120.30
85	5	3029	A	OP1-P-OP2	-12.86	100.31	119.60
36	1	859	G	C6-C5-N7	-12.86	122.69	130.40
36	1	947	G	C2-N3-C4	-12.86	105.47	111.90
85	5	2271	A	N1-C6-N6	-12.86	110.89	118.60
80	6	789	A	C8-N9-C4	-12.86	100.66	105.80
80	6	923	A	C2-N3-C4	-12.85	104.17	110.60
85	5	90	C	N1-C2-O2	-12.85	111.19	118.90
85	5	363	G	C4-C5-N7	12.85	115.94	110.80
85	5	2857	C	O5'-P-OP2	12.85	126.12	110.70
85	5	2896	A	C2-N3-C4	-12.85	104.17	110.60
85	5	3144	G	O5'-P-OP2	12.85	126.12	110.70
36	1	1173	U	C2-N3-C4	-12.85	119.29	127.00
85	5	3039	C	C2-N3-C4	-12.85	113.48	119.90
85	5	3067	C	C5-C6-N1	-12.85	114.58	121.00
36	1	187	A	C5-N7-C8	-12.85	97.48	103.90
36	1	3197	G	C2-N3-C4	-12.84	105.48	111.90
80	6	590	C	O5'-P-OP1	-12.84	94.14	105.70
85	5	1293	U	C2-N3-C4	-12.84	119.30	127.00
36	1	71	A	N1-C6-N6	-12.84	110.90	118.60
85	5	397	A	C5-N7-C8	12.84	110.32	103.90
85	5	2425	G	N1-C6-O6	12.84	127.60	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	806	A	N1-C6-N6	12.83	126.30	118.60
37	7	79	A	N9-C4-C5	-12.83	100.67	105.80
85	5	2191	U	C5-C4-O4	12.83	133.60	125.90
85	5	2745	G	O5'-P-OP1	12.83	126.09	110.70
36	1	633	C	N3-C4-C5	12.83	127.03	121.90
80	6	475	A	C8-N9-C4	-12.82	100.67	105.80
85	5	1121	U	C6-N1-C2	12.82	128.69	121.00
85	5	2379	U	N1-C2-N3	12.82	122.59	114.90
85	5	425	G	C5-C6-N1	-12.82	105.09	111.50
85	5	2981	U	N3-C2-O2	-12.82	113.23	122.20
36	1	186	U	OP1-P-OP2	-12.82	100.38	119.60
85	5	1483	G	N3-C4-C5	-12.82	122.19	128.60
85	5	2837	A	O5'-P-OP2	-12.81	94.17	105.70
80	6	1382	A	O5'-P-OP1	12.81	126.08	110.70
85	5	656	A	C5-C6-N6	-12.81	113.45	123.70
36	1	358	G	C5-C6-N1	12.81	117.91	111.50
85	5	1648	A	C2-N3-C4	-12.81	104.19	110.60
36	1	1294	A	N1-C6-N6	-12.81	110.91	118.60
85	5	509	U	N3-C4-C5	-12.81	106.91	114.60
85	5	3172	A	C5-C6-N1	12.81	124.11	117.70
1	2	1637	G	N3-C4-C5	-12.81	122.20	128.60
36	1	2371	G	O5'-P-OP2	-12.81	94.17	105.70
38	4	7	U	N3-C4-O4	12.81	128.37	119.40
85	5	2319	U	C6-N1-C2	-12.80	113.32	121.00
36	1	2808	A	C5-C6-N6	-12.80	113.46	123.70
80	6	323	A	C8-N9-C4	-12.80	100.68	105.80
85	5	3327	G	C2-N3-C4	-12.80	105.50	111.90
36	1	2601	A	C8-N9-C4	12.80	110.92	105.80
85	5	1330	A	C8-N9-C4	-12.80	100.68	105.80
36	1	3266	G	C4-C5-N7	-12.80	105.68	110.80
80	6	331	A	N1-C2-N3	12.79	135.70	129.30
85	5	809	G	C8-N9-C4	-12.79	101.28	106.40
85	5	1438	U	N3-C4-C5	-12.79	106.92	114.60
85	5	2888	U	N3-C2-O2	-12.79	113.24	122.20
36	1	1440	G	O5'-P-OP2	-12.79	94.19	105.70
38	4	69	U	C5-C6-N1	-12.79	116.30	122.70
85	5	1088	U	C6-N1-C2	-12.79	113.33	121.00
85	5	2603	G	N3-C4-N9	-12.79	118.33	126.00
1	2	245	U	N3-C4-O4	-12.79	110.45	119.40
80	6	1781	A	C8-N9-C4	-12.79	100.69	105.80
85	5	2381	G	N7-C8-N9	12.79	119.49	113.10
85	5	2850	G	C6-C5-N7	-12.79	122.73	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2914	G	C5-C6-N1	12.79	117.89	111.50
85	5	2984	C	C4-C5-C6	12.79	123.79	117.40
85	5	142	C	C6-N1-C2	12.79	125.42	120.30
85	5	39	A	C5-N7-C8	-12.78	97.51	103.90
85	5	919	U	C5-C6-N1	-12.79	116.31	122.70
85	5	1772	U	N3-C4-O4	12.79	128.35	119.40
80	6	204	G	C8-N9-C4	-12.78	101.29	106.40
36	1	986	U	N3-C4-C5	12.78	122.27	114.60
36	1	2621	G	C5-C6-O6	-12.78	120.93	128.60
36	1	1472	U	C5-C6-N1	-12.78	116.31	122.70
1	2	1507	A	C8-N9-C4	-12.78	100.69	105.80
36	1	2334	U	C2-N3-C4	-12.78	119.33	127.00
36	1	2629	U	N3-C2-O2	12.78	131.14	122.20
85	5	805	G	N1-C2-N3	12.78	131.57	123.90
85	5	1309	U	OP1-P-OP2	12.78	138.76	119.60
85	5	1004	U	C5-C6-N1	12.77	129.09	122.70
85	5	2239	G	N3-C4-C5	12.77	134.99	128.60
85	5	3141	A	C8-N9-C4	-12.77	100.69	105.80
36	1	307	A	C5-C6-N1	12.77	124.08	117.70
38	4	106	C	C4-C5-C6	12.77	123.78	117.40
36	1	600	G	C4-C5-N7	12.77	115.91	110.80
36	1	2146	C	C6-N1-C2	-12.77	115.19	120.30
85	5	1005	G	C2-N3-C4	-12.77	105.52	111.90
85	5	946	U	C4-C5-C6	12.77	127.36	119.70
80	6	1664	C	C6-N1-C2	12.77	125.41	120.30
85	5	1191	U	C6-N1-C2	12.77	128.66	121.00
36	1	1154	A	N1-C6-N6	-12.76	110.94	118.60
85	5	3302	U	N3-C2-O2	12.76	131.13	122.20
36	1	3278	C	N3-C2-O2	-12.76	112.97	121.90
85	5	2349	U	C5-C4-O4	-12.76	118.24	125.90
85	5	919	U	O5'-P-OP2	-12.76	94.22	105.70
85	5	418	A	C4-C5-N7	12.76	117.08	110.70
36	1	3332	U	C5-C4-O4	-12.75	118.25	125.90
36	1	224	C	N3-C4-C5	-12.75	116.80	121.90
38	8	63	G	O5'-P-OP1	12.75	126.00	110.70
1	2	18	C	C6-N1-C2	-12.75	115.20	120.30
36	1	2983	C	C4-C5-C6	12.75	123.77	117.40
36	1	2125	A	C4-C5-N7	12.75	117.07	110.70
80	6	1663	G	N1-C6-O6	12.75	127.55	119.90
37	7	52	G	C8-N9-C4	12.75	111.50	106.40
36	1	716	A	N9-C4-C5	-12.74	100.70	105.80
36	1	1931	U	N3-C4-O4	-12.74	110.48	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2395	G	N1-C6-O6	12.74	127.55	119.90
36	1	2855	U	C4-C5-C6	12.74	127.35	119.70
36	1	2979	U	O5'-P-OP1	-12.74	94.23	105.70
85	5	1322	U	N1-C2-O2	-12.74	113.88	122.80
36	1	663	C	C6-N1-C2	-12.74	115.20	120.30
1	2	1111	C	N3-C2-O2	-12.74	112.98	121.90
85	5	2300	G	N3-C4-C5	-12.74	122.23	128.60
85	5	2966	G	N7-C8-N9	12.74	119.47	113.10
36	1	104	G	N1-C6-O6	12.74	127.54	119.90
85	5	366	A	C2-N3-C4	-12.74	104.23	110.60
85	5	73	C	C4-C5-C6	12.73	123.77	117.40
85	5	915	A	OP1-P-OP2	12.73	138.70	119.60
85	5	2257	C	C6-N1-C2	-12.73	115.21	120.30
85	5	1879	A	C2-N3-C4	-12.73	104.23	110.60
36	1	1058	U	N3-C4-O4	12.73	128.31	119.40
80	6	1581	C	C6-N1-C2	12.73	125.39	120.30
36	1	1345	G	C2-N3-C4	-12.73	105.53	111.90
85	5	886	C	N3-C4-C5	-12.73	116.81	121.90
36	1	43	A	C5-C6-N1	-12.73	111.34	117.70
36	1	193	C	OP1-P-OP2	-12.73	100.51	119.60
80	6	261	U	N1-C2-O2	12.73	131.71	122.80
36	1	799	G	O5'-P-OP2	-12.72	94.25	105.70
36	1	2427	U	N3-C4-O4	-12.72	110.49	119.40
80	6	557	G	C8-N9-C4	12.72	111.49	106.40
85	5	689	U	C2-N3-C4	-12.72	119.37	127.00
85	5	2353	G	C5-C6-O6	-12.72	120.97	128.60
36	1	1921	A	C2-N3-C4	12.72	116.96	110.60
36	1	2165	G	C8-N9-C4	-12.72	101.31	106.40
80	6	1498	G	N3-C4-N9	-12.72	118.37	126.00
85	5	757	C	C6-N1-C2	12.72	125.39	120.30
36	1	2868	U	N1-C2-O2	12.71	131.70	122.80
85	5	2156	C	C2-N3-C4	-12.71	113.54	119.90
36	1	1831	U	C6-N1-C2	-12.71	113.37	121.00
80	6	46	A	C2-N3-C4	-12.71	104.25	110.60
80	6	110	U	C2-N3-C4	12.71	134.63	127.00
85	5	2847	A	N7-C8-N9	-12.71	107.44	113.80
85	5	206	G	C2-N3-C4	12.71	118.25	111.90
85	5	1671	C	O5'-P-OP1	-12.71	94.26	105.70
85	5	2652	U	C5-C6-N1	12.71	129.05	122.70
85	5	2977	G	N3-C2-N2	-12.70	111.01	119.90
36	1	71	A	N9-C4-C5	12.70	110.88	105.80
36	1	1886	A	N9-C4-C5	12.70	110.88	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	114	U	N1-C2-O2	12.70	131.69	122.80
85	5	2876	C	N3-C4-C5	12.70	126.98	121.90
36	1	625	G	C8-N9-C4	12.70	111.48	106.40
85	5	643	U	N3-C4-O4	12.70	128.29	119.40
85	5	2899	C	C4-C5-C6	12.70	123.75	117.40
85	5	3130	A	C6-N1-C2	-12.70	110.98	118.60
85	5	1178	G	N3-C4-C5	-12.70	122.25	128.60
36	1	426	G	N3-C4-C5	-12.69	122.25	128.60
38	8	117	C	N1-C2-O2	-12.69	111.28	118.90
36	1	360	G	N1-C2-N2	-12.69	104.78	116.20
85	5	809	G	C4-C5-N7	12.69	115.88	110.80
85	5	1124	U	C6-N1-C2	-12.69	113.39	121.00
38	8	121	U	N3-C2-O2	-12.69	113.32	122.20
36	1	337	G	N1-C6-O6	12.69	127.51	119.90
36	1	1304	A	N1-C6-N6	-12.69	110.99	118.60
80	6	96	G	C8-N9-C4	-12.69	101.33	106.40
36	1	143	G	N3-C4-C5	-12.68	122.26	128.60
85	5	2710	C	N3-C2-O2	12.68	130.78	121.90
36	1	3174	A	C8-N9-C4	-12.68	100.73	105.80
1	2	568	G	C8-N9-C4	12.68	111.47	106.40
36	1	1474	A	C8-N9-C4	-12.68	100.73	105.80
85	5	2942	C	C6-N1-C2	-12.68	115.23	120.30
85	5	2995	A	N9-C4-C5	12.68	110.87	105.80
36	1	2412	G	N3-C4-C5	-12.67	122.26	128.60
80	6	576	G	C5-C6-O6	-12.67	121.00	128.60
85	5	640	U	N3-C2-O2	12.67	131.07	122.20
85	5	1197	A	C5-N7-C8	12.67	110.24	103.90
36	1	107	A	C6-N1-C2	-12.67	111.00	118.60
36	1	675	C	C6-N1-C2	-12.67	115.23	120.30
36	1	1904	C	C5-C6-N1	12.67	127.33	121.00
85	5	692	A	N1-C6-N6	12.67	126.20	118.60
85	5	2187	G	C2-N3-C4	-12.67	105.57	111.90
85	5	2553	U	N1-C2-N3	12.67	122.50	114.90
85	5	46	U	N3-C4-O4	12.66	128.26	119.40
85	5	1139	G	C2-N3-C4	-12.66	105.57	111.90
85	5	921	A	N9-C4-C5	12.66	110.86	105.80
85	5	1006	A	N1-C6-N6	-12.66	111.00	118.60
85	5	2702	A	N1-C2-N3	12.66	135.63	129.30
36	1	1182	A	C5-C6-N1	-12.65	111.37	117.70
85	5	2900	A	O5'-P-OP2	-12.65	94.31	105.70
38	8	97	A	C2-N3-C4	-12.65	104.27	110.60
36	1	1797	A	C8-N9-C4	12.65	110.86	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	M6	160	ARG	NE-CZ-NH1	-12.65	113.97	120.30
80	6	25	C	N1-C2-O2	12.65	126.49	118.90
85	5	3225	C	C5-C6-N1	12.65	127.33	121.00
36	1	1289	G	N1-C6-O6	12.65	127.49	119.90
80	6	1019	A	C8-N9-C4	12.65	110.86	105.80
85	5	106	A	N9-C4-C5	-12.65	100.74	105.80
85	5	2856	G	OP2-P-O3'	12.65	133.03	105.20
36	1	319	A	C5-C6-N6	12.64	133.82	123.70
38	4	116	G	C2-N3-C4	-12.64	105.58	111.90
36	1	2412	G	N1-C6-O6	-12.64	112.31	119.90
80	6	58	U	N3-C4-C5	-12.64	107.02	114.60
85	5	788	C	C4-C5-C6	12.64	123.72	117.40
85	5	1190	A	N9-C4-C5	12.64	110.86	105.80
85	5	1497	C	N3-C4-N4	12.64	126.85	118.00
36	1	1385	C	OP1-P-OP2	12.64	138.56	119.60
85	5	36	C	N3-C2-O2	-12.64	113.05	121.90
85	5	1349	G	N7-C8-N9	-12.64	106.78	113.10
85	5	2976	A	N1-C6-N6	-12.64	111.02	118.60
36	1	1769	G	C5-C6-O6	-12.64	121.02	128.60
36	1	2293	C	N3-C4-N4	12.63	126.84	118.00
85	5	3036	G	C4-C5-C6	12.64	126.38	118.80
85	5	1083	G	N1-C6-O6	-12.63	112.32	119.90
85	5	2704	A	O5'-P-OP1	-12.63	94.33	105.70
85	5	2919	A	C8-N9-C4	12.63	110.85	105.80
85	5	3039	C	N1-C2-N3	12.63	128.04	119.20
85	5	343	U	N1-C2-N3	12.63	122.48	114.90
85	5	2386	A	C8-N9-C4	-12.63	100.75	105.80
85	5	2615	G	C5-C6-O6	-12.63	121.02	128.60
36	1	425	G	N1-C2-N3	12.62	131.47	123.90
36	1	815	G	O5'-P-OP2	-12.62	94.34	105.70
36	1	1175	C	C6-N1-C2	12.62	125.35	120.30
36	1	2650	U	O5'-P-OP1	-12.62	94.34	105.70
85	5	1673	G	C6-N1-C2	-12.62	117.53	125.10
85	5	3347	A	C8-N9-C4	12.62	110.85	105.80
85	5	3350	C	C5-C6-N1	12.62	127.31	121.00
85	5	1012	G	N3-C4-C5	12.62	134.91	128.60
80	6	1107	G	OP1-P-OP2	12.62	138.52	119.60
36	1	773	G	N3-C2-N2	-12.61	111.07	119.90
85	5	1909	A	C4-C5-N7	12.61	117.01	110.70
85	5	2626	A	N9-C4-C5	12.62	110.85	105.80
1	2	813	U	N1-C2-O2	12.61	131.63	122.80
36	1	3128	G	C8-N9-C4	-12.61	101.36	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	994	G	N3-C4-C5	-12.61	122.29	128.60
38	4	80	A	O5'-P-OP2	-12.61	94.35	105.70
80	6	25	C	C5-C6-N1	12.61	127.31	121.00
80	6	423	G	C8-N9-C1'	12.61	143.39	127.00
85	5	30	G	OP1-P-OP2	-12.61	100.69	119.60
85	5	215	G	O5'-P-OP1	-12.61	94.35	105.70
38	4	154	C	N1-C2-O2	-12.61	111.34	118.90
85	5	1323	G	N1-C6-O6	-12.60	112.34	119.90
38	4	144	G	C5-C6-O6	12.60	136.16	128.60
85	5	215	G	C5-C6-O6	12.60	136.16	128.60
85	5	356	C	N1-C2-O2	-12.60	111.34	118.90
85	5	658	G	C6-C5-N7	-12.60	122.84	130.40
36	1	440	A	N1-C2-N3	-12.60	123.00	129.30
85	5	583	G	N1-C6-O6	12.60	127.46	119.90
85	5	3335	A	C5-C6-N6	-12.60	113.62	123.70
85	5	339	C	C5-C6-N1	12.59	127.30	121.00
36	1	3344	A	N7-C8-N9	12.59	120.10	113.80
85	5	1824	U	N1-C2-N3	12.59	122.45	114.90
36	1	425	G	C2-N3-C4	-12.59	105.61	111.90
80	6	938	G	O5'-P-OP1	-12.59	94.37	105.70
85	5	1069	C	N3-C4-N4	-12.59	109.19	118.00
36	1	1495	U	C4-C5-C6	12.59	127.25	119.70
36	1	971	G	C5-C6-N1	12.58	117.79	111.50
36	1	2691	A	C8-N9-C4	12.58	110.83	105.80
37	3	120	C	C4-C5-C6	12.58	123.69	117.40
52	M6	49	ARG	NE-CZ-NH1	12.58	126.59	120.30
36	1	935	U	C4-C5-C6	12.58	127.25	119.70
80	6	1213	G	C6-C5-N7	-12.58	122.85	130.40
36	1	3305	A	C8-N9-C4	-12.58	100.77	105.80
85	5	3136	G	C6-N1-C2	-12.58	117.55	125.10
36	1	1434	G	N1-C6-O6	12.57	127.44	119.90
85	5	2747	A	OP1-P-OP2	-12.57	100.74	119.60
85	5	3019	U	N3-C2-O2	-12.57	113.40	122.20
85	5	433	A	C2-N3-C4	-12.57	104.31	110.60
85	5	2643	A	N1-C6-N6	12.57	126.14	118.60
36	1	1289	G	C5-C6-N1	-12.57	105.22	111.50
36	1	1759	C	C5-C6-N1	-12.57	114.72	121.00
36	1	2121	G	C5-N7-C8	12.57	110.58	104.30
36	1	2628	A	C8-N9-C4	-12.57	100.77	105.80
85	5	641	C	C5-C6-N1	12.57	127.28	121.00
85	5	798	G	N7-C8-N9	12.57	119.38	113.10
80	6	420	A	C8-N9-C4	-12.56	100.77	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2657	A	N1-C6-N6	-12.56	111.06	118.60
38	4	14	C	N1-C2-N3	-12.56	110.41	119.20
85	5	2629	U	N3-C2-O2	12.56	131.00	122.20
36	1	1794	G	N1-C6-O6	12.56	127.44	119.90
85	5	1362	G	N1-C6-O6	-12.56	112.36	119.90
37	7	77	G	C4-C5-N7	-12.56	105.78	110.80
36	1	199	A	C8-N9-C4	-12.56	100.78	105.80
36	1	1140	G	C5-C6-N1	-12.56	105.22	111.50
36	1	1459	C	C6-N1-C2	-12.55	115.28	120.30
36	1	2772	C	N3-C2-O2	-12.55	113.11	121.90
36	1	2799	A	N1-C2-N3	12.56	135.58	129.30
36	1	180	C	N1-C2-O2	12.55	126.43	118.90
36	1	960	U	N1-C2-N3	-12.55	107.37	114.90
85	5	867	G	N1-C6-O6	12.55	127.43	119.90
85	5	2326	A	N7-C8-N9	-12.55	107.52	113.80
85	5	2758	A	C8-N9-C4	-12.55	100.78	105.80
85	5	2851	A	O5'-P-OP1	12.55	125.76	110.70
36	1	2706	G	N1-C6-O6	12.55	127.43	119.90
85	5	808	A	C8-N9-C4	-12.55	100.78	105.80
37	7	77	G	C5-N7-C8	12.55	110.58	104.30
36	1	168	U	N3-C2-O2	-12.55	113.42	122.20
85	5	2933	A	C5-C6-N1	12.55	123.97	117.70
36	1	1678	G	N7-C8-N9	12.55	119.37	113.10
1	2	1486	A	C8-N9-C4	-12.54	100.78	105.80
85	5	1673	G	N3-C4-C5	-12.55	122.33	128.60
37	7	10	C	C5-C6-N1	-12.55	114.73	121.00
36	1	1694	U	C5-C6-N1	-12.54	116.43	122.70
85	5	1473	G	C8-N9-C4	12.54	111.42	106.40
1	2	538	A	N9-C4-C5	-12.54	100.78	105.80
36	1	60	A	O5'-P-OP2	-12.54	94.41	105.70
85	5	3187	A	C8-N9-C4	12.54	110.82	105.80
1	2	1584	G	O5'-P-OP2	-12.54	94.42	105.70
85	5	911	C	C5-C6-N1	12.54	127.27	121.00
85	5	2995	A	C8-N9-C4	-12.54	100.78	105.80
36	1	935	U	N1-C2-N3	12.54	122.42	114.90
36	1	1154	A	N9-C4-C5	12.54	110.81	105.80
85	5	1111	U	N3-C4-C5	12.54	122.12	114.60
85	5	3052	G	C5-C6-O6	12.54	136.12	128.60
36	1	644	G	C5-C6-O6	12.54	136.12	128.60
36	1	1043	C	OP1-P-OP2	-12.53	100.80	119.60
1	2	1107	A	C5-C6-N1	-12.53	111.43	117.70
1	2	110	U	N3-C2-O2	-12.53	113.43	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	583	G	C2-N3-C4	-12.53	105.64	111.90
36	1	1927	G	C2-N3-C4	-12.53	105.64	111.90
85	5	2665	U	C5-C6-N1	12.53	128.97	122.70
85	5	2924	U	N3-C2-O2	-12.53	113.43	122.20
85	5	2966	G	C8-N9-C4	-12.53	101.39	106.40
85	5	3239	G	C5-C6-O6	-12.53	121.08	128.60
80	6	1155	G	C8-N9-C4	-12.53	101.39	106.40
36	1	3026	G	C2-N3-C4	-12.53	105.64	111.90
85	5	948	C	O5'-P-OP1	12.53	125.73	110.70
85	5	1729	A	C8-N9-C4	-12.53	100.79	105.80
38	8	92	A	N7-C8-N9	12.53	120.06	113.80
36	1	197	G	C5-N7-C8	-12.52	98.04	104.30
36	1	434	U	C5-C6-N1	-12.52	116.44	122.70
36	1	970	A	C6-N1-C2	-12.52	111.09	118.60
85	5	2678	A	N1-C6-N6	-12.52	111.09	118.60
36	1	299	G	C5-C6-N1	-12.52	105.24	111.50
36	1	2754	G	N1-C2-N3	12.52	131.41	123.90
85	5	1161	G	C2-N3-C4	12.52	118.16	111.90
36	1	965	A	N1-C6-N6	-12.52	111.09	118.60
85	5	50	U	C5-C4-O4	-12.52	118.39	125.90
85	5	73	C	C5-C6-N1	-12.52	114.74	121.00
85	5	795	G	C6-C5-N7	-12.52	122.89	130.40
85	5	1171	G	N3-C2-N2	-12.52	111.14	119.90
85	5	1674	G	C5-C6-O6	12.52	136.11	128.60
85	5	777	U	C5-C4-O4	-12.51	118.39	125.90
85	5	2316	G	C5-C6-O6	12.51	136.11	128.60
85	5	1152	G	C2-N3-C4	-12.51	105.64	111.90
36	1	2812	C	C6-N1-C2	12.51	125.30	120.30
85	5	56	G	C5-C6-O6	-12.51	121.09	128.60
85	5	2811	A	N1-C6-N6	-12.51	111.10	118.60
36	1	1364	C	C5-C4-N4	-12.51	111.45	120.20
37	3	40	C	C6-N1-C2	-12.51	115.30	120.30
80	6	1755	A	C8-N9-C4	-12.51	100.80	105.80
1	2	1128	U	N1-C2-O2	-12.50	114.05	122.80
36	1	843	A	C2-N3-C4	-12.50	104.35	110.60
36	1	2224	A	C5-C6-N1	12.50	123.95	117.70
80	6	1727	G	C4-C5-C6	12.50	126.30	118.80
85	5	36	C	C2-N3-C4	-12.50	113.65	119.90
36	1	3309	G	C2-N3-C4	-12.50	105.65	111.90
85	5	220	G	OP1-P-OP2	12.50	138.35	119.60
1	2	1098	U	C5-C6-N1	-12.49	116.45	122.70
36	1	2859	U	N3-C2-O2	12.49	130.95	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	659	G	C8-N9-C4	-12.49	101.40	106.40
36	1	2379	U	N1-C2-O2	-12.49	114.06	122.80
85	5	2774	C	C4-C5-C6	12.49	123.64	117.40
36	1	1426	C	C4-C5-C6	12.49	123.64	117.40
36	1	1527	C	N3-C4-C5	12.49	126.89	121.90
85	5	645	A	C5-C6-N1	12.48	123.94	117.70
85	5	1909	A	C8-N9-C4	-12.48	100.81	105.80
85	5	715	A	C5-C6-N1	12.48	123.94	117.70
38	8	81	U	N3-C4-O4	-12.48	110.66	119.40
85	5	355	A	C8-N9-C4	-12.48	100.81	105.80
85	5	2405	C	O5'-P-OP2	-12.48	94.47	105.70
85	5	3315	G	C8-N9-C4	-12.48	101.41	106.40
36	1	684	G	N1-C6-O6	12.47	127.39	119.90
85	5	122	A	N1-C6-N6	-12.47	111.11	118.60
85	5	674	G	O5'-P-OP1	12.47	125.67	110.70
85	5	788	C	N1-C2-O2	-12.47	111.42	118.90
85	5	2973	G	N1-C2-N3	12.47	131.38	123.90
36	1	1193	A	N1-C2-N3	-12.47	123.06	129.30
36	1	1685	C	N1-C2-O2	12.47	126.38	118.90
85	5	2335	G	C5-C6-N1	12.47	117.74	111.50
80	6	1673	G	N1-C6-O6	12.47	127.38	119.90
36	1	843	A	C5-C6-N1	-12.47	111.47	117.70
36	1	1888	U	N1-C2-N3	12.47	122.38	114.90
36	1	581	U	O5'-P-OP2	12.46	125.66	110.70
36	1	2138	A	C8-N9-C4	-12.46	100.81	105.80
85	5	2351	U	N3-C4-O4	-12.46	110.67	119.40
1	2	442	C	C6-N1-C2	-12.46	115.31	120.30
36	1	569	A	C8-N9-C4	12.46	110.78	105.80
36	1	968	G	C5-C6-N1	12.46	117.73	111.50
36	1	1394	A	C5-C6-N1	12.46	123.93	117.70
36	1	3021	A	N1-C6-N6	-12.46	111.12	118.60
36	1	2403	G	OP1-P-OP2	-12.46	100.91	119.60
80	6	1014	G	C2-N3-C4	-12.46	105.67	111.90
36	1	52	A	C5-C6-N1	12.46	123.93	117.70
36	1	2691	A	N1-C6-N6	-12.46	111.13	118.60
38	4	32	C	O5'-P-OP1	12.46	125.65	110.70
36	1	2364	G	O5'-P-OP2	-12.46	94.49	105.70
36	1	2937	G	C6-C5-N7	12.46	137.87	130.40
85	5	1462	A	N1-C6-N6	12.46	126.07	118.60
36	1	1211	U	C5-C6-N1	-12.45	116.47	122.70
36	1	2965	U	N1-C2-O2	-12.45	114.09	122.80
36	1	2983	C	N1-C2-N3	12.44	127.91	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1537	C	C5-C6-N1	12.45	127.22	121.00
85	5	2250	G	C8-N9-C4	12.44	111.38	106.40
85	5	2942	C	N3-C4-N4	12.44	126.71	118.00
38	8	117	C	N3-C4-C5	-12.45	116.92	121.90
1	2	1637	G	C6-N1-C2	-12.44	117.64	125.10
85	5	2701	U	C5-C4-O4	-12.44	118.44	125.90
85	5	2830	G	C5-N7-C8	12.44	110.52	104.30
36	1	1380	G	N1-C2-N3	12.44	131.36	123.90
85	5	1935	G	N3-C4-N9	-12.44	118.54	126.00
80	6	678	A	C5-C6-N1	12.44	123.92	117.70
36	1	3011	A	C8-N9-C4	12.43	110.77	105.80
85	5	609	G	C2-N3-C4	-12.43	105.68	111.90
36	1	678	G	C6-C5-N7	-12.43	122.94	130.40
36	1	267	G	C5-C6-O6	-12.43	121.14	128.60
36	1	934	G	C5-N7-C8	-12.43	98.08	104.30
85	5	599	C	N1-C2-O2	-12.43	111.44	118.90
36	1	3133	C	N3-C4-C5	-12.43	116.93	121.90
85	5	98	G	C6-N1-C2	-12.43	117.64	125.10
85	5	2374	C	O5'-P-OP2	-12.43	94.51	105.70
85	5	3206	C	N1-C2-O2	12.43	126.36	118.90
85	5	2976	A	C4-C5-N7	-12.43	104.49	110.70
36	1	2754	G	N1-C2-N2	-12.43	105.02	116.20
85	5	1201	C	O5'-P-OP1	-12.43	94.52	105.70
85	5	2613	U	C5-C4-O4	12.42	133.35	125.90
37	7	6	C	C2-N3-C4	-12.42	113.69	119.90
36	1	2364	G	N3-C2-N2	-12.42	111.21	119.90
36	1	2400	G	C5-C6-O6	-12.42	121.15	128.60
80	6	951	A	C8-N9-C4	12.42	110.77	105.80
85	5	933	A	C5-C6-N1	12.42	123.91	117.70
36	1	1520	G	C2-N3-C4	12.41	118.11	111.90
38	4	79	A	C8-N9-C4	12.41	110.77	105.80
85	5	795	G	C5-C6-N1	-12.41	105.29	111.50
36	1	1703	U	C6-N1-C2	-12.41	113.56	121.00
36	1	2363	A	N1-C6-N6	-12.41	111.15	118.60
85	5	921	A	C8-N9-C4	-12.41	100.84	105.80
85	5	3026	G	N1-C6-O6	12.41	127.34	119.90
36	1	2685	C	N3-C4-C5	-12.41	116.94	121.90
85	5	920	A	C5-N7-C8	-12.41	97.70	103.90
85	5	1133	A	O5'-P-OP1	12.40	125.59	110.70
85	5	1375	G	N3-C4-N9	-12.40	118.56	126.00
38	8	33	A	O5'-P-OP2	12.40	125.59	110.70
36	1	2908	G	C6-N1-C2	-12.40	117.66	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2388	U	N1-C2-O2	-12.40	114.12	122.80
85	5	2858	U	C6-N1-C2	-12.40	113.56	121.00
36	1	1160	C	O5'-P-OP1	-12.40	94.54	105.70
36	1	3216	G	C8-N9-C4	-12.39	101.44	106.40
85	5	221	A	O5'-P-OP1	-12.39	94.55	105.70
85	5	1450	G	N1-C6-O6	12.39	127.34	119.90
1	2	607	G	N1-C6-O6	12.39	127.33	119.90
85	5	798	G	C5-N7-C8	-12.39	98.11	104.30
85	5	1083	G	C5-C6-O6	12.39	136.03	128.60
85	5	2208	A	C5-C6-N6	12.39	133.61	123.70
85	5	2379	U	C5-C4-O4	12.39	133.33	125.90
85	5	897	U	OP1-P-O3'	12.39	132.46	105.20
36	1	2323	G	N1-C6-O6	-12.39	112.47	119.90
85	5	704	U	C6-N1-C2	-12.39	113.57	121.00
85	5	707	U	N1-C2-N3	12.39	122.33	114.90
85	5	1790	G	N1-C2-N3	12.39	131.33	123.90
38	8	125	U	C5-C6-N1	12.39	128.90	122.70
36	1	1852	G	N3-C4-C5	12.39	134.79	128.60
85	5	1408	G	C6-N1-C2	-12.38	117.67	125.10
36	1	2098	C	C6-N1-C2	-12.38	115.35	120.30
85	5	2602	G	C2-N3-C4	-12.38	105.71	111.90
85	5	2636	A	C2-N3-C4	12.38	116.79	110.60
36	1	701	G	N1-C2-N3	12.38	131.33	123.90
85	5	2335	G	N1-C2-N2	-12.37	105.06	116.20
36	1	928	C	N3-C4-C5	12.37	126.85	121.90
85	5	1292	C	O5'-P-OP2	-12.37	94.56	105.70
36	1	76	G	C6-N1-C2	-12.37	117.68	125.10
36	1	3273	A	C6-N1-C2	-12.37	111.18	118.60
80	6	1754	A	O5'-P-OP1	-12.37	94.57	105.70
37	3	74	C	N3-C4-C5	12.37	126.85	121.90
36	1	2362	C	C5-C6-N1	12.37	127.18	121.00
85	5	1729	A	N7-C8-N9	12.36	119.98	113.80
36	1	672	A	N1-C2-N3	12.36	135.48	129.30
80	6	53	G	N1-C2-N3	12.36	131.32	123.90
85	5	425	G	N1-C6-O6	12.36	127.32	119.90
85	5	725	G	O5'-P-OP2	-12.36	94.58	105.70
85	5	808	A	C5-C6-N1	12.36	123.88	117.70
85	5	1155	C	N3-C4-N4	12.36	126.65	118.00
36	1	672	A	C6-C5-N7	-12.36	123.65	132.30
36	1	18	G	N1-C6-O6	12.36	127.31	119.90
85	5	2968	G	C5-C6-N1	12.36	117.68	111.50
85	5	2979	U	N1-C2-O2	12.36	131.45	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	88	U	N3-C2-O2	-12.36	113.55	122.20
36	1	1003	A	C2-N3-C4	-12.36	104.42	110.60
85	5	397	A	C6-N1-C2	-12.36	111.19	118.60
85	5	511	G	C5-C6-N1	-12.36	105.32	111.50
85	5	629	U	N3-C2-O2	12.36	130.85	122.20
37	7	76	A	C2-N3-C4	-12.36	104.42	110.60
36	1	3130	A	N1-C2-N3	12.35	135.48	129.30
85	5	434	U	N1-C2-O2	-12.35	114.15	122.80
85	5	2527	G	C8-N9-C4	12.35	111.34	106.40
36	1	2943	G	C6-C5-N7	-12.35	122.99	130.40
38	4	40	A	N7-C8-N9	12.35	119.97	113.80
85	5	2129	U	N1-C2-N3	12.35	122.31	114.90
36	1	891	G	C8-N9-C4	12.35	111.34	106.40
36	1	2363	A	C5-C6-N6	12.35	133.58	123.70
85	5	674	G	OP1-P-OP2	-12.35	101.08	119.60
36	1	918	C	N1-C2-O2	-12.34	111.49	118.90
36	1	942	U	O5'-P-OP2	-12.34	94.59	105.70
36	1	3229	G	N1-C6-O6	12.34	127.30	119.90
36	1	73	C	N3-C4-C5	-12.34	116.97	121.90
36	1	1353	U	O5'-P-OP2	-12.34	94.60	105.70
36	1	1368	U	C5-C4-O4	-12.34	118.50	125.90
36	1	1459	C	N1-C2-O2	-12.34	111.50	118.90
36	1	2614	G	O5'-P-OP2	-12.34	94.60	105.70
36	1	2940	A	C2-N3-C4	12.34	116.77	110.60
80	6	558	U	O5'-P-OP2	-12.34	94.60	105.70
85	5	933	A	O5'-P-OP2	-12.34	94.60	105.70
36	1	363	G	C6-N1-C2	-12.33	117.70	125.10
36	1	2610	G	N1-C2-N3	12.33	131.30	123.90
85	5	1165	A	N1-C6-N6	-12.33	111.20	118.60
85	5	2284	C	N1-C2-O2	12.33	126.30	118.90
38	4	52	A	N9-C4-C5	12.33	110.73	105.80
80	6	871	G	C4-C5-C6	12.33	126.20	118.80
85	5	2752	U	O5'-P-OP1	-12.33	94.60	105.70
85	5	2956	A	C2-N3-C4	-12.33	104.43	110.60
80	6	643	G	C5-C6-O6	-12.33	121.20	128.60
85	5	3327	G	C8-N9-C4	-12.33	101.47	106.40
1	2	1263	C	N3-C4-C5	-12.33	116.97	121.90
36	1	934	G	N7-C8-N9	12.33	119.26	113.10
85	5	678	G	C5-C6-N1	-12.33	105.34	111.50
85	5	920	A	OP1-P-OP2	-12.33	101.11	119.60
85	5	1306	G	C8-N9-C4	-12.33	101.47	106.40
36	1	96	G	O5'-P-OP1	12.32	125.49	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3109	G	C5-C6-N1	12.32	117.66	111.50
38	8	25	G	O5'-P-OP2	-12.32	94.61	105.70
85	5	3138	U	N3-C4-O4	12.32	128.03	119.40
85	5	2273	G	N9-C4-C5	12.32	110.33	105.40
85	5	2933	A	C6-N1-C2	-12.32	111.21	118.60
85	5	3119	U	N3-C2-O2	12.32	130.82	122.20
1	2	1093	G	N1-C6-O6	-12.31	112.51	119.90
36	1	684	G	N9-C4-C5	-12.31	100.47	105.40
80	6	1773	C	N3-C4-C5	-12.31	116.97	121.90
85	5	1198	C	N3-C4-C5	12.31	126.83	121.90
85	5	2950	G	C8-N9-C4	-12.31	101.47	106.40
85	5	291	C	C4-C5-C6	12.31	123.56	117.40
85	5	564	G	C5-C6-O6	-12.31	121.21	128.60
85	5	1041	U	C6-N1-C2	12.31	128.39	121.00
85	5	1908	A	C8-N9-C4	-12.31	100.88	105.80
36	1	1367	G	N1-C6-O6	12.31	127.28	119.90
80	6	119	A	C5-C6-N1	-12.31	111.55	117.70
85	5	2346	C	N3-C4-C5	-12.31	116.98	121.90
85	5	2374	C	C2-N3-C4	-12.31	113.75	119.90
85	5	944	C	N3-C4-C5	-12.31	116.98	121.90
36	1	1377	G	C5-C6-O6	-12.30	121.22	128.60
36	1	1801	U	C5-C6-N1	-12.30	116.55	122.70
38	4	92	A	C5-C6-N1	-12.30	111.55	117.70
38	4	102	U	C4-C5-C6	12.30	127.08	119.70
85	5	783	A	C2-N3-C4	-12.30	104.45	110.60
36	1	337	G	C5-C6-N1	-12.30	105.35	111.50
36	1	2637	A	C5-C6-N1	12.30	123.85	117.70
36	1	3311	C	C4-C5-C6	-12.30	111.25	117.40
85	5	725	G	C5-N7-C8	12.30	110.45	104.30
85	5	1671	C	O5'-P-OP2	12.30	125.46	110.70
36	1	963	G	N1-C6-O6	12.30	127.28	119.90
36	1	600	G	C6-C5-N7	-12.29	123.02	130.40
85	5	215	G	O5'-P-OP2	12.29	125.45	110.70
85	5	908	G	C4-C5-N7	12.29	115.72	110.80
85	5	1332	A	C2-N3-C4	-12.29	104.45	110.60
85	5	1488	G	C5-C6-O6	-12.30	121.22	128.60
85	5	2814	G	O5'-P-OP2	12.29	125.45	110.70
36	1	575	G	N3-C2-N2	-12.29	111.30	119.90
36	1	3091	A	C2-N3-C4	-12.29	104.45	110.60
85	5	630	A	C5-C6-N6	12.29	133.53	123.70
36	1	229	G	N3-C2-N2	-12.29	111.30	119.90
85	5	229	G	C2-N3-C4	-12.29	105.76	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2915	U	N3-C2-O2	12.29	130.80	122.20
36	1	654	C	C6-N1-C2	-12.29	115.39	120.30
80	6	482	U	C5-C6-N1	12.29	128.84	122.70
85	5	668	G	O5'-P-OP2	-12.28	94.64	105.70
85	5	2880	U	O5'-P-OP1	-12.28	94.64	105.70
36	1	80	G	C5-C6-O6	12.28	135.97	128.60
80	6	335	U	C6-N1-C2	-12.28	113.63	121.00
36	1	1050	U	N3-C2-O2	-12.28	113.60	122.20
85	5	3271	G	C2-N3-C4	12.28	118.04	111.90
36	1	80	G	C8-N9-C4	12.28	111.31	106.40
38	4	96	A	C5-C6-N1	12.28	123.84	117.70
1	2	598	U	N1-C2-N3	12.28	122.27	114.90
36	1	2816	G	N1-C2-N3	12.28	131.27	123.90
85	5	1321	G	N1-C6-O6	12.28	127.27	119.90
36	1	25	U	N3-C4-O4	12.27	127.99	119.40
36	1	633	C	C5-C6-N1	-12.27	114.86	121.00
36	1	2169	G	C5-N7-C8	12.27	110.44	104.30
85	5	2406	C	N3-C4-N4	12.27	126.59	118.00
36	1	3362	A	N7-C8-N9	12.27	119.94	113.80
85	5	1330	A	C5-C6-N1	12.27	123.84	117.70
85	5	2333	C	N3-C2-O2	12.27	130.49	121.90
36	1	1193	A	C4-C5-N7	12.27	116.83	110.70
38	4	61	A	O5'-P-OP1	-12.27	94.66	105.70
80	6	122	U	N1-C2-N3	-12.27	107.54	114.90
85	5	2239	G	C5-N7-C8	-12.27	98.17	104.30
36	1	1450	G	C5-N7-C8	-12.27	98.17	104.30
36	1	935	U	N1-C2-O2	-12.27	114.21	122.80
36	1	2983	C	O5'-P-OP1	-12.27	94.66	105.70
85	5	327	A	O5'-P-OP2	-12.27	94.66	105.70
36	1	806	A	C8-N9-C4	12.26	110.71	105.80
36	1	1515	A	OP1-P-OP2	-12.26	101.20	119.60
85	5	2404	A	O5'-P-OP2	-12.26	94.66	105.70
1	2	1588	G	C2-N3-C4	-12.26	105.77	111.90
36	1	662	U	C5-C6-N1	12.26	128.83	122.70
36	1	2617	U	N3-C2-O2	-12.26	113.62	122.20
85	5	366	A	N1-C2-N3	12.26	135.43	129.30
85	5	1193	A	C2-N3-C4	-12.26	104.47	110.60
85	5	3245	A	C6-C5-N7	-12.26	123.72	132.30
80	6	1131	A	N7-C8-N9	12.26	119.93	113.80
85	5	899	U	N1-C2-N3	12.26	122.25	114.90
1	2	1083	G	N1-C6-O6	12.26	127.25	119.90
85	5	1117	G	C4-C5-N7	12.26	115.70	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1197	A	C6-N1-C2	-12.26	111.25	118.60
85	5	1440	G	N3-C4-N9	-12.26	118.64	126.00
85	5	3008	A	C8-N9-C4	12.26	110.70	105.80
38	8	130	C	C6-N1-C2	-12.26	115.40	120.30
36	1	2601	A	C5-C6-N1	12.25	123.83	117.70
36	1	2691	A	O5'-P-OP1	12.25	125.40	110.70
85	5	774	G	C4-C5-N7	-12.25	105.90	110.80
36	1	2350	C	C4-C5-C6	12.25	123.53	117.40
38	4	63	G	C5-C6-N1	12.25	117.63	111.50
38	4	137	C	N3-C4-N4	12.25	126.58	118.00
85	5	508	U	O5'-P-OP1	-12.25	94.67	105.70
1	2	1726	U	N3-C4-C5	-12.25	107.25	114.60
36	1	919	U	O5'-P-OP1	12.25	125.40	110.70
85	5	2764	C	N3-C4-C5	12.25	126.80	121.90
85	5	2912	G	C8-N9-C4	-12.25	101.50	106.40
80	6	122	U	C2-N1-C1'	-12.24	103.01	117.70
80	6	742	U	N3-C2-O2	12.24	130.77	122.20
85	5	358	G	C6-C5-N7	-12.24	123.05	130.40
85	5	3061	G	O5'-P-OP2	12.24	125.39	110.70
36	1	1825	G	C4-C5-N7	12.24	115.70	110.80
85	5	154	U	N3-C4-O4	12.24	127.97	119.40
37	7	45	A	C6-N1-C2	-12.24	111.25	118.60
36	1	700	C	N3-C4-C5	-12.24	117.00	121.90
36	1	1156	C	C5-C6-N1	-12.24	114.88	121.00
36	1	2791	G	N3-C2-N2	-12.24	111.33	119.90
36	1	787	G	C5-C6-O6	-12.23	121.26	128.60
36	1	924	G	N7-C8-N9	12.23	119.22	113.10
36	1	1100	U	N1-C2-O2	-12.23	114.24	122.80
36	1	1100	U	N3-C2-O2	12.23	130.76	122.20
85	5	230	U	N1-C2-N3	12.23	122.24	114.90
85	5	2821	C	N3-C2-O2	12.23	130.46	121.90
38	8	21	C	O5'-P-OP1	-12.23	94.69	105.70
80	6	652	G	C4-C5-N7	-12.23	105.91	110.80
36	1	2697	A	N1-C6-N6	-12.23	111.26	118.60
85	5	604	G	N1-C6-O6	12.23	127.24	119.90
85	5	3037	U	N1-C2-O2	-12.23	114.24	122.80
85	5	2752	U	N1-C2-N3	12.23	122.24	114.90
85	5	1401	A	C5-C6-N6	-12.22	113.92	123.70
80	6	1117	U	C5-C4-O4	-12.22	118.57	125.90
85	5	2788	C	N3-C2-O2	12.22	130.46	121.90
37	7	77	G	C2-N3-C4	12.22	118.01	111.90
1	2	1563	C	C6-N1-C2	12.22	125.19	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	400	G	N7-C8-N9	12.22	119.21	113.10
36	1	647	A	OP1-P-OP2	-12.22	101.27	119.60
85	5	1306	G	C4-C5-N7	12.22	115.69	110.80
36	1	2851	A	C5-C6-N6	12.22	133.47	123.70
85	5	1411	C	O5'-P-OP1	12.22	125.36	110.70
36	1	665	A	C6-N1-C2	-12.22	111.27	118.60
80	6	339	C	C6-N1-C2	-12.22	115.41	120.30
1	2	73	U	N3-C2-O2	-12.21	113.65	122.20
36	1	651	G	N3-C4-C5	-12.21	122.50	128.60
38	4	111	A	C4-C5-C6	12.21	123.11	117.00
80	6	105	A	N1-C6-N6	12.21	125.93	118.60
80	6	702	G	N1-C6-O6	12.21	127.23	119.90
85	5	970	A	C8-N9-C4	12.21	110.69	105.80
85	5	2362	C	N1-C2-O2	12.21	126.23	118.90
85	5	2401	A	C2-N3-C4	12.21	116.71	110.60
1	2	1190	C	C5-C6-N1	-12.21	114.90	121.00
36	1	1391	C	C6-N1-C2	12.21	125.18	120.30
85	5	2649	A	C8-N9-C4	-12.21	100.92	105.80
36	1	1055	A	O5'-P-OP1	-12.20	94.72	105.70
85	5	1370	G	O5'-P-OP2	12.21	125.35	110.70
85	5	508	U	N1-C2-N3	12.20	122.22	114.90
36	1	3016	A	N1-C6-N6	12.20	125.92	118.60
85	5	1492	G	N3-C4-C5	12.20	134.70	128.60
85	5	1849	C	C5-C6-N1	-12.20	114.90	121.00
85	5	3184	A	C5-N7-C8	-12.20	97.80	103.90
91	P	75	C	C5-C4-N4	-12.20	111.66	120.20
85	5	2407	C	O5'-P-OP2	-12.20	94.72	105.70
85	5	3200	G	C5-N7-C8	-12.20	98.20	104.30
85	5	798	G	C8-N9-C4	-12.20	101.52	106.40
85	5	413	U	N3-C4-O4	12.20	127.94	119.40
85	5	2293	C	N3-C2-O2	-12.20	113.36	121.90
85	5	3271	G	C6-N1-C2	-12.20	117.78	125.10
80	6	920	U	C5-C6-N1	12.19	128.80	122.70
85	5	2880	U	N1-C2-N3	12.20	122.22	114.90
38	8	121	U	C6-N1-C2	-12.20	113.68	121.00
80	6	81	G	OP1-P-O3'	12.19	132.02	105.20
85	5	2339	C	C5-C6-N1	12.19	127.10	121.00
80	6	1641	C	N1-C2-O2	-12.19	111.59	118.90
80	6	1070	C	N3-C4-N4	12.19	126.53	118.00
85	5	353	G	O5'-P-OP2	-12.19	94.73	105.70
85	5	2986	U	N3-C4-C5	-12.19	107.29	114.60
36	1	1175	C	N3-C2-O2	12.19	130.43	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1152	G	N1-C6-O6	12.19	127.21	119.90
85	5	1317	A	C5-N7-C8	-12.19	97.81	103.90
85	5	2368	A	N9-C4-C5	12.19	110.67	105.80
36	1	643	U	N3-C4-O4	12.18	127.93	119.40
37	3	79	A	N1-C2-N3	12.18	135.39	129.30
38	4	33	A	C2-N3-C4	-12.18	104.51	110.60
85	5	2339	C	N1-C2-O2	12.18	126.21	118.90
36	1	811	U	N1-C2-N3	12.18	122.21	114.90
36	1	30	G	C2-N3-C4	-12.18	105.81	111.90
36	1	927	C	N3-C4-N4	12.18	126.53	118.00
36	1	2279	A	C8-N9-C4	-12.18	100.93	105.80
37	3	77	G	C8-N9-C4	-12.18	101.53	106.40
85	5	1043	C	C6-N1-C2	12.18	125.17	120.30
37	7	84	A	N9-C4-C5	12.18	110.67	105.80
85	5	2850	G	C4-C5-C6	12.18	126.11	118.80
36	1	2988	C	N1-C2-O2	-12.17	111.59	118.90
85	5	216	G	C6-C5-N7	-12.17	123.10	130.40
85	5	1399	A	N3-C4-C5	12.17	135.32	126.80
85	5	3264	G	N1-C6-O6	12.17	127.20	119.90
36	1	3182	G	C2-N3-C4	-12.17	105.81	111.90
85	5	3173	G	N1-C2-N3	12.17	131.20	123.90
37	7	16	U	C5-C6-N1	-12.17	116.61	122.70
37	7	20	A	N1-C6-N6	-12.17	111.30	118.60
36	1	68	C	C6-N1-C2	12.17	125.17	120.30
36	1	1191	U	N3-C2-O2	12.17	130.72	122.20
36	1	1553	U	N3-C2-O2	12.17	130.72	122.20
1	2	1490	G	O5'-P-OP1	-12.17	94.75	105.70
85	5	2112	U	O5'-P-OP2	-12.17	94.75	105.70
91	p	75	C	C5-C4-N4	-12.17	111.68	120.20
80	6	122	U	C6-N1-C1'	12.16	138.23	121.20
85	5	2142	A	C6-N1-C2	-12.16	111.30	118.60
85	5	2632	G	O5'-P-OP2	-12.16	94.75	105.70
85	5	2661	G	C6-N1-C2	-12.16	117.80	125.10
36	1	653	A	C5-C6-N6	-12.16	113.97	123.70
36	1	878	G	C5-C6-N1	-12.16	105.42	111.50
36	1	2936	A	OP1-P-OP2	-12.16	101.36	119.60
85	5	787	G	C4-C5-C6	12.16	126.10	118.80
36	1	319	A	N1-C6-N6	-12.16	111.31	118.60
36	1	1424	C	N1-C2-O2	-12.16	111.60	118.90
36	1	2501	U	C5-C6-N1	12.16	128.78	122.70
36	1	2945	G	C4-C5-N7	12.16	115.67	110.80
36	1	3228	C	O5'-P-OP1	12.16	125.29	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	122	U	C5-C4-O4	-12.16	118.60	125.90
85	5	32	U	O5'-P-OP2	-12.16	94.76	105.70
1	2	10	G	N1-C6-O6	-12.16	112.61	119.90
36	1	806	A	N9-C4-C5	-12.16	100.94	105.80
85	5	3312	U	C5-C6-N1	12.16	128.78	122.70
36	1	2730	G	N3-C2-N2	-12.16	111.39	119.90
80	6	1051	G	N1-C6-O6	-12.16	112.61	119.90
85	5	1112	A	C6-N1-C2	-12.16	111.31	118.60
85	5	3325	G	N3-C4-C5	12.16	134.68	128.60
36	1	1434	G	C8-N9-C4	-12.15	101.54	106.40
36	1	2350	C	C2-N3-C4	-12.15	113.82	119.90
80	6	1744	A	C8-N9-C4	12.15	110.66	105.80
85	5	1919	G	N3-C2-N2	-12.15	111.39	119.90
37	7	75	G	C5-C6-N1	-12.15	105.42	111.50
80	6	555	A	C5-C6-N1	12.15	123.78	117.70
80	6	1643	U	N1-C2-N3	12.15	122.19	114.90
85	5	811	U	C5-C6-N1	-12.15	116.62	122.70
1	2	1654	A	C2-N3-C4	-12.15	104.52	110.60
36	1	638	C	N3-C4-C5	-12.15	117.04	121.90
36	1	2704	A	N1-C2-N3	12.15	135.38	129.30
38	4	35	C	N1-C2-O2	-12.15	111.61	118.90
85	5	2280	A	N1-C2-N3	12.15	135.38	129.30
85	5	2302	G	C8-N9-C4	-12.15	101.54	106.40
85	5	1293	U	N1-C2-O2	-12.14	114.30	122.80
85	5	1649	U	N1-C2-O2	-12.14	114.30	122.80
36	1	222	A	C5-N7-C8	-12.14	97.83	103.90
80	6	163	G	C2-N3-C4	-12.14	105.83	111.90
85	5	2127	U	C5-C4-O4	-12.14	118.61	125.90
85	5	1788	C	N3-C4-C5	-12.14	117.04	121.90
85	5	3181	C	O5'-P-OP2	-12.14	94.77	105.70
36	1	2215	A	C2-N3-C4	-12.14	104.53	110.60
85	5	2256	A	N1-C2-N3	-12.14	123.23	129.30
85	5	1423	C	N1-C2-O2	-12.14	111.62	118.90
36	1	1413	G	C5-N7-C8	-12.13	98.23	104.30
36	1	2295	A	C8-N9-C4	-12.13	100.95	105.80
1	2	563	U	N3-C2-O2	-12.13	113.71	122.20
36	1	1808	G	C4-C5-N7	-12.13	105.95	110.80
80	6	18	C	C5-C6-N1	12.13	127.06	121.00
85	5	2321	A	OP1-P-OP2	-12.13	101.41	119.60
36	1	1346	G	N3-C2-N2	-12.13	111.41	119.90
36	1	586	C	N3-C2-O2	12.12	130.39	121.90
36	1	3344	A	C5-N7-C8	-12.12	97.84	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2594	C	O5'-P-OP2	-12.13	94.79	105.70
85	5	2316	G	N1-C2-N3	12.12	131.18	123.90
85	5	1879	A	C4-C5-N7	12.12	116.76	110.70
85	5	2887	A	N9-C4-C5	12.12	110.65	105.80
36	1	178	U	N1-C2-O2	12.12	131.28	122.80
36	1	865	U	C5-C6-N1	-12.12	116.64	122.70
38	8	56	G	N1-C6-O6	12.12	127.17	119.90
80	6	322	G	N1-C6-O6	12.12	127.17	119.90
80	6	1586	A	C8-N9-C4	12.12	110.65	105.80
85	5	2231	C	C4-C5-C6	12.12	123.46	117.40
80	6	1109	G	N3-C4-N9	-12.12	118.73	126.00
80	6	478	A	C2-N3-C4	-12.11	104.54	110.60
85	5	776	U	C5-C4-O4	12.11	133.17	125.90
85	5	937	G	C5-N7-C8	12.12	110.36	104.30
85	5	1316	C	N1-C2-O2	-12.11	111.63	118.90
36	1	1490	A	C2-N3-C4	-12.11	104.54	110.60
36	1	3008	A	C5-N7-C8	-12.11	97.84	103.90
85	5	124	U	N3-C2-O2	-12.11	113.72	122.20
85	5	1414	G	C8-N9-C4	-12.11	101.56	106.40
80	6	1368	G	C8-N9-C4	12.11	111.24	106.40
85	5	907	G	C5-C6-N1	12.11	117.55	111.50
85	5	2116	G	C6-C5-N7	-12.11	123.14	130.40
85	5	2372	A	C5-C6-N1	12.11	123.75	117.70
85	5	2898	G	C2-N3-C4	-12.11	105.84	111.90
85	5	2929	C	C2-N3-C4	-12.11	113.84	119.90
85	5	2963	C	N1-C2-O2	-12.11	111.63	118.90
36	1	1351	U	C5-C6-N1	12.11	128.75	122.70
85	5	2608	G	N1-C6-O6	12.11	127.16	119.90
85	5	2769	A	O5'-P-OP2	-12.11	94.81	105.70
1	2	573	C	C6-N1-C2	12.10	125.14	120.30
36	1	3229	G	C5-C6-O6	-12.10	121.34	128.60
85	5	341	G	N3-C4-N9	-12.10	118.74	126.00
36	1	2134	G	N1-C6-O6	-12.10	112.64	119.90
36	1	2706	G	C6-C5-N7	-12.10	123.14	130.40
85	5	283	G	C5-N7-C8	-12.10	98.25	104.30
85	5	2213	A	C8-N9-C4	12.10	110.64	105.80
36	1	2599	U	O5'-P-OP1	-12.10	94.81	105.70
36	1	2961	G	N1-C2-N3	12.10	131.16	123.90
80	6	652	G	C4-C5-C6	-12.10	111.54	118.80
85	5	2387	A	O5'-P-OP2	-12.10	94.81	105.70
36	1	307	A	C6-N1-C2	-12.10	111.34	118.60
36	1	2360	C	C4-C5-C6	12.10	123.45	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3054	U	N1-C2-N3	12.10	122.16	114.90
85	5	1251	A	C8-N9-C4	-12.10	100.96	105.80
36	1	79	U	N1-C2-O2	-12.09	114.33	122.80
36	1	1415	U	C5-C6-N1	-12.09	116.65	122.70
36	1	1899	G	N1-C6-O6	-12.09	112.64	119.90
36	1	2411	U	C2-N3-C4	-12.09	119.74	127.00
80	6	422	G	C5-C6-O6	-12.09	121.34	128.60
36	1	694	C	C6-N1-C2	-12.09	115.46	120.30
85	5	818	C	C5-C6-N1	-12.09	114.95	121.00
36	1	1112	A	C5-C6-N1	12.09	123.74	117.70
85	5	2935	U	C4-C5-C6	12.09	126.95	119.70
36	1	1919	G	N1-C6-O6	12.09	127.15	119.90
36	1	82	C	N1-C2-O2	-12.08	111.65	118.90
36	1	652	G	C6-N1-C2	-12.08	117.85	125.10
36	1	2119	A	N1-C6-N6	12.08	125.85	118.60
80	6	104	A	O5'-P-OP2	-12.08	94.83	105.70
85	5	958	C	O5'-P-OP1	-12.08	94.83	105.70
85	5	2757	U	N3-C4-C5	-12.08	107.35	114.60
36	1	2640	A	C5-C6-N1	12.08	123.74	117.70
38	4	144	G	C5-N7-C8	12.08	110.34	104.30
85	5	1609	C	C5-C4-N4	-12.08	111.75	120.20
36	1	2627	C	C2-N3-C4	-12.08	113.86	119.90
36	1	2890	A	N1-C6-N6	-12.08	111.36	118.60
80	6	1050	G	N1-C6-O6	12.08	127.15	119.90
85	5	748	U	N1-C2-O2	-12.08	114.35	122.80
36	1	954	U	N1-C2-O2	-12.07	114.35	122.80
85	5	114	A	N1-C6-N6	12.07	125.84	118.60
85	5	957	C	N3-C4-C5	-12.07	117.07	121.90
85	5	2801	A	C6-N1-C2	-12.07	111.36	118.60
85	5	6	A	C8-N9-C4	12.07	110.63	105.80
36	1	222	A	N7-C8-N9	12.07	119.83	113.80
36	1	1323	G	C6-N1-C2	-12.07	117.86	125.10
36	1	2738	A	C6-N1-C2	-12.07	111.36	118.60
37	3	80	G	C5-N7-C8	12.07	110.33	104.30
85	5	1165	A	N1-C2-N3	12.07	135.34	129.30
85	5	2790	A	N1-C2-N3	12.07	135.34	129.30
36	1	753	C	N1-C2-O2	-12.07	111.66	118.90
36	1	804	C	C5-C4-N4	-12.07	111.75	120.20
36	1	966	U	N1-C2-O2	-12.07	114.35	122.80
85	5	728	G	OP1-P-OP2	-12.07	101.50	119.60
85	5	963	G	C4-C5-N7	-12.07	105.97	110.80
85	5	2702	A	C5-C6-N1	-12.07	111.67	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1636	C	C6-N1-C2	-12.06	115.47	120.30
36	1	2554	A	C8-N9-C4	12.06	110.63	105.80
36	1	2746	A	N9-C4-C5	12.06	110.62	105.80
38	4	103	G	C6-N1-C2	-12.06	117.86	125.10
80	6	1118	G	C2-N3-C4	-12.06	105.87	111.90
36	1	2788	C	N3-C2-O2	12.06	130.34	121.90
85	5	2369	G	N1-C6-O6	-12.06	112.66	119.90
85	5	2411	U	N1-C2-N3	12.06	122.14	114.90
36	1	2882	U	O5'-P-OP2	-12.06	94.85	105.70
38	4	107	G	O5'-P-OP1	-12.06	94.85	105.70
85	5	2942	C	N3-C4-C5	-12.06	117.08	121.90
36	1	189	G	C8-N9-C4	-12.05	101.58	106.40
36	1	742	G	N7-C8-N9	12.05	119.13	113.10
36	1	2207	A	C2-N3-C4	12.06	116.63	110.60
85	5	1609	C	N3-C4-N4	12.06	126.44	118.00
36	1	1754	G	C5-C6-O6	-12.05	121.37	128.60
80	6	1719	A	O5'-P-OP1	-12.05	94.85	105.70
85	5	2604	U	O5'-P-OP2	-12.05	94.85	105.70
85	5	31	C	N3-C2-O2	-12.05	113.46	121.90
85	5	2287	C	C6-N1-C2	-12.05	115.48	120.30
36	1	903	U	C4-C5-C6	12.05	126.93	119.70
36	1	3219	G	C5-C6-N1	-12.05	105.47	111.50
36	1	3344	A	C8-N9-C4	-12.05	100.98	105.80
85	5	291	C	N1-C2-O2	-12.05	111.67	118.90
38	8	14	C	C5-C6-N1	-12.05	114.97	121.00
1	2	364	G	C8-N9-C4	-12.05	101.58	106.40
38	4	152	G	N3-C2-N2	-12.05	111.47	119.90
36	1	54	C	C5-C6-N1	-12.05	114.98	121.00
36	1	1656	A	C5-N7-C8	12.05	109.92	103.90
80	6	425	A	C5-C6-N1	12.05	123.72	117.70
85	5	127	G	C8-N9-C4	12.05	111.22	106.40
85	5	1060	U	OP1-P-O3'	12.05	131.71	105.20
36	1	719	U	C5-C4-O4	-12.04	118.67	125.90
36	1	2951	G	O5'-P-OP1	-12.04	94.86	105.70
36	1	3375	A	C5-C6-N1	-12.04	111.68	117.70
37	3	80	G	C4-C5-N7	-12.04	105.98	110.80
85	5	1202	A	N1-C2-N3	12.05	135.32	129.30
80	6	273	G	N1-C6-O6	12.04	127.13	119.90
85	5	421	G	OP1-P-O3'	12.04	131.70	105.20
85	5	2754	G	C4-C5-N7	-12.04	105.98	110.80
80	6	453	U	N3-C4-C5	-12.04	107.38	114.60
36	1	2174	G	N1-C2-N2	-12.04	105.36	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	504	A	C5-N7-C8	-12.04	97.88	103.90
85	5	2117	A	C5-C6-N1	12.04	123.72	117.70
85	5	2665	U	C6-N1-C2	-12.04	113.78	121.00
1	2	429	G	C8-N9-C4	-12.04	101.59	106.40
36	1	335	G	N3-C2-N2	-12.04	111.47	119.90
36	1	577	C	C6-N1-C2	-12.03	115.49	120.30
80	6	1659	A	N1-C2-N3	12.04	135.32	129.30
36	1	856	G	C5-C6-N1	12.03	117.52	111.50
36	1	39	A	C5-C6-N1	12.03	123.72	117.70
85	5	2644	C	C5-C4-N4	12.03	128.62	120.20
36	1	59	G	C5-C6-N1	-12.03	105.49	111.50
36	1	1548	C	N3-C2-O2	12.03	130.32	121.90
85	5	104	G	N1-C6-O6	12.03	127.12	119.90
36	1	925	A	N1-C2-N3	12.03	135.31	129.30
36	1	981	U	N1-C2-O2	-12.03	114.38	122.80
36	1	1416	C	N3-C4-C5	12.03	126.71	121.90
36	1	693	A	N1-C6-N6	12.02	125.81	118.60
36	1	2507	C	C6-N1-C2	-12.02	115.49	120.30
1	2	1224	G	C8-N9-C4	-12.02	101.59	106.40
36	1	278	U	C6-N1-C2	-12.02	113.79	121.00
85	5	1863	G	C5-C6-N1	-12.02	105.49	111.50
36	1	2972	G	C5-N7-C8	-12.01	98.29	104.30
85	5	402	A	O5'-P-OP2	-12.01	94.89	105.70
85	5	978	G	C5-C6-N1	12.01	117.51	111.50
37	7	42	A	O5'-P-OP1	-12.01	94.89	105.70
36	1	1931	U	C5-C6-N1	-12.01	116.69	122.70
80	6	777	C	C6-N1-C2	-12.01	115.50	120.30
85	5	2732	G	N1-C6-O6	12.01	127.11	119.90
36	1	1450	G	C5-C6-N1	12.01	117.50	111.50
85	5	2757	U	C4-C5-C6	12.01	126.91	119.70
85	5	3046	A	N1-C2-N3	12.01	135.30	129.30
36	1	2616	C	C5-C6-N1	12.01	127.00	121.00
37	3	101	G	C2-N3-C4	-12.01	105.90	111.90
85	5	1446	A	C5-N7-C8	12.01	109.90	103.90
80	6	102	U	N3-C2-O2	12.01	130.60	122.20
36	1	422	A	OP1-P-OP2	-12.00	101.59	119.60
85	5	1301	A	C8-N9-C4	-12.00	101.00	105.80
85	5	2906	C	N1-C2-O2	-12.00	111.70	118.90
38	8	24	G	C5-C6-N1	12.00	117.50	111.50
1	2	1774	A	N1-C6-N6	12.00	125.80	118.60
85	5	2658	G	O5'-P-OP2	-12.00	94.90	105.70
85	5	2825	C	C4-C5-C6	-12.00	111.40	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	654	C	N3-C4-C5	-12.00	117.10	121.90
36	1	867	G	C4-C5-C6	12.00	126.00	118.80
36	1	2953	U	C5-C6-N1	12.00	128.70	122.70
85	5	1805	C	C5-C6-N1	-12.00	115.00	121.00
85	5	2637	A	C8-N9-C4	-12.00	101.00	105.80
85	5	2778	G	C5-C6-O6	-12.00	121.40	128.60
85	5	3267	A	C5-C6-N1	12.00	123.70	117.70
85	5	1828	A	N1-C6-N6	-11.99	111.40	118.60
36	1	941	G	O5'-P-OP2	-11.99	94.91	105.70
36	1	2756	C	N3-C2-O2	-11.99	113.50	121.90
85	5	2326	A	C5-N7-C8	11.99	109.90	103.90
85	5	3127	A	C5-C6-N1	11.99	123.70	117.70
85	5	3248	C	N1-C2-O2	-11.99	111.70	118.90
36	1	3025	C	C2-N3-C4	-11.99	113.91	119.90
36	1	3300	U	N1-C2-N3	11.99	122.09	114.90
36	1	2800	G	N3-C4-C5	-11.99	122.61	128.60
85	5	1923	C	C5-C6-N1	11.99	126.99	121.00
85	5	1178	G	C8-N9-C4	-11.99	101.61	106.40
85	5	3312	U	N3-C4-C5	-11.99	107.41	114.60
80	6	1537	C	C2-N3-C4	11.98	125.89	119.90
36	1	652	G	C5-C6-N1	11.98	117.49	111.50
36	1	1379	G	N1-C2-N3	11.98	131.09	123.90
85	5	704	U	C5-C6-N1	11.98	128.69	122.70
36	1	585	A	C6-C5-N7	-11.98	123.91	132.30
37	7	115	G	C4-C5-N7	11.98	115.59	110.80
36	1	2670	G	C6-C5-N7	-11.98	123.21	130.40
38	4	148	G	O5'-P-OP2	-11.98	94.92	105.70
36	1	701	G	C6-N1-C2	-11.98	117.91	125.10
36	1	1852	G	C5-N7-C8	-11.98	98.31	104.30
38	4	23	U	C5-C4-O4	11.98	133.09	125.90
85	5	1001	G	N1-C6-O6	-11.98	112.71	119.90
85	5	1134	G	O5'-P-OP2	-11.98	94.92	105.70
85	5	2791	G	C6-N1-C2	-11.98	117.91	125.10
80	6	590	C	N1-C2-O2	-11.98	111.72	118.90
85	5	974	G	C8-N9-C4	-11.98	101.61	106.40
85	5	1159	A	N1-C6-N6	11.98	125.79	118.60
85	5	1446	A	C4-C5-N7	-11.98	104.71	110.70
38	4	17	A	N1-C2-N3	11.97	135.29	129.30
85	5	1458	U	C6-N1-C2	-11.97	113.81	121.00
85	5	3327	G	C4-C5-N7	-11.97	106.01	110.80
85	5	1152	G	C4-C5-N7	11.97	115.59	110.80
36	1	1852	G	C6-C5-N7	-11.97	123.22	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3133	C	C6-N1-C2	-11.97	115.51	120.30
80	6	327	U	N3-C4-O4	11.97	127.78	119.40
80	6	438	A	O5'-P-OP2	-11.97	94.92	105.70
85	5	1128	U	C5-C4-O4	-11.97	118.72	125.90
85	5	2401	A	O5'-P-OP1	-11.97	94.93	105.70
36	1	2343	C	C6-N1-C2	11.97	125.09	120.30
85	5	1862	U	C2-N3-C4	11.97	134.18	127.00
36	1	1089	G	C8-N9-C4	11.96	111.19	106.40
85	5	994	G	C2-N3-C4	11.96	117.88	111.90
40	l3	4	ARG	NE-CZ-NH2	-11.96	114.32	120.30
80	6	127	G	N1-C6-O6	11.96	127.08	119.90
36	1	1636	U	N3-C2-O2	11.96	130.57	122.20
80	6	119	A	N1-C2-N3	11.96	135.28	129.30
85	5	400	G	C8-N9-C4	-11.96	101.62	106.40
85	5	2418	G	C2-N3-C4	11.96	117.88	111.90
36	1	2399	A	C5-N7-C8	-11.96	97.92	103.90
36	1	2858	U	N3-C4-C5	-11.96	107.42	114.60
85	5	743	C	C4-C5-C6	11.96	123.38	117.40
85	5	2305	G	C5-C6-N1	11.96	117.48	111.50
85	5	2316	G	N1-C6-O6	-11.96	112.73	119.90
36	1	1371	G	C5-C6-N1	-11.95	105.52	111.50
85	5	652	G	C5-C6-O6	11.96	135.77	128.60
36	1	713	U	C2-N3-C4	-11.95	119.83	127.00
36	1	697	A	N1-C6-N6	11.95	125.77	118.60
36	1	1470	U	C5-C6-N1	-11.95	116.72	122.70
36	1	2323	G	C5-C6-N1	11.95	117.48	111.50
85	5	786	A	C4-C5-C6	11.95	122.97	117.00
85	5	2873	U	N1-C2-N3	11.95	122.07	114.90
36	1	1473	G	N1-C6-O6	11.95	127.07	119.90
36	1	3135	U	N3-C4-O4	11.95	127.77	119.40
85	5	581	U	C6-N1-C2	-11.95	113.83	121.00
85	5	2355	G	N1-C2-N3	11.95	131.07	123.90
36	1	1897	G	C5-C6-O6	-11.95	121.43	128.60
36	1	2647	A	N1-C6-N6	11.95	125.77	118.60
85	5	279	U	N3-C2-O2	11.94	130.56	122.20
85	5	595	G	N1-C2-N3	11.95	131.07	123.90
36	1	2551	U	O5'-P-OP1	-11.94	94.95	105.70
36	1	535	G	N1-C2-N3	11.94	131.06	123.90
85	5	2726	C	N1-C2-O2	-11.94	111.73	118.90
36	1	3022	G	C5-C6-N1	11.94	117.47	111.50
38	4	103	G	N1-C6-O6	-11.94	112.74	119.90
80	6	151	G	C8-N9-C4	-11.94	101.62	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	633	C	N1-C2-O2	-11.94	111.74	118.90
85	5	721	G	C6-C5-N7	-11.94	123.24	130.40
85	5	2147	A	C8-N9-C4	-11.94	101.02	105.80
85	5	244	G	N9-C4-C5	-11.94	100.62	105.40
37	7	50	U	C5-C6-N1	11.94	128.67	122.70
38	8	15	G	N9-C4-C5	11.94	110.17	105.40
36	1	3200	G	O5'-P-OP1	-11.94	94.96	105.70
36	1	1672	U	C5-C6-N1	11.94	128.67	122.70
85	5	61	A	C4-C5-C6	11.94	122.97	117.00
85	5	2233	A	C5-C6-N6	11.94	133.25	123.70
85	5	2550	U	C5-C4-O4	11.94	133.06	125.90
85	5	2621	G	O5'-P-OP2	-11.94	94.96	105.70
85	5	2709	C	N1-C2-O2	-11.94	111.74	118.90
85	5	2744	U	N3-C4-O4	11.94	127.75	119.40
85	5	2812	C	C6-N1-C2	-11.94	115.53	120.30
85	5	911	C	C6-N1-C2	-11.93	115.53	120.30
85	5	1499	C	C6-N1-C2	-11.93	115.53	120.30
85	5	2627	C	N1-C2-O2	-11.93	111.74	118.90
85	5	1898	G	C4-C5-N7	-11.93	106.03	110.80
85	5	2984	C	N1-C2-N3	11.93	127.55	119.20
38	4	10	A	O5'-P-OP2	-11.93	94.96	105.70
80	6	373	G	N1-C6-O6	-11.93	112.74	119.90
85	5	737	G	N1-C6-O6	-11.93	112.74	119.90
36	1	1112	A	C6-N1-C2	-11.93	111.44	118.60
85	5	862	U	OP1-P-OP2	-11.93	101.71	119.60
85	5	1462	A	C2-N3-C4	-11.93	104.64	110.60
85	5	2363	A	C5-N7-C8	-11.93	97.94	103.90
36	1	2284	C	C6-N1-C2	-11.93	115.53	120.30
80	6	464	A	C2-N3-C4	-11.93	104.64	110.60
85	5	2644	C	N1-C2-N3	11.93	127.55	119.20
85	5	3376	A	O5'-P-OP1	-11.93	94.97	105.70
36	1	168	U	C4-C5-C6	11.92	126.85	119.70
36	1	1311	G	N3-C2-N2	-11.92	111.55	119.90
36	1	2718	U	N3-C2-O2	-11.92	113.85	122.20
37	7	71	G	C8-N9-C4	11.92	111.17	106.40
85	5	2389	C	N3-C4-C5	11.92	126.67	121.90
85	5	2400	G	C6-C5-N7	-11.92	123.25	130.40
37	3	78	U	N3-C2-O2	11.92	130.54	122.20
36	1	315	C	C5-C6-N1	11.92	126.96	121.00
85	5	519	A	C5-C6-N6	-11.92	114.16	123.70
85	5	1872	C	C6-N1-C2	-11.92	115.53	120.30
85	5	3294	A	N1-C2-N3	11.92	135.26	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1414	G	N3-C2-N2	-11.92	111.56	119.90
36	1	1540	U	N1-C2-O2	-11.92	114.46	122.80
36	1	2623	G	C2-N3-C4	-11.92	105.94	111.90
36	1	3128	G	N3-C4-C5	-11.92	122.64	128.60
37	3	121	U	N3-C2-O2	11.92	130.54	122.20
85	5	2395	G	C5-C6-O6	-11.92	121.45	128.60
85	5	817	A	O5'-P-OP1	-11.91	94.98	105.70
36	1	307	A	O5'-P-OP2	-11.91	94.98	105.70
36	1	2742	C	C6-N1-C2	11.91	125.06	120.30
38	4	112	U	O5'-P-OP1	-11.91	94.98	105.70
85	5	1432	C	N1-C2-N3	11.91	127.54	119.20
36	1	1406	A	C6-N1-C2	-11.91	111.45	118.60
80	6	122	U	N3-C4-C5	11.91	121.75	114.60
80	6	1015	U	C5-C4-O4	11.91	133.05	125.90
36	1	784	A	C4-C5-C6	11.91	122.95	117.00
85	5	275	U	N3-C2-O2	-11.91	113.86	122.20
36	1	3175	U	N3-C2-O2	-11.91	113.87	122.20
85	5	1786	G	C8-N9-C4	-11.91	101.64	106.40
80	6	103	A	N7-C8-N9	11.90	119.75	113.80
85	5	3245	A	C4-C5-N7	11.90	116.65	110.70
38	8	38	U	O5'-P-OP2	-11.90	94.99	105.70
36	1	1919	G	N7-C8-N9	11.90	119.05	113.10
80	6	475	A	C6-N1-C2	-11.90	111.46	118.60
85	5	1175	C	N3-C4-C5	11.90	126.66	121.90
85	5	3141	A	N1-C2-N3	11.90	135.25	129.30
85	5	3302	U	C6-N1-C2	11.90	128.14	121.00
1	2	1612	G	C8-N9-C4	-11.90	101.64	106.40
36	1	3042	U	N1-C2-O2	-11.90	114.47	122.80
80	6	33	U	C6-N1-C2	-11.90	113.86	121.00
38	4	106	C	C5-C6-N1	-11.89	115.05	121.00
36	1	1118	C	C6-N1-C2	-11.89	115.54	120.30
36	1	1467	A	C6-N1-C2	-11.89	111.47	118.60
85	5	295	A	C4-C5-N7	11.89	116.65	110.70
36	1	2433	U	C5-C4-O4	-11.89	118.77	125.90
85	5	2272	G	C2-N3-C4	11.89	117.84	111.90
85	5	2659	G	OP1-P-OP2	-11.89	101.77	119.60
36	1	1162	U	N1-C2-N3	11.89	122.03	114.90
36	1	547	G	N1-C6-O6	11.89	127.03	119.90
36	1	3135	U	C6-N1-C2	-11.89	113.87	121.00
85	5	3377	G	C5-C6-O6	-11.89	121.47	128.60
80	6	95	G	C4-C5-N7	-11.88	106.05	110.80
80	6	1659	A	C5-C6-N1	-11.88	111.76	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	355	A	N1-C2-N3	11.88	135.24	129.30
36	1	936	A	C5-C6-N1	-11.88	111.76	117.70
36	1	1734	G	C8-N9-C4	11.88	111.15	106.40
36	1	2974	U	C6-N1-C2	-11.88	113.87	121.00
85	5	1399	A	N1-C6-N6	11.88	125.73	118.60
85	5	937	G	C4-C5-N7	-11.88	106.05	110.80
85	5	1406	A	C5-C6-N6	-11.88	114.20	123.70
85	5	1411	C	O5'-P-OP2	-11.88	95.01	105.70
85	5	2725	U	C5-C6-N1	11.88	128.64	122.70
85	5	2871	G	N7-C8-N9	11.88	119.04	113.10
85	5	3161	C	C5-C6-N1	11.88	126.94	121.00
36	1	973	A	N1-C2-N3	11.88	135.24	129.30
85	5	531	G	O5'-P-OP1	-11.88	95.01	105.70
85	5	581	U	N3-C4-O4	11.88	127.71	119.40
85	5	820	A	N7-C8-N9	11.88	119.74	113.80
85	5	863	C	C2-N3-C4	-11.88	113.96	119.90
85	5	2221	G	C8-N9-C4	11.88	111.15	106.40
80	6	9	U	N1-C2-O2	-11.87	114.49	122.80
1	2	1253	G	C8-N9-C4	11.87	111.15	106.40
36	1	658	G	N1-C2-N3	11.87	131.02	123.90
36	1	2096	A	C8-N9-C4	-11.87	101.05	105.80
85	5	2531	C	N1-C2-O2	11.87	126.02	118.90
36	1	1933	A	C5-N7-C8	-11.87	97.97	103.90
36	1	2822	U	N1-C2-O2	-11.87	114.49	122.80
85	5	2288	G	N1-C2-N2	-11.87	105.52	116.20
85	5	2928	C	C6-N1-C2	-11.87	115.55	120.30
1	2	1132	G	C2-N3-C4	11.87	117.83	111.90
80	6	263	C	N1-C2-O2	-11.87	111.78	118.90
80	6	1051	G	C5-C6-N1	11.87	117.43	111.50
85	5	1011	A	C2-N3-C4	-11.87	104.67	110.60
85	5	2654	C	C5-C6-N1	11.87	126.93	121.00
80	6	1636	C	C6-N1-C2	-11.87	115.55	120.30
85	5	868	C	C6-N1-C2	11.87	125.05	120.30
85	5	2725	U	C5-C4-O4	11.87	133.02	125.90
85	5	3102	G	C5-C6-O6	11.86	135.72	128.60
36	1	1297	C	C5-C6-N1	-11.86	115.07	121.00
80	6	1656	U	O5'-P-OP1	11.86	124.93	110.70
85	5	1432	C	C6-N1-C2	-11.86	115.56	120.30
85	5	2643	A	C5-C6-N6	-11.86	114.21	123.70
85	5	2994	A	C5-C6-N6	-11.86	114.21	123.70
36	1	2871	G	C8-N9-C4	-11.86	101.66	106.40
36	1	2937	G	C5-C6-N1	11.86	117.43	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	95	G	C5-C6-O6	-11.86	121.49	128.60
85	5	693	A	N7-C8-N9	11.86	119.73	113.80
85	5	862	U	N1-C2-O2	-11.86	114.50	122.80
85	5	2860	U	O5'-P-OP2	-11.86	95.03	105.70
36	1	110	G	N1-C2-N3	11.85	131.01	123.90
1	2	594	A	N1-C6-N6	-11.85	111.49	118.60
80	6	422	G	N1-C6-O6	11.85	127.01	119.90
85	5	83	U	C4-C5-C6	11.85	126.81	119.70
85	5	867	G	C6-C5-N7	-11.85	123.29	130.40
85	5	1409	G	O5'-P-OP2	-11.85	95.03	105.70
85	5	2136	C	N1-C2-N3	11.85	127.50	119.20
80	6	646	C	C5-C6-N1	11.85	126.92	121.00
80	6	1070	C	C5-C4-N4	11.85	128.50	120.20
37	7	73	C	N1-C2-O2	11.85	126.01	118.90
36	1	2725	U	N3-C2-O2	-11.85	113.91	122.20
85	5	2192	C	C2-N3-C4	11.85	125.82	119.90
36	1	614	C	N1-C2-O2	-11.85	111.79	118.90
37	3	56	A	C8-N9-C4	11.85	110.54	105.80
80	6	73	U	N3-C2-O2	11.85	130.49	122.20
85	5	930	U	N3-C4-C5	11.85	121.71	114.60
36	1	1822	C	N3-C2-O2	-11.84	113.61	121.90
36	1	3305	A	N9-C4-C5	11.84	110.54	105.80
85	5	2346	C	N3-C4-N4	11.84	126.29	118.00
85	5	2775	U	C4-C5-C6	11.84	126.81	119.70
85	5	3388	C	N3-C2-O2	-11.84	113.61	121.90
36	1	977	C	N3-C4-C5	-11.84	117.16	121.90
80	6	18	C	C6-N1-C2	-11.84	115.56	120.30
80	6	1053	G	N7-C8-N9	11.84	119.02	113.10
85	5	2619	G	C6-C5-N7	11.84	137.50	130.40
85	5	3379	C	O5'-P-OP2	11.84	124.90	110.70
38	8	75	G	OP1-P-O3'	11.84	131.24	105.20
36	1	904	A	C5-C6-N6	11.83	133.17	123.70
36	1	1526	U	N3-C2-O2	-11.83	113.92	122.20
85	5	3057	U	N1-C2-O2	11.83	131.08	122.80
85	5	1590	G	C8-N9-C4	-11.83	101.67	106.40
85	5	3167	A	C8-N9-C4	-11.83	101.07	105.80
85	5	3339	A	C8-N9-C4	-11.83	101.07	105.80
36	1	714	G	N1-C6-O6	-11.83	112.80	119.90
80	6	617	U	N1-C2-N3	11.83	122.00	114.90
85	5	1343	A	N1-C6-N6	11.83	125.70	118.60
1	2	957	A	C8-N9-C4	11.83	110.53	105.80
36	1	609	G	C5-N7-C8	-11.83	98.39	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	630	A	C5-C6-N1	11.83	123.61	117.70
36	1	2309	A	O5'-P-OP1	-11.83	95.06	105.70
80	6	590	C	C6-N1-C2	-11.83	115.57	120.30
85	5	1433	A	N7-C8-N9	11.83	119.71	113.80
36	1	18	G	C5-N7-C8	-11.82	98.39	104.30
36	1	159	A	N9-C4-C5	-11.82	101.07	105.80
36	1	324	A	N9-C4-C5	11.82	110.53	105.80
36	1	867	G	C2-N3-C4	-11.82	105.99	111.90
36	1	2362	C	O5'-P-OP2	-11.82	95.06	105.70
85	5	354	U	N3-C4-O4	11.82	127.68	119.40
85	5	2416	U	N1-C2-N3	11.82	122.00	114.90
85	5	2718	U	C5-C6-N1	-11.82	116.79	122.70
36	1	1386	A	C5-C6-N1	11.82	123.61	117.70
38	4	67	U	C4-C5-C6	11.82	126.79	119.70
38	4	144	G	N9-C4-C5	11.82	110.13	105.40
85	5	1512	U	C5-C4-O4	11.82	132.99	125.90
85	5	3333	G	C2-N3-C4	-11.81	105.99	111.90
36	1	606	C	O5'-P-OP2	-11.81	95.07	105.70
36	1	1578	C	N3-C4-C5	-11.81	117.17	121.90
85	5	2223	A	N9-C4-C5	11.81	110.53	105.80
36	1	1585	C	C6-N1-C2	-11.81	115.58	120.30
85	5	937	G	C8-N9-C4	11.81	111.12	106.40
85	5	2680	A	C5-C6-N1	11.81	123.61	117.70
85	5	3388	C	C5-C6-N1	-11.81	115.09	121.00
85	5	1879	A	N7-C8-N9	11.81	119.70	113.80
37	7	65	G	C4-C5-N7	11.81	115.52	110.80
85	5	569	A	N7-C8-N9	-11.81	107.90	113.80
85	5	354	U	O5'-P-OP1	11.81	124.87	110.70
85	5	2158	A	C5-C6-N1	11.81	123.60	117.70
85	5	3153	U	N3-C4-C5	11.81	121.69	114.60
36	1	920	A	N1-C6-N6	-11.80	111.52	118.60
85	5	216	G	C5-C6-N1	-11.80	105.60	111.50
85	5	688	G	O5'-P-OP1	-11.80	95.08	105.70
85	5	2619	G	C8-N9-C4	11.80	111.12	106.40
36	1	2175	U	N3-C4-O4	-11.80	111.14	119.40
36	1	159	A	C8-N9-C4	11.80	110.52	105.80
85	5	33	G	O5'-P-OP2	-11.80	95.08	105.70
85	5	690	A	N1-C6-N6	-11.80	111.52	118.60
85	5	1077	U	N3-C4-C5	11.80	121.68	114.60
85	5	350	C	O5'-P-OP1	-11.80	95.08	105.70
37	7	26	C	C6-N1-C2	-11.80	115.58	120.30
36	1	315	C	O5'-P-OP2	-11.79	95.08	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1005	G	N1-C6-O6	11.79	126.98	119.90
85	5	1588	A	N1-C6-N6	-11.79	111.52	118.60
36	1	1132	C	C6-N1-C2	-11.79	115.58	120.30
85	5	880	G	N1-C2-N3	11.79	130.97	123.90
85	5	1190	A	N1-C2-N3	11.79	135.20	129.30
85	5	2731	U	N1-C2-N3	11.79	121.97	114.90
36	1	201	A	N1-C2-N3	11.79	135.19	129.30
1	2	1010	A	C6-C5-N7	-11.79	124.05	132.30
36	1	323	A	N7-C8-N9	-11.79	107.91	113.80
36	1	2636	A	N1-C6-N6	-11.79	111.53	118.60
36	1	1098	A	C8-N9-C4	-11.79	101.09	105.80
36	1	1888	U	C2-N3-C4	-11.79	119.93	127.00
85	5	2629	U	N1-C2-O2	-11.79	114.55	122.80
1	2	325	G	C5-C6-N1	-11.78	105.61	111.50
36	1	241	G	N1-C6-O6	11.78	126.97	119.90
85	5	274	G	N1-C6-O6	11.78	126.97	119.90
85	5	2685	C	N3-C4-C5	11.78	126.61	121.90
37	7	100	C	N1-C2-O2	-11.78	111.83	118.90
36	1	1468	A	N1-C2-N3	11.78	135.19	129.30
36	1	274	G	C8-N9-C4	11.78	111.11	106.40
36	1	1595	U	OP1-P-OP2	-11.78	101.93	119.60
36	1	2440	G	C4-C5-N7	-11.78	106.09	110.80
80	6	1651	A	C8-N9-C4	-11.78	101.09	105.80
38	8	56	G	C5-C6-N1	-11.78	105.61	111.50
80	6	66	U	N3-C2-O2	11.78	130.44	122.20
85	5	2190	U	N1-C2-N3	11.78	121.97	114.90
36	1	753	C	N3-C2-O2	11.78	130.14	121.90
36	1	927	C	C6-N1-C2	-11.78	115.59	120.30
36	1	3204	C	N3-C4-C5	11.78	126.61	121.90
36	1	3277	U	N1-C2-N3	-11.78	107.83	114.90
36	1	2197	C	C6-N1-C2	11.78	125.01	120.30
38	4	115	C	C5-C6-N1	-11.78	115.11	121.00
80	6	540	G	C8-N9-C4	11.78	111.11	106.40
85	5	1880	U	N1-C2-N3	11.78	121.97	114.90
85	5	2933	A	N9-C4-C5	11.78	110.51	105.80
36	1	284	A	C8-N9-C4	-11.77	101.09	105.80
85	5	1781	C	C5-C6-N1	11.77	126.89	121.00
36	1	22	G	C6-N1-C2	-11.77	118.04	125.10
80	6	92	A	C2-N3-C4	-11.77	104.71	110.60
85	5	863	C	N3-C4-C5	11.77	126.61	121.90
1	2	144	U	N3-C2-O2	-11.77	113.96	122.20
36	1	57	A	C5-C6-N1	-11.77	111.81	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	217	U	N1-C2-O2	-11.77	114.56	122.80
36	1	1400	G	C4-C5-N7	-11.77	106.09	110.80
36	1	2324	A	C8-N9-C4	-11.77	101.09	105.80
80	6	25	C	N1-C2-N3	-11.77	110.96	119.20
85	5	1197	A	N1-C2-N3	11.77	135.18	129.30
1	2	1647	C	C6-N1-C2	-11.77	115.59	120.30
36	1	513	G	O5'-P-OP1	-11.77	95.11	105.70
36	1	3083	G	C5-C6-N1	11.77	117.38	111.50
85	5	48	A	N1-C2-N3	11.77	135.18	129.30
85	5	1375	G	C6-N1-C2	11.77	132.16	125.10
85	5	2747	A	O5'-P-OP1	11.77	124.82	110.70
1	2	1010	A	C4-C5-N7	11.76	116.58	110.70
36	1	369	A	C5-N7-C8	-11.76	98.02	103.90
36	1	1433	A	N3-C4-C5	-11.76	118.56	126.80
36	1	1603	A	C2-N3-C4	11.76	116.48	110.60
85	5	400	G	O5'-P-OP1	-11.76	95.11	105.70
85	5	941	G	C6-N1-C2	-11.76	118.04	125.10
85	5	1908	A	C2-N3-C4	11.76	116.48	110.60
36	1	2650	U	N3-C2-O2	-11.76	113.97	122.20
36	1	632	G	C5-N7-C8	-11.76	98.42	104.30
36	1	860	G	N1-C6-O6	11.76	126.95	119.90
36	1	914	A	C5-N7-C8	11.76	109.78	103.90
85	5	202	G	C8-N9-C4	11.76	111.10	106.40
36	1	59	G	C4-C5-N7	11.76	115.50	110.80
36	1	371	G	N1-C6-O6	11.76	126.95	119.90
80	6	347	G	C2-N3-C4	-11.76	106.02	111.90
85	5	681	U	N3-C4-C5	-11.76	107.55	114.60
85	5	830	A	N1-C2-N3	11.76	135.18	129.30
85	5	2324	A	N1-C6-N6	11.76	125.66	118.60
85	5	3079	U	O5'-P-OP2	11.76	124.81	110.70
80	6	1757	G	C8-N9-C4	11.76	111.10	106.40
85	5	1001	G	C4-C5-N7	-11.76	106.10	110.80
85	5	2229	A	N1-C2-N3	11.76	135.18	129.30
36	1	1372	C	C5-C6-N1	-11.75	115.12	121.00
80	6	1100	G	C6-C5-N7	-11.75	123.35	130.40
1	2	264	G	C8-N9-C4	11.75	111.10	106.40
85	5	194	U	C2-N3-C4	-11.75	119.95	127.00
36	1	421	G	N1-C6-O6	-11.75	112.85	119.90
38	4	116	G	C5-C6-N1	-11.75	105.63	111.50
36	1	3110	C	C6-N1-C2	-11.75	115.60	120.30
80	6	1145	U	N1-C2-O2	-11.75	114.58	122.80
85	5	880	G	N7-C8-N9	-11.75	107.23	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1869	C	N3-C4-C5	11.75	126.60	121.90
36	1	1841	A	O5'-P-OP1	-11.74	95.13	105.70
85	5	2396	G	C8-N9-C4	-11.74	101.70	106.40
85	5	2824	G	N1-C6-O6	11.74	126.95	119.90
36	1	619	A	N1-C6-N6	11.74	125.64	118.60
36	1	2939	G	C5-C6-O6	11.74	135.65	128.60
37	3	82	G	N1-C2-N3	11.74	130.94	123.90
38	8	72	A	C2-N3-C4	-11.74	104.73	110.60
36	1	352	A	O5'-P-OP1	-11.74	95.13	105.70
36	1	1495	U	N1-C2-N3	11.74	121.94	114.90
85	5	747	A	N1-C2-N3	11.74	135.17	129.30
38	8	34	U	C4-C5-C6	11.74	126.74	119.70
36	1	1617	G	N1-C6-O6	11.73	126.94	119.90
36	1	2237	C	N3-C4-C5	11.73	126.59	121.90
85	5	911	C	N3-C4-C5	-11.73	117.21	121.90
85	5	1186	G	C8-N9-C4	-11.73	101.71	106.40
85	5	2809	C	O5'-P-OP2	-11.73	95.14	105.70
36	1	721	G	N1-C6-O6	11.73	126.94	119.90
36	1	1887	A	N1-C2-N3	11.73	135.17	129.30
85	5	2790	A	C5-C6-N1	-11.73	111.83	117.70
85	5	3223	A	C5-C6-N1	11.73	123.57	117.70
1	2	1254	G	O5'-P-OP2	-11.73	95.14	105.70
36	1	608	A	C8-N9-C4	-11.73	101.11	105.80
36	1	638	C	C5-C6-N1	11.73	126.86	121.00
85	5	2724	U	N1-C2-O2	-11.73	114.59	122.80
1	2	1715	A	N1-C2-N3	11.73	135.16	129.30
36	1	324	A	N7-C8-N9	11.73	119.66	113.80
38	4	89	A	C2-N3-C4	-11.73	104.74	110.60
80	6	427	C	N1-C2-N3	11.73	127.41	119.20
85	5	383	G	N3-C4-C5	11.73	134.46	128.60
36	1	178	U	N3-C4-O4	-11.73	111.19	119.40
85	5	1834	U	N3-C4-C5	-11.73	107.56	114.60
85	5	1346	G	N1-C6-O6	11.72	126.93	119.90
36	1	1434	G	C5-N7-C8	-11.72	98.44	104.30
36	1	1502	C	O5'-P-OP2	-11.72	95.15	105.70
1	2	1396	U	N1-C2-O2	11.72	131.00	122.80
36	1	2760	C	N3-C4-C5	11.72	126.59	121.90
85	5	2892	A	O5'-P-OP2	-11.72	95.16	105.70
85	5	3141	A	C4-C5-C6	11.72	122.86	117.00
1	2	573	C	C5-C6-N1	-11.72	115.14	121.00
85	5	1272	C	C6-N1-C2	-11.72	115.61	120.30
37	7	65	G	C5-N7-C8	-11.71	98.44	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	212	G	C2-N3-C4	11.71	117.75	111.90
36	1	388	G	C5-N7-C8	-11.71	98.44	104.30
80	6	441	A	N1-C2-N3	11.71	135.16	129.30
85	5	672	A	C4-C5-C6	-11.71	111.14	117.00
85	5	1077	U	C6-N1-C2	11.71	128.03	121.00
85	5	2318	U	N3-C4-O4	11.71	127.60	119.40
85	5	2854	U	C5-C4-O4	-11.71	118.87	125.90
85	5	2911	A	C8-N9-C4	-11.71	101.12	105.80
36	1	789	A	N7-C8-N9	11.71	119.65	113.80
80	6	1131	A	C5-C6-N1	11.71	123.55	117.70
85	5	2939	G	C2-N3-C4	-11.71	106.05	111.90
38	8	73	U	N3-C2-O2	-11.71	114.00	122.20
36	1	1666	G	C5-C6-N1	-11.71	105.65	111.50
85	5	2385	G	N3-C4-N9	-11.71	118.98	126.00
36	1	1532	C	C6-N1-C2	11.71	124.98	120.30
85	5	88	A	C5-C6-N1	-11.71	111.85	117.70
36	1	37	U	N1-C2-O2	-11.70	114.61	122.80
36	1	1389	G	N1-C2-N3	-11.70	116.88	123.90
36	1	2876	C	N1-C2-O2	-11.70	111.88	118.90
80	6	884	A	C8-N9-C4	11.70	110.48	105.80
37	7	38	U	N1-C2-O2	-11.70	114.61	122.80
85	5	584	G	C4-C5-N7	-11.70	106.12	110.80
36	1	275	U	N3-C4-C5	-11.70	107.58	114.60
91	p	75	C	N3-C2-O2	11.70	130.09	121.90
36	1	168	U	C2-N3-C4	-11.70	119.98	127.00
36	1	656	A	C8-N9-C4	-11.70	101.12	105.80
85	5	3102	G	N1-C2-N3	11.70	130.92	123.90
36	1	2881	C	C5-C6-N1	-11.70	115.15	121.00
38	4	115	C	N3-C4-C5	11.70	126.58	121.90
80	6	768	C	C6-N1-C2	11.70	124.98	120.30
85	5	2157	G	C5-C6-N1	11.69	117.35	111.50
85	5	2429	G	N1-C2-N3	11.70	130.92	123.90
85	5	2793	G	N1-C6-O6	11.69	126.92	119.90
85	5	2903	A	N1-C6-N6	-11.70	111.58	118.60
85	5	3210	A	C5-C6-N1	11.70	123.55	117.70
36	1	267	G	C2-N3-C4	-11.69	106.05	111.90
36	1	1796	G	C5-C6-O6	-11.69	121.58	128.60
36	1	2116	G	C5-C6-O6	11.69	135.62	128.60
85	5	3223	A	N1-C6-N6	-11.69	111.58	118.60
36	1	960	U	C6-N1-C2	11.69	128.01	121.00
36	1	2706	G	C4-C5-N7	11.69	115.48	110.80
80	6	427	C	C2-N3-C4	-11.69	114.06	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	197	G	C6-C5-N7	-11.69	123.39	130.40
85	5	910	G	N1-C6-O6	11.69	126.91	119.90
85	5	793	C	C5-C4-N4	-11.69	112.02	120.20
36	1	299	G	N3-C4-C5	11.69	134.44	128.60
85	5	282	G	C8-N9-C4	-11.69	101.73	106.40
36	1	516	A	C2-N3-C4	-11.68	104.76	110.60
85	5	917	A	C5-N7-C8	-11.68	98.06	103.90
36	1	938	C	N1-C2-O2	-11.68	111.89	118.90
85	5	381	U	N3-C4-C5	-11.68	107.59	114.60
36	1	1112	A	O5'-P-OP2	-11.68	95.19	105.70
36	1	2607	G	N9-C4-C5	-11.68	100.73	105.40
37	3	29	C	N3-C2-O2	-11.68	113.72	121.90
85	5	1466	G	C5-C6-N1	-11.68	105.66	111.50
85	5	2415	C	C2-N3-C4	-11.68	114.06	119.90
85	5	2986	U	O5'-P-OP2	-11.68	95.19	105.70
36	1	1181	U	N3-C2-O2	-11.68	114.03	122.20
36	1	2834	G	N1-C2-N2	-11.68	105.69	116.20
85	5	1792	C	N3-C4-C5	-11.68	117.23	121.90
85	5	2160	G	C5-C6-N1	11.68	117.34	111.50
36	1	1548	C	C2-N3-C4	11.68	125.74	119.90
85	5	1890	U	O5'-P-OP2	-11.68	95.19	105.70
85	5	1852	G	C5-N7-C8	-11.68	98.46	104.30
36	1	641	C	N3-C4-N4	11.67	126.17	118.00
36	1	1134	G	N3-C4-C5	-11.67	122.76	128.60
36	1	2528	G	N1-C6-O6	11.67	126.90	119.90
85	5	1337	A	O5'-P-OP2	-11.67	95.19	105.70
38	4	93	U	C5-C4-O4	11.67	132.90	125.90
1	2	411	C	C6-N1-C2	-11.67	115.63	120.30
80	6	1589	C	C6-N1-C2	-11.67	115.63	120.30
85	5	1447	G	N3-C4-N9	11.67	133.00	126.00
85	5	2738	A	C6-N1-C2	-11.67	111.60	118.60
36	1	71	A	C6-N1-C2	-11.67	111.60	118.60
80	6	842	C	N3-C4-C5	-11.67	117.23	121.90
85	5	206	G	N3-C4-C5	-11.67	122.77	128.60
85	5	1375	G	N1-C6-O6	11.67	126.90	119.90
85	5	3181	C	O5'-P-OP1	11.67	124.70	110.70
36	1	2746	A	C5-C6-N6	11.66	133.03	123.70
37	3	110	G	C4-C5-N7	-11.66	106.13	110.80
85	5	344	A	O5'-P-OP1	-11.66	95.20	105.70
85	5	1667	A	C4-C5-N7	11.66	116.53	110.70
85	5	2769	A	C8-N9-C4	11.66	110.47	105.80
36	1	515	C	N3-C2-O2	11.66	130.06	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3270	U	C5-C4-O4	11.66	132.90	125.90
80	6	204	G	N3-C4-N9	-11.66	119.00	126.00
85	5	652	G	N1-C6-O6	-11.66	112.90	119.90
85	5	2353	G	N1-C6-O6	11.66	126.90	119.90
85	5	2828	G	C4-C5-N7	11.66	115.47	110.80
91	P	75	C	N3-C2-O2	11.66	130.06	121.90
85	5	1317	A	N1-C6-N6	11.66	125.60	118.60
80	6	1654	G	C5-C6-N1	-11.66	105.67	111.50
85	5	1536	G	N1-C6-O6	11.66	126.90	119.90
85	5	2215	A	C4-C5-N7	11.66	116.53	110.70
85	5	2693	C	C2-N3-C4	-11.66	114.07	119.90
85	5	2984	C	N3-C4-C5	-11.66	117.24	121.90
36	1	901	G	N3-C2-N2	-11.66	111.74	119.90
36	1	1382	G	C6-N1-C2	-11.66	118.11	125.10
85	5	1069	C	N3-C2-O2	-11.66	113.74	121.90
36	1	1004	U	N1-C2-N3	11.66	121.89	114.90
36	1	1790	G	C5-C6-O6	-11.66	121.61	128.60
85	5	2405	C	N1-C2-O2	11.65	125.89	118.90
1	2	16	G	N3-C4-C5	-11.65	122.78	128.60
36	1	656	A	O5'-P-OP2	-11.65	95.22	105.70
37	3	114	U	N3-C2-O2	-11.65	114.05	122.20
36	1	1801	U	C2-N3-C4	-11.65	120.01	127.00
85	5	3184	A	N1-C6-N6	11.65	125.59	118.60
36	1	2137	U	N1-C2-O2	11.65	130.95	122.80
85	5	910	G	C4-C5-N7	11.65	115.46	110.80
85	5	2852	C	N3-C4-C5	11.65	126.56	121.90
38	8	138	A	C4-C5-N7	-11.65	104.88	110.70
1	2	1469	G	C2-N3-C4	-11.64	106.08	111.90
1	2	1535	U	C5-C6-N1	11.64	128.52	122.70
36	1	18	G	C8-N9-C4	-11.64	101.74	106.40
36	1	90	C	C6-N1-C2	11.64	124.96	120.30
36	1	596	C	N3-C2-O2	-11.64	113.75	121.90
36	1	1424	C	C2-N3-C4	-11.64	114.08	119.90
85	5	1190	A	C5-C6-N6	11.64	133.01	123.70
36	1	970	A	C5-N7-C8	-11.64	98.08	103.90
36	1	1854	C	C6-N1-C2	-11.64	115.64	120.30
85	5	917	A	C8-N9-C4	-11.64	101.14	105.80
38	8	54	A	C8-N9-C4	-11.64	101.14	105.80
85	5	1250	G	OP2-P-O3'	11.64	130.81	105.20
36	1	673	U	OP1-P-OP2	-11.64	102.14	119.60
36	1	2610	G	N7-C8-N9	11.64	118.92	113.10
85	5	2728	G	N1-C2-N2	-11.64	105.72	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1131	A	C2-N3-C4	11.64	116.42	110.60
85	5	644	G	N9-C4-C5	11.64	110.06	105.40
85	5	652	G	C6-C5-N7	11.64	137.38	130.40
85	5	1199	C	N3-C2-O2	11.64	130.05	121.90
85	5	2395	G	N7-C8-N9	11.64	118.92	113.10
37	7	80	G	N1-C2-N3	11.64	130.88	123.90
36	1	1178	G	C6-N1-C2	-11.63	118.12	125.10
36	1	2519	A	N1-C6-N6	11.63	125.58	118.60
80	6	46	A	N1-C2-N3	11.64	135.12	129.30
80	6	972	G	C4-C5-N7	11.64	115.45	110.80
80	6	459	G	C5-C6-O6	-11.63	121.62	128.60
80	6	1169	G	C8-N9-C4	-11.63	101.75	106.40
36	1	393	U	C6-N1-C2	-11.63	114.02	121.00
85	5	965	A	O5'-P-OP2	-11.63	95.23	105.70
85	5	1368	U	O5'-P-OP1	-11.63	95.23	105.70
85	5	3067	C	C2-N3-C4	-11.63	114.08	119.90
85	5	2675	C	C5-C6-N1	11.63	126.81	121.00
85	5	3135	U	C5-C4-O4	11.63	132.88	125.90
36	1	800	G	C2-N3-C4	-11.63	106.09	111.90
36	1	1202	A	N1-C6-N6	11.63	125.58	118.60
36	1	1493	G	N1-C2-N3	11.63	130.88	123.90
80	6	1788	G	C2-N3-C4	-11.63	106.09	111.90
85	5	2742	C	N3-C4-C5	11.63	126.55	121.90
85	5	592	A	C2-N3-C4	-11.63	104.79	110.60
77	q1	21	ARG	NE-CZ-NH1	-11.63	114.49	120.30
36	1	1375	G	N9-C4-C5	11.63	110.05	105.40
85	5	509	U	N1-C2-N3	11.63	121.88	114.90
85	5	2814	G	N1-C6-O6	11.63	126.88	119.90
36	1	925	A	N9-C4-C5	11.62	110.45	105.80
38	4	32	C	N3-C4-C5	11.62	126.55	121.90
80	6	20	G	O5'-P-OP1	-11.62	95.24	105.70
85	5	2900	A	N7-C8-N9	-11.62	107.99	113.80
36	1	1148	G	C4-C5-N7	11.62	115.45	110.80
85	5	981	U	C5-C6-N1	11.62	128.51	122.70
85	5	1903	U	C5-C6-N1	11.62	128.51	122.70
36	1	88	A	C4-C5-N7	-11.62	104.89	110.70
36	1	2928	C	C4-C5-C6	11.62	123.21	117.40
36	1	2629	U	O5'-P-OP1	-11.61	95.25	105.70
36	1	3248	C	N1-C2-O2	-11.61	111.93	118.90
85	5	437	G	C5-C6-N1	11.61	117.31	111.50
85	5	880	G	O5'-P-OP2	-11.61	95.25	105.70
85	5	1152	G	O5'-P-OP1	-11.61	95.25	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	65	G	N7-C8-N9	11.61	118.91	113.10
38	8	79	A	C8-N9-C4	-11.61	101.16	105.80
85	5	349	A	C8-N9-C4	-11.61	101.16	105.80
85	5	1779	C	O4'-C1'-N1	-11.61	98.91	108.20
85	5	2134	G	C8-N9-C4	11.61	111.04	106.40
36	1	1644	C	C6-N1-C2	-11.61	115.66	120.30
85	5	2620	G	N7-C8-N9	11.61	118.90	113.10
36	1	3026	G	C4-C5-C6	11.60	125.76	118.80
85	5	2830	G	C8-N9-C4	11.60	111.04	106.40
85	5	715	A	N1-C6-N6	-11.60	111.64	118.60
85	5	1429	G	C5-C6-N1	11.60	117.30	111.50
85	5	2704	A	OP2-P-O3'	11.60	130.72	105.20
85	5	1019	G	C5-C6-O6	11.60	135.56	128.60
85	5	2938	G	C5-C6-N1	11.60	117.30	111.50
80	6	596	C	N1-C2-O2	-11.60	111.94	118.90
85	5	349	A	C5-C6-N1	11.60	123.50	117.70
85	5	734	C	N3-C4-C5	11.60	126.54	121.90
85	5	917	A	N7-C8-N9	11.60	119.60	113.80
38	8	11	C	N3-C4-C5	-11.60	117.26	121.90
85	5	64	G	C8-N9-C4	-11.59	101.76	106.40
85	5	795	G	C2-N3-C4	-11.59	106.10	111.90
80	6	419	G	N7-C8-N9	11.59	118.90	113.10
38	8	2	A	C8-N9-C4	-11.59	101.16	105.80
36	1	208	C	C6-N1-C2	-11.59	115.66	120.30
36	1	375	A	N1-C6-N6	-11.59	111.65	118.60
36	1	2873	U	C5-C6-N1	-11.59	116.91	122.70
80	6	1148	C	N3-C2-O2	-11.59	113.79	121.90
36	1	2906	C	C2-N3-C4	-11.59	114.11	119.90
85	5	1116	G	N1-C6-O6	-11.59	112.95	119.90
85	5	3094	A	C5-C6-N1	-11.59	111.91	117.70
85	5	3300	U	C4-C5-C6	11.59	126.65	119.70
1	2	343	C	C6-N1-C2	-11.59	115.67	120.30
80	6	442	C	O5'-P-OP2	-11.59	95.27	105.70
36	1	89	A	N9-C4-C5	11.59	110.43	105.80
36	1	883	A	N9-C4-C5	11.58	110.43	105.80
36	1	898	U	C5-C4-O4	-11.58	118.95	125.90
36	1	2434	U	N3-C2-O2	-11.58	114.09	122.20
80	6	1010	C	N3-C4-C5	-11.58	117.27	121.90
80	6	1755	A	O5'-P-OP1	-11.58	95.28	105.70
85	5	1355	A	C5-C6-N1	-11.58	111.91	117.70
85	5	3105	U	C5-C6-N1	-11.58	116.91	122.70
1	2	553	G	C6-C5-N7	-11.58	123.45	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	590	G	C5-C6-O6	-11.58	121.65	128.60
80	6	1645	G	C5-N7-C8	-11.58	98.51	104.30
36	1	400	G	C6-C5-N7	-11.58	123.45	130.40
36	1	1450	G	C4-C5-N7	11.58	115.43	110.80
85	5	139	G	C5-C6-O6	-11.58	121.66	128.60
85	5	872	U	C5-C4-O4	-11.57	118.95	125.90
38	8	62	C	N3-C2-O2	11.57	130.00	121.90
36	1	2209	U	C5-C4-O4	-11.57	118.96	125.90
36	1	2687	G	O5'-P-OP2	-11.57	95.28	105.70
36	1	1371	G	N7-C8-N9	-11.57	107.31	113.10
80	6	82	U	O5'-P-OP2	-11.57	95.28	105.70
85	5	2900	A	C8-N9-C4	11.57	110.43	105.80
38	4	16	G	C6-N1-C2	-11.57	118.16	125.10
80	6	151	G	N9-C4-C5	11.57	110.03	105.40
85	5	1462	A	O5'-P-OP2	11.57	124.58	110.70
85	5	1878	G	C5-C6-N1	11.57	117.28	111.50
85	5	2167	A	C8-N9-C4	-11.57	101.17	105.80
85	5	2626	A	N1-C2-N3	11.57	135.09	129.30
36	1	2647	A	C5-C6-N6	-11.57	114.45	123.70
36	1	2726	C	N1-C2-O2	-11.57	111.96	118.90
85	5	2208	A	C2-N3-C4	-11.57	104.82	110.60
85	5	774	G	N3-C2-N2	-11.56	111.81	119.90
85	5	910	G	C5-N7-C8	-11.56	98.52	104.30
85	5	1596	C	C4-C5-C6	11.56	123.18	117.40
85	5	2716	U	C5-C4-O4	11.56	132.84	125.90
80	6	1421	A	C8-N9-C4	11.56	110.42	105.80
85	5	725	G	C4-C5-N7	-11.56	106.18	110.80
85	5	1155	C	C5-C6-N1	11.56	126.78	121.00
85	5	2624	G	C8-N9-C4	-11.56	101.78	106.40
36	1	2802	A	C2-N3-C4	-11.56	104.82	110.60
36	1	77	A	N1-C2-N3	11.56	135.08	129.30
36	1	895	A	C5-N7-C8	-11.56	98.12	103.90
85	5	393	U	N3-C4-O4	11.56	127.49	119.40
85	5	2208	A	C4-C5-N7	-11.56	104.92	110.70
85	5	2420	C	C5-C4-N4	-11.56	112.11	120.20
85	5	2599	U	N1-C2-O2	-11.56	114.71	122.80
85	5	2642	A	C2-N3-C4	-11.56	104.82	110.60
85	5	2642	A	O5'-P-OP2	-11.56	95.30	105.70
85	5	2950	G	N7-C8-N9	11.56	118.88	113.10
36	1	405	U	N1-C2-O2	11.56	130.89	122.80
36	1	224	C	N3-C2-O2	11.55	129.99	121.90
85	5	643	U	C5-C4-O4	-11.55	118.97	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	280	U	O5'-P-OP1	-11.55	95.30	105.70
36	1	697	A	O5'-P-OP1	-11.55	95.30	105.70
80	6	1789	G	C6-N1-C2	-11.55	118.17	125.10
85	5	711	A	C2-N3-C4	-11.55	104.82	110.60
85	5	984	G	C6-C5-N7	-11.55	123.47	130.40
80	6	28	A	C8-N9-C4	-11.55	101.18	105.80
85	5	207	U	C5-C4-O4	-11.55	118.97	125.90
85	5	383	G	C2-N3-C4	-11.55	106.12	111.90
38	8	52	A	C8-N9-C4	-11.55	101.18	105.80
1	2	312	A	N1-C2-N3	11.55	135.07	129.30
36	1	1513	G	C6-N1-C2	-11.55	118.17	125.10
37	7	65	G	C8-N9-C4	-11.55	101.78	106.40
36	1	41	G	C8-N9-C4	-11.55	101.78	106.40
36	1	1152	G	N3-C2-N2	-11.55	111.82	119.90
36	1	2827	U	N3-C4-O4	11.54	127.48	119.40
85	5	649	A	C5-C6-N6	-11.54	114.46	123.70
85	5	997	A	C6-N1-C2	-11.54	111.67	118.60
80	6	548	G	N3-C2-N2	-11.54	111.82	119.90
85	5	2613	U	N1-C2-N3	11.54	121.83	114.90
85	5	2693	C	C5-C6-N1	-11.54	115.23	121.00
85	5	2925	C	C5-C6-N1	-11.54	115.23	121.00
85	5	2944	U	N3-C4-O4	-11.54	111.32	119.40
36	1	1852	G	N9-C4-C5	-11.54	100.78	105.40
85	5	787	G	O5'-P-OP1	-11.54	95.32	105.70
85	5	1194	G	C2-N3-C4	11.54	117.67	111.90
85	5	1418	A	N1-C6-N6	11.54	125.52	118.60
36	1	1348	U	N1-C2-N3	-11.53	107.98	114.90
85	5	2267	C	C2-N3-C4	-11.54	114.13	119.90
36	1	1111	U	C2-N3-C4	-11.53	120.08	127.00
36	1	2380	U	C4-C5-C6	-11.53	112.78	119.70
85	5	2272	G	C5-C6-O6	-11.53	121.68	128.60
36	1	2646	C	C4-C5-C6	11.53	123.17	117.40
85	5	2903	A	N1-C2-N3	11.53	135.06	129.30
85	5	1598	G	N1-C6-O6	-11.53	112.98	119.90
36	1	826	G	N1-C6-O6	11.53	126.82	119.90
80	6	594	A	N1-C6-N6	-11.53	111.68	118.60
36	1	2136	C	N3-C4-C5	-11.53	117.29	121.90
80	6	396	G	N1-C2-N2	-11.53	105.83	116.20
85	5	1382	G	C4-C5-N7	11.53	115.41	110.80
36	1	913	A	C5-N7-C8	-11.52	98.14	103.90
36	1	2205	U	O5'-P-OP2	-11.52	95.33	105.70
80	6	778	G	C5-C6-N1	11.52	117.26	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1107	C	N1-C2-O2	-11.52	111.99	118.90
36	1	18	G	N7-C8-N9	11.52	118.86	113.10
80	6	565	C	N3-C4-N4	-11.52	109.94	118.00
85	5	195	U	N1-C2-O2	-11.52	114.74	122.80
85	5	760	G	N1-C6-O6	11.52	126.81	119.90
36	1	1825	G	N9-C4-C5	-11.52	100.79	105.40
85	5	404	G	C8-N9-C4	-11.52	101.79	106.40
85	5	703	G	O5'-P-OP1	-11.52	95.33	105.70
85	5	2865	U	N1-C2-N3	-11.52	107.99	114.90
85	5	2820	A	N7-C8-N9	11.52	119.56	113.80
36	1	815	G	N3-C2-N2	-11.51	111.84	119.90
80	6	1653	C	C4-C5-C6	11.51	123.16	117.40
85	5	82	C	C4-C5-C6	11.51	123.16	117.40
85	5	1070	U	N3-C2-O2	-11.51	114.14	122.20
85	5	3332	U	C5-C4-O4	-11.51	118.99	125.90
37	7	77	G	N1-C6-O6	-11.51	112.99	119.90
37	7	109	G	C8-N9-C4	-11.51	101.80	106.40
85	5	2181	C	C6-N1-C2	11.51	124.90	120.30
85	5	743	C	C6-N1-C2	-11.51	115.70	120.30
85	5	878	G	N7-C8-N9	11.51	118.86	113.10
85	5	3240	C	C4-C5-C6	-11.51	111.64	117.40
36	1	1413	G	N1-C6-O6	11.51	126.80	119.90
80	6	54	C	N3-C2-O2	11.51	129.95	121.90
85	5	1005	G	C5-C6-N1	-11.51	105.75	111.50
85	5	1313	G	C5-C6-N1	-11.51	105.75	111.50
85	5	2430	A	C2-N3-C4	-11.51	104.85	110.60
85	5	3019	U	O5'-P-OP1	-11.51	95.35	105.70
85	5	3215	A	C4-C5-N7	11.51	116.45	110.70
36	1	1122	U	C6-N1-C2	-11.50	114.10	121.00
36	1	773	G	N1-C2-N2	11.50	126.55	116.20
85	5	1301	A	C5-N7-C8	-11.50	98.15	103.90
85	5	2698	G	C5-C6-O6	11.50	135.50	128.60
38	8	41	A	OP2-P-O3'	11.50	130.51	105.20
36	1	2149	A	C8-N9-C4	11.50	110.40	105.80
85	5	1205	A	C8-N9-C4	-11.50	101.20	105.80
36	1	1307	G	C6-N1-C2	-11.50	118.20	125.10
38	4	66	A	C2-N3-C4	-11.50	104.85	110.60
80	6	1044	U	O5'-P-OP2	-11.50	95.35	105.70
37	3	82	G	C4-C5-N7	-11.49	106.20	110.80
80	6	335	U	N1-C2-N3	11.49	121.80	114.90
80	6	347	G	C4-C5-N7	-11.49	106.20	110.80
85	5	645	A	N9-C4-C5	11.49	110.40	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1448	U	C6-N1-C2	11.49	127.90	121.00
36	1	2758	A	C6-C5-N7	11.49	140.34	132.30
85	5	808	A	C5-C6-N6	-11.49	114.51	123.70
36	1	343	U	C2-N3-C4	-11.49	120.11	127.00
85	5	769	G	C8-N9-C4	11.49	111.00	106.40
85	5	1725	C	N1-C2-O2	-11.49	112.01	118.90
36	1	379	C	N1-C2-O2	-11.48	112.01	118.90
36	1	1805	C	C2-N3-C4	-11.48	114.16	119.90
85	5	1494	U	N1-C2-N3	11.48	121.79	114.90
85	5	2220	A	C8-N9-C4	-11.48	101.21	105.80
85	5	2303	A	N1-C6-N6	11.48	125.49	118.60
37	7	115	G	C5-C6-N1	11.48	117.24	111.50
80	6	628	G	C2-N3-C4	-11.48	106.16	111.90
80	6	561	G	N1-C6-O6	11.48	126.79	119.90
85	5	108	A	C8-N9-C4	11.48	110.39	105.80
85	5	1012	G	N1-C6-O6	11.48	126.79	119.90
85	5	1474	A	C2-N3-C4	-11.48	104.86	110.60
85	5	1693	C	N1-C2-O2	11.48	125.79	118.90
85	5	2187	G	N7-C8-N9	11.48	118.84	113.10
37	7	75	G	N3-C4-C5	11.48	134.34	128.60
85	5	2403	G	C4-C5-C6	11.48	125.69	118.80
36	1	105	C	C5-C4-N4	-11.47	112.17	120.20
36	1	229	G	C8-N9-C4	-11.47	101.81	106.40
85	5	1667	A	C5-N7-C8	-11.47	98.16	103.90
36	1	1005	G	C8-N9-C4	11.47	110.99	106.40
85	5	174	C	N3-C4-C5	11.47	126.49	121.90
85	5	1409	G	N1-C2-N2	-11.47	105.88	116.20
85	5	2603	G	N3-C4-C5	11.47	134.34	128.60
37	3	87	G	C8-N9-C4	-11.47	101.81	106.40
85	5	2156	C	N3-C4-C5	11.47	126.49	121.90
85	5	3373	U	C2-N3-C4	-11.47	120.12	127.00
36	1	577	C	N3-C4-C5	-11.47	117.31	121.90
36	1	1725	C	N1-C2-O2	-11.47	112.02	118.90
36	1	2709	C	N3-C2-O2	-11.47	113.87	121.90
80	6	578	U	C5-C6-N1	-11.47	116.97	122.70
85	5	1201	C	N3-C4-N4	11.47	126.03	118.00
85	5	2389	C	OP1-P-OP2	-11.47	102.40	119.60
1	2	54	C	C6-N1-C2	-11.47	115.71	120.30
36	1	751	A	C4-C5-N7	11.47	116.43	110.70
36	1	974	G	N1-C6-O6	-11.46	113.02	119.90
37	7	95	A	C8-N9-C4	-11.47	101.21	105.80
1	2	433	C	C6-N1-C2	-11.46	115.72	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	28	C	O5'-P-OP2	-11.46	95.39	105.70
36	1	1045	C	N3-C4-C5	-11.46	117.32	121.90
36	1	1643	A	C5-C6-N1	11.46	123.43	117.70
85	5	513	G	N3-C4-C5	-11.46	122.87	128.60
37	7	103	A	C2-N3-C4	11.46	116.33	110.60
1	2	1765	A	C5-C6-N1	-11.46	111.97	117.70
36	1	2136	C	N3-C2-O2	11.46	129.92	121.90
36	1	2647	A	C5-N7-C8	-11.46	98.17	103.90
85	5	755	A	C5-C6-N6	-11.46	114.53	123.70
85	5	2731	U	O5'-P-OP1	-11.46	95.39	105.70
85	5	3180	A	N1-C6-N6	-11.46	111.73	118.60
1	2	1714	A	N1-C6-N6	11.46	125.47	118.60
36	1	755	A	C5-C6-N1	11.46	123.43	117.70
36	1	2645	G	C6-N1-C2	-11.46	118.23	125.10
36	1	2719	U	C4-C5-C6	11.46	126.57	119.70
36	1	2187	G	C2-N3-C4	-11.45	106.17	111.90
80	6	110	U	C5-C4-O4	11.45	132.77	125.90
85	5	2124	G	N1-C2-N3	11.46	130.77	123.90
85	5	2392	C	N3-C4-C5	11.45	126.48	121.90
36	1	1578	C	C2-N3-C4	11.45	125.62	119.90
85	5	1281	G	C8-N9-C4	-11.45	101.82	106.40
85	5	2624	G	N7-C8-N9	11.45	118.83	113.10
85	5	1035	G	N3-C4-C5	-11.45	122.88	128.60
85	5	1424	C	C4-C5-C6	-11.45	111.67	117.40
36	1	2223	A	C2-N3-C4	-11.45	104.88	110.60
36	1	2631	U	N3-C2-O2	-11.45	114.19	122.20
85	5	3239	G	N3-C4-C5	11.45	134.32	128.60
36	1	43	A	C6-N1-C2	11.45	125.47	118.60
36	1	657	A	C5-N7-C8	-11.45	98.18	103.90
36	1	2953	U	C6-N1-C2	-11.45	114.13	121.00
85	5	1373	A	C5-C6-N1	11.45	123.42	117.70
85	5	2344	U	N1-C2-N3	11.45	121.77	114.90
85	5	2922	G	C5-C6-O6	-11.44	121.73	128.60
36	1	387	A	N9-C4-C5	11.44	110.38	105.80
36	1	1563	C	N3-C4-C5	11.44	126.48	121.90
85	5	418	A	C5-N7-C8	-11.44	98.18	103.90
85	5	845	G	C5-C6-N1	11.44	117.22	111.50
85	5	1873	U	N3-C4-O4	11.44	127.41	119.40
85	5	2138	A	O5'-P-OP2	-11.44	95.40	105.70
36	1	2134	G	O5'-P-OP1	-11.44	95.41	105.70
85	5	193	C	C6-N1-C2	11.44	124.88	120.30
85	5	2775	U	N3-C2-O2	-11.44	114.19	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1202	A	C8-N9-C4	-11.44	101.23	105.80
37	7	76	A	C5-C6-N1	-11.44	111.98	117.70
36	1	1794	G	C6-C5-N7	-11.43	123.54	130.40
36	1	2326	A	C8-N9-C4	11.43	110.37	105.80
36	1	2972	G	N1-C2-N2	11.43	126.49	116.20
38	8	142	C	C2-N3-C4	-11.43	114.18	119.90
36	1	848	A	N1-C6-N6	-11.43	111.74	118.60
80	6	1151	A	C8-N9-C4	-11.43	101.23	105.80
36	1	293	C	C6-N1-C2	11.43	124.87	120.30
85	5	1067	U	O5'-P-OP1	-11.43	95.42	105.70
85	5	1116	G	C5-C6-O6	11.43	135.46	128.60
36	1	231	G	O5'-P-OP2	-11.43	95.42	105.70
36	1	1754	G	N1-C6-O6	11.43	126.76	119.90
36	1	1913	A	C2-N3-C4	11.43	116.31	110.60
85	5	2405	C	N1-C2-N3	11.43	127.20	119.20
85	5	2851	A	N1-C2-N3	11.43	135.01	129.30
85	5	3299	A	C4-C5-N7	-11.43	104.99	110.70
36	1	2859	U	N1-C2-O2	-11.42	114.80	122.80
85	5	2372	A	C2-N3-C4	11.42	116.31	110.60
1	2	245	U	C5-C6-N1	-11.42	116.99	122.70
36	1	233	C	C4-C5-C6	11.42	123.11	117.40
85	5	907	G	O5'-P-OP2	-11.42	95.42	105.70
85	5	2397	A	C5-C6-N1	11.42	123.41	117.70
85	5	2876	C	C5-C6-N1	-11.42	115.29	121.00
85	5	56	G	N1-C6-O6	11.42	126.75	119.90
85	5	3047	U	C5-C4-O4	11.42	132.75	125.90
85	5	3272	C	C6-N1-C2	11.42	124.87	120.30
85	5	50	U	C5-C6-N1	11.42	128.41	122.70
85	5	1112	A	C5-C6-N1	11.42	123.41	117.70
85	5	2120	A	O5'-P-OP2	-11.41	95.43	105.70
85	5	2767	U	C6-N1-C2	-11.41	114.15	121.00
36	1	1173	U	C5-C6-N1	-11.41	116.99	122.70
80	6	128	U	C5-C6-N1	-11.41	116.99	122.70
37	7	84	A	C5-C6-N1	11.41	123.41	117.70
80	6	1656	U	N3-C2-O2	11.41	130.19	122.20
36	1	1825	G	C8-N9-C4	11.41	110.96	106.40
85	5	1441	G	C5-C6-O6	-11.41	121.75	128.60
85	5	2095	G	N7-C8-N9	-11.41	107.39	113.10
85	5	2988	C	O5'-P-OP2	-11.41	95.43	105.70
36	1	644	G	N9-C4-C5	11.41	109.96	105.40
36	1	3241	G	C4-C5-N7	-11.41	106.24	110.80
80	6	415	C	C6-N1-C2	-11.41	115.74	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	778	U	OP1-P-OP2	-11.41	102.49	119.60
85	5	2278	C	N1-C2-N3	-11.41	111.22	119.20
38	8	43	A	O5'-P-OP2	-11.41	95.43	105.70
36	1	257	U	O5'-P-OP2	11.40	124.38	110.70
36	1	1298	C	C5-C6-N1	-11.40	115.30	121.00
36	1	1529	A	C2-N3-C4	-11.40	104.90	110.60
36	1	2613	U	N3-C4-C5	-11.40	107.76	114.60
80	6	1136	U	N1-C2-O2	11.40	130.78	122.80
36	1	1182	A	C2-N3-C4	-11.40	104.90	110.60
36	1	3099	C	N3-C2-O2	11.40	129.88	121.90
36	1	3108	G	N1-C6-O6	-11.40	113.06	119.90
80	6	1137	A	N3-C4-C5	11.40	134.78	126.80
36	1	1383	G	C4-C5-N7	11.40	115.36	110.80
36	1	1430	U	O5'-P-OP2	-11.40	95.44	105.70
85	5	219	A	C5-C6-N1	-11.40	112.00	117.70
85	5	588	G	C2-N3-C4	11.40	117.60	111.90
38	8	110	C	N1-C2-N3	11.40	127.18	119.20
36	1	3107	U	N3-C2-O2	-11.40	114.22	122.20
85	5	656	A	C6-C5-N7	-11.40	124.32	132.30
1	2	835	C	C6-N1-C2	11.39	124.86	120.30
85	5	755	A	N1-C6-N6	11.39	125.44	118.60
36	1	104	G	C6-C5-N7	-11.39	123.57	130.40
36	1	2954	U	N1-C2-O2	-11.39	114.83	122.80
80	6	364	G	N1-C2-N3	11.39	130.74	123.90
85	5	1197	A	N9-C4-C5	11.39	110.36	105.80
85	5	2404	A	N1-C2-N3	-11.39	123.60	129.30
37	7	85	G	C5-N7-C8	-11.39	98.61	104.30
36	1	59	G	C5-N7-C8	-11.39	98.61	104.30
36	1	1759	C	N3-C4-C5	11.39	126.45	121.90
85	5	1101	G	O5'-P-OP2	-11.39	95.45	105.70
36	1	3025	C	N3-C4-C5	11.39	126.45	121.90
80	6	1118	G	C5-C6-N1	-11.39	105.81	111.50
85	5	698	U	N1-C2-O2	-11.39	114.83	122.80
85	5	1434	G	C5-C6-O6	-11.39	121.77	128.60
54	m8	151	ARG	NE-CZ-NH1	-11.39	114.61	120.30
1	2	606	A	C2-N3-C4	-11.39	104.91	110.60
80	6	356	G	N1-C6-O6	-11.39	113.07	119.90
80	6	1129	U	C5-C4-O4	11.38	132.73	125.90
85	5	689	U	N1-C2-N3	11.39	121.73	114.90
85	5	2142	A	N9-C4-C5	11.38	110.35	105.80
85	5	2239	G	C4-C5-N7	11.38	115.35	110.80
85	5	3043	C	N3-C2-O2	11.39	129.87	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	886	C	C6-N1-C2	11.38	124.85	120.30
36	1	2802	A	OP2-P-O3'	11.38	130.24	105.20
80	6	143	G	C6-C5-N7	-11.38	123.57	130.40
85	5	121	A	N1-C6-N6	11.38	125.43	118.60
85	5	668	G	N1-C6-O6	-11.38	113.07	119.90
85	5	2140	U	OP1-P-OP2	-11.38	102.53	119.60
36	1	2982	A	C5-C6-N1	11.38	123.39	117.70
38	4	41	A	C4-C5-N7	-11.38	105.01	110.70
36	1	278	U	C5-C4-O4	11.38	132.73	125.90
36	1	329	U	N1-C2-N3	11.38	121.73	114.90
36	1	752	C	N3-C4-N4	-11.38	110.03	118.00
36	1	2679	A	C8-N9-C4	11.38	110.35	105.80
36	1	3188	G	C5-N7-C8	-11.38	98.61	104.30
85	5	1162	U	N3-C4-O4	11.38	127.36	119.40
85	5	2795	U	C5-C4-O4	-11.38	119.07	125.90
1	2	1727	A	N1-C2-N3	11.38	134.99	129.30
36	1	646	A	C6-N1-C2	-11.38	111.78	118.60
36	1	1079	A	N1-C2-N3	11.38	134.99	129.30
80	6	306	U	C5-C6-N1	-11.38	117.01	122.70
85	5	772	U	N3-C2-O2	11.38	130.16	122.20
36	1	1666	G	C8-N9-C4	-11.37	101.85	106.40
36	1	1933	A	N7-C8-N9	11.37	119.49	113.80
36	1	2174	G	C2-N3-C4	-11.37	106.21	111.90
36	1	2200	U	N1-C2-O2	-11.37	114.84	122.80
85	5	774	G	N1-C2-N3	11.38	130.72	123.90
85	5	1442	U	O5'-P-OP1	-11.37	95.46	105.70
36	1	2169	G	N3-C4-C5	-11.37	122.91	128.60
36	1	3079	U	N1-C2-O2	-11.37	114.84	122.80
80	6	1675	C	N3-C4-C5	-11.37	117.35	121.90
85	5	1304	A	O5'-P-OP2	-11.37	95.46	105.70
36	1	1457	U	N1-C2-O2	-11.37	114.84	122.80
80	6	1529	C	C6-N1-C2	-11.37	115.75	120.30
85	5	914	A	C2-N3-C4	-11.37	104.92	110.60
85	5	1324	U	O5'-P-OP2	-11.37	95.47	105.70
85	5	3120	C	N1-C2-O2	11.37	125.72	118.90
36	1	386	A	N1-C6-N6	11.37	125.42	118.60
36	1	1413	G	N7-C8-N9	11.37	118.78	113.10
36	1	2233	A	O5'-P-OP1	-11.37	95.47	105.70
36	1	1603	A	N9-C4-C5	11.37	110.35	105.80
36	1	3091	A	N1-C2-N3	11.37	134.98	129.30
80	6	387	A	N1-C6-N6	-11.37	111.78	118.60
85	5	2716	U	N1-C2-N3	11.37	121.72	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	397	A	N1-C6-N6	-11.36	111.78	118.60
36	1	115	A	N1-C6-N6	-11.36	111.78	118.60
80	6	1677	C	N1-C2-O2	11.36	125.72	118.90
85	5	3029	A	C5-C6-N6	11.36	132.79	123.70
36	1	1585	C	N1-C2-O2	-11.36	112.08	118.90
38	4	131	A	C5-C6-N6	-11.36	114.61	123.70
85	5	1440	G	N3-C2-N2	-11.36	111.95	119.90
85	5	1862	U	C4-C5-C6	11.36	126.52	119.70
85	5	2851	A	N7-C8-N9	11.36	119.48	113.80
85	5	3128	G	N7-C8-N9	11.36	118.78	113.10
36	1	702	C	O5'-P-OP1	11.36	124.33	110.70
36	1	2760	C	N3-C2-O2	11.36	129.85	121.90
85	5	2375	G	O5'-P-OP1	-11.36	95.48	105.70
68	o2	33	ARG	NE-CZ-NH2	-11.36	114.62	120.30
36	1	711	A	C6-N1-C2	-11.35	111.79	118.60
85	5	1454	A	N1-C6-N6	11.35	125.41	118.60
85	5	1476	G	N1-C2-N3	11.35	130.71	123.90
85	5	1729	A	C5-N7-C8	-11.35	98.22	103.90
36	1	2647	A	C4-C5-N7	11.35	116.38	110.70
85	5	2234	G	C8-N9-C4	11.35	110.94	106.40
85	5	2385	G	N3-C4-C5	11.35	134.28	128.60
37	7	60	G	C8-N9-C4	-11.35	101.86	106.40
85	5	1769	G	C5-C6-O6	-11.35	121.79	128.60
36	1	2180	G	C6-C5-N7	-11.35	123.59	130.40
36	1	2323	G	C6-N1-C2	-11.35	118.29	125.10
38	4	140	G	C5-C6-N1	-11.35	105.83	111.50
85	5	427	C	O5'-P-OP2	-11.35	95.49	105.70
85	5	1307	G	C5-C6-O6	-11.35	121.79	128.60
91	P	75	C	N3-C4-N4	11.35	125.94	118.00
38	4	121	U	N1-C2-N3	11.35	121.71	114.90
80	6	569	C	C4-C5-C6	11.35	123.07	117.40
85	5	965	A	C5-C6-N1	11.35	123.37	117.70
85	5	1045	C	C5-C6-N1	11.35	126.67	121.00
85	5	2995	A	N1-C6-N6	-11.35	111.79	118.60
85	5	3177	G	N3-C2-N2	-11.35	111.96	119.90
36	1	621	A	N7-C8-N9	11.34	119.47	113.80
36	1	2689	A	C5-C6-N6	11.34	132.77	123.70
85	5	3312	U	O5'-P-OP1	11.34	124.31	110.70
36	1	1375	G	C8-N9-C4	-11.34	101.86	106.40
1	2	1023	G	C8-N9-C4	-11.34	101.86	106.40
36	1	3052	G	C2-N3-C4	-11.34	106.23	111.90
85	5	359	U	N3-C4-O4	11.34	127.34	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	673	U	N1-C2-O2	-11.34	114.86	122.80
85	5	2864	A	C4-C5-N7	11.34	116.37	110.70
36	1	936	A	C5-C6-N6	11.34	132.77	123.70
36	1	3310	A	N1-C6-N6	11.34	125.40	118.60
80	6	1353	U	N3-C4-C5	11.34	121.40	114.60
85	5	1879	A	C6-C5-N7	-11.34	124.36	132.30
37	7	116	C	N1-C2-O2	-11.34	112.10	118.90
36	1	2617	U	C6-N1-C2	-11.34	114.20	121.00
85	5	994	G	C5-C6-N1	11.34	117.17	111.50
85	5	1848	G	N9-C4-C5	-11.34	100.87	105.40
85	5	2353	G	C4-C5-N7	11.34	115.33	110.80
85	5	2729	U	N3-C2-O2	11.34	130.13	122.20
85	5	3215	A	N7-C8-N9	11.34	119.47	113.80
38	8	16	G	OP1-P-OP2	-11.34	102.60	119.60
36	1	857	G	C4-C5-C6	11.33	125.60	118.80
36	1	2125	A	N1-C6-N6	11.33	125.40	118.60
36	1	497	C	C2-N3-C4	-11.33	114.23	119.90
80	6	1672	G	N3-C4-N9	-11.33	119.20	126.00
85	5	76	G	N1-C6-O6	11.33	126.70	119.90
85	5	1122	U	N1-C2-O2	-11.33	114.87	122.80
85	5	1433	A	C2-N3-C4	11.33	116.27	110.60
85	5	2179	C	N3-C4-C5	-11.33	117.37	121.90
38	8	80	A	C8-N9-C4	-11.33	101.27	105.80
36	1	584	G	N1-C2-N3	11.33	130.70	123.90
36	1	2879	C	N3-C2-O2	11.33	129.83	121.90
85	5	45	A	C5-N7-C8	-11.33	98.23	103.90
85	5	844	G	N1-C2-N3	11.33	130.70	123.90
36	1	93	C	O5'-P-OP2	-11.33	95.50	105.70
85	5	656	A	C5-N7-C8	-11.33	98.24	103.90
85	5	1404	G	N1-C2-N3	11.33	130.70	123.90
85	5	1773	C	C6-N1-C2	-11.33	115.77	120.30
85	5	2190	U	N1-C2-O2	-11.33	114.87	122.80
85	5	2850	G	C5-C6-N1	-11.33	105.84	111.50
36	1	1158	A	OP1-P-OP2	-11.32	102.61	119.60
85	5	215	G	N1-C2-N3	11.32	130.69	123.90
85	5	327	A	C2-N3-C4	11.32	116.26	110.60
85	5	1093	A	C8-N9-C4	11.32	110.33	105.80
85	5	1619	A	C2-N3-C4	-11.32	104.94	110.60
85	5	2414	G	N9-C4-C5	-11.32	100.87	105.40
85	5	3292	A	N1-C6-N6	11.32	125.39	118.60
85	5	1418	A	N1-C2-N3	11.32	134.96	129.30
36	1	3011	A	N7-C8-N9	-11.32	108.14	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	918	C	N3-C4-N4	11.32	125.92	118.00
85	5	1934	G	C2-N3-C4	-11.32	106.24	111.90
85	5	1401	A	C6-N1-C2	-11.32	111.81	118.60
36	1	993	G	O5'-P-OP2	-11.32	95.52	105.70
36	1	3309	G	N1-C2-N3	11.32	130.69	123.90
36	1	1351	U	N3-C4-O4	11.32	127.32	119.40
80	6	1661	U	O5'-P-OP2	-11.32	95.52	105.70
85	5	228	U	C5-C4-O4	-11.32	119.11	125.90
85	5	958	C	N3-C2-O2	-11.32	113.98	121.90
1	2	389	G	N1-C6-O6	-11.31	113.11	119.90
36	1	89	A	O5'-P-OP1	11.31	124.28	110.70
85	5	3003	G	C2-N3-C4	-11.31	106.24	111.90
85	5	2721	A	N7-C8-N9	11.31	119.46	113.80
85	5	3140	G	C8-N9-C4	-11.31	101.88	106.40
38	8	111	A	N7-C8-N9	11.31	119.46	113.80
37	3	94	C	N3-C4-N4	11.31	125.92	118.00
36	1	2752	U	C2-N3-C4	-11.31	120.21	127.00
85	5	723	U	C6-N1-C2	11.31	127.79	121.00
85	5	1609	C	N3-C2-O2	11.31	129.82	121.90
36	1	18	G	C6-C5-N7	-11.31	123.61	130.40
36	1	435	C	N3-C2-O2	11.31	129.82	121.90
80	6	957	G	C5-C6-N1	-11.31	105.85	111.50
80	6	1264	G	C4-C5-C6	-11.31	112.02	118.80
85	5	1063	G	C8-N9-C4	-11.31	101.88	106.40
36	1	1949	G	C5-C6-O6	-11.31	121.82	128.60
38	4	128	U	C6-N1-C2	11.31	127.78	121.00
85	5	1879	A	N1-C6-N6	11.30	125.38	118.60
85	5	3045	G	O5'-P-OP2	-11.31	95.52	105.70
36	1	1323	G	N1-C6-O6	-11.30	113.12	119.90
85	5	1662	G	N3-C4-N9	-11.30	119.22	126.00
1	2	1110	G	C4-C5-N7	-11.30	106.28	110.80
36	1	104	G	C4-C5-N7	11.30	115.32	110.80
36	1	1101	G	N3-C2-N2	-11.30	111.99	119.90
85	5	1173	U	O5'-P-OP2	-11.30	95.53	105.70
85	5	2753	G	N7-C8-N9	11.30	118.75	113.10
85	5	2841	G	N9-C4-C5	-11.30	100.88	105.40
85	5	3223	A	C2-N3-C4	11.30	116.25	110.60
85	5	2355	G	C5-C6-N1	-11.30	105.85	111.50
85	5	2960	C	C2-N3-C4	-11.30	114.25	119.90
36	1	2185	G	N3-C2-N2	-11.30	111.99	119.90
36	1	2968	G	C2-N3-C4	-11.30	106.25	111.90
1	2	67	A	N7-C8-N9	-11.29	108.15	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	198	A	C8-N9-C4	-11.29	101.28	105.80
36	1	374	A	O5'-P-OP2	-11.29	95.54	105.70
36	1	1364	C	C2-N3-C4	-11.29	114.25	119.90
36	1	2282	U	N3-C2-O2	-11.29	114.29	122.20
85	5	1892	G	C5-C6-O6	-11.29	121.82	128.60
91	p	75	C	N3-C4-N4	11.29	125.91	118.00
36	1	1109	U	N3-C4-O4	11.29	127.31	119.40
85	5	1393	A	N9-C4-C5	11.29	110.32	105.80
38	4	108	C	C4-C5-C6	11.29	123.05	117.40
80	6	1014	G	C5-C6-N1	-11.29	105.86	111.50
80	6	1100	G	C6-N1-C2	-11.29	118.33	125.10
85	5	164	A	N1-C6-N6	11.29	125.37	118.60
85	5	1345	G	C5-C6-O6	11.29	135.37	128.60
85	5	1499	C	N1-C2-O2	-11.29	112.13	118.90
36	1	342	A	C6-N1-C2	-11.29	111.83	118.60
36	1	2610	G	C2-N3-C4	-11.29	106.26	111.90
85	5	810	A	C4-C5-N7	11.29	116.34	110.70
85	5	1088	U	C5-C6-N1	11.29	128.34	122.70
38	8	103	G	C5-C6-O6	-11.29	121.83	128.60
36	1	859	G	C5-C6-N1	-11.29	105.86	111.50
36	1	886	C	C4-C5-C6	-11.29	111.76	117.40
36	1	1415	U	C4-C5-C6	11.29	126.47	119.70
38	8	77	A	C8-N9-C4	11.29	110.31	105.80
36	1	2980	U	N3-C4-O4	11.28	127.30	119.40
37	3	23	A	N7-C8-N9	11.28	119.44	113.80
85	5	1390	A	C5-C6-N6	11.29	132.73	123.70
85	5	2891	U	N1-C2-O2	11.28	130.70	122.80
85	5	2973	G	C8-N9-C4	-11.29	101.89	106.40
36	1	2244	A	O5'-P-OP2	-11.28	95.55	105.70
80	6	1645	G	N3-C2-N2	-11.28	112.00	119.90
85	5	1474	A	N1-C6-N6	11.28	125.37	118.60
85	5	1929	G	N1-C2-N2	-11.28	106.05	116.20
36	1	785	G	O5'-P-OP1	-11.28	95.55	105.70
36	1	973	A	C5-C6-N6	11.28	132.72	123.70
38	4	65	A	N1-C2-N3	11.28	134.94	129.30
36	1	2182	A	C6-N1-C2	-11.28	111.83	118.60
85	5	1246	G	N1-C6-O6	11.28	126.67	119.90
85	5	2680	A	C6-N1-C2	-11.28	111.83	118.60
85	5	2864	A	O5'-P-OP2	-11.28	95.55	105.70
85	5	3003	G	N1-C2-N3	11.28	130.67	123.90
36	1	242	C	C2-N3-C4	11.28	125.54	119.90
36	1	2202	C	C5-C6-N1	11.28	126.64	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	80	G	N7-C8-N9	-11.28	107.46	113.10
85	5	420	G	N7-C8-N9	-11.28	107.46	113.10
85	5	3299	A	N9-C4-C5	11.28	110.31	105.80
36	1	2670	G	C5-C6-O6	-11.27	121.84	128.60
85	5	1184	A	N1-C2-N3	11.27	134.94	129.30
85	5	2871	G	OP1-P-OP2	-11.27	102.69	119.60
36	1	2670	G	C2-N3-C4	-11.27	106.27	111.90
85	5	1391	C	C5-C4-N4	-11.27	112.31	120.20
85	5	2385	G	C5-C6-O6	11.27	135.36	128.60
1	2	1715	A	N9-C4-C5	11.27	110.31	105.80
36	1	747	A	C2-N3-C4	-11.27	104.97	110.60
36	1	3102	G	C5-C6-O6	11.27	135.36	128.60
85	5	1094	U	N1-C2-N3	-11.27	108.14	114.90
85	5	880	G	N3-C2-N2	-11.27	112.01	119.90
36	1	1324	U	C5-C6-N1	-11.27	117.07	122.70
85	5	3120	C	C5-C6-N1	11.27	126.63	121.00
1	2	857	C	C5-C6-N1	11.26	126.63	121.00
85	5	919	U	C2-N3-C4	-11.26	120.24	127.00
85	5	1865	A	N1-C2-N3	11.26	134.93	129.30
85	5	2752	U	N3-C2-O2	-11.26	114.32	122.20
1	2	57	G	N1-C6-O6	11.26	126.66	119.90
80	6	526	A	C8-N9-C4	-11.26	101.30	105.80
80	6	1742	U	N3-C4-O4	11.26	127.28	119.40
85	5	1443	G	N1-C6-O6	11.26	126.66	119.90
85	5	2790	A	N1-C6-N6	11.26	125.36	118.60
38	8	33	A	C5-C6-N6	-11.26	114.69	123.70
36	1	325	A	OP1-P-OP2	-11.26	102.71	119.60
36	1	1611	G	C5-C6-N1	-11.26	105.87	111.50
36	1	2893	C	N3-C2-O2	-11.26	114.02	121.90
85	5	1323	G	C8-N9-C4	-11.26	101.90	106.40
85	5	3128	G	C5-N7-C8	-11.26	98.67	104.30
36	1	510	G	C2-N3-C4	-11.25	106.27	111.90
36	1	1512	U	N3-C4-C5	-11.25	107.85	114.60
36	1	2323	G	N3-C4-C5	-11.25	122.97	128.60
36	1	3327	G	C5-C6-N1	-11.25	105.87	111.50
85	5	286	U	N3-C2-O2	-11.25	114.32	122.20
85	5	397	A	N7-C8-N9	-11.25	108.17	113.80
85	5	1103	A	C2-N3-C4	11.25	116.23	110.60
85	5	2164	A	N1-C2-N3	11.25	134.93	129.30
85	5	3015	G	C6-N1-C2	-11.25	118.35	125.10
36	1	944	C	N3-C2-O2	11.25	129.78	121.90
85	5	928	C	N3-C4-C5	-11.25	117.40	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2757	U	C6-N1-C2	-11.25	114.25	121.00
80	6	643	G	N1-C6-O6	11.25	126.65	119.90
80	6	1095	U	N3-C4-C5	-11.25	107.85	114.60
85	5	644	G	C8-N9-C4	-11.25	101.90	106.40
85	5	982	C	N3-C4-C5	11.25	126.40	121.90
85	5	1381	A	C2-N3-C4	-11.25	104.97	110.60
85	5	1416	C	C5-C4-N4	-11.25	112.33	120.20
36	1	1178	G	N1-C2-N3	11.25	130.65	123.90
80	6	1068	C	C6-N1-C2	11.25	124.80	120.30
85	5	1130	A	C5-C6-N1	11.25	123.32	117.70
85	5	2764	C	C4-C5-C6	-11.25	111.78	117.40
1	2	256	A	N1-C6-N6	-11.24	111.85	118.60
36	1	552	G	C8-N9-C4	-11.24	101.90	106.40
36	1	858	A	N9-C4-C5	11.24	110.30	105.80
36	1	1115	G	C6-C5-N7	-11.24	123.65	130.40
80	6	32	U	N1-C2-N3	11.24	121.65	114.90
85	5	929	A	O5'-P-OP2	-11.24	95.58	105.70
85	5	2409	G	C5-C6-N1	11.24	117.12	111.50
85	5	2425	G	C4-C5-N7	11.24	115.30	110.80
36	1	1753	G	N1-C6-O6	11.24	126.64	119.90
85	5	1909	A	N7-C8-N9	11.24	119.42	113.80
38	8	63	G	C2-N3-C4	-11.24	106.28	111.90
36	1	389	A	N1-C6-N6	-11.24	111.86	118.60
85	5	569	A	C8-N9-C4	11.24	110.30	105.80
85	5	2854	U	N3-C4-O4	11.24	127.27	119.40
36	1	2739	A	C5-C6-N6	-11.24	114.71	123.70
85	5	2873	U	OP1-P-OP2	-11.24	102.74	119.60
36	1	515	C	N3-C4-N4	11.24	125.86	118.00
85	5	1055	A	O5'-P-OP2	-11.24	95.59	105.70
85	5	1281	G	C4-C5-C6	-11.24	112.06	118.80
1	2	1653	G	C2-N3-C4	-11.23	106.28	111.90
85	5	2895	G	N1-C2-N3	11.23	130.64	123.90
36	1	73	C	N1-C2-O2	-11.23	112.16	118.90
36	1	604	G	O5'-P-OP1	-11.23	95.59	105.70
36	1	2759	U	N3-C4-O4	11.23	127.26	119.40
85	5	870	G	N3-C4-C5	11.23	134.22	128.60
85	5	1348	U	C5-C6-N1	11.23	128.32	122.70
36	1	1209	G	N3-C2-N2	-11.23	112.04	119.90
85	5	2408	U	N1-C2-N3	11.23	121.64	114.90
85	5	2637	A	N9-C4-C5	11.23	110.29	105.80
36	1	1222	G	C4-C5-N7	-11.23	106.31	110.80
85	5	386	A	C5-C6-N6	11.23	132.68	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	805	G	C6-N1-C2	-11.23	118.36	125.10
85	5	3072	C	C6-N1-C2	-11.23	115.81	120.30
36	1	120	G	C5-C6-O6	11.22	135.34	128.60
36	1	3046	A	C2-N3-C4	-11.22	104.99	110.60
36	1	2145	A	O5'-P-OP2	-11.22	95.60	105.70
85	5	1835	A	C2-N3-C4	-11.22	104.99	110.60
85	5	2927	C	C2-N3-C4	11.22	125.51	119.90
1	2	613	G	C5-C6-N1	11.22	117.11	111.50
36	1	230	U	N1-C2-O2	-11.22	114.95	122.80
36	1	2169	G	C4-C5-N7	-11.22	106.31	110.80
85	5	3022	G	C8-N9-C4	-11.22	101.91	106.40
36	1	1370	G	N1-C2-N3	11.22	130.63	123.90
36	1	1679	A	O5'-P-OP1	-11.21	95.61	105.70
36	1	3301	U	C5-C4-O4	11.22	132.63	125.90
36	1	2862	U	C5-C6-N1	-11.21	117.09	122.70
85	5	2915	U	C5-C4-O4	-11.21	119.17	125.90
36	1	197	G	C5-C6-N1	11.21	117.11	111.50
36	1	1134	G	N9-C4-C5	11.21	109.89	105.40
36	1	1401	A	C2-N3-C4	-11.21	104.99	110.60
37	7	10	C	C4-C5-C6	11.21	123.01	117.40
36	1	1308	A	C5-N7-C8	-11.21	98.30	103.90
36	1	2715	A	C2-N3-C4	11.21	116.20	110.60
36	1	1659	U	C6-N1-C2	-11.21	114.28	121.00
85	5	1317	A	C4-C5-N7	11.21	116.31	110.70
38	4	58	G	N1-C2-N2	-11.21	106.11	116.20
85	5	94	G	C8-N9-C4	11.21	110.88	106.40
85	5	216	G	N9-C4-C5	-11.21	100.92	105.40
85	5	2303	A	C2-N3-C4	-11.21	105.00	110.60
85	5	2976	A	N1-C2-N3	11.21	134.90	129.30
36	1	711	A	C5-N7-C8	11.21	109.50	103.90
38	4	36	G	O5'-P-OP1	-11.21	95.61	105.70
85	5	2364	G	C8-N9-C4	-11.21	101.92	106.40
38	4	17	A	C8-N9-C4	-11.20	101.32	105.80
80	6	403	G	C4-C5-N7	11.20	115.28	110.80
85	5	2908	G	N7-C8-N9	11.21	118.70	113.10
36	1	30	G	O5'-P-OP1	11.20	124.14	110.70
36	1	2740	A	C5-N7-C8	-11.20	98.30	103.90
38	4	103	G	N3-C4-N9	11.20	132.72	126.00
85	5	3190	C	N3-C2-O2	-11.20	114.06	121.90
85	5	3194	C	N1-C2-O2	11.20	125.62	118.90
36	1	340	C	C4-C5-C6	11.20	123.00	117.40
80	6	630	A	O5'-P-OP2	-11.20	95.62	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	987	U	O5'-P-OP1	11.20	124.14	110.70
36	1	3054	U	C4-C5-C6	11.20	126.42	119.70
38	4	109	A	N7-C8-N9	11.20	119.40	113.80
85	5	866	A	N9-C4-C5	-11.20	101.32	105.80
1	2	93	A	N1-C2-N3	11.20	134.90	129.30
36	1	1710	C	N3-C2-O2	-11.20	114.06	121.90
36	1	2939	G	C4-C5-N7	-11.20	106.32	110.80
37	3	80	G	OP1-P-OP2	-11.20	102.80	119.60
85	5	2116	G	O5'-P-OP2	-11.20	95.62	105.70
38	8	90	U	C5-C4-O4	-11.20	119.18	125.90
36	1	53	G	C4-C5-N7	-11.19	106.32	110.80
1	2	1715	A	C8-N9-C4	-11.19	101.32	105.80
36	1	1147	G	N1-C6-O6	-11.19	113.19	119.90
36	1	2754	G	N1-C6-O6	-11.19	113.19	119.90
85	5	1175	C	C4-C5-C6	-11.19	111.80	117.40
80	6	413	U	C2-N3-C4	-11.19	120.28	127.00
85	5	2669	G	N3-C2-N2	-11.19	112.07	119.90
85	5	2828	G	C5-C6-O6	-11.19	121.89	128.60
36	1	2761	G	O5'-P-OP2	-11.19	95.63	105.70
80	6	381	C	OP2-P-O3'	11.19	129.81	105.20
85	5	1405	U	N1-C2-N3	11.19	121.61	114.90
37	7	43	U	N1-C2-N3	11.19	121.61	114.90
1	2	1083	G	C2-N3-C4	-11.18	106.31	111.90
36	1	2384	A	O5'-P-OP1	-11.18	95.64	105.70
85	5	653	A	N7-C8-N9	11.18	119.39	113.80
85	5	1343	A	O5'-P-OP2	-11.18	95.64	105.70
36	1	33	G	N3-C2-N2	-11.18	112.07	119.90
38	4	147	U	O5'-P-OP1	-11.18	95.64	105.70
36	1	854	G	N1-C2-N3	11.18	130.61	123.90
36	1	960	U	C4-C5-C6	-11.18	112.99	119.70
85	5	1133	A	N1-C2-N3	11.18	134.89	129.30
85	5	2741	C	N3-C2-O2	11.18	129.73	121.90
36	1	2381	G	N7-C8-N9	11.18	118.69	113.10
36	1	2620	G	C5-C6-N1	11.18	117.09	111.50
85	5	930	U	C4-C5-C6	-11.18	112.99	119.70
37	7	91	G	O5'-P-OP1	-11.18	95.64	105.70
38	8	15	G	C8-N9-C4	-11.18	101.93	106.40
38	8	24	G	C6-N1-C2	-11.18	118.39	125.10
1	2	426	G	O5'-P-OP1	-11.18	95.64	105.70
1	2	555	A	C2-N3-C4	11.18	116.19	110.60
1	2	1152	G	C8-N9-C4	-11.18	101.93	106.40
36	1	1288	U	C5-C6-N1	-11.18	117.11	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2861	U	C5-C6-N1	-11.18	117.11	122.70
38	4	28	C	C6-N1-C2	-11.18	115.83	120.30
85	5	651	G	C5-C6-N1	-11.18	105.91	111.50
85	5	786	A	N1-C6-N6	11.18	125.31	118.60
85	5	1168	U	N1-C2-N3	11.18	121.61	114.90
85	5	1809	A	N1-C2-N3	11.18	134.89	129.30
36	1	885	U	N3-C4-C5	11.17	121.30	114.60
37	3	33	U	C5-C6-N1	-11.17	117.11	122.70
80	6	3	U	C5-C6-N1	-11.17	117.11	122.70
85	5	1137	C	C2-N3-C4	-11.17	114.31	119.90
37	7	91	G	N1-C2-N3	11.17	130.60	123.90
36	1	613	G	OP1-P-OP2	-11.17	102.84	119.60
36	1	1175	C	C5-C6-N1	-11.17	115.42	121.00
85	5	760	G	C4-C5-N7	11.17	115.27	110.80
85	5	2195	C	N3-C4-N4	-11.17	110.18	118.00
85	5	2759	U	C2-N3-C4	-11.17	120.30	127.00
1	2	1132	G	C5-C6-N1	11.17	117.08	111.50
36	1	591	G	C5-C6-N1	-11.17	105.92	111.50
36	1	984	G	C4-C5-N7	11.17	115.27	110.80
1	2	411	C	N3-C4-C5	-11.17	117.43	121.90
36	1	2380	U	C5-C4-O4	-11.17	119.20	125.90
80	6	1142	A	O5'-P-OP2	-11.17	95.65	105.70
85	5	1798	A	N1-C6-N6	-11.17	111.90	118.60
85	5	2356	A	C5-N7-C8	-11.17	98.32	103.90
85	5	2848	G	N9-C4-C5	11.17	109.87	105.40
85	5	41	G	C2-N3-C4	-11.16	106.32	111.90
85	5	2376	G	OP1-P-OP2	11.16	136.35	119.60
36	1	63	A	C4-C5-N7	11.16	116.28	110.70
36	1	368	G	C2-N3-C4	-11.16	106.32	111.90
38	4	93	U	N3-C4-C5	-11.16	107.90	114.60
80	6	127	G	C5-C6-N1	-11.16	105.92	111.50
85	5	2135	U	OP1-P-O3'	11.16	129.76	105.20
36	1	2778	G	C4-C5-N7	11.16	115.27	110.80
37	3	43	U	C5-C6-N1	-11.16	117.12	122.70
85	5	914	A	O5'-P-OP1	-11.16	95.66	105.70
36	1	1603	A	C6-N1-C2	-11.16	111.91	118.60
85	5	1181	U	O5'-P-OP1	-11.16	95.66	105.70
85	5	3033	A	OP1-P-OP2	-11.16	102.86	119.60
85	5	3345	G	N1-C6-O6	11.16	126.59	119.90
36	1	342	A	C5-C6-N1	11.16	123.28	117.70
36	1	2295	A	N7-C8-N9	11.16	119.38	113.80
80	6	1020	A	N1-C6-N6	-11.16	111.91	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3204	C	C2-N3-C4	-11.16	114.32	119.90
36	1	751	A	N1-C6-N6	11.15	125.29	118.60
36	1	903	U	N1-C2-N3	11.15	121.59	114.90
85	5	2636	A	N1-C6-N6	-11.15	111.91	118.60
85	5	3051	U	O5'-P-OP2	-11.15	95.66	105.70
37	7	82	G	C8-N9-C4	-11.15	101.94	106.40
36	1	2379	U	N3-C4-O4	11.15	127.21	119.40
85	5	2928	C	N3-C4-C5	-11.15	117.44	121.90
36	1	2161	G	C5-C6-N1	11.15	117.08	111.50
80	6	280	U	C5-C4-O4	-11.15	119.21	125.90
85	5	400	G	O5'-P-OP2	11.15	124.08	110.70
38	8	52	A	O5'-P-OP1	-11.15	95.67	105.70
36	1	1146	C	C5-C6-N1	11.15	126.57	121.00
36	1	2986	U	N1-C2-N3	11.15	121.59	114.90
85	5	555	U	N1-C2-O2	-11.15	115.00	122.80
85	5	2374	C	C4-C5-C6	11.15	122.97	117.40
36	1	1799	A	N1-C6-N6	-11.15	111.91	118.60
38	4	20	U	O5'-P-OP2	-11.15	95.67	105.70
38	4	147	U	C6-N1-C2	-11.15	114.31	121.00
85	5	366	A	C5-C6-N1	-11.15	112.13	117.70
85	5	2935	U	N3-C4-O4	11.15	127.20	119.40
80	6	323	A	N7-C8-N9	11.14	119.37	113.80
85	5	2877	G	C4-C5-C6	-11.14	112.11	118.80
1	2	354	C	C4-C5-C6	11.14	122.97	117.40
36	1	586	C	C6-N1-C2	11.14	124.76	120.30
36	1	1785	U	C5-C6-N1	-11.14	117.13	122.70
85	5	588	G	C5-C6-N1	11.14	117.07	111.50
85	5	1153	A	C6-N1-C2	-11.14	111.91	118.60
85	5	1484	U	N3-C4-C5	-11.14	107.91	114.60
85	5	2317	A	C5-C6-N1	11.14	123.27	117.70
85	5	2640	A	C5-C6-N6	-11.14	114.78	123.70
36	1	3229	G	C4-C5-N7	11.14	115.26	110.80
38	4	110	C	C5-C6-N1	-11.14	115.43	121.00
80	6	143	G	C4-C5-N7	11.14	115.26	110.80
80	6	327	U	C5-C6-N1	11.14	128.27	122.70
80	6	758	U	N3-C2-O2	-11.14	114.40	122.20
85	5	382	U	C4-C5-C6	11.14	126.38	119.70
85	5	1662	G	N1-C2-N3	11.14	130.59	123.90
36	1	2689	A	N1-C6-N6	-11.14	111.92	118.60
85	5	1850	A	C8-N9-C4	-11.14	101.34	105.80
36	1	2647	A	N7-C8-N9	11.14	119.37	113.80
85	5	561	C	N3-C2-O2	-11.14	114.10	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3382	U	O5'-P-OP2	-11.14	95.67	105.70
85	5	1208	U	C5-C4-O4	11.14	132.58	125.90
36	1	148	G	C4-C5-N7	-11.13	106.35	110.80
36	1	641	C	N1-C2-N3	11.14	127.00	119.20
85	5	30	G	C2-N3-C4	-11.14	106.33	111.90
85	5	46	U	C5-C4-O4	-11.14	119.22	125.90
85	5	2607	G	C5-C6-N1	-11.14	105.93	111.50
36	1	369	A	C8-N9-C4	-11.13	101.35	105.80
36	1	497	C	C6-N1-C2	11.13	124.75	120.30
36	1	3133	C	C4-C5-C6	11.13	122.97	117.40
36	1	2623	G	C5-N7-C8	-11.13	98.73	104.30
36	1	3380	U	C5-C6-N1	11.13	128.27	122.70
85	5	2661	G	N1-C6-O6	-11.13	113.22	119.90
36	1	3085	G	N7-C8-N9	11.13	118.67	113.10
80	6	1119	G	N7-C8-N9	11.13	118.67	113.10
85	5	1370	G	N1-C2-N3	11.13	130.58	123.90
85	5	1443	G	C6-C5-N7	-11.13	123.72	130.40
1	2	93	A	C4-C5-N7	-11.13	105.14	110.70
80	6	1051	G	C8-N9-C1'	11.13	141.46	127.00
85	5	311	C	C2-N3-C4	-11.13	114.34	119.90
85	5	1012	G	C5-C6-N1	-11.13	105.94	111.50
85	5	2656	A	N7-C8-N9	11.13	119.36	113.80
85	5	2661	G	OP1-P-O3'	11.13	129.68	105.20
85	5	2804	A	C6-N1-C2	-11.13	111.92	118.60
85	5	3086	A	C4-C5-C6	11.12	122.56	117.00
1	2	137	U	N3-C2-O2	-11.12	114.41	122.20
36	1	56	G	C5-C6-N1	11.12	117.06	111.50
85	5	393	U	N3-C4-C5	-11.12	107.93	114.60
36	1	2830	G	N1-C6-O6	11.12	126.57	119.90
85	5	587	U	N3-C2-O2	11.12	129.99	122.20
85	5	2272	G	C5-C6-N1	11.12	117.06	111.50
38	8	75	G	C8-N9-C4	-11.12	101.95	106.40
85	5	879	U	C5-C6-N1	-11.12	117.14	122.70
1	2	1703	G	C8-N9-C4	11.12	110.85	106.40
36	1	680	G	C8-N9-C4	11.12	110.85	106.40
36	1	2375	G	N3-C4-C5	-11.12	123.04	128.60
80	6	603	U	OP1-P-O3'	11.12	129.66	105.20
85	5	2664	C	C5-C6-N1	11.12	126.56	121.00
85	5	3104	U	N1-C2-O2	-11.12	115.02	122.80
37	7	13	A	C5-C6-N1	11.12	123.26	117.70
36	1	3008	A	N7-C8-N9	11.12	119.36	113.80
85	5	1322	U	N1-C2-N3	11.12	121.57	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2344	U	OP1-P-OP2	-11.12	102.92	119.60
36	1	54	C	O5'-P-OP2	-11.12	95.70	105.70
36	1	2612	U	O5'-P-OP1	-11.12	95.70	105.70
36	1	712	G	N1-C6-O6	11.11	126.57	119.90
37	3	15	C	C6-N1-C2	11.11	124.75	120.30
85	5	1296	C	N3-C2-O2	-11.11	114.12	121.90
36	1	3210	A	OP1-P-OP2	-11.11	102.93	119.60
85	5	542	G	N9-C4-C5	-11.11	100.95	105.40
85	5	1919	G	C6-C5-N7	-11.11	123.73	130.40
85	5	3110	C	C6-N1-C2	11.11	124.74	120.30
36	1	1920	U	C4-C5-C6	11.11	126.36	119.70
36	1	2333	C	C2-N3-C4	-11.11	114.35	119.90
36	1	3208	G	N1-C6-O6	-11.11	113.23	119.90
85	5	420	G	C8-N9-C4	11.11	110.84	106.40
85	5	803	C	C5-C6-N1	11.11	126.55	121.00
37	7	85	G	N9-C4-C5	-11.11	100.96	105.40
36	1	1918	C	C6-N1-C2	-11.10	115.86	120.30
36	1	859	G	C4-C5-C6	11.10	125.46	118.80
36	1	1603	A	C5-C6-N1	11.10	123.25	117.70
36	1	2419	A	C5-C6-N6	11.10	132.58	123.70
85	5	179	C	N1-C2-O2	11.10	125.56	118.90
85	5	309	U	N3-C4-O4	11.10	127.17	119.40
85	5	2413	A	N1-C6-N6	11.10	125.26	118.60
85	5	2610	G	C4-C5-C6	11.10	125.46	118.80
36	1	504	A	N1-C2-N3	11.10	134.85	129.30
36	1	879	U	C4-C5-C6	-11.10	113.04	119.70
36	1	1589	A	N1-C2-N3	11.10	134.85	129.30
36	1	1673	G	C5-C6-N1	-11.10	105.95	111.50
36	1	3085	G	N1-C2-N3	11.10	130.56	123.90
85	5	1656	A	OP1-P-OP2	11.10	136.25	119.60
85	5	639	G	N3-C2-N2	-11.10	112.13	119.90
85	5	2282	U	N1-C2-N3	11.10	121.56	114.90
1	2	1016	C	N3-C4-C5	11.10	126.34	121.90
36	1	2385	G	N3-C2-N2	-11.10	112.13	119.90
85	5	73	C	C2-N3-C4	-11.10	114.35	119.90
85	5	3330	A	C8-N9-C4	-11.10	101.36	105.80
36	1	2315	G	C6-N1-C2	-11.09	118.44	125.10
85	5	937	G	N7-C8-N9	-11.09	107.55	113.10
38	8	4	C	N3-C2-O2	-11.09	114.14	121.90
1	2	1083	G	C5-C6-N1	-11.09	105.95	111.50
36	1	3283	U	N3-C2-O2	11.09	129.96	122.20
38	8	103	G	C6-C5-N7	-11.09	123.75	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	596	C	N1-C2-N3	11.09	126.96	119.20
36	1	933	A	N7-C8-N9	11.09	119.34	113.80
36	1	1431	G	N1-C6-O6	-11.09	113.25	119.90
36	1	1652	G	OP1-P-OP2	11.09	136.23	119.60
85	5	3181	C	N1-C2-O2	-11.09	112.25	118.90
1	2	109	G	C5-C6-N1	-11.09	105.96	111.50
36	1	2341	A	N1-C6-N6	-11.09	111.95	118.60
36	1	2418	G	C2-N3-C4	11.09	117.44	111.90
36	1	2847	A	C5-C6-N6	-11.09	114.83	123.70
85	5	2986	U	C4-C5-C6	11.09	126.35	119.70
80	6	1771	U	N1-C2-O2	-11.09	115.04	122.80
85	5	60	A	N9-C4-C5	11.09	110.23	105.80
85	5	1882	G	C4-C5-N7	11.09	115.23	110.80
85	5	3124	G	C5-C6-N1	-11.09	105.96	111.50
36	1	395	A	C8-N9-C4	-11.08	101.37	105.80
36	1	942	U	N3-C2-O2	-11.08	114.44	122.20
36	1	914	A	C5-C6-N6	11.08	132.57	123.70
36	1	1134	G	C8-N9-C4	-11.08	101.97	106.40
36	1	2627	C	C6-N1-C2	11.08	124.73	120.30
36	1	2969	A	C2-N3-C4	-11.08	105.06	110.60
85	5	2811	A	O5'-P-OP1	-11.08	95.72	105.70
80	6	1742	U	N3-C2-O2	11.08	129.96	122.20
85	5	348	A	N1-C2-N3	11.08	134.84	129.30
80	6	469	C	C2-N3-C4	11.08	125.44	119.90
36	1	1877	U	C5-C4-O4	11.08	132.55	125.90
36	1	2693	C	C5-C6-N1	-11.08	115.46	121.00
36	1	1361	U	N3-C4-O4	11.08	127.15	119.40
36	1	2980	U	OP1-P-O3'	11.08	129.57	105.20
80	6	1592	A	N7-C8-N9	11.08	119.34	113.80
85	5	802	C	N3-C2-O2	11.08	129.65	121.90
36	1	397	A	C6-N1-C2	-11.07	111.96	118.60
36	1	1594	A	N1-C6-N6	-11.07	111.96	118.60
36	1	1680	G	C8-N9-C4	11.07	110.83	106.40
36	1	1690	C	C6-N1-C2	11.07	124.73	120.30
80	6	50	C	N1-C2-O2	-11.07	112.26	118.90
85	5	3047	U	N1-C2-N3	11.07	121.55	114.90
80	6	163	G	N3-C4-C5	11.07	134.14	128.60
36	1	76	G	N1-C6-O6	-11.07	113.26	119.90
36	1	2944	U	C6-N1-C2	-11.07	114.36	121.00
80	6	871	G	C6-C5-N7	-11.07	123.76	130.40
85	5	398	A	O5'-P-OP2	-11.07	95.74	105.70
85	5	2432	A	N9-C4-C5	11.07	110.23	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2888	U	N1-C2-N3	11.07	121.54	114.90
36	1	916	G	N1-C6-O6	-11.07	113.26	119.90
85	5	21	G	C8-N9-C4	11.07	110.83	106.40
85	5	971	G	O5'-P-OP2	-11.07	95.74	105.70
85	5	119	U	C5-C6-N1	-11.07	117.17	122.70
85	5	2623	G	N7-C8-N9	-11.07	107.57	113.10
36	1	347	G	C6-C5-N7	-11.06	123.76	130.40
36	1	1470	U	C4-C5-C6	11.06	126.34	119.70
1	2	16	G	C5-C6-N1	11.06	117.03	111.50
38	4	29	U	N1-C2-O2	11.06	130.54	122.80
36	1	858	A	C8-N9-C4	-11.06	101.38	105.80
85	5	2968	G	N1-C2-N3	11.06	130.54	123.90
85	5	2986	U	N1-C2-N3	11.06	121.54	114.90
80	6	544	A	C8-N9-C4	11.06	110.22	105.80
80	6	1027	A	N3-C4-C5	11.06	134.54	126.80
36	1	653	A	N1-C6-N6	11.06	125.23	118.60
80	6	1652	C	C6-N1-C2	-11.06	115.88	120.30
38	8	24	G	N3-C4-C5	-11.06	123.07	128.60
36	1	511	G	N9-C4-C5	11.05	109.82	105.40
36	1	666	A	N1-C2-N3	11.05	134.83	129.30
80	6	1656	U	N1-C2-N3	-11.06	108.27	114.90
36	1	55	G	N7-C8-N9	-11.05	107.57	113.10
36	1	370	U	N1-C2-N3	11.05	121.53	114.90
36	1	1358	C	N1-C2-O2	-11.05	112.27	118.90
36	1	1585	C	C5-C6-N1	11.05	126.53	121.00
36	1	3286	G	C2-N3-C4	11.05	117.43	111.90
37	3	73	C	OP1-P-OP2	-11.05	103.02	119.60
85	5	729	C	N3-C4-N4	11.05	125.74	118.00
85	5	961	C	O5'-P-OP1	-11.05	95.75	105.70
85	5	2825	C	N3-C4-C5	11.05	126.32	121.90
85	5	2908	G	N3-C4-C5	11.05	134.13	128.60
1	2	1711	A	C5-C6-N1	-11.05	112.17	117.70
36	1	981	U	C5-C6-N1	11.05	128.22	122.70
36	1	1637	A	C8-N9-C4	11.05	110.22	105.80
36	1	1920	U	N1-C2-N3	11.05	121.53	114.90
36	1	3232	G	C8-N9-C4	-11.05	101.98	106.40
80	6	1293	U	N3-C4-C5	11.05	121.23	114.60
85	5	2357	A	O5'-P-OP2	-11.05	95.75	105.70
85	5	2948	C	C5-C4-N4	-11.05	112.47	120.20
37	7	91	G	C6-N1-C2	-11.05	118.47	125.10
1	2	1010	A	N7-C8-N9	11.05	119.32	113.80
36	1	935	U	N3-C4-C5	-11.05	107.97	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1379	G	OP1-P-OP2	-11.05	103.03	119.60
36	1	1514	G	O5'-P-OP2	-11.05	95.76	105.70
36	1	3273	A	C5-C6-N1	11.05	123.22	117.70
37	3	82	G	C8-N9-C4	-11.05	101.98	106.40
85	5	647	A	N9-C4-C5	11.05	110.22	105.80
85	5	1007	U	C5-C6-N1	-11.05	117.18	122.70
85	5	2725	U	C6-N1-C2	-11.05	114.37	121.00
1	2	517	U	C6-N1-C2	-11.05	114.37	121.00
85	5	2110	G	C2-N3-C4	-11.04	106.38	111.90
85	5	3262	U	O5'-P-OP2	-11.04	95.76	105.70
36	1	88	A	N9-C4-C5	11.04	110.22	105.80
36	1	872	U	O5'-P-OP1	11.04	123.95	110.70
38	4	7	U	N3-C4-C5	-11.04	107.98	114.60
80	6	1200	G	C5-C6-O6	-11.04	121.98	128.60
85	5	725	G	C8-N9-C4	11.04	110.82	106.40
36	1	357	A	C2-N3-C4	-11.04	105.08	110.60
36	1	947	G	O5'-P-OP1	-11.04	95.77	105.70
36	1	1452	A	C8-N9-C4	11.04	110.22	105.80
36	1	2244	A	C8-N9-C4	11.04	110.22	105.80
85	5	3133	C	N3-C4-N4	11.04	125.73	118.00
85	5	3224	G	O5'-P-OP1	-11.04	95.77	105.70
38	8	33	A	N1-C6-N6	11.04	125.22	118.60
36	1	621	A	C8-N9-C4	-11.04	101.39	105.80
36	1	880	G	C5-C6-O6	11.04	135.22	128.60
36	1	1318	A	N1-C2-N3	11.04	134.82	129.30
37	3	94	C	N3-C4-C5	-11.04	117.49	121.90
85	5	236	G	N1-C2-N2	11.03	126.13	116.20
85	5	1272	C	C5-C6-N1	11.04	126.52	121.00
85	5	1884	A	C5-C6-N1	-11.03	112.18	117.70
85	5	2302	G	OP1-P-OP2	-11.04	103.05	119.60
1	2	748	G	C2-N3-C4	11.03	117.42	111.90
85	5	2884	C	C2-N3-C4	11.03	125.42	119.90
85	5	3141	A	N7-C8-N9	11.03	119.31	113.80
36	1	3052	G	C5-C6-N1	-11.03	105.99	111.50
85	5	3324	C	N1-C2-O2	-11.03	112.28	118.90
36	1	1643	A	C2-N3-C4	11.03	116.11	110.60
36	1	2621	G	C8-N9-C4	-11.03	101.99	106.40
36	1	899	U	C5-C6-N1	-11.03	117.19	122.70
36	1	1823	A	C4-C5-C6	11.03	122.51	117.00
85	5	650	C	C2-N3-C4	-11.03	114.39	119.90
80	6	109	G	C2-N3-C4	-11.02	106.39	111.90
85	5	1170	A	C4-C5-C6	11.02	122.51	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	439	C	C2-N3-C4	11.02	125.41	119.90
36	1	659	G	N7-C8-N9	11.02	118.61	113.10
36	1	1155	C	N3-C4-C5	11.02	126.31	121.90
36	1	1823	A	N1-C6-N6	11.02	125.21	118.60
36	1	2951	G	N1-C6-O6	-11.02	113.29	119.90
85	5	2420	C	N3-C2-O2	11.02	129.62	121.90
85	5	3245	A	C5-N7-C8	-11.02	98.39	103.90
36	1	907	G	N3-C4-N9	11.02	132.61	126.00
36	1	2640	A	C6-N1-C2	-11.02	111.99	118.60
85	5	568	G	C5-C6-O6	-11.02	121.99	128.60
85	5	1003	A	N1-C6-N6	11.02	125.21	118.60
80	6	1670	G	C6-C5-N7	-11.02	123.79	130.40
85	5	2615	G	C6-C5-N7	-11.02	123.79	130.40
80	6	466	U	N3-C2-O2	-11.02	114.49	122.20
36	1	127	G	O5'-P-OP1	-11.01	95.79	105.70
85	5	2320	A	N1-C2-N3	11.01	134.81	129.30
36	1	2138	A	N1-C6-N6	11.01	125.21	118.60
85	5	363	G	C6-N1-C2	-11.01	118.49	125.10
85	5	921	A	C2-N3-C4	11.01	116.11	110.60
85	5	2831	G	C5-C6-O6	-11.01	121.99	128.60
36	1	1488	G	C5-C6-O6	11.01	135.21	128.60
36	1	2394	G	N1-C6-O6	-11.01	113.29	119.90
85	5	1007	U	N1-C2-O2	-11.01	115.09	122.80
80	6	575	C	C2-N3-C4	-11.01	114.39	119.90
36	1	913	A	C5-C6-N6	-11.01	114.89	123.70
36	1	2991	A	C6-C5-N7	-11.01	124.59	132.30
80	6	554	C	N1-C2-O2	11.01	125.50	118.90
85	5	213	A	N9-C4-C5	11.01	110.20	105.80
85	5	2615	G	N3-C4-C5	11.01	134.10	128.60
85	5	2735	U	C6-N1-C2	-11.01	114.40	121.00
36	1	3311	C	N1-C2-O2	11.00	125.50	118.90
80	6	1723	U	C5-C6-N1	-11.00	117.20	122.70
85	5	188	U	C5-C6-N1	11.00	128.20	122.70
85	5	1655	G	O5'-P-OP2	-11.00	95.80	105.70
36	1	286	U	N1-C2-O2	11.00	130.50	122.80
36	1	894	G	C6-C5-N7	-11.00	123.80	130.40
85	5	584	G	N3-C4-C5	-11.00	123.10	128.60
85	5	2381	G	C5-N7-C8	-11.00	98.80	104.30
80	6	1732	A	C2-N3-C4	-11.00	105.10	110.60
85	5	118	U	O5'-P-OP1	-11.00	95.80	105.70
38	8	95	G	C5-C6-N1	11.00	117.00	111.50
1	2	1440	C	C5-C6-N1	11.00	126.50	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	684	G	N3-C4-C5	11.00	134.10	128.60
36	1	2168	A	N1-C6-N6	-11.00	112.00	118.60
36	1	2610	G	C6-C5-N7	-11.00	123.80	130.40
80	6	1727	G	N1-C6-O6	11.00	126.50	119.90
85	5	773	G	C5-C6-N1	-11.00	106.00	111.50
85	5	2152	A	C5-C6-N1	-11.00	112.20	117.70
36	1	657	A	C4-C5-N7	10.99	116.20	110.70
80	6	619	A	C8-N9-C4	-10.99	101.40	105.80
85	5	375	A	OP1-P-O3'	10.99	129.39	105.20
85	5	722	G	C5-C6-O6	-10.99	122.00	128.60
80	6	1473	U	N3-C4-C5	-10.99	108.00	114.60
80	6	1529	C	N3-C4-C5	-10.99	117.50	121.90
85	5	434	U	N3-C2-O2	10.99	129.90	122.20
85	5	767	U	C5-C4-O4	10.99	132.50	125.90
85	5	1878	G	C8-N9-C4	-10.99	102.00	106.40
38	4	119	C	O5'-P-OP2	-10.99	95.81	105.70
36	1	10	C	C6-N1-C2	10.99	124.70	120.30
36	1	3242	G	C8-N9-C4	10.99	110.80	106.40
80	6	265	A	O5'-P-OP2	-10.99	95.81	105.70
80	6	1498	G	N3-C4-C5	10.99	134.09	128.60
85	5	50	U	N1-C2-O2	-10.99	115.11	122.80
85	5	1514	G	C8-N9-C4	-10.99	102.00	106.40
85	5	1886	A	N1-C2-N3	-10.99	123.81	129.30
36	1	507	U	N3-C4-C5	-10.99	108.01	114.60
36	1	1366	A	C5-N7-C8	-10.99	98.41	103.90
80	6	1656	U	OP1-P-OP2	-10.99	103.12	119.60
85	5	2753	G	C5-N7-C8	-10.99	98.81	104.30
85	5	2951	G	C8-N9-C4	-10.99	102.00	106.40
85	5	3270	U	O5'-P-OP1	-10.99	95.81	105.70
36	1	2298	U	C5-C4-O4	10.99	132.49	125.90
38	8	24	G	N1-C6-O6	-10.99	113.31	119.90
36	1	1202	A	C4-C5-N7	10.98	116.19	110.70
80	6	1382	A	OP1-P-OP2	-10.98	103.12	119.60
85	5	420	G	C4-C5-N7	-10.98	106.41	110.80
85	5	1447	G	C5-C6-N1	10.98	116.99	111.50
36	1	650	C	C5-C6-N1	10.98	126.49	121.00
36	1	982	C	N3-C2-O2	10.98	129.59	121.90
36	1	1799	A	C2-N3-C4	-10.98	105.11	110.60
85	5	216	G	C4-C5-N7	10.98	115.19	110.80
85	5	1203	A	N1-C2-N3	10.98	134.79	129.30
85	5	881	C	N3-C2-O2	-10.98	114.22	121.90
1	2	1135	A	C8-N9-C4	-10.98	101.41	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	140	C	N3-C4-C5	10.98	126.29	121.90
36	1	648	C	O5'-P-OP1	-10.98	95.82	105.70
36	1	1517	G	O5'-P-OP2	-10.98	95.82	105.70
85	5	508	U	O5'-P-OP2	10.98	123.87	110.70
85	5	2215	A	N3-C4-C5	10.98	134.48	126.80
36	1	283	G	N7-C8-N9	10.97	118.59	113.10
36	1	1906	G	C6-C5-N7	-10.97	123.81	130.40
85	5	614	C	N1-C2-O2	10.97	125.48	118.90
36	1	535	G	N3-C2-N2	-10.97	112.22	119.90
36	1	1132	C	C2-N3-C4	-10.97	114.41	119.90
85	5	273	A	C2-N3-C4	-10.97	105.11	110.60
85	5	625	G	N3-C2-N2	-10.97	112.22	119.90
85	5	2819	A	O5'-P-OP2	-10.97	95.82	105.70
36	1	143	G	C6-N1-C2	-10.97	118.52	125.10
36	1	1058	U	C5-C4-O4	-10.97	119.32	125.90
36	1	2732	G	C4-C5-N7	10.97	115.19	110.80
36	1	2945	G	C5-C6-O6	-10.97	122.02	128.60
85	5	810	A	N7-C8-N9	10.97	119.29	113.80
85	5	1004	U	C6-N1-C2	-10.97	114.42	121.00
85	5	2953	U	N1-C2-O2	10.97	130.48	122.80
38	4	96	A	C6-N1-C2	-10.97	112.02	118.60
85	5	104	G	C2-N3-C4	-10.97	106.42	111.90
85	5	1809	A	C2-N3-C4	-10.97	105.11	110.60
36	1	1685	C	N3-C2-O2	-10.97	114.22	121.90
36	1	2338	C	C5-C6-N1	-10.97	115.52	121.00
75	O9	45	ARG	NE-CZ-NH2	-10.97	114.82	120.30
85	5	220	G	O5'-P-OP2	-10.97	95.83	105.70
38	8	33	A	OP1-P-OP2	-10.97	103.15	119.60
85	5	374	A	N9-C4-C5	10.97	110.19	105.80
85	5	2273	G	N3-C4-N9	-10.97	119.42	126.00
36	1	859	G	N1-C6-O6	10.96	126.48	119.90
36	1	1154	A	C2-N3-C4	10.96	116.08	110.60
85	5	963	G	C5-N7-C8	10.96	109.78	104.30
85	5	2744	U	O5'-P-OP1	10.96	123.86	110.70
36	1	903	U	C6-N1-C2	-10.96	114.42	121.00
80	6	126	A	N1-C6-N6	-10.96	112.02	118.60
85	5	645	A	C6-N1-C2	-10.96	112.02	118.60
85	5	1662	G	N9-C4-C5	10.96	109.78	105.40
85	5	3010	U	N1-C2-N3	10.96	121.48	114.90
36	1	1151	U	C5-C6-N1	10.96	128.18	122.70
80	6	1015	U	N1-C2-N3	10.96	121.47	114.90
85	5	1321	G	C5-C6-N1	-10.96	106.02	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1887	A	C5-N7-C8	-10.96	98.42	103.90
80	6	1657	U	N1-C2-N3	-10.96	108.33	114.90
85	5	1869	C	N3-C2-O2	10.96	129.57	121.90
85	5	2627	C	N3-C4-C5	-10.96	117.52	121.90
80	6	1164	G	C5-C6-O6	-10.96	122.03	128.60
37	7	21	G	C8-N9-C4	-10.95	102.02	106.40
1	2	110	U	C6-N1-C2	-10.95	114.43	121.00
85	5	1429	G	C6-N1-C2	-10.95	118.53	125.10
85	5	3333	G	N1-C2-N3	10.95	130.47	123.90
36	1	55	G	N9-C4-C5	-10.95	101.02	105.40
36	1	1930	A	C8-N9-C4	-10.95	101.42	105.80
36	1	2701	U	C4-C5-C6	10.95	126.27	119.70
80	6	1109	G	N1-C6-O6	-10.95	113.33	119.90
85	5	206	G	N9-C4-C5	10.95	109.78	105.40
85	5	407	A	O5'-P-OP1	-10.95	95.85	105.70
85	5	1418	A	C4-C5-C6	10.95	122.47	117.00
85	5	2953	U	N3-C4-O4	10.95	127.06	119.40
36	1	107	A	C5-C6-N1	10.95	123.17	117.70
36	1	510	G	C4-C5-N7	10.95	115.18	110.80
36	1	845	G	C4-C5-N7	-10.95	106.42	110.80
36	1	2105	G	N7-C8-N9	10.95	118.57	113.10
36	1	2729	U	N3-C2-O2	10.95	129.86	122.20
85	5	1187	C	N3-C4-C5	10.95	126.28	121.90
36	1	2848	G	O5'-P-OP2	-10.95	95.85	105.70
85	5	57	A	N1-C6-N6	10.94	125.17	118.60
85	5	930	U	N1-C2-N3	-10.94	108.33	114.90
85	5	1483	G	C4-C5-N7	-10.95	106.42	110.80
85	5	2830	G	N7-C8-N9	-10.95	107.63	113.10
85	5	3373	U	C5-C6-N1	-10.94	117.23	122.70
36	1	5	G	C5-C6-N1	-10.94	106.03	111.50
36	1	677	A	C5-C6-N1	10.94	123.17	117.70
85	5	960	U	C5-C6-N1	10.94	128.17	122.70
85	5	3343	G	C5-C6-N1	-10.94	106.03	111.50
36	1	1834	U	C4-C5-C6	10.94	126.27	119.70
80	6	1742	U	N1-C2-O2	-10.94	115.14	122.80
85	5	2638	C	C6-N1-C2	-10.94	115.92	120.30
85	5	3042	U	C5-C4-O4	-10.94	119.33	125.90
1	2	891	U	N3-C4-O4	-10.94	111.74	119.40
1	2	1152	G	N3-C4-C5	-10.94	123.13	128.60
38	4	148	G	OP1-P-OP2	10.94	136.01	119.60
36	1	1898	G	C5-C6-N1	10.94	116.97	111.50
36	1	3275	U	C4-C5-C6	-10.94	113.14	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2238	G	OP1-P-OP2	-10.94	103.19	119.60
85	5	1362	G	N1-C2-N2	-10.94	106.36	116.20
80	6	1629	G	C4-C5-N7	-10.94	106.43	110.80
36	1	1400	G	C5-N7-C8	10.93	109.77	104.30
1	2	873	C	C6-N1-C2	10.93	124.67	120.30
80	6	1748	G	C8-N9-C4	10.93	110.77	106.40
85	5	3028	G	N1-C2-N2	-10.93	106.36	116.20
37	7	117	A	N1-C2-N3	10.93	134.77	129.30
36	1	92	G	N1-C2-N2	-10.93	106.36	116.20
80	6	941	A	C5-C6-N1	10.93	123.17	117.70
85	5	2425	G	C2-N3-C4	-10.93	106.43	111.90
38	8	21	C	N3-C2-O2	-10.93	114.25	121.90
36	1	22	G	C5-C6-N1	10.93	116.96	111.50
36	1	1330	A	C2-N3-C4	-10.93	105.14	110.60
36	1	3110	C	N3-C4-C5	-10.93	117.53	121.90
36	1	3142	A	N1-C2-N3	10.93	134.76	129.30
80	6	551	G	C5-C6-N1	-10.93	106.04	111.50
85	5	99	A	C8-N9-C4	10.93	110.17	105.80
85	5	1934	G	C6-C5-N7	-10.93	123.84	130.40
85	5	2876	C	N1-C2-O2	-10.93	112.34	118.90
85	5	2699	G	C8-N9-C4	10.93	110.77	106.40
85	5	3036	G	O5'-P-OP2	-10.93	95.87	105.70
37	7	114	U	C4-C5-C6	10.93	126.26	119.70
85	5	974	G	N9-C4-C5	10.92	109.77	105.40
36	1	745	C	C6-N1-C2	10.92	124.67	120.30
85	5	820	A	N9-C4-C5	10.92	110.17	105.80
85	5	2317	A	N1-C6-N6	-10.92	112.05	118.60
36	1	186	U	C5-C4-O4	10.92	132.45	125.90
36	1	948	C	C5-C6-N1	-10.92	115.54	121.00
36	1	1399	A	C2-N3-C4	-10.92	105.14	110.60
85	5	56	G	O5'-P-OP2	-10.92	95.87	105.70
85	5	2375	G	N3-C4-C5	-10.92	123.14	128.60
36	1	638	C	C6-N1-C2	-10.92	115.93	120.30
85	5	3057	U	N3-C2-O2	-10.92	114.56	122.20
36	1	2714	G	C5-N7-C8	-10.92	98.84	104.30
85	5	3138	U	O5'-P-OP2	-10.92	95.88	105.70
80	6	396	G	C5-C6-O6	10.91	135.15	128.60
80	6	446	A	N7-C8-N9	10.91	119.26	113.80
36	1	2984	C	C5-C6-N1	10.91	126.46	121.00
80	6	447	U	N3-C4-O4	10.91	127.04	119.40
1	2	131	C	C6-N1-C2	-10.91	115.94	120.30
36	1	1339	C	N1-C2-O2	10.91	125.45	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1359	C	C5-C6-N1	-10.91	115.55	121.00
36	1	2628	A	C5-C6-N1	10.91	123.16	117.70
38	4	92	A	N1-C2-N3	10.91	134.75	129.30
80	6	1086	A	C5-C6-N1	10.91	123.16	117.70
85	5	951	A	C5-C6-N1	-10.91	112.25	117.70
85	5	1136	A	N1-C2-N3	10.91	134.75	129.30
85	5	1368	U	C5-C4-O4	-10.91	119.36	125.90
36	1	704	U	N3-C4-O4	10.91	127.03	119.40
85	5	1508	C	C4-C5-C6	10.91	122.85	117.40
85	5	1855	U	C6-N1-C2	-10.91	114.46	121.00
85	5	1889	G	O5'-P-OP2	-10.91	95.88	105.70
85	5	3173	G	O5'-P-OP2	-10.91	95.88	105.70
36	1	515	C	N1-C2-O2	-10.90	112.36	118.90
36	1	865	U	N3-C4-O4	-10.90	111.77	119.40
36	1	2319	U	C6-N1-C2	-10.90	114.46	121.00
36	1	2959	C	N1-C2-O2	-10.90	112.36	118.90
85	5	1880	U	C5-C4-O4	10.90	132.44	125.90
85	5	1440	G	C8-N9-C4	-10.90	102.04	106.40
85	5	2116	G	N1-C6-O6	10.90	126.44	119.90
85	5	2400	G	N7-C8-N9	10.90	118.55	113.10
85	5	3244	A	N1-C6-N6	-10.90	112.06	118.60
36	1	305	U	N1-C2-N3	10.90	121.44	114.90
36	1	1802	C	C2-N3-C4	10.90	125.35	119.90
36	1	1952	G	C8-N9-C4	-10.90	102.04	106.40
36	1	2874	G	C2-N3-C4	-10.90	106.45	111.90
85	5	1065	A	O5'-P-OP1	-10.90	95.89	105.70
85	5	1102	A	C2-N3-C4	-10.90	105.15	110.60
85	5	2831	G	C6-N1-C2	-10.90	118.56	125.10
85	5	3204	C	C5-C6-N1	-10.90	115.55	121.00
36	1	1211	U	C2-N3-C4	-10.90	120.46	127.00
85	5	2520	A	O5'-P-OP1	-10.90	95.89	105.70
36	1	610	G	N3-C4-C5	10.90	134.05	128.60
36	1	1363	A	N1-C6-N6	-10.90	112.06	118.60
85	5	2951	G	C5-N7-C8	-10.90	98.85	104.30
85	5	2786	G	C2-N3-C4	-10.89	106.45	111.90
36	1	2197	C	N3-C4-C5	10.89	126.26	121.90
85	5	734	C	N1-C2-N3	-10.89	111.58	119.20
85	5	2350	C	C4-C5-C6	10.89	122.85	117.40
38	8	4	C	C2-N3-C4	-10.89	114.45	119.90
36	1	907	G	N3-C2-N2	10.89	127.52	119.90
85	5	1604	G	N3-C4-C5	-10.89	123.15	128.60
1	2	56	U	N3-C2-O2	-10.89	114.58	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	205	C	C6-N1-C2	-10.89	115.94	120.30
85	5	99	A	C2-N3-C4	-10.89	105.16	110.60
85	5	638	C	N1-C2-O2	10.89	125.43	118.90
85	5	725	G	N7-C8-N9	-10.89	107.66	113.10
85	5	3377	G	C5-N7-C8	-10.89	98.86	104.30
36	1	905	U	N1-C2-O2	-10.89	115.18	122.80
85	5	1178	G	C6-N1-C2	-10.89	118.57	125.10
85	5	3072	C	N3-C4-N4	10.89	125.62	118.00
85	5	3180	A	O5'-P-OP1	-10.89	95.90	105.70
85	5	3319	U	C5-C6-N1	-10.89	117.26	122.70
36	1	2939	G	N1-C6-O6	-10.89	113.37	119.90
80	6	211	U	C2-N3-C4	-10.89	120.47	127.00
36	1	1195	A	O5'-P-OP1	-10.88	95.90	105.70
85	5	1186	G	O5'-P-OP2	-10.88	95.90	105.70
85	5	3245	A	N3-C4-C5	10.88	134.42	126.80
36	1	2241	U	N3-C4-C5	-10.88	108.07	114.60
80	6	622	A	O5'-P-OP2	10.88	123.76	110.70
37	7	41	G	C5-C6-N1	-10.88	106.06	111.50
36	1	1328	C	C6-N1-C2	-10.88	115.95	120.30
37	3	84	A	C8-N9-C4	-10.88	101.45	105.80
80	6	327	U	C6-N1-C2	-10.88	114.47	121.00
85	5	1555	U	N3-C2-O2	-10.88	114.58	122.20
38	8	112	U	O5'-P-OP1	-10.88	95.91	105.70
1	2	1457	G	C8-N9-C4	10.88	110.75	106.40
85	5	2120	A	C8-N9-C4	-10.88	101.45	105.80
36	1	636	C	N1-C2-N3	10.88	126.81	119.20
36	1	2376	G	C5-N7-C8	-10.88	98.86	104.30
36	1	2427	U	O5'-P-OP2	-10.88	95.91	105.70
36	1	3188	G	C8-N9-C4	-10.88	102.05	106.40
36	1	3378	C	N1-C2-O2	-10.87	112.38	118.90
80	6	565	C	N1-C2-N3	10.88	126.81	119.20
80	6	1164	G	C4-C5-N7	10.88	115.15	110.80
80	6	914	G	C8-N9-C4	10.87	110.75	106.40
85	5	84	U	C5-C6-N1	-10.87	117.26	122.70
85	5	1420	C	O5'-P-OP1	10.87	123.75	110.70
85	5	1047	A	C4-C5-N7	10.87	116.14	110.70
85	5	2340	U	C5-C4-O4	-10.87	119.38	125.90
85	5	2428	U	N3-C2-O2	10.87	129.81	122.20
85	5	2417	U	C2-N3-C4	10.87	133.52	127.00
85	5	3390	G	C4-C5-N7	10.87	115.15	110.80
36	1	665	A	C5-C6-N6	-10.87	115.01	123.70
85	5	106	A	N7-C8-N9	-10.87	108.37	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	947	G	O5'-P-OP2	-10.87	95.92	105.70
36	1	2182	A	N1-C2-N3	10.87	134.73	129.30
36	1	2945	G	C6-C5-N7	-10.87	123.88	130.40
80	6	1623	C	N1-C2-O2	-10.86	112.38	118.90
85	5	932	U	C2-N3-C4	-10.87	120.48	127.00
85	5	1488	G	N1-C6-O6	10.87	126.42	119.90
85	5	2928	C	N1-C2-N3	10.86	126.81	119.20
37	7	38	U	N3-C4-O4	10.87	127.01	119.40
36	1	154	U	C5-C6-N1	-10.86	117.27	122.70
1	2	111	U	N3-C4-O4	10.86	127.00	119.40
36	1	1933	A	N1-C2-N3	10.86	134.73	129.30
80	6	591	A	N7-C8-N9	-10.86	108.37	113.80
85	5	817	A	C5-C6-N6	-10.86	115.01	123.70
85	5	3131	U	C6-N1-C1'	-10.86	106.00	121.20
85	5	2927	C	N3-C4-C5	-10.86	117.56	121.90
36	1	811	U	N3-C2-O2	-10.86	114.60	122.20
36	1	839	C	N3-C2-O2	10.86	129.50	121.90
85	5	1544	G	C8-N9-C4	10.86	110.74	106.40
1	2	312	A	N9-C4-C5	10.86	110.14	105.80
1	2	1542	A	N1-C6-N6	10.86	125.11	118.60
36	1	1428	A	N1-C6-N6	10.86	125.11	118.60
36	1	1654	A	C6-N1-C2	-10.86	112.09	118.60
36	1	2291	A	C8-N9-C4	-10.86	101.46	105.80
36	1	2339	C	O5'-P-OP1	-10.86	95.93	105.70
80	6	1722	A	C8-N9-C4	10.86	110.14	105.80
85	5	900	G	C8-N9-C4	-10.86	102.06	106.40
36	1	3046	A	C5-C6-N1	-10.86	112.27	117.70
85	5	534	U	N3-C2-O2	-10.86	114.60	122.20
85	5	814	U	C5-C6-N1	10.86	128.13	122.70
85	5	2811	A	C6-N1-C2	-10.86	112.09	118.60
1	2	908	G	C5-C6-N1	10.85	116.93	111.50
80	6	578	U	N1-C2-O2	-10.85	115.20	122.80
85	5	513	G	C5-N7-C8	10.85	109.73	104.30
36	1	125	C	N3-C4-C5	10.85	126.24	121.90
36	1	1062	A	C5-N7-C8	-10.85	98.47	103.90
85	5	37	U	N1-C2-N3	10.85	121.41	114.90
85	5	2303	A	N7-C8-N9	-10.85	108.37	113.80
85	5	3210	A	C5-C6-N6	-10.85	115.02	123.70
37	7	77	G	N7-C8-N9	-10.85	107.67	113.10
80	6	91	G	OP1-P-OP2	-10.85	103.33	119.60
85	5	1486	G	N1-C2-N3	10.85	130.41	123.90
36	1	1903	U	N3-C4-O4	10.85	126.99	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	18	G	C2-N3-C4	-10.85	106.48	111.90
36	1	813	G	N1-C6-O6	10.85	126.41	119.90
80	6	987	G	C4-C5-N7	10.85	115.14	110.80
85	5	2239	G	C2-N3-C4	-10.85	106.48	111.90
36	1	1312	C	N3-C4-N4	10.85	125.59	118.00
36	1	1655	G	C6-N1-C2	-10.85	118.59	125.10
85	5	2400	G	C8-N9-C4	-10.85	102.06	106.40
85	5	2606	G	N1-C6-O6	-10.85	113.39	119.90
85	5	3092	C	N1-C2-O2	10.85	125.41	118.90
36	1	1392	G	N3-C4-C5	-10.84	123.18	128.60
36	1	1673	G	C4-C5-C6	10.84	125.31	118.80
37	3	33	U	C5-C4-O4	10.84	132.41	125.90
80	6	1755	A	O5'-P-OP2	10.84	123.71	110.70
85	5	530	G	C4-C5-N7	10.84	115.14	110.80
1	2	1633	U	C5-C6-N1	-10.84	117.28	122.70
36	1	2726	C	C6-N1-C2	-10.84	115.96	120.30
38	8	73	U	N1-C2-O2	10.84	130.39	122.80
36	1	3340	G	N7-C8-N9	10.84	118.52	113.10
85	5	649	A	C6-C5-N7	-10.84	124.71	132.30
85	5	1863	G	C4-C5-N7	-10.84	106.47	110.80
85	5	2185	G	C2-N3-C4	-10.84	106.48	111.90
85	5	2981	U	C6-N1-C2	-10.84	114.50	121.00
36	1	402	A	N1-C6-N6	-10.84	112.10	118.60
36	1	1345	G	N3-C4-C5	10.84	134.02	128.60
80	6	358	U	C5-C6-N1	10.84	128.12	122.70
37	7	6	C	N1-C2-N3	10.84	126.78	119.20
1	2	1325	C	C6-N1-C2	-10.83	115.97	120.30
36	1	1306	G	N1-C6-O6	10.83	126.40	119.90
36	1	1320	C	C4-C5-C6	10.83	122.82	117.40
36	1	2715	A	C6-N1-C2	-10.83	112.10	118.60
38	4	44	A	O5'-P-OP2	10.83	123.70	110.70
85	5	1555	U	C5-C6-N1	-10.83	117.28	122.70
85	5	2227	C	C4-C5-C6	10.83	122.82	117.40
85	5	3245	A	N9-C4-C5	-10.83	101.47	105.80
41	14	202	ARG	NE-CZ-NH1	10.83	125.72	120.30
36	1	856	G	C6-N1-C2	-10.83	118.60	125.10
80	6	463	U	N3-C2-O2	10.83	129.78	122.20
80	6	1748	G	C5-C6-N1	-10.83	106.08	111.50
85	5	855	U	N3-C4-C5	-10.83	108.10	114.60
85	5	2396	G	N7-C8-N9	10.83	118.52	113.10
36	1	645	A	N1-C2-N3	10.83	134.71	129.30
36	1	1400	G	N7-C8-N9	-10.83	107.69	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2138	A	C6-C5-N7	-10.83	124.72	132.30
85	5	361	A	N1-C6-N6	-10.83	112.10	118.60
85	5	1487	G	N1-C6-O6	-10.83	113.40	119.90
85	5	3069	G	C5-C6-N1	10.83	116.91	111.50
36	1	1931	U	C6-N1-C2	10.82	127.50	121.00
85	5	601	U	O5'-P-OP2	-10.82	95.96	105.70
85	5	2732	G	C4-C5-C6	10.82	125.29	118.80
1	2	561	G	N9-C4-C5	10.82	109.73	105.40
36	1	1483	G	C4-C5-N7	-10.82	106.47	110.80
36	1	2186	U	O5'-P-OP2	-10.82	95.96	105.70
80	6	349	U	C5-C4-O4	10.82	132.39	125.90
80	6	678	A	N1-C6-N6	-10.82	112.11	118.60
80	6	1118	G	N1-C6-O6	10.82	126.39	119.90
85	5	64	G	N1-C6-O6	10.82	126.39	119.90
85	5	1382	G	C5-C6-O6	-10.82	122.11	128.60
85	5	1076	C	C5-C6-N1	-10.82	115.59	121.00
36	1	970	A	N1-C2-N3	10.82	134.71	129.30
37	7	51	A	C8-N9-C4	-10.82	101.47	105.80
1	2	1637	G	N1-C6-O6	-10.82	113.41	119.90
36	1	1933	A	C2-N3-C4	-10.82	105.19	110.60
36	1	2836	C	C4-C5-C6	10.82	122.81	117.40
37	3	72	A	C2-N3-C4	-10.82	105.19	110.60
85	5	1035	G	N1-C6-O6	-10.82	113.41	119.90
85	5	1142	G	N1-C2-N3	10.82	130.39	123.90
38	8	28	C	C6-N1-C2	10.82	124.63	120.30
88	n4	54	LEU	CB-CG-CD1	-10.82	92.61	111.00
85	5	1159	A	C5-C6-N6	-10.81	115.05	123.70
36	1	1075	A	C5-C6-N1	10.81	123.11	117.70
36	1	1413	G	C4-C5-N7	10.81	115.12	110.80
80	6	1663	G	C6-C5-N7	-10.81	123.91	130.40
85	5	2883	U	C4-C5-C6	10.81	126.19	119.70
36	1	2917	G	C8-N9-C4	-10.81	102.08	106.40
85	5	1804	A	C2-N3-C4	-10.81	105.19	110.60
85	5	2702	A	C4-C5-C6	10.81	122.41	117.00
36	1	2515	A	C8-N9-C4	-10.81	101.48	105.80
80	6	53	G	O5'-P-OP2	-10.81	95.97	105.70
85	5	656	A	C4-C5-N7	10.81	116.10	110.70
85	5	1367	G	N1-C6-O6	10.81	126.39	119.90
85	5	2163	C	N3-C4-C5	-10.81	117.58	121.90
85	5	1596	C	N3-C4-C5	-10.81	117.58	121.90
36	1	2800	G	C5-C6-N1	10.80	116.90	111.50
36	1	3343	G	N1-C6-O6	10.80	126.38	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2098	C	N3-C4-C5	-10.80	117.58	121.90
36	1	2378	C	C5-C4-N4	-10.80	112.64	120.20
36	1	2396	G	O5'-P-OP2	-10.80	95.98	105.70
80	6	445	A	N1-C2-N3	-10.80	123.90	129.30
38	8	34	U	N3-C4-O4	10.80	126.96	119.40
1	2	1631	A	O5'-P-OP2	-10.80	95.98	105.70
36	1	58	G	N1-C6-O6	-10.80	113.42	119.90
36	1	944	C	C6-N1-C2	10.80	124.62	120.30
36	1	2201	G	C2-N3-C4	-10.80	106.50	111.90
80	6	1722	A	N1-C6-N6	-10.80	112.12	118.60
85	5	198	A	C8-N9-C4	10.80	110.12	105.80
85	5	1850	A	O5'-P-OP1	-10.80	95.98	105.70
1	2	961	A	C8-N9-C4	-10.79	101.48	105.80
85	5	2872	A	O5'-P-OP2	10.80	123.66	110.70
1	2	1087	U	O5'-P-OP2	-10.79	95.98	105.70
36	1	657	A	N7-C8-N9	10.79	119.20	113.80
36	1	1400	G	C8-N9-C4	10.79	110.72	106.40
36	1	2961	G	C8-N9-C4	-10.79	102.08	106.40
85	5	2617	U	C6-N1-C2	-10.79	114.52	121.00
78	q2	77	CYS	CA-CB-SG	-10.79	94.57	114.00
36	1	1802	C	C5-C6-N1	10.79	126.40	121.00
36	1	2660	G	C5-C6-N1	10.79	116.89	111.50
36	1	3060	C	C5-C6-N1	-10.79	115.60	121.00
80	6	464	A	OP1-P-OP2	-10.79	103.41	119.60
85	5	421	G	N1-C2-N3	10.79	130.38	123.90
85	5	216	G	N3-C4-C5	10.79	134.00	128.60
85	5	671	U	N3-C2-O2	10.79	129.75	122.20
85	5	1698	C	O5'-P-OP2	-10.79	95.99	105.70
85	5	1733	G	N7-C8-N9	10.79	118.50	113.10
1	2	324	U	O5'-P-OP2	-10.79	95.99	105.70
38	4	100	U	C6-N1-C2	10.79	127.47	121.00
80	6	419	G	C4-C5-N7	10.79	115.12	110.80
85	5	682	U	N1-C2-O2	-10.79	115.25	122.80
85	5	2863	G	O5'-P-OP1	10.79	123.65	110.70
36	1	346	C	N1-C2-O2	-10.79	112.43	118.90
36	1	1394	A	C5-C6-N6	-10.79	115.07	123.70
36	1	1693	C	N3-C4-C5	-10.79	117.58	121.90
85	5	2302	G	N9-C4-C5	10.79	109.72	105.40
85	5	3186	A	N1-C2-N3	10.79	134.69	129.30
36	1	37	U	N3-C4-C5	-10.79	108.13	114.60
36	1	2945	G	C2-N3-C4	-10.79	106.51	111.90
36	1	678	G	C4-C5-C6	10.78	125.27	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1353	U	C6-N1-C1'	10.78	136.30	121.20
85	5	1444	G	C2-N3-C4	-10.79	106.51	111.90
85	5	1889	G	OP1-P-OP2	-10.79	103.42	119.60
85	5	3126	C	N3-C4-N4	-10.79	110.45	118.00
85	5	734	C	N1-C2-O2	10.78	125.37	118.90
36	1	2401	A	N7-C8-N9	10.78	119.19	113.80
36	1	2840	C	N3-C2-O2	-10.78	114.35	121.90
38	4	142	C	N3-C4-N4	10.78	125.55	118.00
80	6	1657	U	C2-N3-C4	10.78	133.47	127.00
85	5	657	A	C5-C6-N6	-10.78	115.07	123.70
85	5	2130	G	N3-C2-N2	-10.78	112.35	119.90
36	1	946	U	C4-C5-C6	10.78	126.17	119.70
36	1	1730	G	N1-C2-N3	10.78	130.37	123.90
85	5	2786	G	N1-C2-N3	10.78	130.37	123.90
85	5	2915	U	C2-N3-C4	-10.78	120.53	127.00
85	5	2952	G	N1-C6-O6	10.78	126.37	119.90
85	5	90	C	N3-C4-C5	-10.78	117.59	121.90
36	1	727	G	N3-C2-N2	10.78	127.44	119.90
36	1	1664	G	C2-N3-C4	-10.78	106.51	111.90
38	4	104	A	N7-C8-N9	10.78	119.19	113.80
85	5	2695	A	C6-N1-C2	-10.78	112.14	118.60
1	2	90	C	C6-N1-C2	-10.77	115.99	120.30
36	1	228	U	N3-C2-O2	-10.77	114.66	122.20
36	1	1596	C	C6-N1-C2	10.77	124.61	120.30
1	2	1167	A	O5'-P-OP1	-10.77	96.00	105.70
36	1	369	A	N7-C8-N9	10.77	119.19	113.80
36	1	721	G	C5-C6-O6	-10.77	122.14	128.60
36	1	1459	C	C4-C5-C6	10.77	122.79	117.40
36	1	2621	G	C6-C5-N7	-10.77	123.94	130.40
80	6	328	A	C8-N9-C4	-10.77	101.49	105.80
80	6	1703	C	C5-C6-N1	10.77	126.39	121.00
85	5	413	U	N3-C2-O2	10.77	129.74	122.20
85	5	508	U	N1-C2-O2	-10.77	115.26	122.80
85	5	2829	U	C5-C4-O4	-10.77	119.44	125.90
36	1	1529	A	C5-N7-C8	-10.77	98.51	103.90
36	1	3277	U	N1-C2-O2	10.77	130.34	122.80
85	5	301	G	C4-C5-N7	-10.77	106.49	110.80
36	1	1111	U	N1-C2-N3	10.77	121.36	114.90
36	1	2754	G	C2-N3-C4	-10.77	106.52	111.90
85	5	946	U	C5-C6-N1	-10.77	117.31	122.70
85	5	1491	A	C5-C6-N1	10.77	123.08	117.70
85	5	2879	C	N3-C2-O2	10.77	129.44	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3382	U	N1-C2-O2	10.77	130.34	122.80
1	2	404	G	C8-N9-C4	10.77	110.71	106.40
36	1	104	G	C5-C6-O6	-10.77	122.14	128.60
1	2	553	G	C5-C6-O6	-10.77	122.14	128.60
38	4	63	G	C8-N9-C4	-10.77	102.09	106.40
80	6	467	G	C8-N9-C4	10.77	110.71	106.40
85	5	184	U	C5-C6-N1	-10.77	117.32	122.70
85	5	1203	A	N9-C4-C5	10.77	110.11	105.80
85	5	2215	A	N9-C4-C5	-10.77	101.49	105.80
36	1	1785	U	C6-N1-C2	10.76	127.46	121.00
85	5	571	U	C4-C5-C6	10.76	126.16	119.70
36	1	2192	C	C6-N1-C2	-10.76	116.00	120.30
85	5	630	A	C5-C6-N1	-10.76	112.32	117.70
85	5	2759	U	C4-C5-C6	10.76	126.16	119.70
85	5	686	G	C5-C6-N1	-10.76	106.12	111.50
36	1	197	G	N9-C4-C5	-10.76	101.10	105.40
1	2	1128	U	N3-C4-O4	10.76	126.93	119.40
36	1	837	A	O5'-P-OP1	10.76	123.61	110.70
85	5	805	G	O5'-P-OP2	-10.76	96.02	105.70
85	5	2249	G	C8-N9-C4	-10.76	102.10	106.40
85	5	2662	G	N3-C4-C5	-10.76	123.22	128.60
36	1	3386	G	N1-C6-O6	10.76	126.36	119.90
37	7	99	G	N1-C6-O6	-10.76	113.45	119.90
36	1	646	A	C4-C5-C6	10.76	122.38	117.00
36	1	688	G	C4-C5-N7	-10.76	106.50	110.80
36	1	1453	A	N1-C6-N6	-10.76	112.15	118.60
36	1	2142	A	OP1-P-O3'	10.76	128.86	105.20
36	1	1495	U	C2-N3-C4	-10.75	120.55	127.00
36	1	2224	A	C6-N1-C2	-10.75	112.15	118.60
85	5	1017	C	C5-C6-N1	10.75	126.38	121.00
85	5	1691	U	N3-C2-O2	-10.75	114.67	122.20
85	5	810	A	C5-C6-N1	10.75	123.08	117.70
85	5	990	U	N3-C2-O2	-10.75	114.67	122.20
85	5	2142	A	N3-C4-C5	-10.75	119.27	126.80
85	5	3209	A	O5'-P-OP2	-10.75	96.02	105.70
38	8	138	A	N7-C8-N9	-10.75	108.42	113.80
85	5	394	G	C6-N1-C2	10.75	131.55	125.10
36	1	800	G	C5-C6-N1	-10.75	106.13	111.50
36	1	2355	G	C6-C5-N7	-10.75	123.95	130.40
36	1	2807	U	N3-C4-O4	10.75	126.93	119.40
80	6	554	C	N3-C2-O2	-10.75	114.38	121.90
85	5	1458	U	N3-C4-O4	10.75	126.92	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2737	C	N1-C2-O2	-10.75	112.45	118.90
85	5	2124	G	N3-C2-N2	-10.75	112.38	119.90
36	1	913	A	N1-C6-N6	10.75	125.05	118.60
36	1	1124	U	N3-C2-O2	-10.75	114.68	122.20
36	1	1164	G	C6-N1-C2	-10.75	118.65	125.10
36	1	1204	A	C8-N9-C4	10.75	110.10	105.80
85	5	225	C	C5-C6-N1	10.75	126.37	121.00
36	1	903	U	N3-C4-C5	-10.74	108.15	114.60
85	5	2762	A	N9-C4-C5	10.74	110.10	105.80
85	5	2876	C	N1-C2-N3	10.74	126.72	119.20
36	1	622	A	N1-C6-N6	10.74	125.05	118.60
36	1	1377	G	N1-C6-O6	10.74	126.34	119.90
85	5	1924	U	C2-N3-C4	-10.74	120.56	127.00
85	5	2329	C	N1-C2-O2	-10.74	112.45	118.90
85	5	2920	U	N1-C2-N3	10.74	121.34	114.90
37	3	63	A	C6-N1-C2	-10.74	112.16	118.60
85	5	542	G	N1-C6-O6	10.74	126.34	119.90
85	5	937	G	C6-N1-C2	-10.74	118.66	125.10
85	5	3172	A	C5-C6-N6	-10.74	115.11	123.70
85	5	1174	G	O5'-P-OP1	-10.74	96.03	105.70
85	5	1284	C	O5'-P-OP1	-10.74	96.03	105.70
37	7	6	C	C5-C6-N1	-10.74	115.63	121.00
36	1	2624	G	O5'-P-OP1	-10.74	96.04	105.70
36	1	3330	A	N3-C4-C5	-10.74	119.28	126.80
37	3	31	U	C6-N1-C2	-10.74	114.56	121.00
85	5	3046	A	C4-C5-C6	10.74	122.37	117.00
85	5	3376	A	N1-C2-N3	10.74	134.67	129.30
36	1	266	A	O5'-P-OP2	-10.73	96.04	105.70
80	6	942	G	C5-C6-O6	-10.73	122.16	128.60
85	5	2185	G	N1-C2-N3	10.73	130.34	123.90
36	1	282	G	N9-C4-C5	10.73	109.69	105.40
36	1	614	C	C5-C4-N4	-10.73	112.69	120.20
85	5	582	G	C5-C6-N1	-10.73	106.13	111.50
85	5	1775	G	O5'-P-OP1	-10.73	96.04	105.70
85	5	2396	G	C5-N7-C8	-10.73	98.93	104.30
1	2	809	U	N3-C4-C5	-10.73	108.16	114.60
36	1	2836	C	N3-C4-C5	-10.73	117.61	121.90
38	4	130	C	N1-C2-O2	-10.73	112.46	118.90
85	5	28	C	C2-N3-C4	-10.73	114.53	119.90
85	5	2784	G	N1-C2-N2	-10.73	106.54	116.20
85	5	729	C	C5-C4-N4	-10.73	112.69	120.20
36	1	2290	C	N3-C4-C5	-10.73	117.61	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	718	G	C8-N9-C4	-10.73	102.11	106.40
36	1	585	A	C6-N1-C2	10.72	125.03	118.60
85	5	630	A	C8-N9-C4	10.72	110.09	105.80
36	1	2326	A	C5-C6-N6	10.72	132.28	123.70
85	5	717	C	N1-C2-O2	10.72	125.33	118.90
36	1	692	A	C2-N3-C4	10.72	115.96	110.60
36	1	871	U	C6-N1-C2	10.72	127.43	121.00
36	1	1525	G	C8-N9-C4	-10.72	102.11	106.40
36	1	725	G	C2-N3-C4	-10.72	106.54	111.90
36	1	2228	A	N1-C6-N6	10.72	125.03	118.60
80	6	972	G	C5-C6-O6	-10.72	122.17	128.60
36	1	602	A	C5-C6-N1	-10.72	112.34	117.70
1	2	8	U	OP1-P-OP2	10.72	135.68	119.60
1	2	996	A	C5-C6-N1	10.72	123.06	117.70
36	1	342	A	N1-C6-N6	-10.72	112.17	118.60
85	5	218	G	O5'-P-OP2	-10.72	96.06	105.70
85	5	2816	G	C4-C5-C6	10.72	125.23	118.80
85	5	2889	C	C4-C5-C6	-10.72	112.04	117.40
85	5	3019	U	C2-N3-C4	10.72	133.43	127.00
85	5	3091	A	C6-N1-C2	-10.72	112.17	118.60
37	7	72	A	C2-N3-C4	10.72	115.96	110.60
36	1	1425	U	C5-C6-N1	-10.72	117.34	122.70
85	5	326	U	O5'-P-OP2	-10.72	96.06	105.70
85	5	875	G	N1-C6-O6	-10.72	113.47	119.90
85	5	1697	A	C5-C6-N1	-10.72	112.34	117.70
85	5	2960	C	N3-C2-O2	-10.71	114.40	121.90
36	1	970	A	N7-C8-N9	10.71	119.16	113.80
36	1	1003	A	C4-C5-C6	10.71	122.36	117.00
85	5	1500	G	OP1-P-OP2	-10.71	103.53	119.60
36	1	3270	U	N3-C2-O2	-10.71	114.70	122.20
85	5	395	A	C6-N1-C2	-10.71	112.17	118.60
85	5	2155	G	C5-C6-N1	10.71	116.86	111.50
36	1	998	A	C5-N7-C8	-10.71	98.55	103.90
36	1	2393	G	C5-C6-N1	10.71	116.85	111.50
38	4	100	U	N1-C2-N3	-10.71	108.47	114.90
85	5	381	U	N3-C4-O4	10.71	126.90	119.40
80	6	1585	U	C6-N1-C2	10.71	127.42	121.00
85	5	1062	A	N1-C6-N6	-10.71	112.17	118.60
85	5	2215	A	C5-N7-C8	-10.71	98.55	103.90
38	8	140	G	C8-N9-C4	-10.71	102.12	106.40
85	5	995	U	N1-C2-N3	10.71	121.32	114.90
85	5	2941	A	N9-C4-C5	10.71	110.08	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	743	C	C6-N1-C2	10.70	124.58	120.30
36	1	1349	G	C2-N3-C4	10.70	117.25	111.90
36	1	2860	U	OP1-P-OP2	-10.70	103.55	119.60
36	1	2202	C	C5-C4-N4	-10.70	112.71	120.20
36	1	2315	G	N1-C2-N3	10.70	130.32	123.90
38	4	130	C	C5-C4-N4	-10.70	112.71	120.20
85	5	2187	G	C8-N9-C4	-10.70	102.12	106.40
85	5	2192	C	C5-C4-N4	10.70	127.69	120.20
85	5	2305	G	C6-N1-C2	-10.70	118.68	125.10
36	1	569	A	N1-C6-N6	10.70	125.02	118.60
36	1	1067	U	C5-C6-N1	-10.70	117.35	122.70
1	2	1250	G	N7-C8-N9	10.70	118.45	113.10
36	1	2282	U	N1-C2-O2	10.70	130.29	122.80
36	1	2607	G	O5'-P-OP2	-10.70	96.07	105.70
85	5	58	G	O5'-P-OP1	10.70	123.54	110.70
85	5	722	G	C4-C5-C6	10.70	125.22	118.80
85	5	777	U	N3-C2-O2	10.70	129.69	122.20
85	5	1430	U	N3-C2-O2	10.70	129.69	122.20
85	5	2883	U	N3-C4-C5	-10.70	108.18	114.60
85	5	2944	U	N1-C2-N3	10.70	121.32	114.90
38	8	55	U	O5'-P-OP1	-10.70	96.07	105.70
38	8	58	G	OP1-P-OP2	-10.70	103.55	119.60
1	2	361	C	N1-C2-O2	-10.70	112.48	118.90
36	1	711	A	C5-C6-N1	10.70	123.05	117.70
36	1	857	G	N1-C2-N3	10.70	130.32	123.90
36	1	1633	C	C6-N1-C2	-10.70	116.02	120.30
36	1	1325	U	C5-C6-N1	-10.70	117.35	122.70
36	1	2366	C	C5-C4-N4	10.70	127.69	120.20
85	5	402	A	C6-N1-C2	-10.70	112.18	118.60
85	5	1415	U	C4-C5-C6	10.70	126.12	119.70
85	5	124	U	C5-C6-N1	-10.70	117.35	122.70
85	5	658	G	C4-C5-N7	10.70	115.08	110.80
85	5	664	U	N3-C4-O4	10.70	126.89	119.40
85	5	2523	A	N1-C6-N6	-10.70	112.18	118.60
1	2	362	G	C2-N3-C4	-10.69	106.55	111.90
1	2	1195	G	N1-C6-O6	10.69	126.32	119.90
36	1	4	U	N3-C2-O2	10.69	129.68	122.20
80	6	107	C	C5-C6-N1	-10.69	115.65	121.00
36	1	282	G	N7-C8-N9	10.69	118.45	113.10
36	1	2136	C	N1-C2-O2	-10.69	112.48	118.90
36	1	3152	U	C5-C4-O4	10.69	132.31	125.90
80	6	1417	A	OP1-P-OP2	-10.69	103.56	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	363	G	C5-C6-O6	-10.69	122.19	128.60
85	5	787	G	C2-N3-C4	-10.69	106.56	111.90
85	5	869	G	C5-C6-N1	10.69	116.85	111.50
85	5	2764	C	OP1-P-OP2	-10.69	103.56	119.60
37	3	53	U	C4-C5-C6	10.69	126.11	119.70
85	5	672	A	C8-N9-C4	-10.69	101.52	105.80
85	5	281	G	OP1-P-OP2	-10.69	103.57	119.60
85	5	2195	C	C5-C4-N4	10.69	127.68	120.20
1	2	1183	G	N1-C6-O6	10.69	126.31	119.90
36	1	379	C	C6-N1-C2	10.69	124.57	120.30
36	1	1173	U	N3-C2-O2	-10.69	114.72	122.20
36	1	2759	U	N3-C4-C5	-10.69	108.19	114.60
85	5	1849	C	N3-C2-O2	-10.69	114.42	121.90
85	5	2993	G	C5-C6-O6	-10.69	122.19	128.60
38	8	125	U	C4-C5-C6	-10.69	113.29	119.70
36	1	63	A	C5-C6-N6	-10.68	115.15	123.70
36	1	2141	U	C5-C4-O4	10.68	132.31	125.90
36	1	2169	G	N3-C4-N9	10.68	132.41	126.00
36	1	3130	A	C6-N1-C2	-10.68	112.19	118.60
80	6	317	C	N3-C4-N4	10.68	125.48	118.00
85	5	1467	A	C5-N7-C8	10.68	109.24	103.90
85	5	2638	C	N1-C2-O2	-10.68	112.49	118.90
85	5	3234	A	C8-N9-C4	10.68	110.07	105.80
36	1	3182	G	N1-C2-N3	10.68	130.31	123.90
80	6	1423	U	C5-C6-N1	-10.68	117.36	122.70
85	5	270	U	C5-C4-O4	-10.68	119.49	125.90
85	5	1837	U	N3-C4-O4	10.68	126.88	119.40
38	8	155	A	C2-N3-C4	10.68	115.94	110.60
1	2	1724	U	C4-C5-C6	10.68	126.11	119.70
36	1	198	A	N7-C8-N9	10.68	119.14	113.80
85	5	1017	C	N1-C2-O2	10.68	125.31	118.90
1	2	1100	U	N3-C4-O4	10.68	126.88	119.40
36	1	1185	C	C6-N1-C2	10.68	124.57	120.30
36	1	2995	A	O5'-P-OP1	10.68	123.51	110.70
37	7	46	A	N9-C4-C5	10.68	110.07	105.80
36	1	610	G	N3-C4-N9	-10.68	119.59	126.00
36	1	281	G	C8-N9-C4	-10.68	102.13	106.40
36	1	315	C	C4-C5-C6	-10.68	112.06	117.40
36	1	1480	G	C4-C5-N7	10.68	115.07	110.80
36	1	1375	G	C5-C6-O6	10.68	135.00	128.60
36	1	2896	A	N1-C2-N3	10.68	134.64	129.30
80	6	1750	A	N7-C8-N9	-10.68	108.46	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1151	U	N3-C4-O4	10.68	126.87	119.40
85	5	402	A	N3-C4-C5	-10.68	119.33	126.80
36	1	312	C	N3-C4-C5	-10.67	117.63	121.90
38	4	111	A	N1-C2-N3	10.67	134.64	129.30
80	6	33	U	C4-C5-C6	10.67	126.10	119.70
85	5	3239	G	C4-C5-C6	-10.67	112.40	118.80
85	5	3062	G	C8-N9-C4	-10.67	102.13	106.40
36	1	676	G	C4-C5-C6	10.67	125.20	118.80
36	1	2651	G	O5'-P-OP1	-10.67	96.10	105.70
80	6	317	C	N1-C2-O2	-10.67	112.50	118.90
80	6	1678	A	O5'-P-OP2	-10.67	96.10	105.70
85	5	2977	G	N1-C6-O6	-10.67	113.50	119.90
36	1	697	A	C2-N3-C4	-10.67	105.27	110.60
85	5	48	A	O5'-P-OP1	-10.67	96.10	105.70
36	1	131	C	N3-C2-O2	-10.67	114.43	121.90
85	5	2398	A	O5'-P-OP1	-10.67	96.10	105.70
36	1	1372	C	C2-N3-C4	-10.67	114.57	119.90
36	1	2645	G	N3-C2-N2	-10.67	112.43	119.90
80	6	1675	C	N3-C4-N4	10.67	125.47	118.00
85	5	1375	G	C4-C5-C6	10.67	125.20	118.80
85	5	1440	G	C2-N3-C4	-10.67	106.57	111.90
85	5	2873	U	O5'-P-OP2	10.67	123.50	110.70
85	5	2333	C	N1-C2-O2	-10.67	112.50	118.90
1	2	420	A	C6-N1-C2	-10.66	112.20	118.60
36	1	255	A	O5'-P-OP1	10.66	123.50	110.70
85	5	284	A	OP2-P-O3'	10.66	128.66	105.20
85	5	556	U	O5'-P-OP1	-10.66	96.10	105.70
85	5	1143	A	C2-N3-C4	-10.66	105.27	110.60
36	1	2699	G	N9-C4-C5	-10.66	101.14	105.40
36	1	2986	U	C6-N1-C2	-10.66	114.60	121.00
80	6	451	A	C2-N3-C4	-10.66	105.27	110.60
85	5	1067	U	N1-C2-O2	-10.66	115.34	122.80
85	5	1887	A	N1-C6-N6	10.66	125.00	118.60
85	5	2240	G	C8-N9-C4	10.66	110.66	106.40
85	5	3074	G	C5-C6-N1	10.66	116.83	111.50
37	7	117	A	C2-N3-C4	-10.66	105.27	110.60
38	4	95	G	N1-C6-O6	10.66	126.30	119.90
85	5	186	U	OP1-P-OP2	-10.66	103.61	119.60
85	5	2731	U	C6-N1-C2	-10.66	114.61	121.00
85	5	2833	A	N1-C2-N3	10.66	134.63	129.30
36	1	818	C	N3-C4-C5	-10.66	117.64	121.90
85	5	281	G	N3-C2-N2	-10.66	112.44	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	671	U	N1-C2-O2	-10.65	115.34	122.80
37	3	120	C	N1-C2-O2	10.65	125.29	118.90
36	1	797	U	C5-C4-O4	-10.65	119.51	125.90
36	1	2201	G	C4-C5-N7	10.65	115.06	110.80
80	6	377	G	N1-C2-N2	-10.65	106.61	116.20
85	5	2692	A	N1-C2-N3	10.65	134.63	129.30
85	5	213	A	N3-C4-C5	-10.65	119.34	126.80
85	5	304	G	C8-N9-C4	-10.65	102.14	106.40
85	5	855	U	N3-C4-O4	10.65	126.86	119.40
1	2	1099	A	N1-C6-N6	10.65	124.99	118.60
36	1	906	A	C5-C6-N1	10.65	123.03	117.70
36	1	1322	U	C4-C5-C6	10.65	126.09	119.70
85	5	1110	U	N1-C2-O2	10.65	130.26	122.80
85	5	2295	A	C8-N9-C4	-10.65	101.54	105.80
85	5	2421	U	C2-N3-C4	-10.65	120.61	127.00
36	1	1636	U	N1-C2-O2	-10.65	115.35	122.80
38	4	15	G	C5-C6-N1	10.65	116.83	111.50
80	6	1030	A	C2-N3-C4	-10.65	105.28	110.60
80	6	1100	G	N1-C2-N2	-10.65	106.62	116.20
80	6	1137	A	C8-N9-C4	10.65	110.06	105.80
1	2	1092	G	C5-C6-N1	-10.65	106.18	111.50
1	2	1492	C	C6-N1-C2	-10.65	116.04	120.30
1	2	1652	U	C5-C6-N1	10.65	128.02	122.70
36	1	225	C	O5'-P-OP1	-10.65	96.12	105.70
36	1	1126	G	C6-C5-N7	-10.65	124.01	130.40
80	6	1663	G	C5-C6-N1	-10.65	106.18	111.50
85	5	704	U	N3-C4-O4	10.65	126.85	119.40
85	5	2871	G	N1-C6-O6	-10.65	113.51	119.90
85	5	2879	C	N1-C2-O2	-10.65	112.51	118.90
85	5	727	G	O5'-P-OP1	-10.65	96.12	105.70
36	1	2180	G	C2-N3-C4	-10.64	106.58	111.90
1	2	328	A	N1-C6-N6	10.64	124.99	118.60
85	5	1697	A	C2-N3-C4	-10.64	105.28	110.60
85	5	1928	G	C4-C5-N7	10.64	115.06	110.80
36	1	2622	C	N3-C4-C5	-10.64	117.64	121.90
85	5	1910	A	C2-N3-C4	-10.64	105.28	110.60
85	5	2354	C	N3-C2-O2	10.64	129.35	121.90
80	6	1109	G	C5-C6-N1	10.64	116.82	111.50
85	5	2848	G	C5-C6-O6	10.64	134.99	128.60
85	5	3093	C	C6-N1-C2	10.64	124.56	120.30
36	1	981	U	O5'-P-OP2	-10.64	96.13	105.70
36	1	2746	A	N1-C2-N3	10.64	134.62	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3138	U	N3-C2-O2	10.64	129.65	122.20
85	5	224	C	N1-C2-O2	10.64	125.28	118.90
85	5	1915	A	C6-N1-C2	-10.64	112.22	118.60
85	5	2551	U	N3-C4-C5	10.64	120.98	114.60
85	5	635	G	N1-C2-N2	10.64	125.77	116.20
85	5	2121	G	C8-N9-C4	10.64	110.66	106.40
85	5	2935	U	N1-C2-O2	-10.64	115.35	122.80
85	5	3175	U	N1-C2-N3	10.64	121.28	114.90
38	8	131	A	N1-C6-N6	-10.64	112.22	118.60
36	1	979	U	N3-C2-O2	-10.63	114.76	122.20
36	1	2699	G	O5'-P-OP1	-10.63	96.13	105.70
85	5	686	G	N1-C2-N3	10.64	130.28	123.90
85	5	2199	G	C4-C5-N7	10.64	115.05	110.80
85	5	2924	U	N1-C2-N3	10.64	121.28	114.90
85	5	2509	U	N3-C2-O2	-10.63	114.76	122.20
1	2	1010	A	C5-C6-N6	-10.63	115.19	123.70
36	1	1193	A	C5-N7-C8	-10.63	98.58	103.90
38	4	36	G	N3-C2-N2	-10.63	112.46	119.90
80	6	678	A	C4-C5-N7	10.63	116.02	110.70
85	5	811	U	C2-N3-C4	-10.63	120.62	127.00
85	5	925	A	N1-C6-N6	10.63	124.98	118.60
85	5	1662	G	C5-N7-C8	10.63	109.61	104.30
85	5	1938	U	O5'-P-OP2	-10.63	96.13	105.70
85	5	2301	U	N1-C2-O2	-10.63	115.36	122.80
85	5	2709	C	N3-C2-O2	10.63	129.34	121.90
85	5	2966	G	C5-C6-O6	-10.63	122.22	128.60
85	5	2994	A	N3-C4-C5	-10.63	119.36	126.80
85	5	3104	U	C6-N1-C2	10.63	127.38	121.00
36	1	1331	U	O5'-P-OP2	-10.63	96.13	105.70
36	1	2347	U	O5'-P-OP2	-10.63	96.13	105.70
80	6	1585	U	C5-C6-N1	-10.63	117.39	122.70
85	5	2374	C	C5-C6-N1	-10.63	115.69	121.00
37	7	88	G	N3-C4-C5	-10.63	123.29	128.60
37	7	96	U	N1-C2-O2	-10.63	115.36	122.80
38	4	146	U	N3-C2-O2	10.63	129.64	122.20
36	1	2127	U	N1-C2-N3	10.62	121.28	114.90
36	1	2411	U	N1-C2-N3	10.62	121.28	114.90
85	5	600	G	C4-C5-C6	10.62	125.17	118.80
85	5	2356	A	C4-C5-N7	10.63	116.01	110.70
85	5	3131	U	C5-C4-O4	-10.63	119.52	125.90
85	5	1895	A	N1-C6-N6	10.62	124.97	118.60
36	1	967	A	C5-C6-N6	10.62	132.20	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1121	U	C5-C6-N1	-10.62	117.39	122.70
36	1	1549	U	OP1-P-OP2	10.62	135.53	119.60
1	2	1448	C	N3-C2-O2	-10.62	114.47	121.90
80	6	652	G	C8-N9-C4	-10.62	102.15	106.40
85	5	1351	U	O5'-P-OP2	-10.62	96.14	105.70
85	5	979	U	O5'-P-OP1	10.62	123.45	110.70
85	5	2954	U	C5-C6-N1	-10.62	117.39	122.70
38	8	70	G	N1-C2-N3	10.62	130.27	123.90
1	2	455	C	C6-N1-C2	10.62	124.55	120.30
36	1	1520	G	O5'-P-OP2	10.62	123.44	110.70
36	1	1899	G	C8-N9-C4	-10.62	102.15	106.40
80	6	1104	U	C5-C6-N1	10.62	128.01	122.70
85	5	554	A	N1-C6-N6	10.62	124.97	118.60
85	5	1075	A	C8-N9-C4	10.62	110.05	105.80
85	5	2880	U	C5-C4-O4	10.62	132.27	125.90
1	2	448	C	N3-C4-C5	-10.62	117.65	121.90
36	1	268	A	N9-C4-C5	10.62	110.05	105.80
36	1	328	U	N3-C2-O2	-10.62	114.77	122.20
36	1	1612	A	C4-C5-C6	10.62	122.31	117.00
80	6	1284	C	C5-C6-N1	-10.62	115.69	121.00
36	1	2384	A	C8-N9-C4	-10.62	101.55	105.80
85	5	388	G	OP1-P-OP2	-10.62	103.67	119.60
85	5	3340	G	C5-C6-N1	10.62	116.81	111.50
36	1	17	G	C5-N7-C8	-10.61	98.99	104.30
36	1	1050	U	O5'-P-OP1	-10.62	96.15	105.70
80	6	1650	U	C5-C4-O4	-10.62	119.53	125.90
85	5	865	U	O5'-P-OP2	10.62	123.44	110.70
36	1	79	U	C2-N3-C4	-10.61	120.63	127.00
36	1	1933	A	C8-N9-C4	-10.61	101.56	105.80
80	6	464	A	C5-C6-N1	-10.61	112.39	117.70
85	5	713	U	N3-C4-O4	10.61	126.83	119.40
85	5	3198	U	O5'-P-OP2	-10.61	96.15	105.70
85	5	1463	U	C5-C4-O4	10.61	132.27	125.90
36	1	802	C	N1-C2-N3	10.61	126.63	119.20
36	1	1789	G	N9-C4-C5	-10.61	101.16	105.40
36	1	343	U	C5-C6-N1	-10.61	117.40	122.70
36	1	757	C	N1-C2-O2	-10.61	112.53	118.90
36	1	1002	A	C4-C5-N7	10.61	116.00	110.70
36	1	2824	G	N3-C4-N9	-10.61	119.63	126.00
80	6	1565	C	N3-C4-C5	10.61	126.14	121.90
85	5	2774	C	N3-C2-O2	-10.61	114.47	121.90
36	1	17	G	N1-C6-O6	10.61	126.26	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1802	C	C2-N3-C4	-10.61	114.60	119.90
80	6	173	A	N1-C6-N6	10.60	124.96	118.60
1	2	386	G	N1-C6-O6	-10.60	113.54	119.90
36	1	1375	G	C4-C5-N7	-10.60	106.56	110.80
36	1	2835	U	C4-C5-C6	10.60	126.06	119.70
85	5	1131	G	N1-C2-N2	10.60	125.74	116.20
85	5	3133	C	C5-C6-N1	10.60	126.30	121.00
36	1	1818	U	N3-C2-O2	10.60	129.62	122.20
36	1	1852	G	C2-N3-C4	-10.60	106.60	111.90
36	1	1899	G	N3-C4-C5	-10.60	123.30	128.60
36	1	1906	G	C2-N3-C4	-10.60	106.60	111.90
36	1	2151	C	C6-N1-C2	-10.60	116.06	120.30
36	1	2341	A	C6-N1-C2	-10.60	112.24	118.60
36	1	2670	G	C4-C5-N7	10.60	115.04	110.80
37	3	109	G	C5-C6-O6	-10.60	122.24	128.60
85	5	2653	C	N3-C2-O2	10.60	129.32	121.90
85	5	3139	A	N1-C2-N3	10.60	134.60	129.30
85	5	2145	A	C5-N7-C8	-10.60	98.60	103.90
1	2	1461	G	C8-N9-C4	-10.60	102.16	106.40
36	1	1886	A	C8-N9-C4	-10.60	101.56	105.80
36	1	2165	G	C5-C6-N1	-10.60	106.20	111.50
36	1	3306	U	N3-C4-C5	10.60	120.96	114.60
36	1	2727	A	O5'-P-OP2	-10.60	96.16	105.70
80	6	677	G	C8-N9-C4	10.60	110.64	106.40
80	6	726	C	C6-N1-C2	-10.60	116.06	120.30
85	5	2420	C	N1-C2-O2	-10.60	112.54	118.90
85	5	2858	U	O5'-P-OP1	10.60	123.41	110.70
36	1	1698	C	C6-N1-C2	-10.59	116.06	120.30
36	1	2609	A	N1-C2-N3	10.59	134.60	129.30
85	5	303	G	C8-N9-C4	-10.59	102.16	106.40
85	5	3124	G	C2-N3-C4	-10.59	106.60	111.90
80	6	546	U	N1-C2-O2	-10.59	115.39	122.80
36	1	268	A	N1-C2-N3	10.59	134.59	129.30
85	5	54	C	N1-C2-O2	-10.59	112.55	118.90
85	5	704	U	N3-C4-C5	-10.59	108.25	114.60
85	5	1290	A	C2-N3-C4	-10.59	105.31	110.60
85	5	2791	G	N1-C2-N3	10.59	130.25	123.90
85	5	3022	G	N1-C6-O6	-10.59	113.55	119.90
85	5	3105	U	C5-C4-O4	10.59	132.25	125.90
1	2	195	G	N1-C6-O6	-10.59	113.55	119.90
36	1	758	C	C6-N1-C2	-10.59	116.06	120.30
80	6	1740	A	O5'-P-OP1	10.59	123.40	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	822	G	N3-C2-N2	-10.59	112.49	119.90
85	5	2161	G	N3-C4-C5	-10.59	123.31	128.60
80	6	1784	C	N3-C4-C5	10.59	126.13	121.90
85	5	1503	A	C8-N9-C4	10.59	110.03	105.80
36	1	198	A	C5-N7-C8	-10.58	98.61	103.90
36	1	1107	C	N3-C4-C5	-10.58	117.67	121.90
36	1	2369	G	N3-C4-C5	-10.58	123.31	128.60
38	8	3	A	N1-C2-N3	-10.58	124.01	129.30
85	5	291	C	C2-N3-C4	-10.58	114.61	119.90
85	5	721	G	C5-C6-N1	-10.58	106.21	111.50
85	5	3316	A	C5-C6-N1	-10.58	112.41	117.70
85	5	920	A	C4-C5-N7	10.58	115.99	110.70
85	5	1426	C	N3-C2-O2	10.58	129.31	121.90
36	1	299	G	C4-C5-N7	10.58	115.03	110.80
36	1	1400	G	N1-C2-N3	10.58	130.25	123.90
36	1	2669	G	C2-N3-C4	-10.58	106.61	111.90
85	5	98	G	C4-C5-N7	10.58	115.03	110.80
1	2	785	G	C8-N9-C4	-10.58	102.17	106.40
80	6	35	U	N1-C2-N3	10.58	121.25	114.90
85	5	654	C	N1-C2-O2	-10.58	112.55	118.90
85	5	657	A	O5'-P-OP1	10.58	123.40	110.70
85	5	3173	G	N1-C2-N2	-10.58	106.68	116.20
85	5	960	U	N3-C4-O4	10.58	126.81	119.40
36	1	1202	A	C5-C6-N6	-10.58	115.24	123.70
36	1	1512	U	N1-C2-N3	10.58	121.25	114.90
38	4	140	G	N1-C6-O6	10.58	126.25	119.90
36	1	1869	C	N3-C4-C5	-10.57	117.67	121.90
36	1	1609	C	N1-C2-O2	-10.57	112.56	118.90
38	4	7	U	C4-C5-C6	10.57	126.04	119.70
85	5	1295	G	C5-C6-O6	10.57	134.94	128.60
85	5	1444	G	C6-C5-N7	-10.57	124.06	130.40
37	7	75	G	N1-C6-O6	10.57	126.24	119.90
38	8	20	U	C5-C4-O4	-10.57	119.56	125.90
36	1	648	C	N1-C2-O2	-10.57	112.56	118.90
36	1	2134	G	C5-C6-N1	10.57	116.79	111.50
36	1	2243	A	C6-N1-C2	-10.57	112.26	118.60
80	6	1645	G	C4-C5-N7	10.57	115.03	110.80
85	5	220	G	N3-C2-N2	10.57	127.30	119.90
85	5	1293	U	C4-C5-C6	10.57	126.04	119.70
36	1	311	C	N3-C4-C5	-10.57	117.67	121.90
36	1	2584	G	C2-N3-C4	-10.57	106.61	111.90
80	6	570	A	C8-N9-C4	-10.57	101.57	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1550	A	C5-N7-C8	-10.57	98.61	103.90
85	5	1485	G	OP1-P-OP2	-10.57	103.75	119.60
85	5	2894	C	C4-C5-C6	10.57	122.68	117.40
1	2	25	C	C6-N1-C2	10.57	124.53	120.30
36	1	1398	U	N3-C4-C5	-10.57	108.26	114.60
36	1	2956	A	N1-C2-N3	10.57	134.58	129.30
85	5	1317	A	C5-C6-N6	-10.57	115.25	123.70
85	5	1356	U	N1-C2-N3	-10.57	108.56	114.90
85	5	1838	G	C4-C5-N7	10.57	115.03	110.80
1	2	849	G	C5-C6-N1	10.56	116.78	111.50
36	1	21	G	N1-C2-N3	10.56	130.24	123.90
36	1	1804	A	C2-N3-C4	-10.56	105.32	110.60
36	1	3301	U	N3-C2-O2	-10.56	114.81	122.20
38	4	84	C	C4-C5-C6	10.56	122.68	117.40
85	5	339	C	N1-C2-O2	-10.56	112.56	118.90
85	5	2187	G	C5-N7-C8	-10.56	99.02	104.30
1	2	92	A	N7-C8-N9	-10.56	108.52	113.80
36	1	940	G	C2-N3-C4	10.56	117.18	111.90
85	5	494	G	C5-C6-O6	-10.56	122.26	128.60
85	5	3000	A	C5-C6-N6	-10.56	115.25	123.70
36	1	1372	C	N1-C2-O2	-10.56	112.56	118.90
1	2	1727	A	C2-N3-C4	-10.56	105.32	110.60
36	1	981	U	N3-C4-C5	-10.56	108.27	114.60
36	1	3367	C	C2-N3-C4	-10.56	114.62	119.90
80	6	1720	G	C5-C6-O6	-10.56	122.27	128.60
85	5	1849	C	N1-C2-N3	10.56	126.59	119.20
36	1	2615	G	O5'-P-OP2	-10.56	96.20	105.70
85	5	78	U	N3-C2-O2	-10.56	114.81	122.20
85	5	1449	A	C5-C6-N1	10.56	122.98	117.70
36	1	241	G	C5-C6-O6	-10.55	122.27	128.60
36	1	1107	C	C4-C5-C6	10.55	122.68	117.40
80	6	992	A	C5-C6-N1	10.55	122.98	117.70
85	5	908	G	C5-N7-C8	-10.55	99.02	104.30
85	5	1855	U	N1-C2-N3	10.55	121.23	114.90
36	1	1796	G	C6-C5-N7	-10.55	124.07	130.40
85	5	1369	A	C5-C6-N1	-10.55	112.42	117.70
36	1	3041	U	N1-C2-O2	-10.55	115.42	122.80
85	5	344	A	C8-N9-C4	-10.55	101.58	105.80
85	5	681	U	O5'-P-OP2	-10.55	96.20	105.70
85	5	782	U	N3-C4-C5	-10.55	108.27	114.60
85	5	1500	G	N1-C2-N3	10.55	130.23	123.90
85	5	1769	G	O5'-P-OP2	10.55	123.36	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	522	A	C2-N3-C4	-10.55	105.33	110.60
36	1	269	G	N3-C4-C5	10.55	133.87	128.60
36	1	1748	G	N1-C2-N3	10.55	130.23	123.90
37	3	2	G	N1-C2-N3	10.55	130.23	123.90
80	6	713	A	C8-N9-C4	-10.55	101.58	105.80
85	5	1017	C	C2-N3-C4	10.55	125.17	119.90
85	5	1130	A	C6-N1-C2	-10.55	112.27	118.60
36	1	1407	A	C5-C6-N1	10.55	122.97	117.70
1	2	157	A	O5'-P-OP2	-10.54	96.21	105.70
1	2	1224	G	N7-C8-N9	10.54	118.37	113.10
80	6	1549	C	N3-C4-C5	-10.54	117.68	121.90
85	5	798	G	C4-C5-N7	10.54	115.02	110.80
85	5	1382	G	C5-N7-C8	-10.55	99.03	104.30
85	5	3177	G	C5-C6-N1	-10.54	106.23	111.50
1	2	868	G	C5-C6-N1	-10.54	106.23	111.50
1	2	1018	G	N1-C6-O6	-10.54	113.58	119.90
36	1	158	G	N1-C2-N3	10.54	130.22	123.90
36	1	828	A	C2-N3-C4	-10.54	105.33	110.60
36	1	2227	C	C4-C5-C6	10.54	122.67	117.40
36	1	3145	C	N1-C2-O2	-10.54	112.58	118.90
80	6	390	G	C5-C6-O6	-10.54	122.28	128.60
85	5	809	G	C6-C5-N7	-10.54	124.08	130.40
36	1	2601	A	C5-N7-C8	10.54	109.17	103.90
38	4	61	A	C5-C6-N6	-10.54	115.27	123.70
80	6	1662	G	C5-C6-N1	-10.54	106.23	111.50
85	5	799	G	C2-N3-C4	10.54	117.17	111.90
85	5	865	U	N1-C2-O2	-10.54	115.42	122.80
36	1	684	G	C5-N7-C8	-10.54	99.03	104.30
36	1	907	G	N7-C8-N9	-10.54	107.83	113.10
36	1	1670	C	C2-N3-C4	-10.54	114.63	119.90
85	5	1093	A	O5'-P-OP2	-10.54	96.22	105.70
85	5	2381	G	C4-C5-C6	10.54	125.12	118.80
85	5	2922	G	N1-C6-O6	10.54	126.22	119.90
36	1	2607	G	N3-C4-C5	10.53	133.87	128.60
36	1	2632	G	C6-N1-C2	-10.53	118.78	125.10
85	5	430	U	N1-C2-O2	-10.53	115.43	122.80
85	5	590	G	C4-C5-N7	10.53	115.01	110.80
85	5	616	G	N1-C6-O6	10.53	126.22	119.90
36	1	2186	U	O5'-P-OP1	10.53	123.34	110.70
85	5	3273	A	C8-N9-C4	-10.53	101.59	105.80
80	6	1091	A	OP1-P-O3'	10.53	128.37	105.20
85	5	30	G	N1-C2-N2	-10.53	106.72	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1316	C	C6-N1-C2	-10.53	116.09	120.30
85	5	2177	G	C4-C5-C6	10.53	125.12	118.80
85	5	2338	C	C6-N1-C2	10.53	124.51	120.30
38	8	103	G	N1-C6-O6	10.53	126.22	119.90
36	1	588	G	N1-C6-O6	-10.53	113.58	119.90
36	1	947	G	N1-C2-N3	10.53	130.22	123.90
36	1	1656	A	N7-C8-N9	-10.53	108.53	113.80
36	1	2192	C	N1-C2-N3	10.53	126.57	119.20
85	5	982	C	C4-C5-C6	-10.53	112.14	117.40
85	5	1184	A	N1-C6-N6	-10.53	112.28	118.60
85	5	2616	C	N3-C2-O2	10.53	129.27	121.90
36	1	1529	A	C8-N9-C4	-10.53	101.59	105.80
36	1	2244	A	N7-C8-N9	-10.53	108.54	113.80
85	5	39	A	C6-N1-C2	-10.53	112.28	118.60
85	5	1727	G	N1-C2-N2	-10.53	106.73	116.20
80	6	984	G	N3-C2-N2	-10.53	112.53	119.90
36	1	1548	C	C5-C6-N1	10.52	126.26	121.00
36	1	2169	G	C2-N3-C4	10.52	117.16	111.90
36	1	2369	G	N1-C6-O6	-10.52	113.59	119.90
85	5	89	A	C5-C6-N1	-10.52	112.44	117.70
36	1	989	A	N9-C4-C5	-10.52	101.59	105.80
85	5	582	G	C4-C5-C6	10.52	125.11	118.80
85	5	948	C	N1-C2-O2	-10.52	112.58	118.90
85	5	2292	U	N3-C4-C5	-10.52	108.29	114.60
36	1	1131	G	OP1-P-OP2	10.52	135.38	119.60
85	5	596	C	N3-C4-C5	-10.52	117.69	121.90
85	5	921	A	N3-C4-C5	-10.52	119.43	126.80
85	5	718	G	N7-C8-N9	10.52	118.36	113.10
85	5	2715	A	N7-C8-N9	10.52	119.06	113.80
85	5	2936	A	C2-N3-C4	10.52	115.86	110.60
85	5	1935	G	OP1-P-OP2	-10.52	103.82	119.60
85	5	2954	U	N3-C4-O4	-10.52	112.04	119.40
85	5	3309	G	N7-C8-N9	10.52	118.36	113.10
36	1	1134	G	O5'-P-OP1	-10.52	96.23	105.70
80	6	783	G	C5-C6-N1	10.52	116.76	111.50
36	1	1659	U	N3-C4-C5	-10.52	108.29	114.60
36	1	1877	U	N1-C2-N3	10.52	121.21	114.90
36	1	3191	G	C2-N3-C4	-10.52	106.64	111.90
85	5	9	U	N3-C2-O2	10.52	129.56	122.20
85	5	2643	A	C4-C5-N7	10.52	115.96	110.70
85	5	639	G	N3-C4-C5	10.51	133.86	128.60
85	5	644	G	N1-C2-N3	10.51	130.21	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1754	G	C8-N9-C4	-10.51	102.19	106.40
62	n6	13	ARG	NE-CZ-NH1	10.51	125.56	120.30
36	1	2295	A	C5-N7-C8	-10.51	98.64	103.90
80	6	45	U	N3-C2-O2	-10.51	114.84	122.20
36	1	25	U	N3-C2-O2	10.51	129.56	122.20
1	2	1283	A	C5-C6-N6	10.51	132.10	123.70
36	1	2983	C	N3-C4-N4	-10.51	110.64	118.00
36	1	3049	A	C8-N9-C4	10.51	110.00	105.80
36	1	3297	U	N1-C2-O2	-10.51	115.44	122.80
85	5	898	U	C2-N3-C4	10.51	133.30	127.00
85	5	2656	A	C6-C5-N7	-10.51	124.95	132.30
1	2	961	A	N1-C2-N3	10.50	134.55	129.30
36	1	365	A	N1-C2-N3	10.50	134.55	129.30
36	1	604	G	C8-N9-C4	-10.50	102.20	106.40
36	1	2784	G	C8-N9-C4	10.50	110.60	106.40
47	M0	120	GLY	C-N-CA	10.50	147.96	121.70
36	1	1208	U	N1-C2-O2	10.50	130.15	122.80
38	4	84	C	C2-N3-C4	-10.50	114.65	119.90
85	5	1327	C	C5-C4-N4	-10.50	112.85	120.20
85	5	1466	G	C4-C5-C6	10.50	125.10	118.80
85	5	2800	G	C5-C6-N1	10.50	116.75	111.50
36	1	1948	G	N1-C6-O6	10.50	126.20	119.90
85	5	383	G	N1-C6-O6	10.50	126.20	119.90
85	5	2186	U	O5'-P-OP2	-10.50	96.25	105.70
85	5	2747	A	C6-N1-C2	-10.50	112.30	118.60
36	1	1499	C	O5'-P-OP2	-10.50	96.25	105.70
80	6	907	A	C8-N9-C4	-10.50	101.60	105.80
80	6	1155	G	C4-C5-C6	-10.50	112.50	118.80
85	5	1142	G	N3-C2-N2	-10.50	112.55	119.90
85	5	2414	G	N3-C4-C5	10.50	133.85	128.60
85	5	3135	U	N1-C2-N3	10.50	121.20	114.90
36	1	499	G	N3-C2-N2	-10.49	112.56	119.90
36	1	1548	C	N1-C2-O2	-10.49	112.60	118.90
80	6	926	A	C5-N7-C8	-10.49	98.65	103.90
85	5	258	G	N1-C6-O6	10.49	126.20	119.90
85	5	1064	A	OP1-P-OP2	10.49	135.34	119.60
85	5	1804	A	C4-C5-C6	10.49	122.25	117.00
36	1	596	C	C4-C5-C6	10.49	122.65	117.40
36	1	1460	A	OP1-P-OP2	-10.49	103.86	119.60
36	1	1675	G	C5-C6-N1	10.49	116.75	111.50
85	5	1919	G	N1-C6-O6	10.49	126.19	119.90
85	5	2171	G	N1-C6-O6	-10.49	113.60	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2972	G	C4-C5-N7	10.49	115.00	110.80
1	2	752	A	N1-C6-N6	-10.49	112.31	118.60
36	1	1386	A	C6-N1-C2	-10.49	112.31	118.60
36	1	1855	U	N3-C2-O2	-10.49	114.86	122.20
80	6	314	C	C6-N1-C2	-10.49	116.10	120.30
85	5	1184	A	N7-C8-N9	-10.49	108.56	113.80
85	5	3135	U	N3-C4-O4	-10.49	112.06	119.40
38	4	107	G	N7-C8-N9	-10.49	107.86	113.10
85	5	420	G	C5-N7-C8	10.49	109.54	104.30
85	5	794	U	O5'-P-OP2	-10.49	96.26	105.70
85	5	1467	A	N7-C8-N9	-10.49	108.56	113.80
1	2	9	U	O5'-P-OP1	-10.48	96.26	105.70
1	2	86	A	C5-C6-N1	-10.48	112.46	117.70
1	2	857	C	C6-N1-C2	-10.48	116.11	120.30
36	1	591	G	N1-C6-O6	10.48	126.19	119.90
85	5	417	A	O5'-P-OP1	10.48	123.28	110.70
36	1	1157	G	N3-C2-N2	-10.48	112.56	119.90
36	1	2399	A	C5-C6-N6	-10.48	115.31	123.70
85	5	2273	G	C2-N3-C4	-10.48	106.66	111.90
36	1	2139	A	C5-C6-N6	10.48	132.09	123.70
80	6	818	C	C5-C6-N1	10.48	126.24	121.00
36	1	820	A	C5-C6-N1	10.48	122.94	117.70
36	1	1210	U	O5'-P-OP2	-10.48	96.27	105.70
36	1	2400	G	C5-C6-N1	10.48	116.74	111.50
80	6	591	A	C5-C6-N1	10.48	122.94	117.70
85	5	1303	A	C2-N3-C4	-10.48	105.36	110.60
85	5	1415	U	C6-N1-C2	-10.48	114.71	121.00
36	1	2748	A	N1-C6-N6	10.48	124.89	118.60
36	1	3005	A	C5-N7-C8	-10.48	98.66	103.90
85	5	530	G	C6-N1-C2	-10.48	118.81	125.10
85	5	1733	G	C2-N3-C4	-10.48	106.66	111.90
85	5	2400	G	C5-C6-O6	-10.48	122.31	128.60
1	2	1711	A	C2-N3-C4	-10.47	105.36	110.60
36	1	515	C	C5-C6-N1	10.47	126.24	121.00
36	1	2613	U	N1-C2-N3	10.47	121.19	114.90
80	6	404	G	C5-C6-O6	10.47	134.88	128.60
80	6	1110	G	C5-C6-O6	10.47	134.88	128.60
36	1	1585	C	C5-C4-N4	-10.47	112.87	120.20
36	1	2387	A	N9-C4-C5	-10.47	101.61	105.80
36	1	2645	G	C2-N3-C4	-10.47	106.66	111.90
1	2	821	G	N1-C6-O6	10.47	126.18	119.90
36	1	325	A	C2-N3-C4	10.47	115.83	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	657	A	O5'-P-OP2	10.47	123.26	110.70
36	1	706	A	N1-C2-N3	10.47	134.54	129.30
36	1	1919	G	C6-C5-N7	-10.47	124.12	130.40
85	5	837	A	C8-N9-C4	10.47	109.99	105.80
36	1	2146	C	N1-C2-O2	-10.47	112.62	118.90
36	1	2198	A	N9-C4-C5	10.47	109.99	105.80
36	1	2777	G	C5-C6-O6	10.47	134.88	128.60
38	4	31	G	C5-N7-C8	-10.47	99.07	104.30
85	5	2283	G	N9-C4-C5	-10.47	101.21	105.40
85	5	3388	C	C2-N3-C4	-10.47	114.67	119.90
38	8	70	G	C4-C5-N7	-10.47	106.61	110.80
36	1	711	A	N1-C6-N6	-10.46	112.32	118.60
36	1	1013	G	N1-C6-O6	10.46	126.18	119.90
36	1	1933	A	N1-C6-N6	10.47	124.88	118.60
36	1	2173	U	N1-C2-O2	-10.46	115.47	122.80
80	6	1107	G	O5'-P-OP1	10.46	123.26	110.70
85	5	2794	G	C4-C5-N7	10.47	114.99	110.80
36	1	178	U	C5-C4-O4	10.46	132.18	125.90
36	1	797	U	N3-C4-O4	10.46	126.72	119.40
37	3	8	G	C4-C5-N7	10.46	114.98	110.80
85	5	3095	U	N1-C2-N3	10.46	121.18	114.90
36	1	2345	A	C2-N3-C4	-10.46	105.37	110.60
36	1	2907	G	C8-N9-C4	-10.46	102.22	106.40
36	1	2993	G	N1-C6-O6	-10.46	113.62	119.90
85	5	2611	U	O5'-P-OP2	-10.46	96.29	105.70
36	1	1394	A	C8-N9-C4	10.46	109.98	105.80
85	5	423	A	C5-C6-N6	-10.46	115.33	123.70
85	5	508	U	C6-N1-C1'	10.46	135.84	121.20
85	5	2821	C	N3-C4-C5	-10.46	117.72	121.90
1	2	538	A	C8-N9-C4	10.46	109.98	105.80
36	1	924	G	N1-C2-N3	10.46	130.17	123.90
37	3	42	A	N1-C6-N6	10.46	124.88	118.60
36	1	186	U	C6-N1-C2	-10.46	114.73	121.00
36	1	410	U	O5'-P-OP2	10.46	123.25	110.70
85	5	3090	U	N1-C2-O2	-10.46	115.48	122.80
36	1	2151	C	N1-C2-O2	-10.45	112.63	118.90
85	5	2312	A	N9-C4-C5	10.45	109.98	105.80
85	5	2519	A	C8-N9-C4	-10.46	101.62	105.80
36	1	655	C	N3-C4-C5	-10.45	117.72	121.90
80	6	471	A	N1-C2-N3	10.45	134.53	129.30
36	1	417	A	N1-C6-N6	10.45	124.87	118.60
36	1	1004	U	C6-N1-C2	-10.45	114.73	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1201	C	C5-C4-N4	-10.45	112.88	120.20
36	1	3362	A	C5-C6-N1	-10.45	112.47	117.70
85	5	793	C	N3-C4-N4	10.45	125.32	118.00
80	6	543	C	C5-C6-N1	10.45	126.22	121.00
36	1	1115	G	N1-C2-N2	-10.45	106.80	116.20
36	1	2144	A	N1-C6-N6	-10.45	112.33	118.60
36	1	2237	C	C2-N3-C4	-10.45	114.68	119.90
85	5	2310	U	O5'-P-OP1	-10.45	96.30	105.70
85	5	2756	C	O5'-P-OP2	-10.45	96.30	105.70
36	1	653	A	C6-C5-N7	-10.45	124.99	132.30
36	1	3022	G	C5-N7-C8	-10.45	99.08	104.30
36	1	3266	G	N9-C4-C5	10.45	109.58	105.40
85	5	1397	C	C4-C5-C6	10.45	122.62	117.40
38	4	14	C	N3-C2-O2	10.45	129.21	121.90
80	6	885	G	N1-C6-O6	10.45	126.17	119.90
85	5	1403	C	C5-C6-N1	-10.45	115.78	121.00
85	5	3301	U	O5'-P-OP2	-10.45	96.30	105.70
36	1	157	A	C6-N1-C2	-10.44	112.33	118.60
36	1	1412	G	O5'-P-OP1	-10.44	96.30	105.70
80	6	14	C	N1-C2-O2	-10.44	112.64	118.90
80	6	1053	G	C5-N7-C8	-10.44	99.08	104.30
85	5	301	G	C8-N9-C4	10.44	110.58	106.40
85	5	1423	C	C6-N1-C2	-10.44	116.12	120.30
85	5	2652	U	C2-N3-C4	10.44	133.27	127.00
36	1	568	G	C5-C6-N1	-10.44	106.28	111.50
80	6	1720	G	N1-C6-O6	10.44	126.16	119.90
85	5	3128	G	N1-C6-O6	-10.44	113.64	119.90
85	5	3328	G	N1-C6-O6	-10.44	113.64	119.90
85	5	2740	A	C8-N9-C4	-10.44	101.62	105.80
36	1	1683	A	C8-N9-C4	-10.44	101.63	105.80
36	1	2095	G	C8-N9-C4	10.44	110.57	106.40
36	1	2798	C	C6-N1-C2	-10.44	116.13	120.30
85	5	2618	G	C6-N1-C2	-10.44	118.84	125.10
38	8	40	A	N1-C2-N3	10.44	134.52	129.30
38	8	42	G	OP1-P-OP2	-10.44	103.95	119.60
36	1	406	G	C8-N9-C4	-10.43	102.23	106.40
36	1	511	G	C8-N9-C4	-10.43	102.23	106.40
36	1	643	U	O5'-P-OP1	10.43	123.22	110.70
85	5	618	C	C5-C6-N1	-10.43	115.78	121.00
85	5	657	A	N7-C8-N9	10.43	119.02	113.80
85	5	1343	A	N3-C4-C5	10.43	134.10	126.80
36	1	1881	A	C8-N9-C4	10.43	109.97	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2144	A	C2-N3-C4	10.43	115.82	110.60
80	6	1015	U	N3-C4-C5	-10.43	108.34	114.60
85	5	1160	C	C5-C4-N4	10.43	127.50	120.20
85	5	1357	G	N1-C6-O6	-10.43	113.64	119.90
85	5	1429	G	N3-C2-N2	10.43	127.20	119.90
85	5	1512	U	N3-C4-C5	-10.43	108.34	114.60
85	5	2137	U	OP1-P-OP2	-10.43	103.95	119.60
85	5	3350	C	C2-N3-C4	10.43	125.12	119.90
36	1	2788	C	N1-C2-O2	-10.43	112.64	118.90
85	5	496	C	N1-C2-O2	10.43	125.16	118.90
85	5	1434	G	C5-N7-C8	-10.43	99.08	104.30
36	1	2405	C	N3-C4-N4	10.43	125.30	118.00
36	1	2623	G	C4-C5-N7	10.43	114.97	110.80
85	5	215	G	N1-C2-N2	-10.43	106.81	116.20
85	5	872	U	N3-C4-C5	10.43	120.86	114.60
85	5	2904	U	C5-C4-O4	-10.43	119.64	125.90
85	5	3271	G	N3-C4-N9	10.43	132.26	126.00
1	2	1073	C	N3-C4-C5	-10.43	117.73	121.90
85	5	2978	U	OP1-P-O3'	10.43	128.14	105.20
38	8	138	A	N1-C2-N3	10.43	134.51	129.30
85	5	930	U	C6-N1-C2	10.43	127.25	121.00
85	5	1805	C	N3-C4-C5	10.43	126.07	121.90
85	5	2136	C	C4-C5-C6	10.43	122.61	117.40
85	5	2099	A	C2-N3-C4	10.43	115.81	110.60
1	2	22	A	N1-C6-N6	10.42	124.85	118.60
36	1	334	A	O5'-P-OP1	10.42	123.21	110.70
85	5	344	A	N7-C8-N9	10.42	119.01	113.80
80	6	402	C	O5'-P-OP2	-10.42	96.32	105.70
80	6	419	G	C4-C5-C6	-10.42	112.55	118.80
85	5	59	G	C5-C6-O6	-10.42	122.35	128.60
85	5	315	C	O5'-P-OP2	-10.42	96.32	105.70
85	5	270	U	C4-C5-C6	-10.42	113.45	119.70
1	2	359	A	C8-N9-C4	10.42	109.97	105.80
80	6	1490	C	C6-N1-C2	-10.42	116.13	120.30
36	1	1344	G	O5'-P-OP2	-10.42	96.32	105.70
80	6	420	A	N7-C8-N9	10.42	119.01	113.80
80	6	1000	C	C4-C5-C6	10.42	122.61	117.40
80	6	1119	G	C5-N7-C8	-10.42	99.09	104.30
85	5	775	A	C8-N9-C4	-10.42	101.63	105.80
85	5	924	G	N1-C6-O6	-10.42	113.65	119.90
85	5	1348	U	C2-N3-C4	10.42	133.25	127.00
85	5	2888	U	OP1-P-OP2	-10.42	103.97	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2103	U	OP1-P-OP2	10.42	135.22	119.60
80	6	263	C	N3-C2-O2	10.42	129.19	121.90
80	6	768	C	C5-C6-N1	-10.42	115.79	121.00
80	6	1137	A	O5'-P-OP1	10.42	123.20	110.70
85	5	282	G	N1-C2-N2	-10.42	106.83	116.20
85	5	3306	U	O5'-P-OP2	-10.42	96.33	105.70
1	2	420	A	N1-C6-N6	-10.41	112.35	118.60
36	1	2407	C	C5-C4-N4	-10.41	112.91	120.20
36	1	2857	C	O5'-P-OP2	10.41	123.20	110.70
80	6	356	G	C6-N1-C2	-10.41	118.85	125.10
80	6	923	A	C5-C6-N1	-10.41	112.49	117.70
85	5	809	G	C5-C6-O6	-10.41	122.35	128.60
36	1	993	G	C5-C6-N1	10.41	116.71	111.50
36	1	3276	G	N3-C4-C5	10.41	133.81	128.60
80	6	546	U	N3-C2-O2	10.41	129.49	122.20
85	5	2381	G	N1-C2-N3	10.41	130.15	123.90
36	1	251	G	C2-N3-C4	10.41	117.11	111.90
36	1	879	U	N3-C4-C5	10.41	120.85	114.60
36	1	3187	A	C2-N3-C4	10.41	115.81	110.60
85	5	1656	A	C6-N1-C2	-10.41	112.35	118.60
36	1	3259	U	C6-N1-C2	-10.41	114.75	121.00
85	5	2576	G	C5-C6-N1	-10.41	106.30	111.50
36	1	339	C	N1-C2-O2	-10.41	112.66	118.90
36	1	665	A	O5'-P-OP2	-10.41	96.33	105.70
36	1	1738	C	C6-N1-C2	10.41	124.46	120.30
36	1	2714	G	C4-C5-N7	10.41	114.96	110.80
38	4	1	A	N1-C6-N6	10.41	124.84	118.60
85	5	424	G	C5-C6-O6	-10.41	122.36	128.60
85	5	1497	C	C5-C6-N1	10.41	126.20	121.00
85	5	1674	G	O5'-P-OP1	-10.41	96.33	105.70
36	1	432	G	O5'-P-OP1	10.40	123.19	110.70
36	1	2297	U	C5-C4-O4	10.40	132.14	125.90
36	1	2698	G	C8-N9-C4	10.40	110.56	106.40
36	1	2968	G	N7-C8-N9	10.40	118.30	113.10
36	1	3080	G	N1-C6-O6	-10.40	113.66	119.90
85	5	1443	G	O5'-P-OP1	-10.40	96.34	105.70
85	5	1928	G	O5'-P-OP2	-10.40	96.33	105.70
85	5	3086	A	C5-C6-N1	-10.40	112.50	117.70
85	5	3106	A	N1-C6-N6	-10.40	112.36	118.60
85	5	37	U	N3-C4-O4	10.40	126.68	119.40
1	2	1654	A	C5-C6-N1	-10.40	112.50	117.70
85	5	618	C	C6-N1-C2	10.40	124.46	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	817	A	C2-N3-C4	10.40	115.80	110.60
36	1	2873	U	C6-N1-C2	-10.40	114.76	121.00
36	1	2933	A	C5-N7-C8	-10.40	98.70	103.90
85	5	2988	C	C6-N1-C2	10.40	124.46	120.30
85	5	1159	A	C4-C5-N7	10.39	115.90	110.70
36	1	871	U	N1-C2-O2	-10.39	115.53	122.80
36	1	1157	G	N3-C4-C5	-10.39	123.40	128.60
36	1	1440	G	N1-C6-O6	10.39	126.14	119.90
80	6	188	A	C5-C6-N1	-10.39	112.50	117.70
85	5	1119	C	C5-C4-N4	-10.39	112.92	120.20
85	5	1306	G	O5'-P-OP2	-10.39	96.35	105.70
85	5	2912	G	N9-C4-C5	10.39	109.56	105.40
1	2	386	G	C5-C6-O6	10.39	134.83	128.60
36	1	609	G	C2-N3-C4	10.39	117.09	111.90
36	1	647	A	C5-C6-N6	10.39	132.01	123.70
36	1	1123	U	C5-C4-O4	-10.39	119.67	125.90
36	1	1143	A	N1-C2-N3	10.39	134.50	129.30
85	5	278	U	N3-C2-O2	10.39	129.47	122.20
38	8	98	U	N3-C2-O2	10.39	129.47	122.20
67	o1	62	ARG	NE-CZ-NH1	-10.39	115.10	120.30
85	5	298	U	OP1-P-OP2	10.39	135.18	119.60
85	5	599	C	N1-C2-N3	10.39	126.47	119.20
85	5	2200	U	C5-C6-N1	-10.39	117.51	122.70
85	5	2619	G	C4-C5-C6	-10.39	112.57	118.80
85	5	2696	A	C5-C6-N1	10.39	122.89	117.70
1	2	1393	A	N1-C2-N3	10.38	134.49	129.30
36	1	3066	U	C5-C4-O4	10.39	132.13	125.90
85	5	1509	A	C8-N9-C4	10.39	109.95	105.80
36	1	284	A	O5'-P-OP2	-10.38	96.36	105.70
36	1	793	C	C6-N1-C2	10.38	124.45	120.30
36	1	2825	C	N3-C2-O2	-10.38	114.63	121.90
37	7	5	G	C8-N9-C4	10.38	110.55	106.40
1	2	942	U	N3-C2-O2	-10.38	114.93	122.20
1	2	1481	G	C5-N7-C8	10.38	109.49	104.30
36	1	292	U	N1-C2-O2	-10.38	115.53	122.80
85	5	1604	G	C5-C6-O6	10.38	134.83	128.60
36	1	356	C	O5'-P-OP2	-10.38	96.36	105.70
36	1	968	G	C6-N1-C2	-10.38	118.87	125.10
36	1	1103	A	O5'-P-OP2	10.38	123.16	110.70
36	1	2290	C	OP1-P-OP2	-10.38	104.03	119.60
38	4	53	A	N1-C6-N6	-10.38	112.37	118.60
80	6	934	C	N1-C2-O2	10.38	125.13	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1447	G	N3-C2-N2	10.38	127.17	119.90
85	5	121	A	C5-C6-N6	-10.38	115.40	123.70
85	5	1246	G	C8-N9-C4	-10.38	102.25	106.40
85	5	2898	G	N3-C2-N2	-10.38	112.63	119.90
85	5	3207	U	C5-C4-O4	10.38	132.13	125.90
36	1	999	G	N1-C6-O6	-10.38	113.67	119.90
38	4	52	A	C2-N3-C4	10.38	115.79	110.60
80	6	911	U	N3-C2-O2	-10.38	114.94	122.20
85	5	215	G	N7-C8-N9	10.38	118.29	113.10
1	2	910	C	N1-C2-O2	-10.38	112.67	118.90
36	1	1666	G	C6-C5-N7	-10.38	124.17	130.40
36	1	2124	G	N1-C6-O6	10.38	126.12	119.90
36	1	353	G	C5-C6-O6	10.37	134.82	128.60
80	6	770	A	O5'-P-OP2	-10.37	96.36	105.70
85	5	916	G	C4-C5-N7	-10.37	106.65	110.80
85	5	1356	U	N3-C2-O2	10.37	129.46	122.20
85	5	1880	U	C5-C6-N1	-10.37	117.51	122.70
1	2	57	G	O5'-P-OP2	-10.37	96.36	105.70
1	2	840	U	O5'-P-OP2	-10.37	96.37	105.70
36	1	299	G	C6-C5-N7	-10.37	124.18	130.40
36	1	1399	A	C5-C6-N1	-10.37	112.51	117.70
38	4	108	C	N1-C2-N3	10.37	126.46	119.20
85	5	542	G	C5-C6-O6	-10.37	122.38	128.60
37	7	90	U	N1-C2-N3	10.37	121.12	114.90
36	1	142	C	C6-N1-C2	-10.37	116.15	120.30
36	1	2855	U	N1-C2-N3	10.37	121.12	114.90
85	5	1362	G	C5-C6-O6	10.37	134.82	128.60
85	5	2699	G	N1-C6-O6	10.37	126.12	119.90
85	5	3220	G	N1-C6-O6	-10.37	113.68	119.90
37	3	42	A	C4-C5-C6	10.37	122.18	117.00
80	6	1002	G	N7-C8-N9	10.37	118.28	113.10
85	5	144	A	OP1-P-OP2	-10.37	104.05	119.60
36	1	378	A	N1-C2-N3	10.37	134.48	129.30
36	1	585	A	N1-C6-N6	10.37	124.82	118.60
36	1	1763	U	N3-C2-O2	10.37	129.46	122.20
38	4	38	U	N1-C2-N3	10.37	121.12	114.90
85	5	1772	U	C6-N1-C2	-10.37	114.78	121.00
85	5	1904	C	N3-C4-C5	10.37	126.05	121.90
85	5	2343	C	C6-N1-C2	10.36	124.45	120.30
85	5	2409	G	C8-N9-C4	-10.36	102.25	106.40
36	1	2714	G	N3-C4-C5	10.36	133.78	128.60
37	3	52	G	O5'-P-OP1	-10.36	96.37	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	119	U	C5-C4-O4	10.36	132.12	125.90
85	5	1201	C	C5-C4-N4	-10.36	112.95	120.20
85	5	2339	C	C2-N1-C1'	10.36	130.20	118.80
36	1	96	G	N3-C4-C5	10.36	133.78	128.60
36	1	834	U	C5-C6-N1	-10.36	117.52	122.70
36	1	1462	A	N1-C2-N3	10.36	134.48	129.30
36	1	1834	U	N3-C4-C5	-10.36	108.38	114.60
85	5	99	A	O5'-P-OP2	-10.36	96.38	105.70
1	2	307	G	C5-C6-O6	10.36	134.81	128.60
36	1	694	C	O5'-P-OP2	-10.36	96.38	105.70
36	1	1348	U	C6-N1-C2	10.36	127.21	121.00
36	1	651	G	C6-N1-C2	-10.36	118.89	125.10
36	1	3343	G	C5-C6-N1	-10.36	106.32	111.50
85	5	2798	C	N3-C2-O2	-10.36	114.65	121.90
37	7	109	G	N7-C8-N9	10.36	118.28	113.10
1	2	1477	C	C6-N1-C2	-10.35	116.16	120.30
36	1	184	U	C5-C6-N1	-10.35	117.52	122.70
36	1	1100	U	C6-N1-C2	10.35	127.21	121.00
36	1	2697	A	N9-C4-C5	10.35	109.94	105.80
36	1	3102	G	N1-C2-N2	-10.35	106.88	116.20
36	1	2183	A	N1-C6-N6	10.35	124.81	118.60
80	6	1789	G	N1-C2-N3	10.35	130.11	123.90
38	8	17	A	C4-C5-N7	10.35	115.88	110.70
37	3	82	G	C4-C5-C6	10.35	125.01	118.80
36	1	730	C	N3-C4-C5	10.35	126.04	121.90
36	1	1124	U	N1-C2-O2	10.35	130.04	122.80
36	1	1708	C	O5'-P-OP2	-10.35	96.39	105.70
36	1	2150	G	N1-C2-N3	10.35	130.11	123.90
85	5	2114	C	C4-C5-C6	-10.35	112.22	117.40
85	5	647	A	C4-C5-C6	10.35	122.17	117.00
85	5	2603	G	C8-N9-C1'	10.35	140.45	127.00
85	5	2711	C	N3-C4-N4	10.35	125.24	118.00
85	5	2794	G	C2-N3-C4	10.35	117.08	111.90
36	1	625	G	N7-C8-N9	-10.35	107.93	113.10
36	1	1598	G	N3-C2-N2	-10.35	112.66	119.90
36	1	2845	A	N1-C6-N6	10.35	124.81	118.60
85	5	1246	G	C6-C5-N7	-10.35	124.19	130.40
85	5	2993	G	C2-N3-C4	10.35	117.07	111.90
85	5	2608	G	N3-C2-N2	-10.35	112.66	119.90
85	5	2872	A	OP1-P-OP2	-10.35	104.08	119.60
36	1	1372	C	N1-C2-N3	10.34	126.44	119.20
85	5	2316	G	C4-C5-N7	-10.34	106.66	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3146	G	C2-N3-C4	-10.34	106.73	111.90
36	1	878	G	C2-N3-C4	-10.34	106.73	111.90
36	1	1466	G	C5-C6-N1	-10.34	106.33	111.50
1	2	586	G	C2-N3-C4	10.34	117.07	111.90
36	1	2556	C	N3-C4-N4	-10.34	110.76	118.00
36	1	2687	G	C8-N9-C4	-10.34	102.26	106.40
85	5	1137	C	C5-C6-N1	-10.34	115.83	121.00
85	5	1253	U	C5-C4-O4	-10.34	119.70	125.90
85	5	3136	G	N3-C2-N2	-10.34	112.66	119.90
36	1	81	C	O5'-P-OP1	-10.34	96.39	105.70
36	1	555	U	C5-C6-N1	-10.34	117.53	122.70
36	1	810	A	C5-N7-C8	-10.34	98.73	103.90
36	1	2417	U	C5-C4-O4	-10.34	119.70	125.90
85	5	1007	U	O5'-P-OP1	10.34	123.11	110.70
85	5	1089	G	C5-C6-O6	-10.34	122.40	128.60
36	1	2608	G	N1-C6-O6	10.34	126.10	119.90
80	6	96	G	N9-C4-C5	10.34	109.53	105.40
85	5	1085	A	N1-C2-N3	10.34	134.47	129.30
85	5	1878	G	C2-N3-C4	10.34	117.07	111.90
1	2	1637	G	C8-N9-C4	-10.33	102.27	106.40
36	1	857	G	N1-C6-O6	10.33	126.10	119.90
80	6	600	U	C5-C4-O4	-10.33	119.70	125.90
36	1	637	C	P-O3'-C3'	10.33	132.10	119.70
85	5	2391	G	N1-C6-O6	-10.33	113.70	119.90
36	1	2635	A	C5-C6-N6	10.33	131.97	123.70
36	1	1041	U	C5-C6-N1	-10.33	117.54	122.70
36	1	2645	G	C5-N7-C8	10.33	109.47	104.30
85	5	604	G	N3-C2-N2	-10.33	112.67	119.90
85	5	2655	U	O5'-P-OP2	-10.33	96.40	105.70
85	5	3093	C	N3-C4-C5	-10.33	117.77	121.90
38	8	51	G	N7-C8-N9	10.33	118.27	113.10
36	1	1124	U	C6-N1-C2	-10.33	114.80	121.00
80	6	761	G	N1-C6-O6	-10.33	113.70	119.90
85	5	823	C	N1-C2-O2	-10.33	112.70	118.90
85	5	1142	G	C6-N1-C2	-10.33	118.90	125.10
85	5	2121	G	N1-C2-N3	10.33	130.10	123.90
1	2	81	G	N1-C6-O6	10.33	126.10	119.90
85	5	809	G	N1-C6-O6	10.33	126.09	119.90
85	5	1391	C	N3-C4-N4	10.33	125.23	118.00
1	2	1707	U	N3-C2-O2	10.32	129.43	122.20
36	1	945	C	N3-C2-O2	10.32	129.13	121.90
36	1	575	G	C4-C5-N7	-10.32	106.67	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1681	U	N3-C2-O2	-10.32	114.97	122.20
36	1	2362	C	C2-N3-C4	10.32	125.06	119.90
36	1	3328	G	C8-N9-C4	-10.32	102.27	106.40
80	6	979	A	C8-N9-C4	-10.32	101.67	105.80
85	5	75	G	N1-C6-O6	10.32	126.09	119.90
85	5	1850	A	N9-C4-C5	10.32	109.93	105.80
85	5	1886	A	C4-C5-C6	-10.32	111.84	117.00
85	5	2211	U	O5'-P-OP1	-10.32	96.41	105.70
36	1	2955	U	O5'-P-OP1	-10.32	96.41	105.70
85	5	437	G	C4-C5-C6	-10.32	112.61	118.80
85	5	886	C	O5'-P-OP1	-10.32	96.41	105.70
85	5	1910	A	OP2-P-O3'	10.32	127.91	105.20
85	5	2833	A	C6-N1-C2	-10.32	112.41	118.60
36	1	15	C	N1-C2-O2	-10.32	112.71	118.90
36	1	979	U	C6-N1-C2	-10.32	114.81	121.00
36	1	1289	G	N3-C4-C5	10.32	133.76	128.60
38	8	79	A	C5-C6-N1	-10.32	112.54	117.70
36	1	1518	U	N1-C2-N3	10.32	121.09	114.90
36	1	2884	C	C4-C5-C6	-10.32	112.24	117.40
85	5	2256	A	N9-C4-C5	-10.32	101.67	105.80
36	1	2878	G	N1-C6-O6	10.31	126.09	119.90
37	3	101	G	N1-C2-N3	10.31	130.09	123.90
85	5	1592	G	N9-C4-C5	10.31	109.53	105.40
80	6	1264	G	C4-C5-N7	-10.31	106.67	110.80
85	5	2338	C	O5'-P-OP2	-10.31	96.42	105.70
85	5	2980	U	N3-C4-O4	10.31	126.62	119.40
36	1	1338	C	OP1-P-OP2	-10.31	104.14	119.60
85	5	49	A	C5-C6-N6	-10.31	115.45	123.70
85	5	938	C	N1-C2-O2	-10.31	112.71	118.90
36	1	614	C	N3-C4-C5	10.31	126.02	121.90
36	1	2106	A	C8-N9-C4	10.31	109.92	105.80
36	1	2364	G	N3-C4-N9	-10.31	119.81	126.00
36	1	3393	U	C5-C4-O4	-10.31	119.72	125.90
85	5	902	G	N1-C6-O6	10.31	126.08	119.90
85	5	1347	U	O5'-P-OP2	-10.31	96.42	105.70
85	5	2242	A	N7-C8-N9	-10.31	108.65	113.80
85	5	2810	C	O5'-P-OP1	10.31	123.07	110.70
85	5	2978	U	N3-C2-O2	-10.31	114.98	122.20
38	8	114	G	C5-C6-O6	-10.31	122.42	128.60
85	5	651	G	N1-C2-N3	10.31	130.08	123.90
1	2	254	A	N9-C4-C5	-10.30	101.68	105.80
37	7	49	G	C4-C5-C6	10.30	124.98	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	320	G	OP1-P-OP2	10.30	135.05	119.60
85	5	351	A	N1-C2-N3	10.30	134.45	129.30
85	5	658	G	OP1-P-OP2	10.30	135.06	119.60
85	5	1196	C	C6-N1-C2	10.30	124.42	120.30
85	5	2641	U	N3-C4-O4	10.30	126.61	119.40
85	5	2208	A	N1-C6-N6	10.30	124.78	118.60
36	1	984	G	C5-C6-N1	10.30	116.65	111.50
85	5	40	A	C2-N3-C4	-10.30	105.45	110.60
85	5	3089	C	N3-C4-N4	10.30	125.21	118.00
36	1	906	A	C2-N3-C4	10.30	115.75	110.60
36	1	1370	G	C2-N3-C4	-10.30	106.75	111.90
80	6	478	A	C5-C6-N1	-10.30	112.55	117.70
1	2	1088	C	C6-N1-C2	-10.30	116.18	120.30
80	6	455	C	C5-C4-N4	-10.30	112.99	120.20
85	5	1450	G	C5-N7-C8	-10.30	99.15	104.30
85	5	3153	U	N1-C2-O2	10.30	130.01	122.80
85	5	3041	U	N3-C4-C5	10.30	120.78	114.60
36	1	1196	C	C2-N3-C4	10.29	125.05	119.90
36	1	2112	U	N1-C2-N3	-10.29	108.72	114.90
85	5	1872	C	N1-C2-O2	10.29	125.08	118.90
85	5	2164	A	C2-N3-C4	-10.29	105.45	110.60
85	5	3016	A	N1-C6-N6	10.29	124.78	118.60
85	5	3294	A	C5-C6-N1	10.29	122.85	117.70
37	7	84	A	N7-C8-N9	10.29	118.95	113.80
36	1	283	G	N1-C6-O6	10.29	126.08	119.90
36	1	1126	G	C8-N9-C4	-10.29	102.28	106.40
36	1	1383	G	C5-N7-C8	-10.29	99.15	104.30
36	1	1464	G	C8-N9-C4	10.29	110.52	106.40
80	6	305	C	N3-C4-N4	10.29	125.20	118.00
85	5	136	G	C8-N9-C4	-10.29	102.28	106.40
1	2	859	G	N9-C4-C5	-10.29	101.28	105.40
36	1	981	U	N3-C2-O2	10.29	129.40	122.20
36	1	1678	G	N1-C6-O6	10.29	126.07	119.90
36	1	2387	A	C8-N9-C4	10.29	109.92	105.80
36	1	2754	G	C5-C6-O6	10.29	134.77	128.60
36	1	2816	G	C6-C5-N7	-10.29	124.23	130.40
36	1	3175	U	N1-C2-O2	10.29	130.00	122.80
85	5	2297	U	O5'-P-OP1	-10.29	96.44	105.70
85	5	2643	A	C5-N7-C8	-10.29	98.76	103.90
80	6	1670	G	C2-N3-C4	-10.29	106.76	111.90
85	5	3207	U	C4-C5-C6	10.29	125.87	119.70
85	5	358	G	N3-C4-N9	-10.28	119.83	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	418	A	N9-C4-C5	-10.28	101.69	105.80
38	4	22	U	O5'-P-OP1	10.28	123.04	110.70
85	5	1191	U	C5-C6-N1	-10.28	117.56	122.70
85	5	1310	G	C5-N7-C8	-10.28	99.16	104.30
85	5	3141	A	C2-N3-C4	-10.28	105.46	110.60
36	1	380	U	C6-N1-C2	-10.28	114.83	121.00
36	1	843	A	N1-C6-N6	10.28	124.77	118.60
80	6	935	U	N3-C4-C5	-10.28	108.43	114.60
85	5	682	U	N3-C2-O2	10.28	129.40	122.20
85	5	2952	G	O5'-P-OP1	-10.28	96.44	105.70
85	5	759	U	C5-C4-O4	-10.28	119.73	125.90
85	5	2319	U	C5-C6-N1	10.28	127.84	122.70
37	7	77	G	N3-C4-C5	-10.28	123.46	128.60
36	1	180	C	C4-C5-C6	-10.28	112.26	117.40
38	4	50	C	C4-C5-C6	10.28	122.54	117.40
85	5	168	U	N3-C4-O4	-10.28	112.20	119.40
85	5	2644	C	C4-C5-C6	10.28	122.54	117.40
36	1	512	U	C4-C5-C6	10.28	125.86	119.70
36	1	1094	U	C6-N1-C2	-10.28	114.83	121.00
85	5	37	U	C6-N1-C2	-10.28	114.83	121.00
85	5	57	A	N9-C4-C5	-10.28	101.69	105.80
85	5	632	G	O5'-P-OP2	-10.28	96.45	105.70
36	1	2132	C	O5'-P-OP2	-10.28	96.45	105.70
85	5	2680	A	N1-C6-N6	-10.28	112.44	118.60
1	2	1016	C	N3-C2-O2	-10.27	114.71	121.90
36	1	418	A	O5'-P-OP1	-10.27	96.45	105.70
36	1	2206	G	C5-C6-O6	-10.27	122.44	128.60
36	1	2345	A	N1-C2-N3	10.27	134.44	129.30
36	1	3048	A	O5'-P-OP1	-10.27	96.45	105.70
85	5	1045	C	C6-N1-C2	-10.27	116.19	120.30
85	5	1912	U	N1-C2-O2	-10.27	115.61	122.80
36	1	2231	C	C6-N1-C2	10.27	124.41	120.30
80	6	151	G	O5'-P-OP1	-10.27	96.46	105.70
85	5	60	A	C8-N9-C4	-10.27	101.69	105.80
85	5	745	C	N1-C2-O2	-10.27	112.74	118.90
85	5	2879	C	C4-C5-C6	-10.27	112.27	117.40
85	5	2903	A	C5-C6-N6	10.27	131.92	123.70
85	5	2993	G	C5-C6-N1	10.27	116.63	111.50
85	5	3164	C	C6-N1-C2	10.27	124.41	120.30
36	1	727	G	C6-C5-N7	-10.27	124.24	130.40
36	1	917	A	C8-N9-C4	10.27	109.91	105.80
36	1	939	U	O5'-P-OP1	10.27	123.02	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	275	U	N1-C2-N3	10.27	121.06	114.90
85	5	742	G	C8-N9-C4	-10.27	102.29	106.40
85	5	1444	G	C4-C5-C6	10.27	124.96	118.80
85	5	2213	A	C2-N3-C4	-10.27	105.47	110.60
85	5	2371	G	C2-N3-C4	-10.27	106.77	111.90
85	5	2894	C	N1-C2-N3	10.27	126.39	119.20
36	1	878	G	C5-C6-O6	10.26	134.76	128.60
36	1	1447	G	N1-C6-O6	-10.26	113.74	119.90
36	1	3051	U	C4-C5-C6	-10.26	113.54	119.70
85	5	1899	G	N9-C4-C5	10.26	109.51	105.40
85	5	2977	G	N9-C4-C5	10.26	109.51	105.40
36	1	2319	U	N3-C4-C5	-10.26	108.44	114.60
36	1	3148	U	N3-C4-C5	-10.26	108.44	114.60
80	6	1100	G	N1-C2-N3	10.26	130.06	123.90
85	5	47	C	O5'-P-OP1	10.26	123.02	110.70
85	5	525	C	N1-C2-O2	-10.26	112.74	118.90
85	5	1367	G	N7-C8-N9	10.26	118.23	113.10
85	5	801	A	C5-N7-C8	10.26	109.03	103.90
85	5	1871	U	N1-C2-N3	10.26	121.06	114.90
85	5	2291	A	C5-C6-N1	10.26	122.83	117.70
85	5	2738	A	O5'-P-OP2	-10.26	96.46	105.70
85	5	2846	U	O5'-P-OP2	10.26	123.02	110.70
36	1	333	G	C8-N9-C4	10.26	110.50	106.40
36	1	945	C	N1-C2-O2	-10.26	112.74	118.90
36	1	1193	A	N9-C4-C5	-10.26	101.70	105.80
36	1	1819	U	C5-C6-N1	10.26	127.83	122.70
80	6	1122	G	C2-N3-C4	-10.26	106.77	111.90
85	5	657	A	C2-N3-C4	-10.26	105.47	110.60
37	7	39	C	O5'-P-OP1	10.26	123.01	110.70
36	1	331	G	N1-C6-O6	10.26	126.06	119.90
36	1	621	A	C5-N7-C8	-10.26	98.77	103.90
36	1	1306	G	C6-C5-N7	-10.26	124.25	130.40
85	5	1542	G	N3-C4-C5	10.26	133.73	128.60
1	2	561	G	C4-C5-N7	-10.26	106.70	110.80
36	1	914	A	N9-C4-C5	10.26	109.90	105.80
36	1	962	A	C6-N1-C2	-10.26	112.45	118.60
85	5	198	A	C2-N3-C4	-10.26	105.47	110.60
85	5	1885	U	C5-C6-N1	-10.26	117.57	122.70
1	2	428	A	N1-C6-N6	-10.25	112.45	118.60
36	1	973	A	C5-C6-N1	-10.25	112.57	117.70
85	5	240	U	N1-C2-O2	10.25	129.98	122.80
36	1	1334	U	O5'-P-OP2	-10.25	96.47	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2974	U	N1-C2-N3	10.25	121.05	114.90
85	5	58	G	OP1-P-OP2	-10.25	104.22	119.60
85	5	339	C	C6-N1-C2	-10.25	116.20	120.30
85	5	2598	G	O5'-P-OP1	10.25	123.00	110.70
36	1	1324	U	O5'-P-OP2	-10.25	96.48	105.70
36	1	2942	C	OP1-P-OP2	-10.25	104.23	119.60
36	1	3027	A	C5-C6-N1	-10.25	112.58	117.70
80	6	1656	U	C2-N3-C4	10.25	133.15	127.00
80	6	1680	G	C6-N1-C2	-10.25	118.95	125.10
36	1	2637	A	N9-C4-C5	10.24	109.90	105.80
36	1	3114	A	C5-C6-N1	10.24	122.82	117.70
85	5	1698	C	N1-C2-O2	-10.24	112.75	118.90
85	5	3037	U	N3-C4-C5	-10.24	108.45	114.60
85	5	3210	A	C5-N7-C8	-10.24	98.78	103.90
36	1	648	C	N1-C2-N3	10.24	126.37	119.20
36	1	1334	U	C4-C5-C6	10.24	125.84	119.70
38	4	94	C	C6-N1-C2	10.24	124.40	120.30
85	5	52	A	C8-N9-C4	10.24	109.90	105.80
85	5	1313	G	O5'-P-OP2	-10.24	96.48	105.70
85	5	2380	U	N1-C2-N3	10.24	121.05	114.90
85	5	2911	A	N7-C8-N9	10.24	118.92	113.80
85	5	3327	G	N9-C4-C5	10.24	109.50	105.40
36	1	585	A	C4-C5-N7	10.24	115.82	110.70
36	1	1343	A	O5'-P-OP2	-10.24	96.48	105.70
85	5	40	A	O5'-P-OP1	-10.24	96.48	105.70
85	5	157	A	C6-N1-C2	-10.24	112.46	118.60
85	5	1761	C	N1-C2-N3	-10.24	112.03	119.20
85	5	1934	G	N1-C2-N3	10.24	130.04	123.90
40	l3	196	ARG	NE-CZ-NH2	-10.24	115.18	120.30
36	1	1437	C	C4-C5-C6	10.24	122.52	117.40
36	1	2735	U	O5'-P-OP2	-10.24	96.49	105.70
85	5	119	U	N1-C2-O2	10.24	129.97	122.80
36	1	71	A	N1-C2-N3	10.23	134.42	129.30
36	1	1166	G	C6-C5-N7	-10.23	124.26	130.40
85	5	1107	C	C4-C5-C6	10.23	122.52	117.40
38	8	22	U	C5-C4-O4	-10.23	119.76	125.90
36	1	694	C	N3-C4-C5	-10.23	117.81	121.90
85	5	694	C	O5'-P-OP2	-10.23	96.49	105.70
85	5	1005	G	N3-C4-C5	10.23	133.72	128.60
85	5	3040	A	C2-N3-C4	-10.23	105.48	110.60
36	1	2703	A	O5'-P-OP2	-10.23	96.49	105.70
36	1	2683	U	N3-C2-O2	10.23	129.36	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	L4	95	ARG	NE-CZ-NH1	-10.23	115.19	120.30
85	5	27	C	N1-C2-O2	-10.23	112.76	118.90
85	5	1097	G	C5-C6-O6	10.23	134.74	128.60
80	6	54	C	C5-C6-N1	10.23	126.11	121.00
36	1	1552	G	C4-C5-C6	10.23	124.94	118.80
85	5	3194	C	C6-N1-C2	-10.23	116.21	120.30
36	1	2890	A	C6-N1-C2	-10.23	112.46	118.60
85	5	981	U	N3-C4-O4	10.23	126.56	119.40
85	5	2402	A	O5'-P-OP2	-10.23	96.50	105.70
85	5	2595	A	C8-N9-C4	-10.23	101.71	105.80
85	5	2640	A	N1-C6-N6	10.23	124.74	118.60
36	1	1389	G	C5-N7-C8	-10.22	99.19	104.30
36	1	2221	G	C5-C6-N1	-10.22	106.39	111.50
36	1	2978	U	OP1-P-O3'	10.22	127.70	105.20
38	4	149	A	C2-N3-C4	-10.22	105.49	110.60
80	6	83	G	N1-C6-O6	10.22	126.03	119.90
85	5	691	A	O5'-P-OP1	-10.22	96.50	105.70
85	5	2745	G	O5'-P-OP2	-10.22	96.50	105.70
85	5	2995	A	C6-N1-C2	-10.22	112.47	118.60
85	5	3090	U	O5'-P-OP1	-10.22	96.50	105.70
85	5	3175	U	O5'-P-OP2	-10.22	96.50	105.70
1	2	28	A	C2-N3-C4	-10.22	105.49	110.60
36	1	98	G	C6-N1-C2	-10.22	118.97	125.10
80	6	417	A	O5'-P-OP2	-10.22	96.50	105.70
85	5	950	G	N9-C4-C5	-10.22	101.31	105.40
85	5	1497	C	C5-C4-N4	-10.22	113.05	120.20
85	5	2254	U	C4-C5-C6	10.22	125.83	119.70
85	5	2277	C	O5'-P-OP2	-10.22	96.50	105.70
85	5	2288	G	C2-N3-C4	-10.22	106.79	111.90
38	8	15	G	N3-C4-C5	-10.22	123.49	128.60
38	8	92	A	O5'-P-OP1	-10.22	96.50	105.70
36	1	879	U	N3-C4-O4	-10.22	112.25	119.40
36	1	1745	C	O5'-P-OP2	-10.22	96.50	105.70
85	5	627	U	C5-C4-O4	10.22	132.03	125.90
36	1	2939	G	N1-C2-N3	10.22	130.03	123.90
85	5	1204	A	N1-C2-N3	10.22	134.41	129.30
85	5	1430	U	C6-N1-C2	10.22	127.13	121.00
85	5	2368	A	N1-C2-N3	10.22	134.41	129.30
85	5	2973	G	C2-N3-C4	-10.22	106.79	111.90
36	1	709	A	C5-N7-C8	10.22	109.01	103.90
36	1	3379	C	C4-C5-C6	10.22	122.51	117.40
80	6	1649	G	N1-C6-O6	10.22	126.03	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	895	A	C2-N3-C4	-10.22	105.49	110.60
1	2	36	C	C6-N1-C2	10.21	124.39	120.30
85	5	1188	U	C4-C5-C6	10.21	125.83	119.70
85	5	2663	G	C4-C5-C6	10.22	124.93	118.80
85	5	3099	C	N3-C2-O2	10.21	129.05	121.90
1	2	824	U	O5'-P-OP2	-10.21	96.51	105.70
36	1	1101	G	C4-C5-N7	-10.21	106.72	110.80
36	1	1122	U	N1-C2-O2	-10.21	115.65	122.80
36	1	2279	A	C5-C6-N1	10.21	122.81	117.70
85	5	343	U	N3-C4-C5	-10.21	108.47	114.60
85	5	725	G	C8-N9-C1'	-10.21	113.72	127.00
85	5	1474	A	C5-C6-N1	-10.21	112.59	117.70
85	5	2302	G	N1-C6-O6	-10.21	113.77	119.90
80	6	1017	U	N3-C4-O4	10.21	126.55	119.40
85	5	392	G	C8-N9-C4	-10.21	102.32	106.40
85	5	918	C	N3-C4-C5	-10.21	117.82	121.90
85	5	2774	C	O5'-P-OP1	-10.21	96.51	105.70
85	5	919	U	N1-C2-O2	-10.21	115.65	122.80
85	5	1895	A	C4-C5-C6	-10.21	111.89	117.00
85	5	3137	C	C6-N1-C2	10.21	124.38	120.30
36	1	53	G	C8-N9-C4	10.21	110.48	106.40
36	1	1765	U	N3-C4-O4	10.21	126.55	119.40
36	1	2246	G	N3-C2-N2	-10.21	112.75	119.90
85	5	11	A	C8-N9-C4	-10.21	101.72	105.80
36	1	2614	G	N1-C2-N3	10.21	130.02	123.90
85	5	1006	A	N7-C8-N9	-10.21	108.70	113.80
85	5	3071	U	N3-C4-C5	-10.21	108.47	114.60
85	5	3093	C	N1-C2-O2	-10.21	112.78	118.90
85	5	3127	A	O5'-P-OP2	10.21	122.95	110.70
85	5	3370	A	C8-N9-C4	-10.21	101.72	105.80
36	1	290	G	C6-N1-C2	-10.21	118.98	125.10
36	1	907	G	N9-C4-C5	-10.21	101.32	105.40
36	1	1585	C	N3-C4-C5	-10.21	117.82	121.90
38	4	29	U	O5'-P-OP1	-10.21	96.52	105.70
80	6	324	U	C6-N1-C2	-10.21	114.88	121.00
85	5	375	A	O5'-P-OP1	10.21	122.95	110.70
85	5	1080	A	OP1-P-OP2	-10.21	104.29	119.60
85	5	3105	U	N1-C2-N3	10.21	121.02	114.90
85	5	1433	A	O5'-P-OP1	-10.20	96.52	105.70
1	2	1643	A	C8-N9-C4	10.20	109.88	105.80
36	1	2246	G	C5-C6-O6	10.20	134.72	128.60
36	1	94	G	C5-C6-N1	10.20	116.60	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	154	U	N3-C4-C5	-10.20	108.48	114.60
85	5	1404	G	N3-C4-N9	-10.20	119.88	126.00
85	5	3177	G	N1-C2-N3	10.20	130.02	123.90
85	5	2698	G	C4-C5-N7	-10.20	106.72	110.80
85	5	3065	G	N1-C2-N3	10.20	130.02	123.90
85	5	2358	A	C6-N1-C2	-10.20	112.48	118.60
85	5	2963	C	N3-C4-C5	-10.20	117.82	121.90
36	1	3044	G	OP1-P-OP2	-10.20	104.30	119.60
36	1	1156	C	N1-C2-N3	10.20	126.34	119.20
80	6	942	G	C4-C5-N7	10.20	114.88	110.80
80	6	997	G	N1-C2-N3	10.20	130.02	123.90
85	5	425	G	N3-C4-C5	10.20	133.70	128.60
85	5	715	A	N1-C2-N3	10.20	134.40	129.30
85	5	1172	G	C5-C6-O6	-10.20	122.48	128.60
85	5	2734	A	C8-N9-C4	-10.20	101.72	105.80
36	1	134	U	N1-C2-N3	-10.19	108.78	114.90
36	1	369	A	C4-C5-N7	10.19	115.80	110.70
36	1	2736	A	C5-C6-N1	-10.20	112.60	117.70
36	1	2772	C	O5'-P-OP1	-10.19	96.53	105.70
85	5	326	U	N3-C4-C5	-10.19	108.48	114.60
37	7	9	C	C2-N3-C4	-10.19	114.80	119.90
38	4	90	U	N1-C2-O2	-10.19	115.67	122.80
36	1	331	G	C6-N1-C2	-10.19	118.98	125.10
36	1	1184	A	N7-C8-N9	-10.19	108.70	113.80
36	1	1297	C	C4-C5-C6	10.19	122.50	117.40
36	1	1740	U	N1-C2-O2	-10.19	115.67	122.80
85	5	2717	U	N3-C2-O2	10.19	129.33	122.20
36	1	2337	C	N1-C2-O2	-10.19	112.79	118.90
36	1	3390	G	N1-C6-O6	10.19	126.01	119.90
85	5	1312	C	N1-C2-O2	-10.19	112.79	118.90
36	1	1371	G	C4-C5-N7	-10.19	106.72	110.80
80	6	540	G	O5'-P-OP1	-10.19	96.53	105.70
36	1	323	A	C8-N9-C4	10.18	109.87	105.80
36	1	559	A	C2-N3-C4	-10.18	105.51	110.60
36	1	995	U	C5-C4-O4	-10.18	119.79	125.90
80	6	1047	G	C4-C5-N7	10.18	114.87	110.80
80	6	1385	G	C5-N7-C8	-10.18	99.21	104.30
85	5	417	A	O5'-P-OP2	-10.18	96.53	105.70
85	5	1506	A	C5-N7-C8	-10.18	98.81	103.90
85	5	3327	G	C5-C6-O6	10.18	134.71	128.60
36	1	1202	A	C5-N7-C8	-10.18	98.81	103.90
36	1	3239	G	N3-C4-C5	10.18	133.69	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	2	G	C4-C5-N7	-10.18	106.73	110.80
80	6	339	C	N1-C2-O2	-10.18	112.79	118.90
85	5	1408	G	O5'-P-OP2	-10.18	96.53	105.70
85	5	1418	A	C6-N1-C2	-10.18	112.49	118.60
36	1	5	G	N3-C2-N2	-10.18	112.78	119.90
36	1	299	G	C6-N1-C2	10.18	131.21	125.10
36	1	1387	G	C8-N9-C4	-10.18	102.33	106.40
85	5	592	A	N1-C6-N6	10.18	124.71	118.60
80	6	1065	A	C5-N7-C8	-10.18	98.81	103.90
85	5	182	U	N3-C2-O2	10.18	129.33	122.20
36	1	1287	A	N1-C2-N3	10.18	134.39	129.30
36	1	1392	G	C5-C6-N1	10.18	116.59	111.50
36	1	2433	U	N1-C2-N3	-10.18	108.79	114.90
85	5	1171	G	OP1-P-OP2	-10.18	104.34	119.60
85	5	2754	G	C6-N1-C2	-10.18	118.99	125.10
1	2	433	C	O5'-P-OP1	-10.17	96.54	105.70
85	5	1913	A	C8-N9-C4	-10.17	101.73	105.80
36	1	1376	C	N3-C4-C5	-10.17	117.83	121.90
36	1	1532	C	O5'-P-OP2	-10.17	96.54	105.70
80	6	1113	A	N1-C2-N3	10.17	134.39	129.30
36	1	178	U	O5'-P-OP2	-10.17	96.55	105.70
36	1	695	C	C2-N3-C4	-10.17	114.81	119.90
36	1	1920	U	C5-C6-N1	-10.17	117.61	122.70
36	1	1915	A	N1-C2-N3	10.17	134.38	129.30
36	1	2712	U	C5-C4-O4	10.17	132.00	125.90
36	1	2807	U	N1-C2-O2	-10.17	115.68	122.80
80	6	1655	A	N1-C6-N6	-10.17	112.50	118.60
85	5	1330	A	N9-C4-C5	10.17	109.87	105.80
85	5	2406	C	C5-C6-N1	10.17	126.08	121.00
85	5	499	G	C6-C5-N7	-10.17	124.30	130.40
85	5	630	A	C2-N3-C4	-10.17	105.52	110.60
85	5	2619	G	O5'-P-OP2	10.17	122.90	110.70
38	8	12	A	OP1-P-OP2	-10.17	104.35	119.60
36	1	2185	G	N9-C4-C5	10.17	109.47	105.40
36	1	2297	U	O5'-P-OP2	-10.17	96.55	105.70
36	1	3274	A	N7-C8-N9	10.17	118.88	113.80
85	5	1486	G	N3-C2-N2	-10.17	112.78	119.90
85	5	1878	G	N3-C4-C5	-10.17	123.52	128.60
36	1	2968	G	C8-N9-C4	-10.17	102.33	106.40
80	6	395	U	C5-C6-N1	-10.17	117.62	122.70
85	5	201	A	N1-C6-N6	10.17	124.70	118.60
85	5	2729	U	C6-N1-C2	10.17	127.10	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	91	G	C4-C5-N7	-10.17	106.73	110.80
36	1	2519	A	C5-C6-N1	-10.16	112.62	117.70
38	4	97	A	N9-C4-C5	10.16	109.87	105.80
85	5	1484	U	C4-C5-C6	10.16	125.80	119.70
85	5	1915	A	N1-C2-N3	10.16	134.38	129.30
85	5	2939	G	C8-N9-C4	10.16	110.47	106.40
36	1	1466	G	C2-N3-C4	-10.16	106.82	111.90
36	1	1694	U	C6-N1-C2	10.16	127.10	121.00
38	4	66	A	OP1-P-OP2	-10.16	104.36	119.60
80	6	1490	C	C5-C6-N1	10.16	126.08	121.00
85	5	2220	A	N7-C8-N9	10.16	118.88	113.80
1	2	338	C	C5-C6-N1	-10.16	115.92	121.00
36	1	2698	G	N7-C8-N9	-10.16	108.02	113.10
38	4	114	G	N3-C4-N9	-10.16	119.90	126.00
80	6	44	U	O5'-P-OP1	10.16	122.89	110.70
80	6	325	G	O5'-P-OP1	-10.16	96.56	105.70
85	5	2869	U	C5-C6-N1	-10.16	117.62	122.70
36	1	751	A	C8-N9-C4	-10.16	101.74	105.80
36	1	867	G	C5-N7-C8	10.16	109.38	104.30
36	1	960	U	O5'-P-OP2	-10.16	96.56	105.70
36	1	1175	C	C2-N3-C4	-10.16	114.82	119.90
36	1	3008	A	C8-N9-C4	-10.16	101.74	105.80
36	1	2851	A	N1-C6-N6	-10.16	112.51	118.60
85	5	1545	A	C5-N7-C8	-10.16	98.82	103.90
85	5	2559	U	N3-C2-O2	-10.15	115.09	122.20
37	7	77	G	C6-C5-N7	10.15	136.49	130.40
38	4	149	A	N1-C2-N3	10.15	134.38	129.30
85	5	1939	G	C5-C6-N1	-10.15	106.42	111.50
36	1	2399	A	N7-C8-N9	10.15	118.88	113.80
36	1	2980	U	C5-C6-N1	10.15	127.78	122.70
80	6	1100	G	N3-C4-C5	-10.15	123.53	128.60
85	5	303	G	N1-C6-O6	-10.15	113.81	119.90
78	q2	17	CYS	CA-CB-SG	10.15	132.27	114.00
85	5	651	G	N3-C4-C5	10.15	133.68	128.60
85	5	2363	A	C8-N9-C4	-10.15	101.74	105.80
85	5	2767	U	C2-N3-C4	10.15	133.09	127.00
1	2	1083	G	C4-C5-C6	10.15	124.89	118.80
36	1	64	G	N3-C2-N2	-10.15	112.80	119.90
36	1	228	U	N3-C4-C5	10.15	120.69	114.60
36	1	1884	A	N1-C6-N6	-10.15	112.51	118.60
85	5	774	G	C5-N7-C8	10.15	109.37	104.30
85	5	1172	G	C6-N1-C2	-10.15	119.01	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1824	U	C6-N1-C2	-10.15	114.91	121.00
85	5	2602	G	C5-C6-O6	10.15	134.69	128.60
36	1	56	G	N1-C6-O6	10.14	125.99	119.90
36	1	210	U	N3-C2-O2	-10.14	115.10	122.20
36	1	210	U	N1-C2-O2	10.14	129.90	122.80
36	1	267	G	N7-C8-N9	10.14	118.17	113.10
36	1	866	A	N1-C6-N6	10.14	124.69	118.60
80	6	1304	G	N1-C6-O6	-10.14	113.81	119.90
36	1	104	G	C5-N7-C8	-10.14	99.23	104.30
36	1	3330	A	C6-N1-C2	-10.14	112.51	118.60
85	5	208	C	N3-C4-N4	10.14	125.10	118.00
85	5	760	G	C5-N7-C8	-10.14	99.23	104.30
85	5	1938	U	N3-C2-O2	10.14	129.30	122.20
1	2	1740	G	C8-N9-C4	-10.14	102.34	106.40
36	1	210	U	N3-C4-C5	10.14	120.68	114.60
36	1	704	U	N1-C2-O2	-10.14	115.70	122.80
36	1	2857	C	OP1-P-OP2	-10.14	104.39	119.60
36	1	3299	A	C5-C6-N1	-10.14	112.63	117.70
36	1	3373	U	C6-N1-C2	10.14	127.08	121.00
85	5	1368	U	N3-C2-O2	10.14	129.30	122.20
36	1	1405	U	N1-C2-O2	-10.14	115.70	122.80
85	5	295	A	C8-N9-C4	10.14	109.86	105.80
85	5	1404	G	N1-C6-O6	10.14	125.98	119.90
85	5	1790	G	C4-C5-C6	10.14	124.88	118.80
36	1	677	A	C8-N9-C4	-10.14	101.74	105.80
85	5	1170	A	N1-C2-N3	10.14	134.37	129.30
85	5	2830	G	C4-C5-C6	10.14	124.88	118.80
36	1	809	G	C2-N3-C4	-10.14	106.83	111.90
37	3	17	A	C6-N1-C2	-10.14	112.52	118.60
37	3	92	A	C8-N9-C4	10.14	109.86	105.80
85	5	193	C	C5-C6-N1	-10.14	115.93	121.00
85	5	2425	G	N9-C4-C5	-10.14	101.34	105.40
85	5	3231	U	C6-N1-C2	-10.14	114.92	121.00
36	1	2229	A	N1-C2-N3	-10.14	124.23	129.30
36	1	555	U	N3-C2-O2	-10.13	115.11	122.20
36	1	1122	U	N3-C4-C5	-10.13	108.52	114.60
36	1	1156	C	N1-C2-O2	-10.14	112.82	118.90
36	1	1497	C	C5-C6-N1	-10.13	115.93	121.00
36	1	2964	G	N1-C6-O6	-10.13	113.82	119.90
36	1	3154	C	N1-C2-O2	-10.13	112.82	118.90
80	6	1755	A	N7-C8-N9	10.13	118.87	113.80
85	5	92	G	C5-C6-N1	10.13	116.57	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1367	G	N9-C4-C5	-10.13	101.35	105.40
85	5	139	G	C4-C5-N7	10.13	114.85	110.80
36	1	1306	G	C5-C6-N1	-10.13	106.44	111.50
36	1	2198	A	N1-C6-N6	-10.13	112.52	118.60
36	1	3120	C	O5'-P-OP1	-10.13	96.58	105.70
80	6	211	U	C5-C6-N1	-10.13	117.63	122.70
80	6	1455	G	N1-C6-O6	10.13	125.98	119.90
85	5	1904	C	N3-C2-O2	-10.13	114.81	121.90
80	6	609	U	C2-N3-C4	-10.13	120.92	127.00
80	6	1322	A	C8-N9-C4	10.13	109.85	105.80
85	5	300	G	N1-C6-O6	-10.13	113.82	119.90
85	5	817	A	C5-C6-N1	10.13	122.77	117.70
85	5	1739	U	N1-C2-N3	10.13	120.98	114.90
85	5	1009	A	N1-C6-N6	10.13	124.68	118.60
85	5	1481	A	C8-N9-C4	-10.13	101.75	105.80
36	1	413	U	N3-C2-O2	-10.13	115.11	122.20
36	1	2126	A	O5'-P-OP1	10.13	122.85	110.70
80	6	937	C	C6-N1-C2	-10.13	116.25	120.30
85	5	2291	A	OP1-P-OP2	-10.13	104.41	119.60
85	5	3230	G	C2-N3-C4	-10.13	106.83	111.90
36	1	3215	A	N9-C4-C5	10.13	109.85	105.80
85	5	331	G	N1-C6-O6	-10.12	113.83	119.90
36	1	701	G	C5-N7-C8	10.12	109.36	104.30
80	6	1104	U	N3-C2-O2	10.12	129.28	122.20
85	5	1461	A	C6-N1-C2	-10.12	112.53	118.60
85	5	582	G	C6-C5-N7	-10.12	124.33	130.40
85	5	1367	G	C8-N9-C4	-10.12	102.35	106.40
38	8	80	A	N7-C8-N9	10.12	118.86	113.80
36	1	895	A	N7-C8-N9	10.12	118.86	113.80
80	6	1011	G	N1-C6-O6	10.12	125.97	119.90
85	5	683	U	C5-C6-N1	10.12	127.76	122.70
36	1	138	U	C6-N1-C2	10.12	127.07	121.00
36	1	790	U	N3-C4-O4	-10.12	112.32	119.40
36	1	1445	U	N3-C2-O2	10.12	129.28	122.20
36	1	894	G	C8-N9-C4	-10.11	102.35	106.40
80	6	266	A	N1-C2-N3	10.12	134.36	129.30
80	6	1013	A	C8-N9-C4	-10.11	101.75	105.80
80	6	1463	C	C6-N1-C2	10.12	124.35	120.30
85	5	898	U	N1-C2-N3	-10.11	108.83	114.90
85	5	3047	U	N3-C2-O2	-10.11	115.12	122.20
1	2	254	A	C8-N9-C4	10.11	109.84	105.80
36	1	790	U	C5-C4-O4	10.11	131.97	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	986	G	O5'-P-OP1	10.11	122.83	110.70
85	5	2369	G	N1-C2-N3	10.11	129.97	123.90
85	5	1520	G	C8-N9-C4	-10.11	102.36	106.40
1	2	64	U	N1-C2-O2	-10.11	115.72	122.80
36	1	354	U	C6-N1-C2	-10.11	114.93	121.00
36	1	2650	U	N1-C2-N3	10.11	120.97	114.90
36	1	2801	A	O5'-P-OP2	-10.11	96.60	105.70
80	6	373	G	C5-C6-O6	10.11	134.67	128.60
80	6	521	A	C5-C6-N6	10.11	131.79	123.70
80	6	571	G	N1-C6-O6	-10.11	113.83	119.90
36	1	52	A	C6-N1-C2	-10.11	112.54	118.60
38	4	65	A	C2-N3-C4	-10.11	105.55	110.60
85	5	2129	U	O5'-P-OP1	-10.11	96.60	105.70
85	5	2742	C	C5-C6-N1	-10.11	115.95	121.00
36	1	2918	G	C8-N9-C4	-10.11	102.36	106.40
36	1	3148	U	C5-C6-N1	10.11	127.75	122.70
36	1	3320	A	C8-N9-C4	-10.11	101.76	105.80
85	5	1121	U	N3-C2-O2	10.11	129.27	122.20
85	5	1214	U	N1-C2-N3	10.11	120.96	114.90
85	5	1942	U	C6-N1-C2	-10.11	114.94	121.00
38	8	2	A	N1-C6-N6	-10.11	112.54	118.60
36	1	237	G	O5'-P-OP2	-10.10	96.61	105.70
36	1	515	C	C2-N3-C4	10.10	124.95	119.90
36	1	839	C	O5'-P-OP2	-10.10	96.61	105.70
36	1	2291	A	N9-C4-C5	10.10	109.84	105.80
80	6	953	G	C8-N9-C4	10.10	110.44	106.40
85	5	363	G	C5-N7-C8	-10.10	99.25	104.30
85	5	1124	U	C2-N3-C4	10.10	133.06	127.00
85	5	1309	U	O5'-P-OP1	-10.10	96.61	105.70
85	5	2386	A	N7-C8-N9	10.10	118.85	113.80
36	1	1314	C	N1-C2-N3	10.10	126.27	119.20
36	1	1340	G	C6-N1-C2	-10.10	119.04	125.10
85	5	1592	G	C5-C6-N1	-10.10	106.45	111.50
85	5	2576	G	N1-C6-O6	10.10	125.96	119.90
37	7	43	U	C5-C4-O4	10.10	131.96	125.90
38	8	23	U	N1-C2-N3	10.10	120.96	114.90
85	5	689	U	O5'-P-OP1	-10.10	96.61	105.70
85	5	958	C	C6-N1-C2	-10.10	116.26	120.30
85	5	1668	G	C4-C5-N7	-10.10	106.76	110.80
85	5	2930	A	N7-C8-N9	-10.10	108.75	113.80
85	5	3010	U	C5-C4-O4	10.10	131.96	125.90
1	2	603	U	N3-C2-O2	-10.10	115.13	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	535	G	C2-N3-C4	-10.10	106.85	111.90
38	8	66	A	N9-C4-C5	10.10	109.84	105.80
36	1	899	U	C5-C4-O4	10.10	131.96	125.90
85	5	837	A	N7-C8-N9	-10.10	108.75	113.80
85	5	1742	U	N3-C4-O4	10.10	126.47	119.40
85	5	3066	U	C5-C4-O4	10.10	131.96	125.90
36	1	376	G	C2-N3-C4	-10.09	106.85	111.90
36	1	709	A	N7-C8-N9	-10.09	108.75	113.80
36	1	2758	A	C2-N3-C4	10.09	115.65	110.60
38	4	108	C	C6-N1-C2	-10.09	116.26	120.30
80	6	619	A	C5-C6-N1	10.09	122.75	117.70
80	6	1001	A	C8-N9-C4	-10.09	101.76	105.80
85	5	647	A	OP1-P-OP2	-10.09	104.46	119.60
85	5	1473	G	C4-C5-N7	-10.09	106.76	110.80
85	5	1537	A	OP1-P-OP2	-10.09	104.46	119.60
37	7	87	G	C5-C6-O6	-10.09	122.54	128.60
85	5	2153	U	N3-C4-O4	10.09	126.47	119.40
85	5	2312	A	C8-N9-C4	-10.09	101.76	105.80
85	5	2399	A	N1-C2-N3	10.09	134.35	129.30
36	1	744	A	C8-N9-C4	10.09	109.84	105.80
36	1	2811	A	C5-N7-C8	-10.09	98.85	103.90
80	6	308	C	N1-C2-O2	10.09	124.95	118.90
80	6	426	G	C4-C5-C6	10.09	124.86	118.80
85	5	647	A	C4-C5-N7	-10.09	105.66	110.70
85	5	753	C	C6-N1-C2	10.09	124.34	120.30
85	5	2380	U	O5'-P-OP2	-10.09	96.62	105.70
36	1	700	C	C4-C5-C6	10.09	122.44	117.40
85	5	2335	G	N1-C6-O6	-10.09	113.85	119.90
36	1	80	G	N7-C8-N9	-10.09	108.06	113.10
36	1	323	A	C5-N7-C8	10.09	108.94	103.90
36	1	656	A	C5-N7-C8	-10.09	98.86	103.90
36	1	939	U	C5-C4-O4	-10.09	119.85	125.90
36	1	2307	G	C2-N3-C4	-10.09	106.86	111.90
36	1	2443	A	N1-C6-N6	10.09	124.65	118.60
36	1	2869	U	N3-C4-O4	10.09	126.46	119.40
85	5	2375	G	N9-C4-C5	10.09	109.43	105.40
85	5	2756	C	C6-N1-C2	-10.09	116.27	120.30
85	5	3350	C	C4-C5-C6	-10.09	112.36	117.40
46	19	31	ARG	NE-CZ-NH2	10.09	125.34	120.30
36	1	964	G	N1-C2-N2	10.08	125.28	116.20
36	1	1206	G	C8-N9-C4	-10.08	102.37	106.40
36	1	3295	A	C6-N1-C2	-10.08	112.55	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	103	G	C4-C5-N7	-10.08	106.77	110.80
85	5	3299	A	N1-C2-N3	10.08	134.34	129.30
36	1	676	G	C6-C5-N7	-10.08	124.35	130.40
85	5	1203	A	C6-N1-C2	-10.08	112.55	118.60
85	5	2231	C	C6-N1-C2	-10.08	116.27	120.30
85	5	2625	C	N1-C2-O2	-10.08	112.85	118.90
1	2	1060	C	C6-N1-C2	-10.08	116.27	120.30
36	1	1861	G	N1-C2-N3	-10.08	117.85	123.90
80	6	1656	U	C5-C6-N1	10.08	127.74	122.70
85	5	91	G	N1-C2-N3	10.08	129.95	123.90
85	5	1872	C	N3-C4-N4	-10.08	110.94	118.00
85	5	2866	U	OP1-P-OP2	-10.08	104.48	119.60
85	5	3039	C	C4-C5-C6	10.08	122.44	117.40
36	1	433	A	C8-N9-C4	10.08	109.83	105.80
85	5	367	A	C5-C6-N6	-10.08	115.64	123.70
36	1	2369	G	C4-C5-N7	-10.08	106.77	110.80
36	1	3051	U	N3-C2-O2	10.08	129.25	122.20
80	6	463	U	C4-C5-C6	10.08	125.75	119.70
85	5	928	C	C5-C4-N4	10.08	127.25	120.20
85	5	2899	C	C6-N1-C2	-10.08	116.27	120.30
36	1	1507	G	C5-C6-O6	-10.07	122.56	128.60
36	1	1544	G	C5-C6-N1	10.07	116.54	111.50
36	1	3184	A	C5-C6-N1	10.07	122.74	117.70
80	6	81	G	O5'-P-OP2	-10.07	96.63	105.70
85	5	2768	U	O5'-P-OP2	10.07	122.79	110.70
85	5	684	G	O5'-P-OP2	-10.07	96.63	105.70
36	1	3053	G	N1-C2-N3	10.07	129.94	123.90
85	5	646	A	C2-N3-C4	-10.07	105.56	110.60
85	5	1508	C	N1-C2-N3	10.07	126.25	119.20
1	2	509	G	N1-C6-O6	10.07	125.94	119.90
36	1	402	A	C6-N1-C2	-10.07	112.56	118.60
36	1	656	A	N7-C8-N9	10.07	118.83	113.80
36	1	1896	A	O5'-P-OP1	-10.07	96.64	105.70
36	1	2359	C	N3-C4-C5	-10.07	117.87	121.90
85	5	968	G	C8-N9-C4	10.07	110.43	106.40
85	5	1886	A	O5'-P-OP2	-10.07	96.64	105.70
85	5	2636	A	O5'-P-OP1	-10.07	96.64	105.70
85	5	3003	G	N3-C2-N2	-10.07	112.85	119.90
36	1	1430	U	OP1-P-OP2	10.07	134.70	119.60
36	1	2632	G	C5-C6-N1	10.07	116.53	111.50
85	5	1120	A	O5'-P-OP2	-10.07	96.64	105.70
85	5	1346	G	C8-N9-C4	-10.07	102.37	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1609	C	O5'-P-OP2	-10.07	96.64	105.70
85	5	2861	U	N1-C2-N3	10.07	120.94	114.90
36	1	280	U	C4-C5-C6	10.06	125.74	119.70
36	1	1192	C	N3-C4-C5	-10.06	117.88	121.90
36	1	1870	C	N1-C2-O2	-10.06	112.86	118.90
36	1	2878	G	N3-C2-N2	-10.06	112.86	119.90
80	6	43	A	C6-N1-C2	-10.06	112.56	118.60
85	5	128	G	C4-C5-N7	-10.06	106.77	110.80
85	5	433	A	C5-C6-N1	-10.06	112.67	117.70
85	5	966	U	C5-C6-N1	10.06	127.73	122.70
85	5	1649	U	N3-C2-O2	10.06	129.25	122.20
85	5	2181	C	N3-C2-O2	10.06	128.94	121.90
85	5	2876	C	O5'-P-OP2	-10.06	96.64	105.70
1	2	748	G	C5-C6-O6	-10.06	122.56	128.60
36	1	70	A	C2-N3-C4	-10.06	105.57	110.60
36	1	2705	A	C8-N9-C4	10.06	109.82	105.80
38	4	72	A	C2-N3-C4	-10.06	105.57	110.60
85	5	1390	A	N9-C4-C5	10.06	109.82	105.80
85	5	2356	A	C8-N9-C4	-10.06	101.78	105.80
85	5	2976	A	C5-C6-N6	10.06	131.75	123.70
85	5	3379	C	N3-C4-C5	-10.06	117.88	121.90
38	4	88	A	N1-C6-N6	-10.06	112.56	118.60
85	5	342	A	C5-C6-N1	10.06	122.73	117.70
85	5	816	A	C8-N9-C4	-10.06	101.78	105.80
36	1	2746	A	N1-C6-N6	-10.06	112.57	118.60
36	1	2863	G	N1-C6-O6	10.06	125.93	119.90
80	6	95	G	C5-C6-O6	10.06	134.63	128.60
36	1	33	G	C6-N1-C2	-10.05	119.07	125.10
36	1	2752	U	N3-C2-O2	-10.06	115.16	122.20
36	1	2822	U	N3-C2-O2	10.06	129.24	122.20
38	4	40	A	C5-N7-C8	-10.06	98.87	103.90
36	1	885	U	N3-C4-O4	-10.05	112.36	119.40
85	5	1446	A	C2-N3-C4	10.05	115.63	110.60
85	5	2189	U	N3-C4-C5	-10.05	108.57	114.60
36	1	1793	C	N3-C2-O2	-10.05	114.86	121.90
85	5	2304	C	N1-C2-N3	10.05	126.24	119.20
36	1	262	U	N3-C2-O2	10.05	129.24	122.20
36	1	1183	C	C5-C4-N4	-10.05	113.16	120.20
85	5	34	A	OP2-P-O3'	10.05	127.31	105.20
85	5	425	G	C6-C5-N7	-10.05	124.37	130.40
85	5	514	G	C8-N9-C4	-10.05	102.38	106.40
85	5	1069	C	C2-N3-C4	-10.05	114.88	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	951	A	C2-N3-C4	-10.05	105.58	110.60
36	1	2364	G	C4-C5-N7	-10.05	106.78	110.80
85	5	910	G	N3-C4-C5	10.05	133.62	128.60
85	5	1060	U	O5'-P-OP2	-10.05	96.66	105.70
85	5	2815	G	C2-N3-C4	10.05	116.92	111.90
85	5	2240	G	N1-C6-O6	-10.05	113.87	119.90
36	1	76	G	C8-N9-C4	-10.05	102.38	106.40
36	1	211	A	N1-C2-N3	10.05	134.32	129.30
36	1	564	G	C4-C5-N7	-10.04	106.78	110.80
36	1	2695	A	N1-C6-N6	-10.05	112.57	118.60
85	5	187	A	O5'-P-OP2	10.05	122.76	110.70
85	5	2363	A	C6-C5-N7	-10.05	125.27	132.30
38	4	33	A	C5-C6-N1	-10.04	112.68	117.70
85	5	3182	G	C6-N1-C2	-10.04	119.07	125.10
1	2	608	U	C5-C6-N1	-10.04	117.68	122.70
36	1	2361	A	OP2-P-O3'	10.04	127.29	105.20
80	6	897	C	C4-C5-C6	10.04	122.42	117.40
85	5	41	G	C8-N9-C4	10.04	110.42	106.40
85	5	329	U	N3-C2-O2	-10.04	115.17	122.20
85	5	2160	G	N1-C6-O6	-10.04	113.88	119.90
36	1	185	C	O5'-P-OP2	-10.04	96.67	105.70
80	6	632	U	N3-C2-O2	-10.04	115.17	122.20
85	5	760	G	C6-C5-N7	-10.04	124.38	130.40
85	5	1440	G	C5-C6-N1	-10.04	106.48	111.50
85	5	3373	U	N3-C2-O2	-10.04	115.17	122.20
38	8	8	C	C6-N1-C2	-10.04	116.28	120.30
36	1	658	G	C2-N3-C4	-10.04	106.88	111.90
36	1	2298	U	N3-C4-O4	-10.04	112.37	119.40
85	5	1346	G	C6-C5-N7	-10.04	124.38	130.40
85	5	2385	G	C6-N1-C2	10.04	131.12	125.10
85	5	2894	C	C6-N1-C2	-10.04	116.28	120.30
1	2	440	U	C5-C6-N1	-10.03	117.68	122.70
36	1	3057	U	O5'-P-OP1	-10.03	96.67	105.70
36	1	3069	G	N1-C6-O6	-10.04	113.88	119.90
85	5	1704	A	C5-C6-N1	-10.03	112.68	117.70
85	5	2364	G	N7-C8-N9	10.03	118.12	113.10
85	5	2411	U	C2-N3-C4	-10.03	120.98	127.00
36	1	350	C	N3-C2-O2	-10.03	114.88	121.90
36	1	2176	U	N1-C2-N3	10.03	120.92	114.90
36	1	914	A	C6-N1-C2	-10.03	112.58	118.60
36	1	2095	G	C5-C6-N1	10.03	116.52	111.50
36	1	2398	A	C6-N1-C2	-10.03	112.58	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	204	A	N1-C6-N6	-10.03	112.58	118.60
85	5	1447	G	N3-C4-C5	-10.03	123.58	128.60
80	6	15	U	N3-C2-O2	-10.03	115.18	122.20
85	5	622	A	N7-C8-N9	-10.03	108.78	113.80
85	5	1295	G	C5-C6-N1	-10.03	106.49	111.50
85	5	2888	U	C2-N1-C1'	10.03	129.73	117.70
85	5	3018	C	C2-N3-C4	-10.03	114.89	119.90
1	2	105	A	N1-C6-N6	-10.03	112.58	118.60
36	1	1157	G	C4-C5-N7	-10.03	106.79	110.80
36	1	2419	A	C2-N3-C4	-10.03	105.59	110.60
36	1	2790	A	O5'-P-OP2	-10.03	96.68	105.70
36	1	2806	U	O5'-P-OP2	-10.03	96.68	105.70
85	5	311	C	N3-C4-N4	-10.03	110.98	118.00
85	5	372	A	OP1-P-OP2	10.03	134.64	119.60
85	5	542	G	C4-C5-N7	10.03	114.81	110.80
85	5	1184	A	C4-C5-N7	-10.03	105.69	110.70
36	1	97	U	N3-C2-O2	10.02	129.22	122.20
36	1	189	G	O5'-P-OP1	-10.02	96.68	105.70
36	1	1425	U	C2-N3-C4	-10.02	120.98	127.00
36	1	1893	A	C5-N7-C8	-10.02	98.89	103.90
38	4	9	A	C5-C6-N1	10.02	122.71	117.70
38	4	80	A	O5'-P-OP1	10.02	122.73	110.70
85	5	2405	C	N3-C4-C5	10.02	125.91	121.90
85	5	2966	G	C5-N7-C8	-10.02	99.29	104.30
36	1	212	G	O5'-P-OP1	10.02	122.73	110.70
85	5	640	U	OP1-P-OP2	-10.02	104.57	119.60
85	5	1331	U	N1-C2-N3	10.02	120.91	114.90
85	5	1543	G	C5-N7-C8	-10.02	99.29	104.30
85	5	2373	A	C8-N9-C4	-10.02	101.79	105.80
85	5	2863	G	N1-C2-N2	-10.02	107.18	116.20
36	1	585	A	N9-C4-C5	-10.02	101.79	105.80
36	1	2401	A	N3-C4-C5	10.02	133.81	126.80
41	L4	203	ARG	NE-CZ-NH1	10.02	125.31	120.30
36	1	143	G	N1-C6-O6	-10.02	113.89	119.90
36	1	597	G	C5-C6-N1	10.02	116.51	111.50
36	1	1010	G	O5'-P-OP2	-10.02	96.68	105.70
80	6	35	U	C4-C5-C6	10.02	125.71	119.70
85	5	609	G	N1-C6-O6	10.02	125.91	119.90
85	5	2297	U	N3-C2-O2	10.02	129.21	122.20
85	5	2364	G	C5-N7-C8	-10.02	99.29	104.30
36	1	2403	G	N3-C2-N2	-10.02	112.89	119.90
36	1	2852	C	N3-C2-O2	-10.02	114.89	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	374	A	N7-C8-N9	10.02	118.81	113.80
37	3	28	C	O5'-P-OP2	10.02	122.72	110.70
85	5	916	G	N3-C2-N2	-10.02	112.89	119.90
85	5	1471	U	C5-C6-N1	-10.02	117.69	122.70
85	5	2283	G	C5-C6-N1	-10.02	106.49	111.50
85	5	2735	U	C5-C6-N1	10.02	127.71	122.70
85	5	2887	A	C8-N9-C4	-10.02	101.79	105.80
85	5	2960	C	C6-N1-C2	-10.02	116.29	120.30
85	5	3390	G	N1-C6-O6	10.02	125.91	119.90
37	7	27	A	N1-C6-N6	10.02	124.61	118.60
36	1	363	G	N1-C2-N3	10.01	129.91	123.90
36	1	436	A	N1-C6-N6	10.01	124.61	118.60
85	5	1193	A	C5-C6-N6	10.01	131.71	123.70
36	1	908	G	O4'-C1'-N9	-10.01	100.19	108.20
36	1	2807	U	N3-C2-O2	10.01	129.21	122.20
80	6	1663	G	O5'-P-OP1	10.01	122.71	110.70
85	5	393	U	C5-C6-N1	10.01	127.70	122.70
85	5	2906	C	O5'-P-OP1	10.01	122.71	110.70
85	5	1440	G	C6-C5-N7	-10.01	124.39	130.40
85	5	1790	G	C2-N3-C4	-10.01	106.90	111.90
85	5	2974	U	C2-N3-C4	-10.01	120.99	127.00
85	5	3202	G	N1-C2-N3	10.01	129.91	123.90
38	4	116	G	N7-C8-N9	-10.01	108.10	113.10
85	5	1604	G	C4-C5-N7	-10.01	106.80	110.80
85	5	2619	G	C2-N3-C4	10.01	116.90	111.90
36	1	182	U	N3-C4-O4	-10.01	112.40	119.40
36	1	2387	A	C2-N3-C4	-10.01	105.60	110.60
36	1	2957	G	C8-N9-C4	10.01	110.40	106.40
80	6	611	U	C5-C6-N1	-10.01	117.70	122.70
80	6	1777	G	N3-C2-N2	-10.01	112.89	119.90
85	5	109	A	OP2-P-O3'	10.01	127.21	105.20
85	5	348	A	C2-N3-C4	-10.01	105.60	110.60
85	5	875	G	N9-C4-C5	10.01	109.40	105.40
85	5	1173	U	N1-C2-O2	10.01	129.80	122.80
85	5	2320	A	C5-C6-N1	-10.01	112.70	117.70
85	5	3120	C	C4-C5-C6	-10.01	112.40	117.40
36	1	635	G	C6-N1-C2	-10.00	119.10	125.10
36	1	1518	U	C2-N3-C4	-10.00	121.00	127.00
85	5	983	A	C8-N9-C4	-10.00	101.80	105.80
37	7	28	C	N1-C2-O2	-10.00	112.90	118.90
41	14	138	ARG	NE-CZ-NH1	-10.00	115.30	120.30
36	1	239	G	N7-C8-N9	10.00	118.10	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	116	C	N3-C4-C5	10.00	125.90	121.90
85	5	972	A	C4-C5-C6	10.00	122.00	117.00
85	5	1534	A	C4-C5-C6	10.00	122.00	117.00
36	1	3080	G	C2-N3-C4	10.00	116.90	111.90
38	4	2	A	C2-N3-C4	-10.00	105.60	110.60
85	5	963	G	C2-N3-C4	10.00	116.90	111.90
85	5	1140	G	N9-C4-C5	-10.00	101.40	105.40
85	5	1181	U	O5'-P-OP2	10.00	122.70	110.70
85	5	2200	U	N1-C2-N3	10.00	120.90	114.90
47	m0	3	ARG	NE-CZ-NH1	10.00	125.30	120.30
85	5	2970	C	C4-C5-C6	10.00	122.40	117.40
1	2	1083	G	C6-C5-N7	-9.99	124.40	130.40
36	1	952	A	C8-N9-C4	-9.99	101.80	105.80
80	6	168	A	C8-N9-C4	-9.99	101.80	105.80
80	6	1353	U	C2-N3-C4	9.99	133.00	127.00
85	5	303	G	OP1-P-OP2	9.99	134.59	119.60
38	8	112	U	C4-C5-C6	-9.99	113.70	119.70
36	1	637	C	C2-N3-C4	-9.99	114.90	119.90
36	1	2746	A	C8-N9-C4	-9.99	101.80	105.80
85	5	970	A	N7-C8-N9	-9.99	108.80	113.80
85	5	1401	A	C5-C6-N1	9.99	122.70	117.70
85	5	1857	C	C6-N1-C2	-9.99	116.30	120.30
85	5	2584	G	C8-N9-C4	-9.99	102.40	106.40
85	5	3071	U	C4-C5-C6	9.99	125.70	119.70
36	1	640	U	N3-C4-O4	9.99	126.39	119.40
36	1	1526	U	N1-C2-N3	9.99	120.89	114.90
38	4	58	G	N1-C2-N3	9.99	129.89	123.90
80	6	1726	G	C8-N9-C4	9.99	110.40	106.40
85	5	220	G	N1-C2-N2	-9.99	107.21	116.20
85	5	382	U	N1-C2-N3	9.99	120.89	114.90
85	5	513	G	N9-C4-C5	9.99	109.40	105.40
85	5	2117	A	N3-C4-C5	-9.99	119.81	126.80
85	5	2185	G	O5'-P-OP1	-9.99	96.71	105.70
85	5	1425	U	N1-C2-N3	9.99	120.89	114.90
85	5	2968	G	C8-N9-C4	9.99	110.40	106.40
85	5	1885	U	O5'-P-OP2	-9.99	96.71	105.70
36	1	685	G	O5'-P-OP2	-9.99	96.71	105.70
36	1	2245	C	C6-N1-C2	-9.99	116.31	120.30
36	1	3057	U	N3-C4-O4	-9.99	112.41	119.40
68	o2	47	ARG	NE-CZ-NH1	9.99	125.29	120.30
36	1	215	G	N3-C2-N2	-9.98	112.91	119.90
36	1	1107	C	N3-C4-N4	9.98	124.99	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1203	A	N1-C6-N6	-9.98	112.61	118.60
37	3	78	U	C5-C4-O4	-9.98	119.91	125.90
38	4	102	U	N3-C4-C5	-9.98	108.61	114.60
80	6	1650	U	N3-C4-O4	9.98	126.39	119.40
85	5	3214	U	N3-C4-O4	-9.98	112.41	119.40
85	5	2234	G	N9-C4-C5	-9.98	101.41	105.40
1	2	1079	C	C6-N1-C2	-9.98	116.31	120.30
85	5	1169	A	O5'-P-OP2	-9.98	96.72	105.70
36	1	2873	U	N3-C4-C5	-9.98	108.61	114.60
36	1	2968	G	C5-C6-N1	-9.98	106.51	111.50
85	5	308	A	N1-C2-N3	9.98	134.29	129.30
85	5	664	U	C5-C4-O4	-9.98	119.91	125.90
85	5	1361	U	N3-C2-O2	9.98	129.19	122.20
85	5	2740	A	O5'-P-OP1	9.98	122.68	110.70
36	1	582	G	N3-C4-C5	9.98	133.59	128.60
37	3	28	C	OP1-P-OP2	-9.98	104.63	119.60
37	3	112	G	C8-N9-C4	-9.98	102.41	106.40
85	5	674	G	N3-C4-N9	-9.98	120.01	126.00
85	5	2155	G	N9-C4-C5	-9.98	101.41	105.40
37	7	23	A	C5-C6-N1	9.98	122.69	117.70
36	1	986	U	C2-N3-C4	-9.98	121.01	127.00
36	1	1323	G	C4-C5-N7	-9.98	106.81	110.80
36	1	2888	U	C2-N3-C4	-9.98	121.01	127.00
85	5	2636	A	N1-C2-N3	-9.98	124.31	129.30
85	5	2843	U	N3-C4-O4	-9.98	112.42	119.40
85	5	2878	G	C8-N9-C4	-9.98	102.41	106.40
36	1	3188	G	N7-C8-N9	9.97	118.09	113.10
36	1	209	A	O5'-P-OP1	-9.97	96.72	105.70
36	1	577	C	N1-C2-O2	-9.97	112.92	118.90
85	5	984	G	C2-N3-C4	-9.97	106.91	111.90
85	5	3033	A	C6-N1-C2	-9.97	112.62	118.60
36	1	973	A	C2-N3-C4	-9.97	105.61	110.60
36	1	1377	G	OP1-P-OP2	9.97	134.56	119.60
85	5	1803	C	C6-N1-C2	9.97	124.29	120.30
36	1	569	A	C2-N3-C4	-9.97	105.62	110.60
36	1	569	A	N7-C8-N9	-9.97	108.81	113.80
36	1	1683	A	C6-C5-N7	-9.97	125.32	132.30
36	1	1751	G	C8-N9-C4	9.97	110.39	106.40
36	1	2119	A	C4-C5-N7	9.97	115.68	110.70
36	1	2128	C	O5'-P-OP2	-9.97	96.73	105.70
85	5	1155	C	C2-N1-C1'	9.97	129.77	118.80
85	5	2361	A	C8-N9-C4	-9.97	101.81	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	508	U	C2-N3-C4	9.97	132.98	127.00
85	5	1119	C	C4-C5-C6	9.97	122.38	117.40
85	5	1886	A	C5-N7-C8	-9.97	98.92	103.90
85	5	2317	A	C6-N1-C2	-9.97	112.62	118.60
85	5	2929	C	N1-C2-O2	9.97	124.88	118.90
37	3	120	C	C5-C6-N1	-9.97	116.02	121.00
36	1	983	A	N1-C2-N3	9.96	134.28	129.30
36	1	2861	U	N1-C2-N3	9.96	120.88	114.90
85	5	571	U	N1-C2-N3	9.96	120.88	114.90
85	5	2176	U	N1-C2-N3	9.97	120.88	114.90
85	5	2527	G	N7-C8-N9	-9.97	108.12	113.10
85	5	2700	G	C5-C6-O6	-9.97	122.62	128.60
85	5	1849	C	C2-N3-C4	-9.96	114.92	119.90
37	7	116	C	C5-C6-N1	9.96	125.98	121.00
36	1	1307	G	N1-C6-O6	-9.96	113.92	119.90
36	1	2937	G	C4-C5-C6	-9.96	112.82	118.80
36	1	3365	U	N1-C2-N3	9.96	120.88	114.90
37	7	77	G	C5-C6-N1	9.96	116.48	111.50
85	5	3138	U	C5-C6-N1	9.96	127.68	122.70
1	2	448	C	C6-N1-C2	-9.96	116.32	120.30
36	1	627	U	N3-C4-C5	-9.96	108.63	114.60
80	6	386	G	C5-C6-N1	9.96	116.48	111.50
85	5	811	U	OP1-P-OP2	-9.96	104.67	119.60
85	5	1895	A	C5-C6-N1	9.96	122.68	117.70
85	5	2201	G	C5-N7-C8	9.96	109.28	104.30
85	5	2397	A	N1-C6-N6	-9.96	112.62	118.60
85	5	3143	C	N3-C4-C5	-9.96	117.92	121.90
85	5	2339	C	N3-C2-O2	-9.96	114.93	121.90
85	5	2952	G	N7-C8-N9	9.96	118.08	113.10
36	1	699	A	C2-N3-C4	-9.95	105.62	110.60
36	1	2238	G	C5-C6-O6	-9.95	122.63	128.60
36	1	2607	G	C5-C6-N1	-9.96	106.52	111.50
80	6	1567	U	N3-C4-C5	9.96	120.57	114.60
85	5	2410	U	C6-N1-C2	-9.96	115.03	121.00
80	6	1653	C	C5-C6-N1	-9.95	116.02	121.00
37	7	77	G	C8-N9-C4	9.95	110.38	106.40
36	1	1313	G	C5-N7-C8	-9.95	99.32	104.30
36	1	1333	C	OP1-P-OP2	-9.95	104.67	119.60
37	3	49	G	C8-N9-C4	9.95	110.38	106.40
80	6	264	G	C8-N9-C1'	9.95	139.94	127.00
85	5	2390	A	O5'-P-OP2	-9.95	96.74	105.70
85	5	3023	U	N3-C4-O4	9.95	126.37	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2740	A	C8-N9-C4	-9.95	101.82	105.80
80	6	562	G	C2-N3-C4	-9.95	106.92	111.90
36	1	648	C	N3-C4-C5	-9.95	117.92	121.90
36	1	2376	G	C8-N9-C4	-9.95	102.42	106.40
85	5	1414	G	C5-N7-C8	-9.95	99.33	104.30
1	2	1271	G	N1-C6-O6	-9.95	113.93	119.90
36	1	43	A	N3-C4-C5	9.95	133.76	126.80
36	1	582	G	O5'-P-OP2	-9.95	96.75	105.70
36	1	709	A	C2-N3-C4	9.95	115.57	110.60
36	1	2639	G	C8-N9-C4	-9.94	102.42	106.40
36	1	2727	A	N1-C2-N3	9.95	134.27	129.30
80	6	1266	U	C5-C6-N1	9.95	127.67	122.70
85	5	780	A	C2-N3-C4	-9.95	105.63	110.60
1	2	16	G	C6-N1-C2	-9.94	119.13	125.10
80	6	624	G	N3-C4-C5	9.94	133.57	128.60
1	2	1297	U	N3-C2-O2	-9.94	115.24	122.20
36	1	206	G	C5-C6-O6	-9.94	122.64	128.60
36	1	921	A	C4-C5-N7	-9.94	105.73	110.70
36	1	1115	G	C8-N9-C4	-9.94	102.42	106.40
85	5	524	U	C5-C6-N1	-9.94	117.73	122.70
36	1	1131	G	C6-N1-C2	-9.94	119.14	125.10
80	6	86	A	C5-C6-N1	9.94	122.67	117.70
85	5	61	A	C5-C6-N1	-9.94	112.73	117.70
85	5	1848	G	C5-N7-C8	-9.94	99.33	104.30
85	5	2415	C	N1-C2-O2	9.94	124.86	118.90
85	5	3052	G	N1-C2-N3	9.94	129.87	123.90
37	7	107	C	O5'-P-OP1	9.94	122.63	110.70
85	5	2718	U	N1-C2-N3	9.94	120.86	114.90
85	5	1176	C	C5-C6-N1	9.94	125.97	121.00
36	1	159	A	C5-C6-N1	-9.94	112.73	117.70
36	1	1148	G	N9-C4-C5	-9.94	101.42	105.40
85	5	2372	A	C8-N9-C4	-9.94	101.82	105.80
38	8	103	G	N1-C2-N3	9.94	129.86	123.90
1	2	332	U	O5'-P-OP2	-9.94	96.76	105.70
1	2	956	A	N1-C2-N3	9.94	134.27	129.30
36	1	718	G	C5-N7-C8	-9.94	99.33	104.30
36	1	927	C	N3-C4-C5	-9.94	117.92	121.90
36	1	2403	G	C5-C6-N1	-9.94	106.53	111.50
36	1	3203	U	N1-C2-O2	-9.94	115.85	122.80
38	4	1	A	C5-N7-C8	-9.94	98.93	103.90
85	5	381	U	N1-C2-O2	-9.94	115.85	122.80
85	5	714	G	O5'-P-OP1	-9.94	96.76	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1523	U	N1-C2-O2	9.94	129.75	122.80
38	4	102	U	N1-C2-N3	9.93	120.86	114.90
36	1	346	C	C4-C5-C6	9.93	122.37	117.40
36	1	1502	C	N3-C2-O2	9.93	128.85	121.90
36	1	2397	A	C2-N3-C4	-9.93	105.63	110.60
36	1	3006	A	C8-N9-C4	-9.93	101.83	105.80
36	1	2403	G	C8-N9-C4	-9.93	102.43	106.40
36	1	2675	C	C5-C6-N1	-9.93	116.03	121.00
80	6	677	G	N3-C4-C5	9.93	133.57	128.60
85	5	418	A	C6-C5-N7	-9.93	125.35	132.30
85	5	497	C	C5-C4-N4	9.93	127.15	120.20
85	5	1673	G	C5-C6-N1	9.93	116.47	111.50
85	5	1880	U	N3-C4-O4	-9.93	112.45	119.40
36	1	334	A	C8-N9-C4	-9.93	101.83	105.80
37	3	86	U	N3-C2-O2	9.93	129.15	122.20
85	5	3307	A	C5-C6-N1	-9.93	112.73	117.70
36	1	1753	G	N9-C4-C5	-9.93	101.43	105.40
36	1	1764	U	N3-C4-O4	9.93	126.35	119.40
36	1	3127	A	O5'-P-OP2	-9.93	96.77	105.70
36	1	3376	A	N1-C2-N3	9.93	134.26	129.30
85	5	1370	G	N1-C2-N2	-9.93	107.27	116.20
36	1	1520	G	N1-C6-O6	-9.93	113.94	119.90
85	5	64	G	C6-C5-N7	-9.93	124.44	130.40
85	5	2988	C	C2-N3-C4	-9.93	114.94	119.90
80	6	1395	G	C5-C6-N1	-9.92	106.54	111.50
85	5	655	C	N1-C2-O2	-9.92	112.95	118.90
85	5	1127	G	O5'-P-OP2	-9.92	96.77	105.70
85	5	2188	A	N1-C2-N3	9.92	134.26	129.30
38	8	48	A	N1-C6-N6	-9.92	112.65	118.60
38	8	71	A	C8-N9-C4	9.92	109.77	105.80
36	1	677	A	OP1-P-OP2	-9.92	104.72	119.60
36	1	2721	A	C2-N3-C4	-9.92	105.64	110.60
36	1	2799	A	C6-N1-C2	-9.92	112.65	118.60
80	6	86	A	N1-C6-N6	-9.92	112.65	118.60
80	6	364	G	C6-C5-N7	-9.92	124.45	130.40
85	5	121	A	N9-C4-C5	-9.92	101.83	105.80
85	5	2352	A	C5-N7-C8	9.92	108.86	103.90
85	5	3271	G	N3-C2-N2	9.92	126.84	119.90
36	1	230	U	C2-N3-C4	-9.92	121.05	127.00
36	1	1698	C	N1-C2-N3	9.92	126.14	119.20
85	5	2602	G	N1-C2-N3	9.92	129.85	123.90
36	1	28	C	N1-C2-N3	9.92	126.14	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	969	C	N1-C2-O2	-9.92	112.95	118.90
36	1	2341	A	C5-C6-N1	9.92	122.66	117.70
85	5	3149	G	C4-C5-N7	9.92	114.77	110.80
1	2	780	G	C2-N3-C4	-9.91	106.94	111.90
36	1	131	C	N3-C4-C5	9.91	125.86	121.90
80	6	58	U	C5-C6-N1	9.91	127.66	122.70
36	1	405	U	C2-N1-C1'	9.91	129.59	117.70
36	1	1000	C	C5-C4-N4	-9.91	113.26	120.20
36	1	2731	U	N3-C4-O4	9.91	126.34	119.40
36	1	3289	G	N1-C6-O6	-9.91	113.95	119.90
80	6	1117	U	O5'-P-OP2	-9.91	96.78	105.70
85	5	668	G	C5-C6-O6	9.91	134.55	128.60
85	5	1386	A	OP1-P-OP2	9.91	134.47	119.60
85	5	2652	U	OP1-P-OP2	9.91	134.47	119.60
36	1	939	U	OP1-P-OP2	-9.91	104.74	119.60
36	1	1115	G	C5-C6-N1	-9.91	106.55	111.50
36	1	2637	A	C8-N9-C4	-9.91	101.84	105.80
36	1	2982	A	C6-N1-C2	-9.91	112.65	118.60
80	6	253	A	C8-N9-C4	9.91	109.76	105.80
85	5	295	A	N3-C4-C5	9.91	133.74	126.80
1	2	10	G	C2-N3-C4	9.91	116.85	111.90
36	1	433	A	C2-N3-C4	-9.91	105.65	110.60
36	1	779	G	N1-C2-N3	9.91	129.84	123.90
36	1	1435	A	N7-C8-N9	9.91	118.75	113.80
36	1	1734	G	C2-N3-C4	-9.91	106.95	111.90
36	1	1791	C	N3-C2-O2	9.91	128.84	121.90
36	1	3000	A	N3-C4-C5	9.91	133.73	126.80
36	1	3228	C	N3-C4-N4	-9.91	111.07	118.00
85	5	1185	C	C6-N1-C2	-9.91	116.34	120.30
85	5	1449	A	C5-N7-C8	9.91	108.85	103.90
85	5	2533	G	C4-C5-N7	9.91	114.76	110.80
85	5	2745	G	C2-N3-C4	-9.91	106.95	111.90
1	2	953	A	O5'-P-OP1	-9.90	96.79	105.70
36	1	1099	A	C2-N3-C4	-9.90	105.65	110.60
36	1	1074	U	O5'-P-OP2	9.90	122.58	110.70
36	1	2418	G	N1-C2-N3	-9.90	117.96	123.90
36	1	2740	A	N7-C8-N9	9.90	118.75	113.80
80	6	1279	C	N3-C2-O2	-9.90	114.97	121.90
85	5	28	C	C5-C6-N1	-9.90	116.05	121.00
85	5	1440	G	N3-C4-C5	9.90	133.55	128.60
85	5	2216	G	C8-N9-C4	-9.90	102.44	106.40
1	2	307	G	C5-N7-C8	9.90	109.25	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	630	A	O5'-P-OP2	-9.90	96.79	105.70
36	1	59	G	N3-C2-N2	-9.90	112.97	119.90
36	1	158	G	C2-N3-C4	-9.90	106.95	111.90
36	1	401	U	N3-C2-O2	-9.90	115.27	122.20
36	1	1576	G	N1-C6-O6	9.90	125.84	119.90
36	1	1789	G	C4-C5-N7	9.90	114.76	110.80
36	1	2992	U	N3-C4-C5	-9.90	108.66	114.60
80	6	770	A	C8-N9-C4	9.90	109.76	105.80
85	5	915	A	C5-C6-N1	9.90	122.65	117.70
85	5	2113	A	C8-N9-C4	9.90	109.76	105.80
36	1	2728	G	OP1-P-OP2	9.90	134.45	119.60
85	5	2692	A	C6-N1-C2	-9.90	112.66	118.60
38	8	15	G	C5-C6-O6	9.90	134.54	128.60
38	4	80	A	C5-C6-N6	9.90	131.62	123.70
80	6	537	G	C5-C6-O6	-9.90	122.66	128.60
85	5	76	G	C6-C5-N7	-9.90	124.46	130.40
85	5	801	A	C4-C5-N7	-9.90	105.75	110.70
85	5	1139	G	N1-C2-N2	-9.90	107.29	116.20
85	5	2355	G	C6-C5-N7	-9.90	124.46	130.40
38	8	42	G	C2-N3-C4	-9.90	106.95	111.90
36	1	1213	G	C5-C6-N1	9.89	116.45	111.50
80	6	1725	U	N3-C4-C5	-9.89	108.66	114.60
85	5	1129	A	C5-N7-C8	-9.89	98.95	103.90
36	1	2149	A	N7-C8-N9	-9.89	108.85	113.80
36	1	3255	U	C5-C6-N1	-9.89	117.75	122.70
80	6	645	C	C5-C6-N1	9.89	125.95	121.00
36	1	43	A	C8-N9-C4	9.89	109.76	105.80
36	1	2687	G	N9-C4-C5	9.89	109.36	105.40
85	5	937	G	N3-C2-N2	-9.89	112.98	119.90
85	5	3311	C	N1-C2-N3	-9.89	112.28	119.20
36	1	1373	A	C5-C6-N1	9.89	122.64	117.70
36	1	2652	U	O5'-P-OP2	-9.89	96.80	105.70
36	1	3114	A	N1-C6-N6	-9.89	112.67	118.60
80	6	451	A	C5-C6-N1	-9.89	112.76	117.70
85	5	1167	U	C4-C5-C6	9.89	125.63	119.70
85	5	3332	U	N1-C2-O2	-9.89	115.88	122.80
80	6	1777	G	C2-N3-C4	-9.89	106.96	111.90
85	5	629	U	N3-C4-O4	9.89	126.32	119.40
36	1	3182	G	N1-C2-N2	-9.89	107.30	116.20
85	5	371	G	N3-C4-N9	-9.89	120.07	126.00
36	1	1913	A	C5-C6-N6	-9.88	115.79	123.70
36	1	2290	C	C4-C5-C6	9.88	122.34	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3106	A	C5-N7-C8	-9.88	98.96	103.90
80	6	453	U	C6-N1-C2	-9.88	115.07	121.00
85	5	708	G	C6-C5-N7	-9.88	124.47	130.40
85	5	2878	G	N1-C6-O6	9.88	125.83	119.90
1	2	1771	G	C2-N3-C4	-9.88	106.96	111.90
36	1	564	G	N1-C6-O6	-9.88	113.97	119.90
36	1	2795	U	O5'-P-OP1	-9.88	96.81	105.70
85	5	1513	G	C6-C5-N7	-9.88	124.47	130.40
85	5	2740	A	N7-C8-N9	9.88	118.74	113.80
85	5	3382	U	N3-C2-O2	-9.88	115.28	122.20
36	1	389	A	N9-C4-C5	9.88	109.75	105.80
36	1	1903	U	N3-C4-C5	-9.88	108.67	114.60
80	6	540	G	N1-C6-O6	-9.88	113.97	119.90
85	5	53	G	C2-N3-C4	-9.88	106.96	111.90
80	6	800	U	C6-N1-C2	-9.88	115.07	121.00
80	6	1682	U	N3-C4-O4	9.88	126.31	119.40
85	5	349	A	N7-C8-N9	9.88	118.74	113.80
85	5	1922	A	C2-N3-C4	-9.88	105.66	110.60
37	7	10	C	C2-N3-C4	-9.88	114.96	119.90
1	2	1185	A	C2-N3-C4	9.87	115.54	110.60
36	1	805	G	C6-N1-C2	-9.88	119.17	125.10
36	1	3042	U	N3-C2-O2	9.88	129.11	122.20
80	6	1	U	O5'-P-OP2	-9.88	96.81	105.70
80	6	967	A	C2-N3-C4	9.88	115.54	110.60
85	5	1449	A	C6-N1-C2	-9.88	112.67	118.60
36	1	3102	G	N1-C2-N3	9.87	129.82	123.90
80	6	314	C	N3-C4-C5	-9.88	117.95	121.90
85	5	2258	U	N3-C2-O2	-9.88	115.29	122.20
85	5	315	C	OP1-P-OP2	9.87	134.41	119.60
85	5	706	A	C2-N3-C4	-9.87	105.66	110.60
85	5	1651	U	N3-C4-C5	-9.87	108.68	114.60
36	1	1401	A	C8-N9-C4	9.87	109.75	105.80
36	1	2276	G	C5-C6-N1	9.87	116.44	111.50
85	5	1357	G	N1-C2-N3	9.87	129.82	123.90
85	5	2188	A	C5-C6-N1	-9.87	112.76	117.70
36	1	12	A	N1-C6-N6	-9.87	112.68	118.60
85	5	867	G	N7-C8-N9	9.87	118.03	113.10
36	1	80	G	C2-N3-C4	-9.87	106.97	111.90
36	1	2886	U	C4-C5-C6	9.87	125.62	119.70
36	1	2977	G	O5'-P-OP2	-9.87	96.82	105.70
85	5	980	A	N1-C6-N6	-9.87	112.68	118.60
85	5	1154	A	C2-N3-C4	9.87	115.53	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2177	G	C5-C6-O6	9.87	134.52	128.60
85	5	2618	G	N3-C4-C5	-9.87	123.67	128.60
36	1	239	G	C8-N9-C4	-9.87	102.45	106.40
38	4	37	A	C5-C6-N1	9.87	122.63	117.70
36	1	882	A	O5'-P-OP2	-9.86	96.82	105.70
36	1	1182	A	C4-C5-C6	9.86	121.93	117.00
36	1	2159	U	N1-C2-O2	9.86	129.71	122.80
85	5	73	C	N1-C2-N3	9.86	126.10	119.20
85	5	689	U	N1-C2-O2	-9.87	115.89	122.80
38	8	138	A	C4-C5-C6	9.87	121.93	117.00
85	5	2915	U	O5'-P-OP2	-9.86	96.82	105.70
36	1	108	A	C5-C6-N1	9.86	122.63	117.70
36	1	1678	G	C5-N7-C8	-9.86	99.37	104.30
36	1	2837	A	C6-N1-C2	-9.86	112.68	118.60
37	3	41	G	C5-C6-N1	-9.86	106.57	111.50
80	6	884	A	N7-C8-N9	-9.86	108.87	113.80
85	5	641	C	N1-C2-N3	-9.86	112.30	119.20
80	6	422	G	C4-C5-N7	9.86	114.75	110.80
85	5	2777	G	N1-C6-O6	9.86	125.82	119.90
85	5	3089	C	C4-C5-C6	9.86	122.33	117.40
1	2	56	U	N1-C2-O2	9.86	129.70	122.80
36	1	494	G	O5'-P-OP2	-9.86	96.83	105.70
36	1	2861	U	C2-N3-C4	-9.86	121.08	127.00
36	1	2936	A	N1-C2-N3	9.86	134.23	129.30
36	1	3066	U	N3-C2-O2	-9.86	115.30	122.20
80	6	1100	G	C5-C6-O6	-9.86	122.69	128.60
85	5	306	A	N7-C8-N9	-9.86	108.87	113.80
85	5	1534	A	OP1-P-OP2	-9.86	104.81	119.60
85	5	1928	G	N3-C4-C5	9.86	133.53	128.60
36	1	1313	G	C4-C5-N7	9.86	114.74	110.80
36	1	978	G	N1-C6-O6	9.86	125.81	119.90
36	1	1796	G	N1-C6-O6	9.86	125.81	119.90
80	6	742	U	N3-C4-O4	9.86	126.30	119.40
80	6	1410	A	C2-N3-C4	-9.86	105.67	110.60
85	5	408	A	C4-C5-N7	-9.86	105.77	110.70
36	1	1368	U	N1-C2-N3	9.85	120.81	114.90
36	1	2796	G	O5'-P-OP1	-9.85	96.83	105.70
85	5	55	G	C5-C6-N1	-9.85	106.57	111.50
85	5	2727	A	N1-C6-N6	-9.85	112.69	118.60
1	2	1541	U	N3-C4-C5	9.85	120.51	114.60
36	1	1443	G	C5-N7-C8	-9.85	99.38	104.30
36	1	1527	C	N1-C2-N3	-9.85	112.30	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3152	U	N3-C4-O4	-9.85	112.50	119.40
85	5	1793	C	N3-C4-C5	-9.85	117.96	121.90
85	5	1804	A	C5-C6-N1	-9.85	112.77	117.70
85	5	2329	C	C4-C5-C6	9.85	122.33	117.40
85	5	3076	C	N1-C2-O2	-9.85	112.99	118.90
36	1	1521	G	C8-N9-C4	-9.85	102.46	106.40
36	1	1904	C	N1-C2-O2	-9.85	112.99	118.90
36	1	3075	G	C8-N9-C4	9.85	110.34	106.40
36	1	3221	C	N1-C2-O2	-9.85	112.99	118.90
80	6	606	A	C8-N9-C4	-9.85	101.86	105.80
80	6	1171	A	C8-N9-C4	-9.85	101.86	105.80
85	5	2328	U	N1-C2-N3	9.85	120.81	114.90
85	5	2652	U	N1-C2-N3	-9.85	108.99	114.90
80	6	645	C	C6-N1-C2	-9.85	116.36	120.30
80	6	1165	G	C8-N9-C4	9.85	110.34	106.40
36	1	1796	G	C4-C5-N7	9.85	114.74	110.80
36	1	2433	U	C4-C5-C6	-9.85	113.79	119.70
85	5	1184	A	C6-N1-C2	-9.85	112.69	118.60
85	5	234	G	N1-C6-O6	9.85	125.81	119.90
1	2	1127	U	C6-N1-C2	-9.84	115.09	121.00
1	2	1756	C	C6-N1-C2	-9.84	116.36	120.30
1	2	1768	U	C5-C6-N1	-9.84	117.78	122.70
80	6	943	C	O5'-P-OP2	-9.84	96.84	105.70
36	1	2170	U	C2-N3-C4	-9.84	121.09	127.00
36	1	2744	U	C4-C5-C6	9.84	125.61	119.70
36	1	2834	G	N1-C2-N3	9.84	129.81	123.90
36	1	2904	U	O5'-P-OP1	9.84	122.51	110.70
80	6	22	A	N1-C6-N6	-9.84	112.69	118.60
80	6	467	G	N7-C8-N9	-9.84	108.18	113.10
85	5	851	C	C4-C5-C6	9.84	122.32	117.40
85	5	1285	G	N3-C4-C5	-9.84	123.68	128.60
85	5	2093	A	C5-N7-C8	-9.84	98.98	103.90
85	5	2223	A	N7-C8-N9	9.84	118.72	113.80
85	5	2647	A	C5-N7-C8	-9.84	98.98	103.90
1	2	1148	G	C4-C5-N7	9.84	114.74	110.80
36	1	859	G	C8-N9-C4	-9.84	102.46	106.40
85	5	954	U	N1-C2-N3	9.84	120.81	114.90
1	2	1311	G	C8-N9-C4	9.84	110.34	106.40
36	1	2302	G	N1-C6-O6	-9.84	114.00	119.90
36	1	2943	G	C4-C5-N7	9.84	114.74	110.80
85	5	2295	A	N7-C8-N9	9.84	118.72	113.80
36	1	3377	G	N1-C6-O6	9.84	125.80	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	N1	12	ARG	NE-CZ-NH1	-9.84	115.38	120.30
85	5	397	A	C2-N3-C4	9.84	115.52	110.60
36	1	1301	A	O5'-P-OP1	-9.84	96.84	105.70
36	1	1476	G	N7-C8-N9	-9.84	108.18	113.10
37	3	3	U	N3-C2-O2	-9.84	115.31	122.20
85	5	1828	A	C8-N9-C4	-9.84	101.86	105.80
85	5	2606	G	C5-C6-O6	9.84	134.50	128.60
85	5	2810	C	OP1-P-OP2	-9.84	104.84	119.60
80	6	290	G	N3-C2-N2	-9.84	113.02	119.90
85	5	204	A	C6-N1-C2	-9.84	112.70	118.60
37	7	72	A	C5-C6-N1	9.84	122.62	117.70
1	2	1068	G	C5-C6-N1	9.83	116.42	111.50
36	1	135	C	N3-C4-C5	-9.83	117.97	121.90
85	5	991	G	C8-N9-C4	-9.83	102.47	106.40
36	1	1422	G	C5-C6-N1	9.83	116.42	111.50
85	5	1212	A	OP1-P-OP2	-9.83	104.85	119.60
85	5	1225	A	C8-N9-C4	-9.83	101.87	105.80
37	7	64	A	N1-C6-N6	-9.83	112.70	118.60
36	1	367	A	C8-N9-C4	-9.83	101.87	105.80
36	1	581	U	O5'-P-OP1	-9.83	96.85	105.70
36	1	797	U	N3-C2-O2	9.83	129.08	122.20
36	1	1056	U	OP1-P-OP2	-9.83	104.86	119.60
85	5	628	A	N1-C2-N3	9.83	134.22	129.30
36	1	1089	G	N7-C8-N9	-9.83	108.19	113.10
36	1	1401	A	N1-C2-N3	9.83	134.22	129.30
36	1	1603	A	C4-C5-N7	-9.83	105.78	110.70
36	1	3066	U	C4-C5-C6	9.83	125.60	119.70
36	1	3339	A	OP1-P-OP2	-9.83	104.85	119.60
85	5	1761	C	C2-N3-C4	9.83	124.81	119.90
36	1	932	U	N1-C2-N3	9.83	120.80	114.90
36	1	1196	C	O5'-P-OP1	-9.83	96.86	105.70
36	1	3310	A	C2-N3-C4	-9.83	105.69	110.60
85	5	2769	A	C2-N3-C4	-9.83	105.69	110.60
85	5	3327	G	N1-C2-N3	9.83	129.80	123.90
36	1	2833	A	C8-N9-C4	9.83	109.73	105.80
36	1	2878	G	C2-N3-C4	-9.83	106.99	111.90
80	6	972	G	C5-N7-C8	-9.83	99.39	104.30
85	5	202	G	C2-N3-C4	-9.83	106.99	111.90
85	5	425	G	OP1-P-OP2	-9.83	104.86	119.60
85	5	865	U	N3-C2-O2	9.83	129.08	122.20
85	5	1457	U	O5'-P-OP1	-9.83	96.86	105.70
36	1	656	A	C6-C5-N7	-9.82	125.42	132.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	808	A	N3-C4-C5	-9.82	119.92	126.80
36	1	837	A	C2-N3-C4	-9.82	105.69	110.60
36	1	1529	A	N1-C2-N3	9.82	134.21	129.30
36	1	1852	G	C5-C6-O6	-9.82	122.70	128.60
36	1	3005	A	N7-C8-N9	9.82	118.71	113.80
36	1	3137	C	O5'-P-OP2	-9.82	96.86	105.70
36	1	3266	G	N1-C2-N3	9.82	129.79	123.90
38	4	114	G	N1-C2-N2	9.82	125.04	116.20
85	5	2950	G	OP1-P-O3'	9.82	126.81	105.20
36	1	156	G	N1-C6-O6	9.82	125.79	119.90
36	1	755	A	N1-C6-N6	-9.82	112.71	118.60
36	1	1134	G	C6-N1-C2	-9.82	119.21	125.10
85	5	1656	A	N7-C8-N9	-9.82	108.89	113.80
85	5	2738	A	N1-C2-N3	9.82	134.21	129.30
85	5	2963	C	N3-C4-N4	9.82	124.88	118.00
36	1	18	G	C4-C5-N7	9.82	114.73	110.80
36	1	1658	G	O5'-P-OP2	-9.82	96.86	105.70
36	1	2897	A	N1-C2-N3	9.82	134.21	129.30
36	1	3058	U	OP1-P-OP2	9.82	134.33	119.60
80	6	1030	A	N1-C2-N3	9.82	134.21	129.30
85	5	2824	G	C4-C5-C6	9.82	124.69	118.80
85	5	2757	U	N3-C2-O2	-9.82	115.33	122.20
37	7	54	U	N1-C2-N3	9.82	120.79	114.90
37	7	110	G	C8-N9-C4	9.82	110.33	106.40
1	2	1148	G	C5-C6-N1	9.82	116.41	111.50
36	1	2623	G	N7-C8-N9	9.82	118.01	113.10
36	1	2890	A	N1-C2-N3	9.82	134.21	129.30
85	5	609	G	N3-C4-C5	9.82	133.51	128.60
85	5	828	A	C2-N3-C4	-9.82	105.69	110.60
85	5	2865	U	N1-C2-O2	9.82	129.67	122.80
85	5	3157	U	N1-C2-O2	9.82	129.67	122.80
36	1	2099	A	C2-N3-C4	-9.82	105.69	110.60
85	5	1721	U	C6-N1-C2	-9.82	115.11	121.00
85	5	2913	C	C6-N1-C2	-9.82	116.37	120.30
85	5	1296	C	N1-C2-N3	9.81	126.07	119.20
1	2	1588	G	N3-C4-C5	9.81	133.51	128.60
36	1	56	G	C5-N7-C8	-9.81	99.39	104.30
36	1	904	A	N1-C2-N3	9.81	134.21	129.30
85	5	867	G	C5-C6-O6	-9.81	122.71	128.60
85	5	1838	G	O5'-P-OP2	-9.81	96.87	105.70
36	1	2554	A	N7-C8-N9	-9.81	108.89	113.80
85	5	2824	G	C2-N3-C4	-9.81	106.99	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	186	U	N3-C2-O2	-9.81	115.33	122.20
36	1	3191	G	N1-C2-N3	9.81	129.79	123.90
38	4	95	G	C8-N9-C4	9.81	110.33	106.40
85	5	2618	G	N1-C2-N3	9.81	129.79	123.90
37	7	23	A	C6-N1-C2	-9.81	112.71	118.60
38	8	97	A	C5-C6-N1	-9.81	112.79	117.70
1	2	737	A	C8-N9-C4	9.81	109.72	105.80
36	1	677	A	O5'-P-OP2	9.81	122.47	110.70
36	1	2758	A	C4-C5-N7	-9.81	105.80	110.70
80	6	1670	G	C4-C5-C6	9.81	124.68	118.80
85	5	1375	G	N3-C4-C5	9.81	133.50	128.60
85	5	1656	A	C8-N9-C4	9.81	109.72	105.80
85	5	2896	A	N1-C2-N3	9.81	134.20	129.30
36	1	343	U	O5'-P-OP2	-9.80	96.88	105.70
36	1	1122	U	N1-C2-N3	9.80	120.78	114.90
36	1	1151	U	O5'-P-OP1	-9.80	96.88	105.70
36	1	2282	U	O5'-P-OP2	-9.81	96.87	105.70
36	1	2864	A	N1-C2-N3	9.80	134.20	129.30
85	5	2399	A	C5-N7-C8	-9.80	99.00	103.90
85	5	2863	G	N9-C4-C5	9.80	109.32	105.40
36	1	2670	G	O5'-P-OP1	9.80	122.46	110.70
80	6	45	U	C6-N1-C2	-9.80	115.12	121.00
85	5	569	A	C5-N7-C8	9.80	108.80	103.90
85	5	1889	G	C6-C5-N7	-9.80	124.52	130.40
1	2	635	A	C8-N9-C4	-9.80	101.88	105.80
85	5	2920	U	C6-N1-C2	-9.80	115.12	121.00
80	6	1144	U	C4-C5-C6	9.80	125.58	119.70
85	5	113	C	C5-C4-N4	-9.80	113.34	120.20
85	5	1923	C	C4-C5-C6	-9.80	112.50	117.40
36	1	2954	U	N3-C2-O2	9.80	129.06	122.20
36	1	151	A	C5-N7-C8	-9.80	99.00	103.90
80	6	588	U	OP1-P-OP2	-9.80	104.90	119.60
85	5	826	G	C5-N7-C8	-9.80	99.40	104.30
85	5	1430	U	OP1-P-OP2	9.80	134.30	119.60
85	5	1848	G	N3-C2-N2	9.80	126.76	119.90
85	5	1895	A	C5-N7-C8	-9.80	99.00	103.90
85	5	2528	G	C5-C6-O6	-9.80	122.72	128.60
36	1	73	C	C5-C6-N1	9.80	125.90	121.00
36	1	2418	G	O5'-P-OP2	-9.80	96.88	105.70
36	1	1193	A	C4-C5-C6	-9.79	112.10	117.00
36	1	1307	G	N1-C2-N2	-9.79	107.39	116.20
36	1	2890	A	N3-C4-C5	-9.79	119.94	126.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2943	G	C5-N7-C8	-9.79	99.40	104.30
38	4	123	G	C5-C6-N1	9.79	116.40	111.50
36	1	59	G	C4-C5-C6	9.79	124.68	118.80
36	1	3062	G	N1-C6-O6	9.79	125.78	119.90
85	5	1112	A	OP1-P-O3'	9.79	126.74	105.20
38	8	20	U	N3-C4-O4	9.79	126.25	119.40
36	1	28	C	N3-C4-N4	9.79	124.85	118.00
36	1	2121	G	N9-C4-C5	9.79	109.32	105.40
80	6	1086	A	C2-N3-C4	9.79	115.50	110.60
85	5	1143	A	C8-N9-C4	9.79	109.72	105.80
85	5	1475	A	C2-N3-C4	-9.79	105.70	110.60
85	5	1489	A	C8-N9-C4	-9.79	101.88	105.80
85	5	1907	C	O5'-P-OP1	-9.79	96.89	105.70
85	5	2634	U	N1-C2-O2	-9.79	115.95	122.80
85	5	3085	G	N1-C6-O6	-9.79	114.03	119.90
36	1	989	A	C4-C5-N7	9.79	115.59	110.70
36	1	1385	C	O5'-P-OP1	-9.79	96.89	105.70
38	4	64	U	N3-C4-O4	9.79	126.25	119.40
38	4	94	C	N3-C4-C5	9.79	125.82	121.90
80	6	1131	A	C5-C6-N6	-9.79	115.87	123.70
85	5	923	C	N3-C2-O2	-9.79	115.05	121.90
85	5	1589	A	C2-N3-C4	9.79	115.50	110.60
36	1	400	G	N1-C6-O6	9.79	125.77	119.90
80	6	1000	C	N1-C2-N3	9.79	126.05	119.20
36	1	89	A	N1-C6-N6	-9.79	112.73	118.60
36	1	899	U	C4-C5-C6	9.78	125.57	119.70
36	1	983	A	O5'-P-OP2	9.78	122.44	110.70
36	1	2097	U	C2-N3-C4	9.79	132.87	127.00
36	1	2684	C	N1-C2-O2	-9.78	113.03	118.90
36	1	3006	A	N7-C8-N9	9.78	118.69	113.80
80	6	616	G	O5'-P-OP1	-9.79	96.89	105.70
85	5	701	G	C4-C5-N7	-9.79	106.89	110.80
85	5	882	A	C6-N1-C2	-9.79	112.73	118.60
85	5	1403	C	N1-C2-O2	-9.79	113.03	118.90
85	5	2898	G	N3-C4-N9	-9.79	120.13	126.00
85	5	3022	G	N9-C4-C5	9.79	109.31	105.40
85	5	3184	A	C4-C5-N7	9.79	115.59	110.70
36	1	3375	A	O5'-P-OP2	-9.78	96.90	105.70
85	5	301	G	N7-C8-N9	-9.78	108.21	113.10
85	5	2986	U	N1-C2-O2	-9.78	115.95	122.80
85	5	3117	C	N3-C4-N4	-9.78	111.15	118.00
85	5	3222	U	C5-C6-N1	9.78	127.59	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	79	A	O5'-P-OP2	9.78	122.44	110.70
1	2	297	U	N3-C2-O2	-9.78	115.36	122.20
36	1	1207	G	C4-C5-N7	9.78	114.71	110.80
36	1	2833	A	C2-N3-C4	-9.78	105.71	110.60
85	5	2833	A	N1-C6-N6	-9.78	112.73	118.60
1	2	424	C	C6-N1-C2	-9.78	116.39	120.30
36	1	1818	U	N1-C2-N3	-9.78	109.03	114.90
36	1	2422	C	N3-C4-C5	-9.78	117.99	121.90
38	4	61	A	N1-C6-N6	9.78	124.47	118.60
80	6	155	U	O5'-P-OP2	-9.78	96.90	105.70
85	5	1612	A	N1-C2-N3	9.78	134.19	129.30
85	5	2378	C	N3-C4-C5	9.78	125.81	121.90
85	5	2396	G	C2-N3-C4	-9.78	107.01	111.90
1	2	538	A	C4-C5-C6	-9.78	112.11	117.00
80	6	608	U	N3-C2-O2	-9.78	115.36	122.20
80	6	925	G	N1-C6-O6	9.78	125.77	119.90
80	6	1056	U	C6-N1-C2	-9.78	115.13	121.00
85	5	515	C	N3-C2-O2	9.78	128.74	121.90
85	5	2877	G	N3-C4-N9	-9.78	120.13	126.00
36	1	1357	G	C6-C5-N7	-9.77	124.54	130.40
80	6	1014	G	C4-C5-N7	-9.77	106.89	110.80
85	5	131	C	N1-C2-O2	9.77	124.76	118.90
85	5	345	G	N1-C2-N3	9.77	129.76	123.90
85	5	1455	U	C5-C4-O4	-9.77	120.04	125.90
85	5	1947	G	C2-N3-C4	9.77	116.78	111.90
1	2	370	A	C2-N3-C4	9.77	115.48	110.60
36	1	998	A	N7-C8-N9	9.77	118.69	113.80
36	1	1131	G	C5-C6-O6	-9.77	122.74	128.60
36	1	1345	G	C5-N7-C8	-9.77	99.42	104.30
36	1	1473	G	C5-N7-C8	-9.77	99.42	104.30
85	5	727	G	C8-N9-C4	9.77	110.31	106.40
85	5	1437	C	N3-C4-C5	-9.77	117.99	121.90
85	5	2875	U	N3-C2-O2	9.77	129.04	122.20
36	1	2168	A	C4-C5-N7	-9.77	105.82	110.70
36	1	2775	U	C4-C5-C6	9.77	125.56	119.70
36	1	3030	G	N9-C4-C5	9.77	109.31	105.40
85	5	96	G	C6-C5-N7	-9.77	124.54	130.40
85	5	2376	G	C5-C6-O6	-9.77	122.74	128.60
37	7	61	G	N7-C8-N9	-9.77	108.22	113.10
80	6	396	G	C2-N3-C4	-9.77	107.02	111.90
80	6	1139	A	C5-C6-N1	9.77	122.58	117.70
85	5	1350	A	C5-N7-C8	9.77	108.78	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1491	A	C6-N1-C2	-9.77	112.74	118.60
85	5	2788	C	N1-C2-O2	-9.77	113.04	118.90
36	1	1044	U	C5-C4-O4	-9.76	120.04	125.90
80	6	544	A	O5'-P-OP2	-9.76	96.91	105.70
85	5	2994	A	C2-N3-C4	9.76	115.48	110.60
1	2	430	G	N1-C6-O6	-9.76	114.04	119.90
1	2	986	A	C8-N9-C4	-9.76	101.89	105.80
36	1	3375	A	C4-C5-C6	9.76	121.88	117.00
85	5	216	G	O5'-P-OP1	-9.76	96.91	105.70
85	5	3025	C	C2-N3-C4	-9.76	115.02	119.90
37	7	69	C	O5'-P-OP2	-9.76	96.91	105.70
36	1	1213	G	C8-N9-C4	9.76	110.30	106.40
36	1	685	G	N7-C8-N9	-9.76	108.22	113.10
36	1	2377	G	C6-N1-C2	-9.76	119.25	125.10
85	5	344	A	C5-N7-C8	-9.76	99.02	103.90
85	5	933	A	N1-C2-N3	9.76	134.18	129.30
85	5	1355	A	C2-N3-C4	-9.76	105.72	110.60
85	5	2319	U	C4-C5-C6	9.76	125.56	119.70
36	1	498	A	C4-C5-N7	-9.76	105.82	110.70
36	1	585	A	C5-N7-C8	-9.76	99.02	103.90
36	1	2828	G	N3-C4-C5	-9.76	123.72	128.60
80	6	338	C	N3-C4-N4	9.76	124.83	118.00
85	5	347	G	N1-C2-N3	9.76	129.75	123.90
85	5	1358	C	C6-N1-C2	9.76	124.20	120.30
85	5	2122	G	OP1-P-OP2	-9.76	104.97	119.60
85	5	2216	G	N9-C4-C5	9.76	109.30	105.40
85	5	2204	C	C2-N3-C4	-9.76	115.02	119.90
36	1	44	U	C5-C4-O4	9.75	131.75	125.90
36	1	1346	G	C5-C6-O6	9.75	134.45	128.60
36	1	1802	C	N3-C4-C5	-9.75	118.00	121.90
36	1	1860	G	C5-C6-N1	-9.75	106.62	111.50
36	1	2937	G	N7-C8-N9	-9.75	108.22	113.10
85	5	883	A	C2-N3-C4	-9.75	105.72	110.60
85	5	963	G	N1-C2-N2	-9.75	107.42	116.20
85	5	2799	A	C4-C5-C6	9.75	121.88	117.00
85	5	2871	G	N9-C4-C5	9.75	109.30	105.40
36	1	3312	U	N1-C2-O2	-9.75	115.97	122.80
37	3	63	A	C5-C6-N1	9.75	122.58	117.70
85	5	1327	C	N3-C4-C5	9.75	125.80	121.90
85	5	2746	A	C2-N3-C4	-9.75	105.72	110.60
36	1	131	C	N1-C2-O2	9.75	124.75	118.90
36	1	637	C	N3-C4-N4	-9.75	111.17	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1118	G	N1-C2-N3	9.75	129.75	123.90
36	1	523	A	C8-N9-C4	9.75	109.70	105.80
36	1	2519	A	N7-C8-N9	9.75	118.67	113.80
36	1	2986	U	N1-C2-O2	-9.75	115.98	122.80
38	4	152	G	N1-C2-N3	9.75	129.75	123.90
85	5	200	C	N3-C4-C5	9.75	125.80	121.90
85	5	571	U	C5-C6-N1	-9.75	117.83	122.70
85	5	846	A	O5'-P-OP1	9.75	122.40	110.70
85	5	1739	U	N1-C2-O2	-9.75	115.97	122.80
85	5	2125	A	OP1-P-OP2	-9.75	104.97	119.60
85	5	2270	A	C2-N3-C4	-9.75	105.72	110.60
85	5	2726	C	N3-C4-N4	-9.75	111.18	118.00
36	1	2368	A	N1-C6-N6	-9.75	112.75	118.60
38	4	92	A	N1-C6-N6	9.75	124.45	118.60
85	5	2187	G	N1-C2-N2	-9.75	107.43	116.20
85	5	2628	A	C2-N3-C4	-9.75	105.73	110.60
85	5	2790	A	C6-C5-N7	-9.75	125.48	132.30
85	5	3237	U	O5'-P-OP1	-9.75	96.93	105.70
1	2	686	G	C8-N9-C4	-9.75	102.50	106.40
36	1	718	G	C4-C5-N7	9.75	114.70	110.80
36	1	2206	G	N1-C6-O6	9.75	125.75	119.90
36	1	3066	U	N1-C2-N3	9.75	120.75	114.90
85	5	609	G	C5-C6-N1	-9.75	106.63	111.50
85	5	964	G	C8-N9-C4	-9.75	102.50	106.40
85	5	3363	U	C5-C4-O4	-9.75	120.05	125.90
85	5	1552	G	N1-C6-O6	9.74	125.75	119.90
85	5	2432	A	N7-C8-N9	9.74	118.67	113.80
36	1	80	G	C6-N1-C2	-9.74	119.25	125.10
36	1	870	G	N3-C2-N2	-9.74	113.08	119.90
36	1	1622	U	N3-C2-O2	-9.74	115.38	122.20
36	1	3101	G	C5-C6-N1	9.74	116.37	111.50
80	6	986	G	O5'-P-OP2	-9.74	96.93	105.70
85	5	1374	G	N9-C4-C5	-9.74	101.50	105.40
85	5	1628	C	C6-N1-C2	-9.74	116.40	120.30
36	1	3056	U	N1-C2-O2	-9.74	115.98	122.80
36	1	3186	A	C6-N1-C2	-9.74	112.75	118.60
80	6	987	G	OP1-P-OP2	-9.74	104.99	119.60
85	5	784	A	N9-C4-C5	9.74	109.70	105.80
85	5	1868	G	C4-C5-N7	9.74	114.70	110.80
38	4	157	U	C5-C6-N1	-9.74	117.83	122.70
85	5	2291	A	N1-C6-N6	-9.74	112.75	118.60
85	5	1800	A	C2-N3-C4	9.74	115.47	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	577	G	N1-C6-O6	9.73	125.74	119.90
36	1	1299	U	N3-C2-O2	9.73	129.01	122.20
85	5	408	A	C6-N1-C2	-9.73	112.76	118.60
85	5	2132	C	C5-C6-N1	-9.73	116.13	121.00
1	2	804	U	C5-C4-O4	-9.73	120.06	125.90
36	1	3318	G	N1-C6-O6	-9.73	114.06	119.90
37	3	54	U	O5'-P-OP1	-9.73	96.94	105.70
80	6	540	G	N7-C8-N9	-9.73	108.23	113.10
85	5	295	A	C6-C5-N7	-9.73	125.49	132.30
85	5	915	A	C2-N3-C4	9.73	115.47	110.60
85	5	2117	A	N1-C6-N6	-9.73	112.76	118.60
36	1	156	G	C4-C5-N7	9.73	114.69	110.80
36	1	418	A	N1-C6-N6	-9.73	112.76	118.60
1	2	961	A	N9-C4-C5	9.73	109.69	105.80
36	1	439	C	C5-C6-N1	9.73	125.86	121.00
36	1	743	C	N3-C4-N4	-9.73	111.19	118.00
36	1	1346	G	N3-C4-N9	-9.73	120.16	126.00
36	1	2753	G	C2-N3-C4	9.73	116.77	111.90
36	1	2755	C	N3-C4-C5	-9.73	118.01	121.90
80	6	1116	A	C4-C5-N7	9.73	115.56	110.70
85	5	1113	G	C4-C5-C6	9.73	124.64	118.80
36	1	1308	A	N1-C2-N3	9.73	134.16	129.30
36	1	2102	U	C6-N1-C2	9.73	126.84	121.00
36	1	2674	A	N1-C6-N6	-9.73	112.76	118.60
36	1	2124	G	N1-C2-N3	9.73	129.74	123.90
36	1	2993	G	N3-C2-N2	9.73	126.71	119.90
85	5	114	A	C4-C5-N7	9.73	115.56	110.70
85	5	569	A	C2-N3-C4	9.73	115.46	110.60
85	5	1542	G	C4-C5-C6	-9.73	112.96	118.80
85	5	1166	G	C8-N9-C4	9.73	110.29	106.40
85	5	3043	C	C5-C4-N4	-9.73	113.39	120.20
36	1	797	U	C2-N3-C4	-9.72	121.17	127.00
36	1	1933	A	C6-C5-N7	-9.72	125.49	132.30
37	3	77	G	N7-C8-N9	9.72	117.96	113.10
80	6	459	G	C4-C5-N7	9.72	114.69	110.80
85	5	636	C	N3-C4-C5	9.72	125.79	121.90
85	5	1285	G	C5-C6-N1	9.72	116.36	111.50
85	5	2333	C	N3-C4-C5	9.72	125.79	121.90
85	5	3036	G	O5'-P-OP1	9.72	122.37	110.70
36	1	2134	G	C6-N1-C2	-9.72	119.27	125.10
36	1	3079	U	N3-C2-O2	9.72	129.01	122.20
47	M0	146	ASP	CB-CG-OD2	-9.72	109.55	118.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2759	U	C5-C6-N1	-9.72	117.84	122.70
80	6	921	U	C5-C6-N1	-9.72	117.84	122.70
85	5	2804	A	N1-C2-N3	9.72	134.16	129.30
85	5	2951	G	N7-C8-N9	9.72	117.96	113.10
36	1	1406	A	C2-N3-C4	9.72	115.46	110.60
80	6	347	G	C6-C5-N7	-9.72	124.57	130.40
85	5	1519	G	C6-C5-N7	-9.72	124.57	130.40
36	1	214	G	C2-N3-C4	-9.72	107.04	111.90
85	5	127	G	N3-C2-N2	-9.72	113.10	119.90
1	2	999	C	N3-C4-C5	-9.72	118.01	121.90
85	5	1356	U	C6-N1-C2	9.72	126.83	121.00
85	5	2167	A	N9-C4-C5	9.72	109.69	105.80
36	1	704	U	N3-C4-C5	-9.71	108.77	114.60
36	1	709	A	C8-N9-C4	9.71	109.69	105.80
36	1	2385	G	C5-N7-C8	9.71	109.16	104.30
85	5	2750	U	O4'-C1'-N1	9.71	115.97	108.20
1	2	722	G	C8-N9-C4	9.71	110.28	106.40
1	2	126	A	N1-C6-N6	-9.71	112.77	118.60
36	1	3	U	O5'-P-OP2	-9.71	96.96	105.70
80	6	45	U	N1-C2-N3	9.71	120.73	114.90
85	5	1934	G	O5'-P-OP2	-9.71	96.96	105.70
1	2	1343	A	C5-C6-N1	-9.71	112.85	117.70
36	1	951	A	C2-N3-C4	-9.71	105.75	110.60
36	1	954	U	C4-C5-C6	9.71	125.53	119.70
36	1	2799	A	O5'-P-OP2	-9.71	96.96	105.70
36	1	3209	A	C5-N7-C8	-9.71	99.05	103.90
85	5	1819	U	N3-C4-O4	-9.71	112.60	119.40
80	6	541	A	C8-N9-C4	-9.71	101.92	105.80
85	5	1428	A	C5-C6-N1	9.71	122.55	117.70
85	5	1931	U	C5-C6-N1	-9.71	117.85	122.70
85	5	43	A	C8-N9-C4	9.71	109.68	105.80
36	1	1193	A	C6-N1-C2	9.70	124.42	118.60
36	1	1448	U	N3-C4-C5	-9.70	108.78	114.60
36	1	2193	U	N3-C4-C5	-9.70	108.78	114.60
80	6	1659	A	C4-C5-C6	9.70	121.85	117.00
80	6	1775	U	N1-C2-O2	-9.70	116.01	122.80
85	5	189	G	N9-C4-C5	9.71	109.28	105.40
85	5	2938	G	C8-N9-C4	-9.71	102.52	106.40
1	2	1652	U	N3-C2-O2	9.70	128.99	122.20
36	1	786	A	N1-C6-N6	-9.70	112.78	118.60
36	1	1087	G	N1-C6-O6	9.70	125.72	119.90
80	6	595	G	O5'-P-OP1	-9.70	96.97	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	941	A	N3-C4-C5	-9.70	120.01	126.80
85	5	88	A	C6-N1-C2	9.70	124.42	118.60
85	5	2349	U	OP1-P-O3'	9.70	126.54	105.20
85	5	2678	A	C5-C6-N6	9.70	131.46	123.70
36	1	259	C	C6-N1-C2	9.70	124.18	120.30
85	5	1839	A	N1-C6-N6	-9.70	112.78	118.60
85	5	3098	G	C4-C5-N7	9.70	114.68	110.80
36	1	368	G	N1-C2-N2	-9.70	107.47	116.20
36	1	528	U	C5-C6-N1	9.70	127.55	122.70
36	1	2301	U	C6-N1-C2	-9.70	115.18	121.00
36	1	222	A	C8-N9-C4	-9.70	101.92	105.80
36	1	1549	U	O5'-P-OP2	-9.70	96.97	105.70
85	5	1881	A	C6-N1-C2	-9.70	112.78	118.60
85	5	2849	C	OP1-P-OP2	-9.70	105.06	119.60
37	3	92	A	C2-N3-C4	-9.69	105.75	110.60
80	6	1651	A	N7-C8-N9	9.69	118.65	113.80
85	5	1761	C	C6-N1-C2	9.69	124.18	120.30
85	5	2985	C	N3-C2-O2	-9.69	115.11	121.90
85	5	3079	U	O5'-P-OP1	-9.69	96.97	105.70
36	1	910	G	N7-C8-N9	9.69	117.95	113.10
36	1	1907	C	C6-N1-C2	-9.69	116.42	120.30
37	3	97	A	N1-C2-N3	9.69	134.15	129.30
38	4	16	G	C5-C6-N1	9.69	116.35	111.50
37	7	103	A	C5-C6-N6	-9.69	115.95	123.70
38	4	54	A	N1-C2-N3	9.69	134.15	129.30
85	5	2363	A	N1-C6-N6	9.69	124.42	118.60
36	1	2520	A	C8-N9-C4	9.69	109.68	105.80
36	1	2917	G	C5-C6-N1	9.69	116.34	111.50
85	5	54	C	C2-N3-C4	-9.69	115.06	119.90
85	5	1246	G	N7-C8-N9	9.69	117.94	113.10
36	1	436	A	C5-N7-C8	-9.69	99.06	103.90
36	1	542	G	C5-C6-N1	-9.69	106.66	111.50
36	1	2605	G	N3-C2-N2	-9.69	113.12	119.90
85	5	2838	A	N7-C8-N9	-9.69	108.96	113.80
85	5	3231	U	N3-C4-C5	-9.69	108.79	114.60
1	2	561	G	N3-C2-N2	-9.69	113.12	119.90
36	1	870	G	C4-C5-N7	9.69	114.67	110.80
36	1	1066	G	C8-N9-C4	-9.69	102.53	106.40
36	1	1523	U	C5-C6-N1	9.69	127.54	122.70
38	4	115	C	C6-N1-C2	9.69	124.17	120.30
85	5	815	G	N7-C8-N9	-9.69	108.26	113.10
80	6	413	U	N1-C2-N3	9.69	120.71	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	569	C	C5-C6-N1	-9.69	116.16	121.00
80	6	1348	A	C8-N9-C4	9.69	109.67	105.80
85	5	1273	A	C2-N3-C4	-9.69	105.76	110.60
85	5	3014	U	N3-C2-O2	-9.69	115.42	122.20
80	6	776	G	C8-N9-C4	9.69	110.27	106.40
80	6	1017	U	N1-C2-N3	9.69	120.71	114.90
85	5	141	C	N3-C4-N4	9.69	124.78	118.00
85	5	2334	U	N3-C2-O2	-9.69	115.42	122.20
37	7	103	A	N1-C2-N3	-9.69	124.46	129.30
36	1	412	G	C6-C5-N7	9.68	136.21	130.40
36	1	49	A	C5-C6-N1	-9.68	112.86	117.70
36	1	608	A	N7-C8-N9	9.68	118.64	113.80
36	1	714	G	C5-C6-N1	9.68	116.34	111.50
36	1	1587	A	N1-C6-N6	-9.68	112.79	118.60
85	5	400	G	N7-C8-N9	9.68	117.94	113.10
85	5	201	A	C5-C6-N6	-9.68	115.95	123.70
85	5	332	C	C4-C5-C6	9.68	122.24	117.40
85	5	382	U	N3-C4-O4	9.68	126.18	119.40
85	5	1928	G	C5-N7-C8	-9.68	99.46	104.30
85	5	2602	G	C5-C6-N1	-9.68	106.66	111.50
36	1	2691	A	N7-C8-N9	-9.68	108.96	113.80
80	6	1171	A	N7-C8-N9	9.68	118.64	113.80
85	5	2868	U	N3-C2-O2	-9.68	115.42	122.20
36	1	564	G	C5-N7-C8	9.68	109.14	104.30
36	1	897	U	O5'-P-OP1	-9.68	96.99	105.70
36	1	1191	U	N1-C2-O2	-9.68	116.02	122.80
85	5	93	C	N3-C4-C5	-9.68	118.03	121.90
85	5	386	A	C4-C5-N7	-9.68	105.86	110.70
85	5	862	U	N3-C2-O2	9.68	128.98	122.20
38	8	1	A	C6-N1-C2	-9.68	112.79	118.60
85	5	702	C	C6-N1-C2	-9.68	116.43	120.30
85	5	2231	C	N1-C2-N3	9.68	125.97	119.20
85	5	2750	U	C6-N1-C2	-9.68	115.19	121.00
85	5	2958	A	C5-C6-N1	9.68	122.54	117.70
36	1	307	A	C2-N3-C4	9.68	115.44	110.60
85	5	404	G	C5-C6-O6	-9.68	122.79	128.60
85	5	2981	U	C4-C5-C6	9.68	125.51	119.70
80	6	459	G	C6-C5-N7	-9.68	124.59	130.40
85	5	798	G	N3-C2-N2	-9.68	113.13	119.90
85	5	1902	G	N1-C6-O6	-9.68	114.09	119.90
85	5	2662	G	O5'-P-OP1	-9.68	96.99	105.70
85	5	3101	G	C5-C6-N1	9.68	116.34	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	627	C	C4-C5-C6	9.67	122.24	117.40
1	2	1382	C	C5-C6-N1	9.67	125.84	121.00
36	1	1369	A	C8-N9-C4	9.67	109.67	105.80
36	1	1381	A	C8-N9-C4	9.67	109.67	105.80
36	1	1799	A	N1-C2-N3	9.67	134.14	129.30
85	5	2213	A	C5-C6-N6	9.67	131.44	123.70
36	1	2835	U	C5-C6-N1	-9.67	117.86	122.70
36	1	2866	U	O5'-P-OP1	9.67	122.31	110.70
80	6	278	U	N1-C2-O2	9.67	129.57	122.80
80	6	1772	C	C4-C5-C6	9.67	122.24	117.40
85	5	1536	G	N3-C2-N2	-9.67	113.13	119.90
85	5	2619	G	N7-C8-N9	-9.67	108.26	113.10
1	2	530	C	C5-C6-N1	-9.67	116.17	121.00
1	2	1445	G	C8-N9-C4	9.67	110.27	106.40
36	1	2273	G	C8-N9-C4	9.67	110.27	106.40
85	5	1063	G	N7-C8-N9	9.67	117.94	113.10
36	1	1893	A	N7-C8-N9	9.67	118.63	113.80
36	1	2121	G	C6-C5-N7	9.67	136.20	130.40
85	5	2430	A	OP1-P-OP2	-9.67	105.09	119.60
85	5	1888	U	OP2-P-O3'	9.67	126.47	105.20
37	7	87	G	N3-C2-N2	-9.67	113.13	119.90
36	1	1291	A	C8-N9-C4	-9.67	101.93	105.80
85	5	1188	U	C5-C6-N1	-9.67	117.87	122.70
85	5	1320	C	N3-C4-N4	-9.67	111.23	118.00
85	5	2604	U	OP1-P-OP2	-9.67	105.10	119.60
85	5	3048	A	N1-C2-N3	9.67	134.13	129.30
85	5	3050	U	C5-C4-O4	9.67	131.70	125.90
38	8	39	G	C5-C6-O6	9.67	134.40	128.60
1	2	413	U	N1-C2-N3	9.66	120.70	114.90
1	2	459	G	N1-C6-O6	9.66	125.70	119.90
1	2	517	U	C5-C6-N1	9.66	127.53	122.70
36	1	2806	U	N1-C2-N3	9.66	120.70	114.90
85	5	1723	A	N1-C6-N6	-9.66	112.80	118.60
85	5	2988	C	N1-C2-O2	-9.66	113.10	118.90
85	5	3251	U	N3-C2-O2	-9.66	115.43	122.20
85	5	3010	U	C5-C6-N1	-9.66	117.87	122.70
85	5	3143	C	C6-N1-C2	-9.66	116.44	120.30
38	8	17	A	C2-N3-C4	-9.66	105.77	110.60
36	1	4	U	N1-C2-N3	-9.66	109.10	114.90
36	1	3300	U	C4-C5-C6	9.66	125.50	119.70
38	8	134	G	N9-C4-C5	-9.66	101.53	105.40
38	4	2	A	C5-C6-N1	-9.66	112.87	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2359	C	N3-C4-N4	9.66	124.76	118.00
85	5	2388	U	N3-C4-O4	9.66	126.16	119.40
36	1	160	G	C8-N9-C4	9.66	110.26	106.40
38	4	31	G	N3-C4-C5	9.66	133.43	128.60
85	5	1679	A	O5'-P-OP1	-9.66	97.01	105.70
37	7	29	C	OP1-P-OP2	-9.66	105.11	119.60
1	2	531	C	C6-N1-C2	9.65	124.16	120.30
1	2	964	U	N1-C2-O2	-9.65	116.04	122.80
36	1	38	U	N3-C2-O2	9.65	128.96	122.20
36	1	591	G	N3-C2-N2	-9.65	113.14	119.90
36	1	1045	C	C2-N3-C4	9.65	124.73	119.90
85	5	1307	G	P-O3'-C3'	9.65	131.29	119.70
85	5	3325	G	C8-N9-C4	9.65	110.26	106.40
36	1	329	U	C6-N1-C2	-9.65	115.21	121.00
36	1	1357	G	C5-C6-N1	-9.65	106.67	111.50
36	1	1817	G	N1-C6-O6	9.65	125.69	119.90
36	1	1362	G	C5-C6-N1	9.65	116.33	111.50
36	1	2967	A	O5'-P-OP2	-9.65	97.01	105.70
85	5	367	A	C6-N1-C2	-9.65	112.81	118.60
85	5	1121	U	C5-C6-N1	-9.65	117.87	122.70
85	5	1476	G	N7-C8-N9	-9.65	108.27	113.10
85	5	2418	G	C8-N9-C4	-9.65	102.54	106.40
38	8	54	A	N7-C8-N9	9.65	118.63	113.80
38	8	63	G	C5-C6-N1	-9.65	106.67	111.50
36	1	927	C	O5'-P-OP1	-9.65	97.01	105.70
36	1	1391	C	C2-N3-C4	-9.65	115.07	119.90
36	1	1808	G	C5-C6-O6	9.65	134.39	128.60
85	5	1197	A	C4-C5-C6	9.65	121.83	117.00
36	1	850	U	N3-C2-O2	-9.65	115.45	122.20
36	1	1833	G	O5'-P-OP2	-9.65	97.02	105.70
80	6	1156	C	N3-C4-C5	-9.65	118.04	121.90
85	5	1497	C	N1-C2-O2	-9.65	113.11	118.90
85	5	1900	A	N1-C2-N3	-9.65	124.48	129.30
1	2	51	A	C8-N9-C4	9.65	109.66	105.80
36	1	620	U	N3-C4-O4	-9.65	112.65	119.40
37	3	25	G	O5'-P-OP2	-9.65	97.02	105.70
37	7	60	G	N3-C4-C5	-9.65	123.78	128.60
1	2	809	U	C4-C5-C6	9.64	125.49	119.70
1	2	1257	C	N3-C2-O2	-9.64	115.15	121.90
36	1	512	U	C5-C4-O4	9.64	131.69	125.90
36	1	237	G	C8-N9-C4	9.64	110.26	106.40
85	5	104	G	C4-C5-N7	9.64	114.66	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	313	A	N1-C6-N6	9.64	124.39	118.60
36	1	285	A	C5-C6-N1	9.64	122.52	117.70
85	5	629	U	N1-C2-O2	-9.64	116.05	122.80
36	1	835	G	C8-N9-C4	-9.64	102.54	106.40
36	1	876	A	C2-N3-C4	-9.64	105.78	110.60
36	1	1439	U	C5-C6-N1	9.64	127.52	122.70
36	1	3129	A	N1-C6-N6	9.64	124.38	118.60
38	4	49	G	N7-C8-N9	-9.64	108.28	113.10
80	6	129	U	N1-C2-O2	9.64	129.55	122.80
80	6	141	U	O5'-P-OP1	-9.64	97.02	105.70
85	5	812	G	C4-C5-C6	9.64	124.58	118.80
85	5	961	C	N1-C2-O2	9.64	124.69	118.90
85	5	707	U	C4-C5-C6	9.64	125.48	119.70
85	5	2659	G	C8-N9-C4	9.64	110.25	106.40
37	7	101	G	O5'-P-OP1	9.64	122.27	110.70
36	1	798	G	N1-C2-N3	9.64	129.68	123.90
36	1	2236	G	C5-C6-N1	-9.64	106.68	111.50
85	5	386	A	C8-N9-C4	9.64	109.66	105.80
85	5	2370	G	N1-C6-O6	-9.64	114.12	119.90
1	2	1097	G	C4-C5-N7	9.64	114.65	110.80
36	1	787	G	O5'-P-OP1	9.64	122.26	110.70
36	1	1473	G	C4-C5-N7	9.64	114.65	110.80
1	2	1587	U	N3-C2-O2	9.63	128.94	122.20
36	1	2733	A	C4-C5-N7	-9.63	105.88	110.70
36	1	3208	G	C5-C6-O6	9.63	134.38	128.60
80	6	1678	A	N1-C6-N6	9.63	124.38	118.60
85	5	224	C	N3-C2-O2	-9.63	115.16	121.90
85	5	432	G	N1-C2-N3	9.63	129.68	123.90
85	5	2855	U	N1-C2-O2	-9.63	116.06	122.80
36	1	1898	G	C6-N1-C2	-9.63	119.32	125.10
85	5	3149	G	O5'-P-OP2	-9.63	97.03	105.70
36	1	804	C	O5'-P-OP1	-9.63	97.03	105.70
85	5	2886	U	O5'-P-OP1	9.63	122.26	110.70
36	1	1389	G	N3-C2-N2	9.63	126.64	119.90
36	1	1470	U	N1-C2-N3	9.63	120.68	114.90
36	1	1587	A	C5-C6-N6	9.63	131.41	123.70
36	1	2744	U	N3-C4-O4	9.63	126.14	119.40
85	5	933	A	N1-C6-N6	-9.63	112.82	118.60
85	5	1882	G	C5-N7-C8	-9.63	99.48	104.30
85	5	2116	G	OP1-P-OP2	9.63	134.04	119.60
85	5	2956	A	C3'-C2'-C1'	-9.63	93.80	101.50
1	2	1589	C	O5'-P-OP2	-9.63	97.04	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	570	A	C5-C6-N6	-9.63	116.00	123.70
36	1	1298	C	C2-N3-C4	-9.63	115.09	119.90
85	5	404	G	N1-C2-N2	9.63	124.87	116.20
85	5	2293	C	N1-C2-O2	9.63	124.68	118.90
36	1	2376	G	N7-C8-N9	9.63	117.91	113.10
36	1	2874	G	C6-N1-C2	9.63	130.88	125.10
36	1	3201	C	N1-C2-O2	-9.63	113.12	118.90
36	1	3311	C	N1-C2-N3	-9.63	112.46	119.20
80	6	1781	A	C4-C5-C6	9.63	121.81	117.00
85	5	2201	G	N7-C8-N9	-9.63	108.29	113.10
85	5	2215	A	N1-C6-N6	9.63	124.38	118.60
85	5	2824	G	N1-C2-N3	9.63	129.68	123.90
1	2	157	A	C2-N3-C4	-9.63	105.79	110.60
36	1	936	A	O5'-P-OP1	9.63	122.25	110.70
36	1	2828	G	N1-C2-N2	-9.63	107.54	116.20
36	1	2979	U	N1-C2-N3	9.63	120.67	114.90
85	5	1047	A	C5-C6-N6	-9.63	116.00	123.70
85	5	1120	A	C6-N1-C2	-9.63	112.83	118.60
85	5	1403	C	OP1-P-OP2	-9.63	105.16	119.60
85	5	1441	G	OP1-P-OP2	9.63	134.04	119.60
36	1	2170	U	N1-C2-N3	9.62	120.67	114.90
36	1	2419	A	OP1-P-OP2	9.62	134.04	119.60
85	5	665	A	C8-N9-C4	-9.62	101.95	105.80
1	2	233	C	N3-C2-O2	9.62	128.64	121.90
85	5	3377	G	C4-C5-N7	9.62	114.65	110.80
36	1	344	A	N1-C2-N3	-9.62	124.49	129.30
36	1	2753	G	N1-C6-O6	-9.62	114.13	119.90
36	1	2920	U	C5-C4-O4	-9.62	120.13	125.90
80	6	95	G	C6-C5-N7	9.62	136.17	130.40
80	6	1150	G	C8-N9-C4	9.62	110.25	106.40
85	5	635	G	C4-C5-N7	9.62	114.65	110.80
85	5	1744	G	N1-C6-O6	9.62	125.67	119.90
85	5	2291	A	C6-N1-C2	-9.62	112.83	118.60
85	5	2325	G	N1-C2-N3	9.62	129.67	123.90
85	5	2695	A	C5-C6-N1	9.62	122.51	117.70
85	5	3305	A	O5'-P-OP1	-9.62	97.04	105.70
36	1	644	G	C8-N9-C4	-9.62	102.55	106.40
80	6	58	U	N1-C2-O2	-9.62	116.07	122.80
80	6	911	U	C6-N1-C2	-9.62	115.23	121.00
85	5	1254	C	OP2-P-O3'	9.62	126.36	105.20
85	5	2808	A	N1-C6-N6	-9.62	112.83	118.60
36	1	360	G	N3-C2-N2	9.62	126.63	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	M5	98	LEU	CB-CG-CD2	-9.62	94.65	111.00
80	6	557	G	C5-C6-O6	9.62	134.37	128.60
80	6	864	U	N3-C2-O2	-9.62	115.47	122.20
80	6	937	C	N3-C2-O2	-9.62	115.17	121.90
85	5	1871	U	C2-N3-C4	-9.62	121.23	127.00
1	2	1650	A	C2-N3-C4	-9.62	105.79	110.60
36	1	688	G	N1-C2-N3	9.62	129.67	123.90
36	1	1323	G	N1-C2-N3	9.61	129.67	123.90
36	1	1552	G	C8-N9-C4	-9.61	102.55	106.40
36	1	2373	A	N1-C2-N3	9.61	134.11	129.30
80	6	613	G	C2-N3-C4	9.61	116.71	111.90
80	6	919	A	C4-C5-C6	9.62	121.81	117.00
85	5	2147	A	C6-N1-C2	-9.61	112.83	118.60
85	5	3171	U	C6-N1-C2	9.61	126.77	121.00
36	1	1905	G	OP2-P-O3'	9.61	126.35	105.20
36	1	2781	U	N3-C2-O2	9.61	128.93	122.20
85	5	1106	G	C4-C5-N7	9.61	114.64	110.80
85	5	1438	U	N3-C4-O4	9.61	126.13	119.40
85	5	1696	A	OP1-P-OP2	9.61	134.02	119.60
85	5	3041	U	C4-C5-C6	-9.61	113.93	119.70
85	5	196	G	OP1-P-OP2	-9.61	105.19	119.60
36	1	2179	C	N3-C4-C5	-9.61	118.06	121.90
36	1	2626	A	C2-N3-C4	-9.61	105.80	110.60
36	1	3394	U	N3-C4-O4	-9.61	112.67	119.40
85	5	2302	G	O5'-P-OP1	9.61	122.23	110.70
85	5	564	G	C5-C6-N1	9.61	116.30	111.50
85	5	1889	G	C5-C6-N1	9.61	116.30	111.50
85	5	2108	C	N3-C4-C5	-9.61	118.06	121.90
85	5	2952	G	C6-C5-N7	-9.61	124.64	130.40
85	5	2967	A	C6-N1-C2	-9.61	112.83	118.60
85	5	3330	A	C2-N3-C4	9.61	115.41	110.60
85	5	1045	C	OP2-P-O3'	9.61	126.34	105.20
36	1	1117	G	C5-C6-N1	9.61	116.30	111.50
37	3	68	C	O5'-P-OP1	9.61	122.23	110.70
80	6	418	G	C4-C5-N7	9.61	114.64	110.80
85	5	2304	C	C6-N1-C2	-9.61	116.46	120.30
85	5	2844	C	C2-N3-C4	9.61	124.70	119.90
85	5	195	U	N1-C2-N3	9.61	120.66	114.90
85	5	1559	A	N1-C6-N6	9.61	124.36	118.60
37	7	48	U	C6-N1-C2	-9.61	115.24	121.00
1	2	223	U	C5-C6-N1	9.60	127.50	122.70
36	1	612	U	O5'-P-OP2	-9.60	97.06	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	791	A	N1-C6-N6	-9.60	112.84	118.60
36	1	2132	C	O5'-P-OP1	9.60	122.22	110.70
36	1	2276	G	N1-C6-O6	-9.60	114.14	119.90
36	1	3102	G	C8-N9-C4	-9.60	102.56	106.40
85	5	1202	A	C2-N3-C4	-9.60	105.80	110.60
85	5	2869	U	C5-C4-O4	9.60	131.66	125.90
85	5	3040	A	N1-C2-N3	9.60	134.10	129.30
36	1	937	G	N1-C6-O6	-9.60	114.14	119.90
36	1	2586	G	C2-N3-C4	9.60	116.70	111.90
36	1	2924	U	C6-N1-C2	9.60	126.76	121.00
36	1	3274	A	N9-C4-C5	9.60	109.64	105.80
38	4	83	C	N3-C4-C5	-9.60	118.06	121.90
80	6	1214	U	C4-C5-C6	9.60	125.46	119.70
85	5	1914	G	N1-C2-N3	9.60	129.66	123.90
80	6	587	C	N3-C4-C5	9.60	125.74	121.90
85	5	1824	U	C5-C4-O4	9.60	131.66	125.90
85	5	2132	C	O5'-P-OP2	-9.60	97.06	105.70
1	2	1227	A	C8-N9-C4	-9.60	101.96	105.80
36	1	283	G	C2-N3-C4	-9.60	107.10	111.90
36	1	591	G	N9-C4-C5	9.60	109.24	105.40
36	1	1413	G	C8-N9-C4	-9.60	102.56	106.40
80	6	1071	U	N3-C2-O2	9.60	128.92	122.20
85	5	410	U	C5-C4-O4	9.60	131.66	125.90
85	5	1619	A	N1-C2-N3	9.60	134.10	129.30
85	5	3295	A	C8-N9-C4	9.60	109.64	105.80
37	7	31	U	N1-C2-O2	9.60	129.52	122.80
1	2	47	A	N7-C8-N9	9.60	118.60	113.80
1	2	370	A	C5-C6-N1	9.60	122.50	117.70
36	1	339	C	C5-C4-N4	9.60	126.92	120.20
36	1	654	C	N1-C2-O2	-9.60	113.14	118.90
36	1	1452	A	N9-C4-C5	-9.60	101.96	105.80
36	1	1666	G	N7-C8-N9	9.60	117.90	113.10
36	1	2726	C	C5-C4-N4	9.60	126.92	120.20
85	5	2296	A	C4-C5-C6	-9.60	112.20	117.00
85	5	2967	A	C5-C6-N1	9.60	122.50	117.70
36	1	1890	U	N3-C2-O2	9.60	128.92	122.20
85	5	409	A	N1-C2-N3	-9.60	124.50	129.30
85	5	963	G	OP1-P-O3'	9.60	126.31	105.20
85	5	2845	A	OP1-P-OP2	9.60	133.99	119.60
85	5	3018	C	O5'-P-OP1	9.60	122.21	110.70
36	1	49	A	C4-C5-N7	-9.59	105.90	110.70
36	1	778	U	O5'-P-OP1	-9.59	97.06	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	857	G	C5-N7-C8	-9.59	99.50	104.30
36	1	2186	U	N3-C4-O4	-9.59	112.68	119.40
36	1	142	C	N3-C2-O2	-9.59	115.19	121.90
36	1	1114	U	O5'-P-OP2	-9.59	97.07	105.70
36	1	1676	A	O5'-P-OP2	-9.59	97.07	105.70
36	1	1928	G	C5-C6-N1	9.59	116.30	111.50
36	1	3029	A	OP1-P-OP2	-9.59	105.21	119.60
38	4	111	A	C8-N9-C4	-9.59	101.96	105.80
80	6	1468	U	N3-C2-O2	9.59	128.91	122.20
85	5	645	A	C8-N9-C4	-9.59	101.96	105.80
85	5	2700	G	C4-C5-N7	9.59	114.64	110.80
85	5	3054	U	N1-C2-N3	9.59	120.66	114.90
85	5	3300	U	C5-C6-N1	-9.59	117.90	122.70
36	1	2943	G	N7-C8-N9	9.59	117.89	113.10
36	1	2944	U	C5-C6-N1	9.59	127.50	122.70
85	5	639	G	N1-C6-O6	9.59	125.65	119.90
85	5	1318	A	N1-C2-N3	9.59	134.09	129.30
85	5	1506	A	C4-C5-N7	9.59	115.50	110.70
1	2	220	A	N1-C6-N6	9.59	124.35	118.60
36	1	1603	A	N3-C4-C5	-9.59	120.09	126.80
36	1	1846	C	N1-C2-O2	-9.59	113.15	118.90
80	6	58	U	C5-C4-O4	9.59	131.65	125.90
85	5	805	G	C4-C5-N7	-9.59	106.97	110.80
36	1	266	A	C6-N1-C2	-9.59	112.85	118.60
36	1	2412	G	O5'-P-OP1	9.59	122.20	110.70
36	1	3230	G	C5-C6-O6	-9.59	122.85	128.60
38	4	152	G	O5'-P-OP2	-9.59	97.07	105.70
85	5	1435	A	OP1-P-OP2	-9.59	105.22	119.60
85	5	341	G	C5-C6-O6	9.58	134.35	128.60
85	5	341	G	C6-N1-C2	9.58	130.85	125.10
85	5	2167	A	N3-C4-C5	-9.58	120.09	126.80
85	5	598	A	C5-C6-N1	9.58	122.49	117.70
85	5	1521	G	O5'-P-OP1	-9.58	97.08	105.70
85	5	2200	U	N3-C4-O4	-9.58	112.69	119.40
38	8	11	C	C6-N1-C2	-9.58	116.47	120.30
1	2	377	G	C4-C5-N7	-9.58	106.97	110.80
36	1	2555	G	C5-C6-N1	-9.58	106.71	111.50
85	5	614	C	N3-C4-C5	9.58	125.73	121.90
85	5	1291	A	N9-C4-C5	-9.58	101.97	105.80
85	5	2192	C	O5'-P-OP2	-9.58	97.08	105.70
1	2	936	G	C2-N3-C4	-9.58	107.11	111.90
36	1	241	G	C8-N9-C4	9.58	110.23	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1900	A	C6-N1-C2	-9.58	112.85	118.60
36	1	1949	G	C5-C6-N1	9.58	116.29	111.50
85	5	1081	U	N3-C4-C5	-9.58	108.85	114.60
85	5	1458	U	N3-C4-C5	-9.58	108.85	114.60
85	5	2718	U	C4-C5-C6	9.58	125.45	119.70
85	5	2850	G	N3-C2-N2	-9.58	113.19	119.90
85	5	2884	C	N3-C4-N4	9.58	124.71	118.00
38	8	27	U	C5-C6-N1	9.58	127.49	122.70
36	1	260	C	N1-C2-N3	-9.58	112.50	119.20
37	3	74	C	N1-C2-N3	-9.58	112.50	119.20
80	6	1284	C	C2-N3-C4	-9.58	115.11	119.90
36	1	1521	G	N7-C8-N9	9.58	117.89	113.10
36	1	1703	U	N3-C4-C5	-9.58	108.86	114.60
36	1	2729	U	C6-N1-C2	9.58	126.75	121.00
37	3	86	U	C4-C5-C6	-9.58	113.95	119.70
38	4	31	G	N9-C4-C5	-9.58	101.57	105.40
85	5	2246	G	C5-C6-O6	9.58	134.35	128.60
85	5	3179	U	N3-C2-O2	-9.58	115.50	122.20
36	1	1406	A	C5-C6-N6	-9.57	116.04	123.70
85	5	1526	U	N3-C2-O2	-9.57	115.50	122.20
1	2	419	G	N3-C2-N2	9.57	126.60	119.90
1	2	549	G	O5'-P-OP1	-9.57	97.08	105.70
85	5	3376	A	C5-C6-N6	9.57	131.36	123.70
36	1	1377	G	C8-N9-C4	-9.57	102.57	106.40
36	1	2283	G	N7-C8-N9	9.57	117.89	113.10
36	1	2798	C	C5-C6-N1	9.57	125.79	121.00
85	5	2275	A	C5-N7-C8	-9.57	99.11	103.90
85	5	2904	U	O5'-P-OP1	9.57	122.19	110.70
85	5	1179	A	OP1-P-OP2	-9.57	105.24	119.60
85	5	2793	G	C2-N3-C4	-9.57	107.11	111.90
1	2	408	C	O5'-P-OP2	-9.57	97.09	105.70
36	1	595	G	N1-C2-N2	9.57	124.81	116.20
36	1	1858	A	C4-C5-C6	9.57	121.78	117.00
85	5	1891	A	N1-C2-N3	9.57	134.09	129.30
85	5	2163	C	N1-C2-N3	9.57	125.90	119.20
85	5	2196	C	C6-N1-C2	-9.57	116.47	120.30
85	5	2615	G	N3-C2-N2	-9.57	113.20	119.90
85	5	3136	G	C2-N3-C4	-9.57	107.11	111.90
37	7	102	A	N1-C6-N6	9.57	124.34	118.60
1	2	1416	G	O5'-P-OP1	-9.57	97.09	105.70
36	1	2651	G	OP1-P-OP2	9.57	133.95	119.60
36	1	346	C	N1-C2-N3	9.57	125.90	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	336	G	OP1-P-OP2	-9.57	105.25	119.60
85	5	1494	U	C4-C5-C6	9.57	125.44	119.70
85	5	2624	G	N1-C6-O6	9.57	125.64	119.90
36	1	547	G	N1-C2-N2	9.56	124.81	116.20
85	5	1923	C	C2-N3-C4	9.56	124.68	119.90
36	1	635	G	C5-C6-N1	9.56	116.28	111.50
85	5	2864	A	C5-C6-N6	-9.56	116.05	123.70
85	5	2877	G	N3-C2-N2	-9.56	113.20	119.90
85	5	3377	G	C5-C6-N1	9.56	116.28	111.50
73	o7	65	ARG	NE-CZ-NH1	9.56	125.08	120.30
36	1	741	U	N1-C2-N3	9.56	120.64	114.90
38	4	68	G	N1-C2-N3	9.56	129.64	123.90
36	1	336	A	C2-N3-C4	9.56	115.38	110.60
36	1	961	C	C4-C5-C6	9.56	122.18	117.40
36	1	1146	C	C4-C5-C6	-9.56	112.62	117.40
36	1	1945	A	C8-N9-C4	-9.56	101.98	105.80
37	3	31	U	C5-C6-N1	9.56	127.48	122.70
85	5	1283	C	C6-N1-C2	-9.56	116.47	120.30
36	1	2409	G	O5'-P-OP1	-9.56	97.10	105.70
36	1	2972	G	N7-C8-N9	9.56	117.88	113.10
85	5	830	A	C2-N3-C4	-9.56	105.82	110.60
85	5	1919	G	C4-C5-C6	9.56	124.54	118.80
85	5	2117	A	N9-C4-C5	9.56	109.62	105.80
85	5	2292	U	N3-C4-O4	9.56	126.09	119.40
85	5	2363	A	C4-C5-N7	9.56	115.48	110.70
85	5	3143	C	N3-C4-N4	9.56	124.69	118.00
85	5	3173	G	C6-N1-C2	-9.56	119.36	125.10
85	5	2177	G	N1-C2-N3	9.56	129.63	123.90
36	1	324	A	C2-N3-C4	-9.56	105.82	110.60
36	1	693	A	C5-C6-N1	-9.56	112.92	117.70
36	1	2218	G	OP1-P-OP2	-9.56	105.26	119.60
36	1	2793	G	N3-C2-N2	-9.56	113.21	119.90
36	1	2842	U	N3-C2-O2	-9.56	115.51	122.20
85	5	1692	U	C5-C6-N1	9.56	127.48	122.70
85	5	788	C	C6-N1-C2	-9.56	116.48	120.30
85	5	1914	G	C6-N1-C2	-9.56	119.37	125.10
1	2	186	C	N1-C2-O2	9.55	124.63	118.90
80	6	1110	G	OP2-P-O3'	9.56	126.22	105.20
85	5	893	C	N1-C2-O2	-9.56	113.17	118.90
85	5	909	G	N1-C2-N3	9.56	129.63	123.90
36	1	52	A	C2-N3-C4	9.55	115.38	110.60
36	1	378	A	N7-C8-N9	-9.55	109.02	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	403	C	N1-C2-O2	-9.55	113.17	118.90
36	1	427	C	C4-C5-C6	9.55	122.18	117.40
36	1	1727	G	C4-C5-N7	9.55	114.62	110.80
36	1	1886	A	N1-C2-N3	9.55	134.08	129.30
38	8	30	C	OP1-P-OP2	-9.55	105.27	119.60
85	5	672	A	C5-N7-C8	-9.55	99.12	103.90
85	5	3304	U	N1-C2-O2	9.55	129.49	122.80
36	1	41	G	C6-C5-N7	-9.55	124.67	130.40
36	1	815	G	C8-N9-C4	-9.55	102.58	106.40
36	1	1529	A	N7-C8-N9	9.55	118.58	113.80
36	1	2549	G	C4-C5-N7	-9.55	106.98	110.80
36	1	3057	U	N1-C2-N3	9.55	120.63	114.90
80	6	206	A	N9-C4-C5	9.55	109.62	105.80
80	6	1752	U	N3-C4-C5	-9.55	108.87	114.60
85	5	1206	G	O5'-P-OP1	9.55	122.16	110.70
85	5	2769	A	N1-C2-N3	9.55	134.08	129.30
80	6	989	U	N3-C4-C5	-9.55	108.87	114.60
80	6	1116	A	C5-C6-N6	-9.55	116.06	123.70
85	5	1314	C	C2-N3-C4	-9.55	115.12	119.90
85	5	1377	G	C4-C5-N7	9.55	114.62	110.80
85	5	2828	G	C5-N7-C8	-9.55	99.53	104.30
85	5	2958	A	C5-C6-N6	-9.55	116.06	123.70
1	2	1294	U	N3-C2-O2	-9.55	115.52	122.20
1	2	1640	U	C6-N1-C2	9.55	126.73	121.00
85	5	2626	A	C6-N1-C2	-9.55	112.87	118.60
36	1	1437	C	N3-C4-C5	-9.55	118.08	121.90
36	1	3212	C	N3-C4-C5	9.55	125.72	121.90
85	5	2744	U	C5-C4-O4	-9.55	120.17	125.90
38	8	20	U	N1-C2-N3	9.55	120.63	114.90
1	2	402	C	N3-C4-C5	-9.55	118.08	121.90
36	1	1157	G	C6-N1-C2	-9.55	119.37	125.10
36	1	363	G	N3-C2-N2	9.54	126.58	119.90
36	1	1403	C	N3-C4-C5	9.54	125.72	121.90
36	1	2324	A	N7-C8-N9	9.54	118.57	113.80
36	1	2797	C	C4-C5-C6	9.54	122.17	117.40
36	1	2827	U	O5'-P-OP2	-9.54	97.11	105.70
36	1	2971	A	N7-C8-N9	9.55	118.57	113.80
85	5	91	G	C6-N1-C2	-9.55	119.37	125.10
85	5	1753	G	C6-C5-N7	-9.54	124.67	130.40
85	5	2875	U	N1-C2-O2	-9.54	116.12	122.80
1	2	587	C	C6-N1-C2	-9.54	116.48	120.30
1	2	921	G	C4-C5-N7	9.54	114.62	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	20	U	N3-C2-O2	9.54	128.88	122.20
36	1	2719	U	O5'-P-OP2	-9.54	97.11	105.70
36	1	3301	U	C5-C6-N1	-9.54	117.93	122.70
85	5	78	U	C4-C5-C6	9.54	125.42	119.70
85	5	1047	A	N1-C6-N6	9.54	124.33	118.60
85	5	2112	U	N1-C2-O2	-9.54	116.12	122.80
85	5	2167	A	C2-N3-C4	9.54	115.37	110.60
85	5	2378	C	C5-C4-N4	-9.54	113.52	120.20
85	5	3114	A	C2-N3-C4	-9.54	105.83	110.60
1	2	1583	A	C5-C6-N1	-9.54	112.93	117.70
36	1	1545	A	C8-N9-C4	-9.54	101.98	105.80
85	5	180	C	N1-C2-O2	9.54	124.62	118.90
1	2	1646	G	O5'-P-OP2	-9.54	97.12	105.70
36	1	7	C	C5-C4-N4	9.54	126.88	120.20
36	1	752	C	N1-C2-O2	-9.54	113.18	118.90
36	1	982	C	C6-N1-C2	9.54	124.12	120.30
85	5	989	A	O5'-P-OP1	9.54	122.15	110.70
36	1	88	A	N1-C6-N6	-9.54	112.88	118.60
36	1	212	G	N3-C4-C5	-9.54	123.83	128.60
36	1	981	U	C6-N1-C2	-9.54	115.28	121.00
36	1	2610	G	C5-N7-C8	-9.54	99.53	104.30
80	6	1616	G	C8-N9-C4	-9.54	102.58	106.40
85	5	674	G	N3-C2-N2	-9.54	113.22	119.90
85	5	882	A	N1-C2-N3	9.54	134.07	129.30
85	5	1483	G	N9-C4-C5	9.54	109.22	105.40
85	5	2801	A	N3-C4-C5	-9.54	120.12	126.80
38	8	48	A	O5'-P-OP1	-9.54	97.12	105.70
36	1	1755	C	N1-C2-O2	-9.54	113.18	118.90
36	1	1903	U	C6-N1-C2	-9.53	115.28	121.00
36	1	2886	U	C6-N1-C2	-9.54	115.28	121.00
38	4	113	U	O5'-P-OP1	9.54	122.14	110.70
80	6	784	C	N1-C2-O2	-9.53	113.18	118.90
85	5	923	C	C6-N1-C2	-9.53	116.49	120.30
85	5	2844	C	N3-C2-O2	9.53	128.57	121.90
85	5	3272	C	O5'-P-OP2	-9.54	97.12	105.70
1	2	1749	A	C8-N9-C4	9.53	109.61	105.80
36	1	43	A	C2-N3-C4	-9.53	105.83	110.60
36	1	78	U	O5'-P-OP2	9.53	122.14	110.70
36	1	371	G	C5-C6-O6	-9.53	122.88	128.60
36	1	2412	G	C2-N3-C4	9.53	116.67	111.90
80	6	1764	C	OP1-P-O3'	9.53	126.17	105.20
85	5	97	U	N3-C2-O2	9.53	128.87	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1172	G	N1-C2-N3	9.53	129.62	123.90
85	5	1880	U	OP1-P-OP2	9.53	133.90	119.60
85	5	1413	G	C2-N3-C4	-9.53	107.13	111.90
37	7	102	A	C8-N9-C4	9.53	109.61	105.80
38	8	96	A	C6-N1-C2	-9.53	112.88	118.60
1	2	794	A	C8-N9-C4	-9.53	101.99	105.80
36	1	389	A	N1-C2-N3	9.53	134.06	129.30
36	1	1412	G	N1-C6-O6	9.53	125.62	119.90
36	1	1920	U	N3-C2-O2	-9.53	115.53	122.20
36	1	2912	G	O5'-P-OP2	-9.53	97.12	105.70
36	1	3015	G	N1-C6-O6	9.53	125.62	119.90
85	5	74	G	C8-N9-C4	-9.53	102.59	106.40
85	5	878	G	C5-N7-C8	-9.53	99.54	104.30
85	5	1488	G	C4-C5-N7	9.53	114.61	110.80
85	5	2337	C	N1-C2-O2	-9.53	113.18	118.90
85	5	2364	G	C5-C6-N1	9.53	116.26	111.50
85	5	2892	A	OP1-P-OP2	9.53	133.90	119.60
36	1	557	A	N1-C6-N6	-9.53	112.88	118.60
1	2	1469	G	C6-C5-N7	-9.53	124.69	130.40
36	1	345	G	C4-C5-N7	-9.53	106.99	110.80
36	1	695	C	C5-C6-N1	-9.53	116.24	121.00
36	1	2198	A	C8-N9-C4	-9.53	101.99	105.80
36	1	2991	A	C4-C5-C6	9.53	121.76	117.00
80	6	985	G	C4-C5-N7	9.53	114.61	110.80
85	5	80	G	N1-C6-O6	9.53	125.61	119.90
85	5	767	U	C5-C6-N1	-9.53	117.94	122.70
85	5	1128	U	N3-C4-C5	9.53	120.31	114.60
85	5	1142	G	C4-C5-C6	9.53	124.52	118.80
85	5	1377	G	C6-C5-N7	-9.53	124.69	130.40
85	5	2105	G	C4-C5-N7	9.53	114.61	110.80
1	2	584	C	N1-C2-O2	-9.52	113.19	118.90
1	2	827	A	N1-C6-N6	9.52	124.31	118.60
36	1	510	G	C5-C6-N1	-9.52	106.74	111.50
36	1	1169	A	C6-N1-C2	-9.52	112.89	118.60
36	1	1329	U	N3-C2-O2	-9.52	115.53	122.20
36	1	3194	C	N3-C4-C5	-9.52	118.09	121.90
80	6	561	G	C8-N9-C4	-9.52	102.59	106.40
85	5	1185	C	C4-C5-C6	9.52	122.16	117.40
85	5	1557	A	C8-N9-C4	-9.52	101.99	105.80
36	1	2424	A	N9-C4-C5	-9.52	101.99	105.80
1	2	859	G	C4-C5-N7	9.52	114.61	110.80
37	3	41	G	C6-C5-N7	-9.52	124.69	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	911	C	N1-C2-O2	-9.52	113.19	118.90
85	5	121	A	N1-C2-N3	-9.52	124.54	129.30
85	5	723	U	C2-N3-C4	-9.52	121.29	127.00
85	5	1313	G	N1-C6-O6	9.52	125.61	119.90
85	5	2795	U	N3-C2-O2	9.52	128.86	122.20
85	5	2611	U	C5-C6-N1	-9.52	117.94	122.70
85	5	3024	A	C2-N3-C4	-9.52	105.84	110.60
85	5	237	G	N1-C6-O6	9.52	125.61	119.90
36	1	612	U	N1-C2-N3	9.52	120.61	114.90
36	1	657	A	C8-N9-C4	-9.52	101.99	105.80
85	5	911	C	O5'-P-OP1	-9.52	97.14	105.70
85	5	1067	U	C5-C4-O4	9.52	131.61	125.90
85	5	1134	G	C2-N3-C4	-9.52	107.14	111.90
85	5	1592	G	N7-C8-N9	9.52	117.86	113.10
36	1	96	G	C6-C5-N7	-9.51	124.69	130.40
36	1	161	G	C8-N9-C4	9.51	110.20	106.40
36	1	1139	G	C2-N3-C4	-9.51	107.14	111.90
36	1	1828	A	O5'-P-OP1	-9.51	97.14	105.70
85	5	1320	C	C5-C4-N4	9.51	126.86	120.20
85	5	2907	G	C5-C6-N1	-9.51	106.74	111.50
85	5	1944	U	N3-C2-O2	-9.51	115.54	122.20
85	5	2199	G	C5-N7-C8	-9.51	99.54	104.30
1	2	1061	C	N3-C2-O2	-9.51	115.24	121.90
36	1	80	G	N1-C2-N2	-9.51	107.64	116.20
80	6	1771	U	N3-C4-C5	-9.51	108.89	114.60
85	5	27	C	C6-N1-C2	-9.51	116.50	120.30
85	5	2743	A	N1-C2-N3	9.51	134.06	129.30
85	5	731	U	N1-C2-N3	9.51	120.61	114.90
36	1	206	G	C8-N9-C4	-9.51	102.60	106.40
36	1	1178	G	N3-C4-C5	-9.51	123.85	128.60
37	3	49	G	C5-C6-N1	9.51	116.25	111.50
80	6	1455	G	N7-C8-N9	9.51	117.85	113.10
85	5	16	A	N7-C8-N9	-9.51	109.05	113.80
85	5	101	G	C6-C5-N7	-9.51	124.70	130.40
85	5	409	A	C8-N9-C4	-9.51	102.00	105.80
85	5	730	C	C4-C5-C6	9.51	122.15	117.40
85	5	1908	A	C5-C6-N1	9.51	122.45	117.70
85	5	2639	G	C8-N9-C4	-9.51	102.60	106.40
36	1	1763	U	C6-N1-C2	9.50	126.70	121.00
36	1	1767	C	C5-C6-N1	-9.50	116.25	121.00
36	1	2287	C	N1-C2-O2	9.50	124.60	118.90
36	1	1309	U	OP1-P-OP2	9.50	133.85	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1398	U	N1-C2-N3	9.50	120.60	114.90
36	1	1606	U	N1-C2-O2	-9.50	116.15	122.80
36	1	1783	U	O5'-P-OP1	-9.50	97.15	105.70
36	1	2613	U	C6-N1-C2	-9.50	115.30	121.00
36	1	3271	G	C5-C6-O6	9.50	134.30	128.60
38	4	110	C	C6-N1-C2	9.50	124.10	120.30
80	6	1111	G	O5'-P-OP1	-9.50	97.15	105.70
85	5	658	G	N3-C4-N9	-9.50	120.30	126.00
85	5	801	A	O4'-C1'-N9	-9.50	100.60	108.20
36	1	671	U	N3-C2-O2	9.50	128.85	122.20
85	5	2944	U	N1-C2-O2	9.50	129.45	122.80
1	2	518	A	C5-C6-N1	-9.50	112.95	117.70
1	2	1583	A	N1-C6-N6	9.50	124.30	118.60
36	1	999	G	N3-C4-C5	-9.50	123.85	128.60
36	1	1655	G	C5-C6-N1	9.50	116.25	111.50
36	1	1907	C	N3-C2-O2	-9.50	115.25	121.90
36	1	612	U	C4-C5-C6	9.50	125.40	119.70
36	1	1380	G	N3-C2-N2	-9.50	113.25	119.90
36	1	2622	C	N1-C2-N3	9.50	125.85	119.20
36	1	2921	U	N3-C2-O2	-9.50	115.55	122.20
38	4	151	C	N1-C2-O2	-9.50	113.20	118.90
80	6	94	U	C5-C6-N1	-9.50	117.95	122.70
85	5	247	C	C5-C6-N1	9.50	125.75	121.00
85	5	1076	C	C6-N1-C2	9.50	124.10	120.30
85	5	1381	A	C8-N9-C4	9.50	109.60	105.80
80	6	965	U	N3-C4-O4	-9.50	112.75	119.40
80	6	984	G	N9-C4-C5	9.50	109.20	105.40
85	5	109	A	N1-C6-N6	-9.50	112.90	118.60
85	5	2333	C	C4-C5-C6	-9.50	112.65	117.40
85	5	2869	U	N3-C2-O2	-9.50	115.55	122.20
85	5	3041	U	C5-C4-O4	-9.50	120.20	125.90
38	8	155	A	N1-C6-N6	-9.50	112.90	118.60
36	1	379	C	N3-C2-O2	9.49	128.55	121.90
36	1	1886	A	N1-C6-N6	-9.49	112.90	118.60
85	5	2416	U	OP1-P-O3'	9.49	126.09	105.20
1	2	245	U	C5-C4-O4	9.49	131.59	125.90
36	1	672	A	C5-N7-C8	-9.49	99.15	103.90
36	1	694	C	C5-C6-N1	9.49	125.75	121.00
36	1	3125	U	O5'-P-OP2	-9.49	97.16	105.70
80	6	154	G	C5-C6-N1	9.49	116.25	111.50
85	5	216	G	C5-C6-O6	-9.49	122.90	128.60
85	5	1688	U	N1-C2-O2	9.49	129.45	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2381	G	C4-C5-N7	9.49	114.60	110.80
85	5	3137	C	O5'-P-OP2	-9.49	97.16	105.70
37	7	88	G	N3-C2-N2	-9.49	113.25	119.90
80	6	1735	U	N1-C2-N3	9.49	120.59	114.90
36	1	1481	A	C8-N9-C4	-9.49	102.00	105.80
85	5	2409	G	C6-N1-C2	-9.49	119.41	125.10
85	5	2684	C	O5'-P-OP2	-9.49	97.16	105.70
85	5	2762	A	N7-C8-N9	9.49	118.55	113.80
85	5	3125	U	N1-C2-O2	-9.49	116.16	122.80
36	1	278	U	N3-C4-C5	-9.49	108.91	114.60
36	1	1441	G	N1-C2-N3	9.49	129.59	123.90
36	1	2556	C	N3-C2-O2	-9.49	115.26	121.90
36	1	2748	A	C2-N3-C4	-9.49	105.86	110.60
36	1	3322	A	C8-N9-C4	9.49	109.59	105.80
80	6	611	U	N3-C2-O2	-9.49	115.56	122.20
85	5	681	U	N3-C4-O4	9.49	126.04	119.40
85	5	1376	C	C5-C6-N1	9.49	125.74	121.00
85	5	1929	G	C2-N3-C4	-9.49	107.16	111.90
85	5	2383	C	O5'-P-OP1	9.49	122.09	110.70
85	5	3161	C	N3-C4-C5	-9.49	118.11	121.90
1	2	1417	U	N3-C4-O4	9.48	126.04	119.40
36	1	809	G	N1-C6-O6	9.48	125.59	119.90
36	1	1316	C	N3-C4-C5	-9.48	118.11	121.90
36	1	1366	A	C4-C5-N7	9.48	115.44	110.70
36	1	2882	U	C5-C4-O4	9.48	131.59	125.90
80	6	3	U	C5-C4-O4	9.48	131.59	125.90
85	5	919	U	N1-C2-N3	9.48	120.59	114.90
36	1	1563	C	N3-C4-N4	-9.48	111.36	118.00
36	1	2412	G	O5'-P-OP2	-9.48	97.17	105.70
36	1	3148	U	C6-N1-C2	-9.48	115.31	121.00
36	1	3331	U	N3-C4-O4	9.48	126.04	119.40
85	5	2796	G	C6-N1-C2	-9.48	119.41	125.10
85	5	3255	U	C6-N1-C2	9.48	126.69	121.00
36	1	53	G	N3-C2-N2	-9.48	113.26	119.90
85	5	518	G	O5'-P-OP2	-9.48	97.17	105.70
36	1	215	G	O5'-P-OP2	9.48	122.08	110.70
36	1	1131	G	N3-C2-N2	-9.48	113.26	119.90
36	1	3324	C	N1-C2-O2	-9.48	113.21	118.90
36	1	1322	U	N1-C2-N3	9.48	120.59	114.90
85	5	420	G	OP1-P-O3'	9.48	126.06	105.20
85	5	2363	A	N7-C8-N9	9.48	118.54	113.80
85	5	2381	G	C2-N3-C4	-9.48	107.16	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	79	A	C4-C5-N7	9.48	115.44	110.70
36	1	2934	A	C4-C5-C6	9.48	121.74	117.00
80	6	1323	C	N3-C2-O2	-9.48	115.27	121.90
1	2	1185	A	C5-C6-N1	9.48	122.44	117.70
1	2	1481	G	N7-C8-N9	-9.48	108.36	113.10
36	1	1175	C	N3-C4-N4	9.48	124.64	118.00
36	1	1369	A	C2-N3-C4	-9.48	105.86	110.60
36	1	1890	U	C6-N1-C2	9.48	126.69	121.00
36	1	2950	G	C8-N9-C4	-9.48	102.61	106.40
85	5	1389	G	C8-N9-C1'	-9.48	114.68	127.00
85	5	1820	U	C5-C6-N1	9.48	127.44	122.70
85	5	1949	G	C8-N9-C4	-9.48	102.61	106.40
36	1	1536	G	C6-N1-C2	-9.47	119.42	125.10
36	1	2987	A	C8-N9-C4	9.47	109.59	105.80
36	1	2992	U	N1-C2-O2	-9.47	116.17	122.80
80	6	160	C	N1-C2-O2	9.47	124.58	118.90
80	6	364	G	C4-C5-C6	9.47	124.48	118.80
85	5	801	A	C6-N1-C2	-9.47	112.92	118.60
85	5	1383	G	N1-C2-N3	9.47	129.59	123.90
85	5	1677	G	C5-C6-O6	9.47	134.28	128.60
85	5	2796	G	N3-C4-C5	-9.47	123.86	128.60
85	5	45	A	C4-C5-N7	9.47	115.44	110.70
85	5	726	G	C8-N9-C4	-9.47	102.61	106.40
85	5	3101	G	N1-C6-O6	-9.47	114.22	119.90
85	5	3234	A	N7-C8-N9	-9.47	109.06	113.80
1	2	613	G	C5-C6-O6	-9.47	122.92	128.60
36	1	2796	G	C5-C6-N1	9.47	116.24	111.50
80	6	1284	C	C4-C5-C6	9.47	122.14	117.40
36	1	636	C	N3-C4-N4	9.47	124.63	118.00
36	1	1507	G	C6-N1-C2	-9.47	119.42	125.10
38	4	30	C	N3-C2-O2	9.47	128.53	121.90
85	5	3095	U	C2-N3-C4	-9.47	121.32	127.00
85	5	3151	U	N3-C2-O2	9.47	128.83	122.20
38	8	98	U	C2-N3-C4	9.47	132.68	127.00
36	1	1612	A	C5-C6-N1	-9.47	112.97	117.70
36	1	697	A	C5-C6-N1	-9.47	112.97	117.70
36	1	1198	C	N1-C2-N3	9.47	125.83	119.20
38	8	144	G	C5-C6-N1	9.47	116.23	111.50
36	1	364	G	N1-C2-N3	9.47	129.58	123.90
36	1	2338	C	C4-C5-C6	9.47	122.13	117.40
36	1	2965	U	N3-C4-O4	9.47	126.03	119.40
85	5	103	G	N3-C2-N2	-9.47	113.27	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	51	A	C5-C6-N6	-9.47	116.13	123.70
80	6	1117	U	N1-C2-O2	-9.47	116.17	122.80
85	5	981	U	C6-N1-C2	-9.47	115.32	121.00
36	1	13	A	C8-N9-C4	-9.47	102.01	105.80
36	1	2349	U	C5-C6-N1	-9.46	117.97	122.70
85	5	3213	A	C6-N1-C2	-9.47	112.92	118.60
80	6	1053	G	C4-C5-N7	9.46	114.59	110.80
85	5	567	G	C2-N3-C4	-9.46	107.17	111.90
85	5	2242	A	C2-N3-C4	9.47	115.33	110.60
85	5	2299	A	C8-N9-C4	9.46	109.59	105.80
85	5	3107	U	OP2-P-O3'	9.46	126.02	105.20
1	2	1715	A	C5-C6-N6	9.46	131.27	123.70
36	1	1540	U	N3-C2-O2	9.46	128.82	122.20
36	1	2399	A	O5'-P-OP2	9.46	122.05	110.70
85	5	807	A	C5-C6-N6	-9.46	116.13	123.70
36	1	496	C	C6-N1-C2	9.46	124.08	120.30
36	1	2864	A	N1-C6-N6	-9.46	112.92	118.60
38	4	111	A	C6-C5-N7	-9.46	125.68	132.30
85	5	997	A	C5-C6-N1	9.46	122.43	117.70
85	5	1306	G	C6-C5-N7	-9.46	124.72	130.40
85	5	1791	C	O5'-P-OP2	-9.46	97.19	105.70
37	7	38	U	N3-C2-O2	9.46	128.82	122.20
36	1	2142	A	N1-C6-N6	-9.46	112.92	118.60
80	6	339	C	N1-C2-N3	9.46	125.82	119.20
36	1	3026	G	C6-C5-N7	-9.46	124.73	130.40
85	5	1370	G	C6-N1-C2	-9.46	119.43	125.10
85	5	1781	C	C4-C5-C6	-9.46	112.67	117.40
85	5	2928	C	C4-C5-C6	9.46	122.13	117.40
85	5	3303	G	N1-C6-O6	-9.46	114.22	119.90
80	6	95	G	N9-C4-C5	9.46	109.18	105.40
85	5	95	A	N1-C6-N6	-9.46	112.93	118.60
85	5	115	A	C2-N3-C4	-9.46	105.87	110.60
38	8	92	A	C8-N9-C4	-9.46	102.02	105.80
36	1	1555	U	C5-C4-O4	9.45	131.57	125.90
36	1	2427	U	N3-C2-O2	-9.45	115.58	122.20
37	3	74	C	C5-C6-N1	9.45	125.73	121.00
80	6	876	G	N1-C6-O6	-9.46	114.23	119.90
80	6	896	U	C5-C4-O4	9.46	131.57	125.90
85	5	810	A	C6-N1-C2	-9.45	112.93	118.60
36	1	2685	C	C6-N1-C2	-9.45	116.52	120.30
80	6	351	C	O5'-P-OP2	-9.45	97.19	105.70
85	5	1321	G	N3-C2-N2	-9.45	113.28	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1397	C	N1-C2-O2	-9.45	113.23	118.90
36	1	1485	G	C8-N9-C4	9.45	110.18	106.40
36	1	2387	A	N1-C6-N6	9.45	124.27	118.60
38	4	1	A	C2-N3-C4	-9.45	105.87	110.60
85	5	101	G	C5-C6-O6	-9.45	122.93	128.60
85	5	820	A	N1-C2-N3	9.45	134.03	129.30
85	5	2869	U	N3-C4-O4	-9.45	112.78	119.40
85	5	1159	A	C5-N7-C8	-9.45	99.17	103.90
85	5	1170	A	N1-C6-N6	9.45	124.27	118.60
85	5	3375	A	C8-N9-C4	-9.45	102.02	105.80
1	2	1393	A	C4-C5-C6	9.45	121.72	117.00
36	1	883	A	N7-C8-N9	9.45	118.53	113.80
36	1	2870	C	C5-C4-N4	-9.45	113.58	120.20
1	2	599	A	N1-C6-N6	-9.45	112.93	118.60
38	4	63	G	N1-C6-O6	-9.45	114.23	119.90
85	5	1441	G	N1-C6-O6	9.45	125.57	119.90
1	2	93	A	C5-N7-C8	9.45	108.62	103.90
1	2	1132	G	N3-C4-C5	-9.45	123.88	128.60
36	1	1368	U	N3-C4-O4	9.45	126.01	119.40
36	1	1589	A	N1-C6-N6	-9.45	112.93	118.60
36	1	1610	G	C2-N3-C4	-9.45	107.18	111.90
38	4	26	U	C5-C6-N1	9.45	127.42	122.70
85	5	309	U	N1-C2-O2	-9.45	116.19	122.80
85	5	1844	C	N1-C2-N3	9.45	125.81	119.20
36	1	3078	U	N3-C4-C5	-9.44	108.93	114.60
85	5	366	A	C8-N9-C4	9.44	109.58	105.80
85	5	1307	G	C2-N3-C4	9.45	116.62	111.90
85	5	2219	A	C8-N9-C4	-9.44	102.02	105.80
85	5	2278	C	C5-C6-N1	9.45	125.72	121.00
36	1	1509	A	C5-N7-C8	-9.44	99.18	103.90
36	1	1618	G	C8-N9-C4	-9.44	102.62	106.40
36	1	2591	A	N1-C6-N6	9.44	124.27	118.60
36	1	3307	A	N1-C6-N6	9.44	124.27	118.60
80	6	323	A	C5-N7-C8	-9.44	99.18	103.90
85	5	2242	A	C5-N7-C8	9.44	108.62	103.90
38	4	56	G	N7-C8-N9	-9.44	108.38	113.10
80	6	1027	A	N1-C6-N6	9.44	124.27	118.60
85	5	3124	G	C8-N9-C4	-9.44	102.62	106.40
38	8	81	U	N1-C2-O2	9.44	129.41	122.80
80	6	94	U	O5'-P-OP2	-9.44	97.20	105.70
36	1	397	A	C2-N3-C4	9.44	115.32	110.60
80	6	1679	G	N1-C6-O6	-9.44	114.24	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	780	A	N7-C8-N9	9.44	118.52	113.80
85	5	1097	G	C4-C5-N7	-9.44	107.02	110.80
85	5	1177	G	N1-C6-O6	-9.44	114.24	119.90
85	5	2335	G	C8-N9-C4	-9.44	102.62	106.40
85	5	2357	A	C8-N9-C4	9.44	109.58	105.80
1	2	1113	G	C8-N9-C4	-9.44	102.63	106.40
36	1	143	G	N1-C2-N3	9.44	129.56	123.90
85	5	2838	A	C8-N9-C4	9.44	109.58	105.80
36	1	1747	G	N3-C2-N2	-9.44	113.30	119.90
36	1	2629	U	N3-C4-O4	9.44	126.01	119.40
80	6	527	A	N1-C2-N3	9.44	134.02	129.30
38	4	154	C	N3-C2-O2	9.44	128.50	121.90
80	6	321	C	N1-C2-O2	9.44	124.56	118.90
80	6	1599	C	N3-C2-O2	-9.44	115.30	121.90
85	5	1102	A	C8-N9-C4	-9.44	102.03	105.80
1	2	996	A	C2-N3-C4	9.43	115.32	110.60
36	1	25	U	C4-C5-C6	9.43	125.36	119.70
36	1	403	C	N3-C4-C5	-9.43	118.13	121.90
36	1	693	A	C4-C5-C6	9.43	121.72	117.00
36	1	1180	A	N1-C2-N3	9.43	134.02	129.30
36	1	1592	G	C2-N3-C4	-9.43	107.18	111.90
80	6	778	G	N1-C6-O6	-9.43	114.24	119.90
85	5	614	C	N3-C2-O2	-9.43	115.30	121.90
85	5	715	A	N3-C4-C5	-9.43	120.20	126.80
36	1	913	A	C4-C5-N7	9.43	115.42	110.70
85	5	1072	G	C8-N9-C4	-9.43	102.63	106.40
85	5	3332	U	N3-C2-O2	9.43	128.80	122.20
1	2	372	G	C5-C6-O6	9.43	134.26	128.60
36	1	2643	A	C5-N7-C8	-9.43	99.19	103.90
36	1	3345	G	C8-N9-C4	9.43	110.17	106.40
85	5	429	U	O5'-P-OP1	-9.43	97.21	105.70
1	2	1079	C	C5-C6-N1	9.43	125.71	121.00
36	1	1398	U	C4-C5-C6	9.43	125.36	119.70
80	6	111	U	O5'-P-OP2	-9.43	97.22	105.70
80	6	997	G	C2-N3-C4	-9.43	107.19	111.90
85	5	1088	U	N3-C4-C5	-9.43	108.94	114.60
85	5	1617	G	N1-C6-O6	9.43	125.56	119.90
85	5	2731	U	OP2-P-O3'	9.43	125.94	105.20
85	5	2911	A	O5'-P-OP1	9.43	122.02	110.70
1	2	347	G	N1-C6-O6	9.43	125.56	119.90
36	1	1345	G	C4-C5-N7	9.43	114.57	110.80
38	4	60	U	O5'-P-OP2	-9.43	97.22	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2753	G	C8-N9-C4	-9.43	102.63	106.40
1	2	905	G	C8-N9-C4	9.42	110.17	106.40
85	5	1524	A	N1-C6-N6	9.42	124.25	118.60
85	5	1668	G	C5-N7-C8	9.42	109.01	104.30
1	2	430	G	N9-C4-C5	9.42	109.17	105.40
36	1	1611	G	C6-N1-C2	9.42	130.75	125.10
36	1	2230	C	O5'-P-OP2	9.42	122.01	110.70
36	1	2401	A	C6-N1-C2	9.42	124.25	118.60
85	5	174	C	N1-C2-O2	9.42	124.55	118.90
36	1	2884	C	N3-C2-O2	9.42	128.50	121.90
38	4	80	A	C5-N7-C8	9.42	108.61	103.90
85	5	2093	A	N9-C4-C5	-9.42	102.03	105.80
85	5	2275	A	C4-C5-N7	9.42	115.41	110.70
85	5	2227	C	N3-C4-C5	-9.42	118.13	121.90
85	5	2591	A	N1-C6-N6	9.42	124.25	118.60
36	1	88	A	C5-C6-N6	9.42	131.24	123.70
36	1	172	G	C5-C6-N1	9.42	116.21	111.50
36	1	189	G	N9-C4-C5	9.42	109.17	105.40
36	1	2180	G	C5-C6-N1	-9.42	106.79	111.50
36	1	2772	C	C6-N1-C2	-9.42	116.53	120.30
80	6	934	C	N3-C2-O2	-9.42	115.31	121.90
85	5	1418	A	C5-C6-N6	-9.42	116.16	123.70
85	5	1429	G	N1-C6-O6	-9.42	114.25	119.90
85	5	2115	G	N3-C4-C5	-9.42	123.89	128.60
85	5	2326	A	C5-C6-N6	9.42	131.24	123.70
85	5	2637	A	C6-N1-C2	-9.42	112.95	118.60
85	5	2526	C	N3-C4-C5	9.42	125.67	121.90
36	1	372	A	O5'-P-OP2	-9.42	97.23	105.70
36	1	570	A	C8-N9-C4	-9.42	102.03	105.80
36	1	895	A	C5-C6-N1	-9.42	112.99	117.70
36	1	1319	G	C8-N9-C4	-9.42	102.63	106.40
85	5	126	U	O5'-P-OP2	-9.42	97.22	105.70
85	5	1793	C	C2-N3-C4	9.42	124.61	119.90
85	5	221	A	C5-C6-N1	-9.42	112.99	117.70
1	2	527	A	C8-N9-C4	-9.41	102.03	105.80
36	1	1465	A	C8-N9-C4	9.41	109.57	105.80
36	1	2614	G	C4-C5-N7	-9.41	107.03	110.80
36	1	2976	A	N1-C2-N3	9.41	134.01	129.30
36	1	3054	U	N1-C2-O2	-9.41	116.21	122.80
85	5	1433	A	N3-C4-C5	-9.41	120.21	126.80
36	1	2701	U	C5-C6-N1	-9.41	117.99	122.70
36	1	2816	G	N3-C2-N2	-9.41	113.31	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	481	A	C8-N9-C4	9.41	109.57	105.80
80	6	1733	C	N3-C2-O2	-9.41	115.31	121.90
38	4	137	C	N3-C2-O2	9.41	128.49	121.90
80	6	587	C	C6-N1-C2	9.41	124.06	120.30
85	5	997	A	N1-C2-N3	9.41	134.01	129.30
85	5	2341	A	O5'-P-OP2	-9.41	97.23	105.70
85	5	2399	A	OP1-P-O3'	9.41	125.91	105.20
85	5	3223	A	C6-N1-C2	-9.41	112.95	118.60
85	5	433	A	N1-C2-N3	9.41	134.01	129.30
85	5	2706	G	O5'-P-OP2	-9.41	97.23	105.70
36	1	283	G	N3-C4-C5	9.41	133.31	128.60
36	1	428	A	N1-C6-N6	-9.41	112.95	118.60
36	1	1311	G	N1-C2-N3	9.41	129.55	123.90
80	6	314	C	N1-C2-O2	-9.41	113.25	118.90
85	5	632	G	O5'-P-OP1	9.41	121.99	110.70
36	1	1658	G	C8-N9-C4	-9.41	102.64	106.40
36	1	1760	A	C8-N9-C4	-9.41	102.04	105.80
36	1	2111	G	C8-N9-C4	9.41	110.16	106.40
85	5	80	G	C5-N7-C8	-9.41	99.59	104.30
85	5	1804	A	N1-C2-N3	9.41	134.00	129.30
36	1	644	G	N1-C6-O6	-9.41	114.25	119.90
36	1	1043	C	N3-C4-C5	9.41	125.66	121.90
85	5	1349	G	C5-N7-C8	9.41	109.00	104.30
1	2	1016	C	N1-C2-O2	9.41	124.54	118.90
36	1	915	A	O5'-P-OP2	9.41	121.99	110.70
85	5	157	A	N1-C2-N3	9.41	134.00	129.30
85	5	1104	G	C8-N9-C4	-9.41	102.64	106.40
85	5	3009	G	C2-N3-C4	-9.41	107.20	111.90
85	5	2440	G	C8-N9-C4	-9.41	102.64	106.40
85	5	2891	U	OP1-P-OP2	-9.41	105.49	119.60
36	1	2855	U	N1-C2-O2	-9.40	116.22	122.80
80	6	10	G	N1-C6-O6	9.40	125.54	119.90
80	6	101	U	N3-C2-O2	-9.40	115.62	122.20
80	6	1592	A	C5-N7-C8	-9.40	99.20	103.90
85	5	1846	C	N3-C4-C5	9.40	125.66	121.90
85	5	1200	A	C4-C5-C6	9.40	121.70	117.00
85	5	1321	G	C6-C5-N7	-9.40	124.76	130.40
85	5	2798	C	C5-C6-N1	-9.40	116.30	121.00
85	5	3245	A	N1-C2-N3	9.40	134.00	129.30
36	1	107	A	O5'-P-OP2	9.40	121.98	110.70
36	1	1287	A	C8-N9-C4	-9.40	102.04	105.80
36	1	1683	A	C5-C6-N6	-9.40	116.18	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1846	C	C6-N1-C2	-9.40	116.54	120.30
36	1	2142	A	N9-C4-C5	9.40	109.56	105.80
36	1	2168	A	C5-N7-C8	9.40	108.60	103.90
36	1	2228	A	O5'-P-OP1	9.40	121.98	110.70
85	5	916	G	N3-C4-C5	-9.40	123.90	128.60
80	6	1455	G	C5-N7-C8	-9.40	99.60	104.30
85	5	44	U	N3-C4-O4	-9.40	112.82	119.40
85	5	105	C	N1-C2-O2	-9.40	113.26	118.90
85	5	227	G	OP1-P-OP2	9.40	133.70	119.60
85	5	301	G	C5-N7-C8	9.40	109.00	104.30
85	5	736	A	N1-C6-N6	9.40	124.24	118.60
85	5	3314	A	N1-C6-N6	-9.40	112.96	118.60
38	8	55	U	N3-C4-C5	-9.40	108.96	114.60
1	2	1108	A	C8-N9-C4	-9.40	102.04	105.80
36	1	72	C	OP1-P-OP2	-9.40	105.50	119.60
36	1	775	A	C6-C5-N7	-9.40	125.72	132.30
36	1	1157	G	N1-C6-O6	-9.40	114.26	119.90
85	5	1077	U	C2-N3-C4	-9.40	121.36	127.00
1	2	1575	A	N7-C8-N9	9.40	118.50	113.80
36	1	2201	G	OP1-P-OP2	-9.40	105.50	119.60
80	6	652	G	N3-C4-N9	-9.40	120.36	126.00
85	5	702	C	C5-C4-N4	-9.40	113.62	120.20
85	5	1862	U	C6-N1-C2	-9.40	115.36	121.00
85	5	2315	G	O5'-P-OP1	-9.40	97.24	105.70
85	5	3027	A	N1-C2-N3	9.40	134.00	129.30
85	5	3133	C	C5-C4-N4	-9.40	113.62	120.20
1	2	741	U	C5-C4-O4	9.39	131.54	125.90
36	1	280	U	N1-C2-N3	9.39	120.54	114.90
36	1	800	G	C5-N7-C8	-9.39	99.60	104.30
36	1	948	C	N1-C2-O2	-9.39	113.26	118.90
36	1	1382	G	C5-C6-N1	9.39	116.20	111.50
37	3	91	G	N7-C8-N9	9.39	117.80	113.10
80	6	1214	U	N3-C4-C5	-9.39	108.96	114.60
85	5	2967	A	N9-C4-C5	9.39	109.56	105.80
85	5	636	C	C5-C4-N4	-9.39	113.62	120.20
36	1	351	A	N1-C6-N6	-9.39	112.97	118.60
36	1	405	U	N3-C4-O4	9.39	125.97	119.40
36	1	687	U	N3-C4-C5	-9.39	108.97	114.60
36	1	1166	G	N9-C4-C5	-9.39	101.64	105.40
85	5	1350	A	C4-C5-N7	-9.39	106.00	110.70
85	5	2618	G	OP1-P-OP2	9.39	133.69	119.60
85	5	2628	A	N1-C2-N3	9.39	134.00	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3036	G	N1-C2-N3	9.39	129.53	123.90
85	5	3273	A	C5-N7-C8	-9.39	99.20	103.90
36	1	1790	G	C6-C5-N7	-9.39	124.77	130.40
80	6	1657	U	O5'-P-OP2	-9.39	97.25	105.70
85	5	789	A	O5'-P-OP2	-9.39	97.25	105.70
85	5	1311	G	C4-C5-N7	-9.39	107.05	110.80
85	5	1473	G	C5-C6-N1	-9.39	106.81	111.50
85	5	1835	A	N1-C2-N3	9.39	133.99	129.30
85	5	2740	A	C5-N7-C8	-9.39	99.21	103.90
1	2	111	U	C5-C4-O4	-9.38	120.27	125.90
36	1	538	G	C2-N3-C4	-9.39	107.21	111.90
36	1	2971	A	N9-C4-C5	9.38	109.55	105.80
85	5	1639	C	N3-C4-C5	-9.38	118.15	121.90
85	5	2249	G	N9-C4-C5	9.38	109.15	105.40
85	5	2410	U	N3-C4-O4	9.38	125.97	119.40
85	5	2621	G	N1-C2-N2	9.38	124.64	116.20
38	8	85	G	O5'-P-OP1	-9.38	97.25	105.70
36	1	3243	A	N1-C2-N3	9.38	133.99	129.30
36	1	148	G	N1-C6-O6	-9.38	114.27	119.90
36	1	2675	C	C2-N3-C4	-9.38	115.21	119.90
80	6	1122	G	C5-C6-N1	-9.38	106.81	111.50
85	5	149	U	N3-C4-O4	9.38	125.97	119.40
85	5	342	A	C6-N1-C2	-9.38	112.97	118.60
85	5	1490	A	N1-C6-N6	-9.38	112.97	118.60
85	5	2221	G	N9-C4-C5	-9.38	101.65	105.40
85	5	2929	C	N1-C2-N3	9.38	125.77	119.20
36	1	2618	G	C8-N9-C4	-9.38	102.65	106.40
36	1	2683	U	N1-C2-O2	-9.38	116.23	122.80
80	6	101	U	N1-C2-O2	9.38	129.37	122.80
80	6	1601	G	C5-C6-N1	9.38	116.19	111.50
85	5	225	C	N3-C4-N4	9.38	124.57	118.00
85	5	1140	G	C5-C6-N1	9.38	116.19	111.50
85	5	1406	A	C6-N1-C2	-9.38	112.97	118.60
85	5	2850	G	C8-N9-C1'	-9.38	114.80	127.00
85	5	2931	C	O5'-P-OP1	-9.38	97.26	105.70
38	8	61	A	C6-N1-C2	-9.38	112.97	118.60
1	2	317	C	C6-N1-C2	9.38	124.05	120.30
36	1	577	C	N3-C4-N4	9.38	124.56	118.00
36	1	820	A	N1-C6-N6	-9.38	112.97	118.60
80	6	1131	A	C6-N1-C2	-9.38	112.97	118.60
85	5	3183	A	C2-N3-C4	-9.38	105.91	110.60
36	1	1675	G	C2-N3-C4	9.38	116.59	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	363	G	N3-C2-N2	-9.38	113.34	119.90
85	5	382	U	N3-C4-C5	-9.38	108.97	114.60
85	5	1397	C	N3-C4-C5	-9.38	118.15	121.90
85	5	2832	C	N1-C2-O2	-9.38	113.27	118.90
36	1	390	G	C4-C5-N7	9.38	114.55	110.80
36	1	676	G	C4-N9-C1'	9.38	138.69	126.50
1	2	587	C	N3-C4-C5	-9.37	118.15	121.90
36	1	898	U	N1-C2-N3	-9.37	109.28	114.90
36	1	946	U	N1-C2-N3	9.38	120.53	114.90
36	1	1356	U	C5-C6-N1	-9.38	118.01	122.70
36	1	1793	C	N1-C2-O2	9.38	124.53	118.90
36	1	2877	G	C6-N1-C2	-9.38	119.47	125.10
36	1	3170	A	C8-N9-C4	-9.38	102.05	105.80
37	3	5	G	C5-C6-N1	9.38	116.19	111.50
80	6	879	G	C5-C6-O6	9.38	134.23	128.60
85	5	1435	A	C5-C6-N1	9.38	122.39	117.70
85	5	2950	G	C6-C5-N7	-9.38	124.78	130.40
80	6	570	A	N7-C8-N9	9.37	118.49	113.80
80	6	1330	G	C5-C6-N1	-9.37	106.81	111.50
85	5	2907	G	C6-C5-N7	-9.38	124.78	130.40
38	4	17	A	N7-C8-N9	9.37	118.49	113.80
80	6	1148	C	C6-N1-C2	-9.37	116.55	120.30
1	2	464	A	C8-N9-C4	-9.37	102.05	105.80
36	1	10	C	OP1-P-OP2	-9.37	105.54	119.60
36	1	2967	A	N1-C2-N3	9.37	133.99	129.30
36	1	3200	G	C4-C5-N7	-9.37	107.05	110.80
85	5	1181	U	N3-C4-C5	-9.37	108.98	114.60
85	5	1495	U	OP1-P-O3'	9.37	125.82	105.20
85	5	2334	U	C6-N1-C2	-9.37	115.38	121.00
1	2	343	C	C5-C6-N1	9.37	125.68	121.00
1	2	1348	C	C6-N1-C2	-9.37	116.55	120.30
1	2	836	G	N1-C6-O6	9.37	125.52	119.90
36	1	18	G	C5-C6-O6	-9.37	122.98	128.60
36	1	356	C	C6-N1-C2	-9.37	116.55	120.30
36	1	2682	C	C2-N3-C4	-9.37	115.22	119.90
36	1	3054	U	O5'-P-OP2	-9.37	97.27	105.70
36	1	3312	U	O5'-P-OP2	-9.37	97.27	105.70
80	6	330	G	C5-C6-O6	-9.37	122.98	128.60
85	5	653	A	C8-N9-C4	-9.37	102.05	105.80
85	5	2795	U	N3-C4-O4	9.37	125.96	119.40
85	5	3151	U	N1-C2-N3	-9.37	109.28	114.90
1	2	1593	G	C8-N9-C4	9.37	110.15	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	804	C	C5-C6-N1	9.37	125.68	121.00
85	5	215	G	C5-C6-N1	-9.37	106.82	111.50
85	5	339	C	N3-C2-O2	9.37	128.46	121.90
85	5	804	C	C5-C4-N4	-9.36	113.64	120.20
85	5	2814	G	C4-C5-C6	9.37	124.42	118.80
1	2	1565	U	C5-C6-N1	-9.36	118.02	122.70
36	1	1930	A	O5'-P-OP2	-9.36	97.27	105.70
80	6	1768	G	N3-C2-N2	-9.36	113.35	119.90
36	1	1166	G	N3-C4-C5	9.36	133.28	128.60
36	1	1364	C	C4-C5-C6	-9.36	112.72	117.40
36	1	2150	G	C5-C6-N1	-9.36	106.82	111.50
36	1	2629	U	N3-C4-C5	-9.36	108.98	114.60
85	5	1436	U	OP1-P-OP2	-9.36	105.56	119.60
85	5	3025	C	N3-C4-N4	-9.36	111.45	118.00
85	5	2807	U	C4-C5-C6	9.36	125.32	119.70
85	5	2901	G	C5-C6-N1	9.36	116.18	111.50
36	1	811	U	C4-C5-C6	9.36	125.32	119.70
1	2	680	C	N1-C2-O2	9.36	124.52	118.90
36	1	114	A	C4-C5-N7	9.36	115.38	110.70
36	1	135	C	C4-C5-C6	9.36	122.08	117.40
36	1	275	U	C5-C4-O4	9.36	131.52	125.90
85	5	1754	G	N3-C4-C5	-9.36	123.92	128.60
36	1	290	G	C5-C6-N1	9.36	116.18	111.50
38	4	114	G	N3-C2-N2	-9.36	113.35	119.90
85	5	1190	A	C4-C5-N7	-9.36	106.02	110.70
85	5	2350	C	C5-C6-N1	-9.36	116.32	121.00
85	5	3091	A	C5-C6-N1	9.36	122.38	117.70
36	1	522	A	C6-C5-N7	-9.36	125.75	132.30
80	6	533	U	C5-C4-O4	9.36	131.51	125.90
36	1	1848	G	C5-C6-N1	9.36	116.18	111.50
36	1	2551	U	C5-C4-O4	9.36	131.51	125.90
36	1	2629	U	C4-C5-C6	9.36	125.31	119.70
80	6	1681	A	N1-C6-N6	9.36	124.21	118.60
36	1	3233	C	C6-N1-C2	9.36	124.04	120.30
38	4	72	A	O5'-P-OP1	-9.36	97.28	105.70
85	5	1841	A	C5-C6-N6	-9.36	116.22	123.70
85	5	2354	C	C6-N1-C2	-9.36	116.56	120.30
85	5	2961	G	C8-N9-C4	-9.36	102.66	106.40
36	1	1431	G	C5-C6-O6	9.35	134.21	128.60
36	1	2373	A	C2-N3-C4	-9.35	105.92	110.60
36	1	2941	A	N1-C6-N6	9.35	124.21	118.60
80	6	1207	C	N1-C2-O2	-9.35	113.29	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	114	A	N9-C4-C5	-9.35	102.06	105.80
85	5	1135	A	N1-C2-N3	9.35	133.98	129.30
85	5	1322	U	N3-C4-C5	-9.35	108.99	114.60
85	5	1587	A	C8-N9-C4	9.35	109.54	105.80
85	5	1885	U	N1-C2-O2	-9.35	116.25	122.80
85	5	2123	G	C8-N9-C4	9.35	110.14	106.40
1	2	1264	G	C2-N3-C4	-9.35	107.22	111.90
36	1	206	G	C4-C5-N7	9.35	114.54	110.80
36	1	293	C	OP1-P-OP2	-9.35	105.57	119.60
36	1	1178	G	N1-C2-N2	-9.35	107.78	116.20
36	1	2794	G	N1-C2-N3	9.35	129.51	123.90
80	6	1765	A	N1-C6-N6	-9.35	112.99	118.60
85	5	198	A	C5-C6-N1	-9.35	113.03	117.70
85	5	641	C	C4-C5-C6	-9.35	112.72	117.40
85	5	2657	A	C5-C6-N6	9.35	131.18	123.70
85	5	3279	A	N9-C4-C5	9.35	109.54	105.80
85	5	3364	C	O5'-P-OP2	-9.35	97.28	105.70
38	8	52	A	N1-C2-N3	9.35	133.98	129.30
1	2	30	G	N1-C6-O6	9.35	125.51	119.90
1	2	429	G	N7-C8-N9	9.35	117.77	113.10
80	6	317	C	C4-C5-C6	9.35	122.08	117.40
80	6	975	C	N3-C4-N4	-9.35	111.45	118.00
36	1	233	C	O5'-P-OP1	9.35	121.92	110.70
36	1	2655	U	O5'-P-OP2	-9.35	97.29	105.70
36	1	2787	G	N3-C2-N2	-9.35	113.36	119.90
36	1	3232	G	N1-C6-O6	-9.35	114.29	119.90
38	4	56	G	N1-C2-N3	9.35	129.51	123.90
85	5	83	U	C5-C6-N1	-9.35	118.03	122.70
85	5	930	U	N3-C2-O2	9.35	128.74	122.20
85	5	953	G	C5-C6-N1	9.35	116.17	111.50
85	5	1222	G	C5-C6-O6	-9.35	122.99	128.60
85	5	3247	G	N9-C4-C5	-9.35	101.66	105.40
1	2	720	A	C8-N9-C4	9.35	109.54	105.80
1	2	1466	A	C8-N9-C4	-9.35	102.06	105.80
1	2	1127	U	N3-C2-O2	-9.35	115.66	122.20
85	5	341	G	N3-C4-C5	9.35	133.27	128.60
85	5	661	G	O5'-P-OP1	-9.35	97.29	105.70
85	5	2187	G	C4-C5-N7	9.35	114.54	110.80
85	5	2608	G	OP2-P-O3'	9.35	125.76	105.20
85	5	2775	U	N3-C4-O4	-9.35	112.86	119.40
38	8	92	A	C6-C5-N7	-9.35	125.76	132.30
36	1	233	C	C6-N1-C2	9.34	124.04	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2619	G	N1-C2-N3	9.34	129.51	123.90
36	1	639	G	N3-C2-N2	-9.34	113.36	119.90
85	5	2425	G	C5-C6-N1	-9.34	106.83	111.50
85	5	2624	G	C5-N7-C8	-9.34	99.63	104.30
85	5	3092	C	N3-C4-C5	9.34	125.64	121.90
37	7	64	A	C2-N3-C4	9.34	115.27	110.60
36	1	1621	A	C8-N9-C4	9.34	109.54	105.80
85	5	498	A	C2-N3-C4	-9.34	105.93	110.60
85	5	814	U	C6-N1-C2	-9.34	115.39	121.00
85	5	1002	A	C8-N9-C4	-9.34	102.06	105.80
85	5	1283	C	N3-C4-C5	-9.34	118.16	121.90
37	7	31	U	C5-C4-O4	-9.34	120.30	125.90
36	1	104	G	N7-C8-N9	9.34	117.77	113.10
36	1	1547	G	N7-C8-N9	-9.34	108.43	113.10
85	5	883	A	C8-N9-C4	-9.34	102.06	105.80
85	5	985	U	C5-C6-N1	-9.34	118.03	122.70
85	5	2419	A	C5-C6-N1	-9.34	113.03	117.70
1	2	1132	G	N1-C6-O6	-9.34	114.30	119.90
36	1	1603	A	C5-N7-C8	9.34	108.57	103.90
36	1	2859	U	O5'-P-OP2	-9.34	97.30	105.70
80	6	1720	G	C6-C5-N7	-9.34	124.80	130.40
85	5	1115	G	C6-C5-N7	-9.34	124.80	130.40
85	5	1790	G	C5-C6-N1	-9.34	106.83	111.50
85	5	3248	C	N3-C2-O2	9.34	128.44	121.90
85	5	2290	C	C5-C4-N4	9.34	126.73	120.20
85	5	2314	U	OP1-P-OP2	-9.34	105.60	119.60
38	8	39	G	N1-C2-N3	9.34	129.50	123.90
75	o9	8	ARG	NE-CZ-NH1	-9.34	115.63	120.30
85	5	1903	U	C4-C5-C6	9.33	125.30	119.70
1	2	767	C	C6-N1-C2	-9.33	116.57	120.30
36	1	683	U	N3-C2-O2	9.33	128.73	122.20
80	6	589	C	C2-N3-C4	9.33	124.57	119.90
85	5	31	C	C5-C6-N1	-9.33	116.33	121.00
85	5	1185	C	N1-C2-N3	9.33	125.73	119.20
85	5	1688	U	N3-C2-O2	-9.33	115.67	122.20
85	5	1733	G	C4-C5-N7	9.33	114.53	110.80
85	5	2206	G	C5-C6-N1	9.33	116.17	111.50
85	5	2356	A	N7-C8-N9	9.33	118.47	113.80
85	5	3046	A	C4-C5-N7	-9.33	106.03	110.70
37	7	84	A	N1-C2-N3	9.33	133.97	129.30
38	8	20	U	C2-N3-C4	-9.33	121.40	127.00
38	8	33	A	O5'-P-OP1	-9.33	97.30	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1152	G	N1-C6-O6	-9.33	114.30	119.90
36	1	886	C	N1-C2-N3	-9.33	112.67	119.20
36	1	3028	G	C5-C6-O6	-9.33	123.00	128.60
85	5	630	A	N1-C2-N3	9.33	133.97	129.30
85	5	1220	U	C5-C6-N1	-9.33	118.03	122.70
36	1	1165	A	N3-C4-C5	9.33	133.33	126.80
36	1	1459	C	C2-N3-C4	-9.33	115.23	119.90
85	5	721	G	C4-C5-C6	9.33	124.40	118.80
85	5	2813	A	O5'-P-OP1	-9.33	97.30	105.70
85	5	2982	A	OP1-P-OP2	-9.33	105.61	119.60
36	1	89	A	C8-N9-C4	-9.33	102.07	105.80
36	1	2181	C	C5-C6-N1	9.33	125.66	121.00
36	1	2645	G	N7-C8-N9	-9.33	108.44	113.10
80	6	261	U	N3-C2-O2	-9.33	115.67	122.20
80	6	1122	G	N1-C6-O6	9.33	125.50	119.90
85	5	660	A	O5'-P-OP1	-9.33	97.31	105.70
85	5	2201	G	C8-N9-C4	9.33	110.13	106.40
38	8	126	A	O5'-P-OP1	9.33	121.89	110.70
1	2	356	G	C8-N9-C4	-9.32	102.67	106.40
36	1	995	U	N3-C4-O4	9.32	125.93	119.40
36	1	1099	A	N1-C2-N3	9.32	133.96	129.30
85	5	2968	G	C4-C5-N7	-9.32	107.07	110.80
1	2	1368	G	C5-N7-C8	-9.32	99.64	104.30
36	1	948	C	N3-C2-O2	9.32	128.43	121.90
36	1	1390	A	C4-C5-N7	-9.32	106.04	110.70
36	1	2200	U	N1-C2-N3	9.32	120.49	114.90
36	1	2858	U	N1-C2-O2	-9.32	116.27	122.80
36	1	3388	C	N1-C2-O2	9.32	124.49	118.90
80	6	1460	A	C8-N9-C4	9.32	109.53	105.80
80	6	1777	G	N3-C4-N9	-9.32	120.41	126.00
85	5	2855	U	N1-C2-N3	9.32	120.49	114.90
1	2	1738	A	C5-C6-N1	-9.32	113.04	117.70
36	1	1514	G	C4-C5-N7	9.32	114.53	110.80
85	5	1063	G	O5'-P-OP2	9.32	121.89	110.70
85	5	3200	G	N7-C8-N9	9.32	117.76	113.10
38	8	47	C	C6-N1-C2	-9.32	116.57	120.30
36	1	1139	G	C4-C5-N7	-9.32	107.07	110.80
36	1	2705	A	N7-C8-N9	-9.32	109.14	113.80
38	4	47	C	N3-C4-N4	-9.32	111.48	118.00
80	6	373	G	C4-C5-N7	-9.32	107.07	110.80
80	6	1214	U	C2-N1-C1'	9.32	128.88	117.70
85	5	369	A	N1-C2-N3	9.32	133.96	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2329	C	N3-C4-N4	9.32	124.52	118.00
85	5	2400	G	OP1-P-OP2	-9.32	105.62	119.60
85	5	3054	U	N3-C2-O2	-9.32	115.68	122.20
85	5	69	C	C6-N1-C2	-9.32	116.57	120.30
85	5	682	U	O5'-P-OP1	-9.32	97.31	105.70
85	5	998	A	N1-C2-N3	9.32	133.96	129.30
36	1	1433	A	N1-C6-N6	-9.32	113.01	118.60
36	1	1527	C	C4-C5-C6	-9.32	112.74	117.40
36	1	2240	G	C5-C6-O6	-9.32	123.01	128.60
36	1	2746	A	C2-N3-C4	-9.32	105.94	110.60
85	5	431	U	C4-C5-C6	9.32	125.29	119.70
85	5	908	G	C8-N9-C4	-9.32	102.67	106.40
85	5	1750	A	C5-N7-C8	-9.32	99.24	103.90
85	5	1897	G	N3-C2-N2	-9.32	113.38	119.90
85	5	2348	A	C4-C5-C6	9.32	121.66	117.00
85	5	3311	C	N3-C4-C5	-9.32	118.17	121.90
38	8	19	C	N1-C2-O2	-9.32	113.31	118.90
36	1	2326	A	N1-C6-N6	-9.31	113.01	118.60
36	1	2984	C	C4-C5-C6	-9.31	112.74	117.40
85	5	529	A	OP1-P-OP2	-9.31	105.63	119.60
85	5	703	G	N7-C8-N9	9.31	117.76	113.10
85	5	980	A	C4-C5-N7	-9.31	106.04	110.70
85	5	2233	A	N1-C2-N3	9.31	133.96	129.30
85	5	3021	A	N7-C8-N9	9.31	118.46	113.80
85	5	3269	U	C5-C4-O4	9.31	131.49	125.90
37	7	62	U	OP1-P-OP2	9.31	133.57	119.60
36	1	3243	A	C8-N9-C4	-9.31	102.08	105.80
37	3	25	G	C8-N9-C4	-9.31	102.67	106.40
80	6	411	C	N3-C2-O2	-9.31	115.38	121.90
36	1	360	G	N3-C4-C5	-9.31	123.94	128.60
36	1	826	G	C2-N3-C4	-9.31	107.24	111.90
37	3	92	A	N1-C2-N3	9.31	133.96	129.30
36	1	3318	G	N1-C2-N3	9.31	129.49	123.90
80	6	874	C	N3-C4-C5	-9.31	118.18	121.90
85	5	958	C	C2-N1-C1'	9.31	129.04	118.80
85	5	1205	A	N3-C4-C5	-9.31	120.28	126.80
85	5	2407	C	N1-C2-O2	-9.31	113.31	118.90
85	5	3020	U	C6-N1-C2	-9.31	115.41	121.00
36	1	621	A	N1-C2-N3	-9.31	124.65	129.30
36	1	1583	A	C4-C5-C6	9.31	121.66	117.00
36	1	2396	G	C5-C6-N1	-9.31	106.85	111.50
36	1	2409	G	OP1-P-OP2	9.31	133.56	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3377	G	C5-C6-O6	-9.31	123.02	128.60
85	5	743	C	N1-C2-N3	9.31	125.72	119.20
85	5	3114	A	N1-C2-N3	9.31	133.96	129.30
36	1	2635	A	N1-C6-N6	-9.31	113.02	118.60
85	5	836	A	C5-C6-N1	9.31	122.35	117.70
85	5	918	C	N1-C2-O2	-9.31	113.32	118.90
1	2	1486	A	N7-C8-N9	9.30	118.45	113.80
36	1	17	G	N9-C4-C5	-9.30	101.68	105.40
36	1	436	A	C4-C5-N7	9.30	115.35	110.70
36	1	909	G	N7-C8-N9	-9.30	108.45	113.10
36	1	1323	G	OP2-P-O3'	9.30	125.67	105.20
36	1	3174	A	C5-C6-N1	-9.30	113.05	117.70
36	1	3272	C	C2-N3-C4	9.31	124.55	119.90
80	6	755	A	C5-N7-C8	-9.30	99.25	103.90
85	5	514	G	C5-C6-O6	-9.31	123.02	128.60
85	5	836	A	C6-N1-C2	-9.31	113.02	118.60
85	5	2824	G	C6-C5-N7	-9.31	124.82	130.40
36	1	1147	G	C4-C5-N7	-9.30	107.08	110.80
36	1	1438	U	N1-C2-N3	9.30	120.48	114.90
85	5	946	U	N3-C4-C5	-9.30	109.02	114.60
85	5	974	G	O5'-P-OP2	-9.30	97.33	105.70
85	5	1778	G	C5-C6-N1	9.30	116.15	111.50
39	12	23	ARG	NE-CZ-NH1	-9.30	115.65	120.30
36	1	2183	A	C5-C6-N6	-9.30	116.26	123.70
85	5	1147	G	C5-C6-O6	9.30	134.18	128.60
1	2	1065	C	N3-C4-C5	-9.30	118.18	121.90
36	1	616	G	C5-C6-O6	-9.30	123.02	128.60
85	5	41	G	N9-C4-C5	-9.30	101.68	105.40
85	5	1417	G	C4-C5-N7	9.30	114.52	110.80
85	5	2280	A	C8-N9-C4	-9.30	102.08	105.80
37	7	38	U	C5-C4-O4	-9.30	120.32	125.90
36	1	834	U	C4-C5-C6	9.30	125.28	119.70
85	5	3373	U	N1-C2-N3	9.30	120.48	114.90
1	2	1440	C	OP1-P-OP2	-9.30	105.66	119.60
1	2	1715	A	N1-C6-N6	-9.30	113.02	118.60
36	1	1808	G	C5-N7-C8	9.30	108.95	104.30
36	1	1869	C	N3-C4-N4	9.30	124.51	118.00
36	1	3330	A	C8-N9-C4	-9.30	102.08	105.80
36	1	401	U	N1-C2-O2	9.29	129.31	122.80
36	1	790	U	N1-C2-O2	9.29	129.31	122.80
36	1	1502	C	N3-C4-C5	-9.30	118.18	121.90
36	1	2116	G	C4-C5-N7	-9.30	107.08	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	308	A	C4-C5-C6	9.30	121.65	117.00
85	5	644	G	C4-C5-C6	9.30	124.38	118.80
36	1	2396	G	C2-N3-C4	-9.29	107.25	111.90
85	5	1366	A	C8-N9-C4	-9.29	102.08	105.80
85	5	1657	C	N1-C2-O2	9.30	124.48	118.90
1	2	1736	A	N1-C6-N6	9.29	124.18	118.60
36	1	1345	G	N1-C6-O6	9.29	125.48	119.90
85	5	1735	G	N1-C6-O6	9.29	125.48	119.90
80	6	272	U	C5-C4-O4	-9.29	120.33	125.90
85	5	1147	G	N9-C4-C5	9.29	109.12	105.40
85	5	1316	C	O4'-C1'-N1	-9.29	100.77	108.20
85	5	1713	G	N1-C6-O6	-9.29	114.33	119.90
38	8	112	U	N3-C2-O2	9.29	128.71	122.20
85	5	2848	G	N3-C2-N2	-9.29	113.40	119.90
85	5	3327	G	N3-C4-N9	-9.29	120.42	126.00
36	1	159	A	N3-C4-C5	9.29	133.30	126.80
36	1	1757	A	C5-C6-N1	-9.29	113.06	117.70
36	1	2241	U	N1-C2-O2	-9.29	116.30	122.80
85	5	283	G	O4'-C1'-N9	-9.29	100.77	108.20
1	2	1500	U	C4-C5-C6	9.29	125.27	119.70
36	1	1166	G	C5-N7-C8	-9.29	99.66	104.30
80	6	408	C	N3-C2-O2	-9.29	115.40	121.90
85	5	504	A	C4-C5-N7	9.29	115.34	110.70
85	5	991	G	C5-N7-C8	-9.29	99.66	104.30
85	5	1404	G	N3-C4-C5	9.29	133.24	128.60
85	5	1873	U	C6-N1-C2	-9.29	115.43	121.00
85	5	2113	A	N1-C6-N6	-9.29	113.03	118.60
85	5	3095	U	N1-C2-O2	-9.29	116.30	122.80
38	8	62	C	C4-C5-C6	-9.29	112.76	117.40
36	1	597	G	C6-N1-C2	-9.29	119.53	125.10
36	1	1316	C	C4-C5-C6	9.29	122.04	117.40
36	1	3130	A	C8-N9-C4	-9.29	102.09	105.80
38	4	116	G	N3-C4-C5	9.29	133.24	128.60
85	5	657	A	C6-C5-N7	-9.29	125.80	132.30
85	5	2316	G	N9-C4-C5	9.29	109.11	105.40
85	5	2703	A	C8-N9-C4	-9.29	102.09	105.80
85	5	2734	A	C2-N3-C4	-9.29	105.96	110.60
37	7	9	C	N1-C2-N3	9.29	125.70	119.20
1	2	1309	A	C5-C6-N1	9.28	122.34	117.70
1	2	1486	A	N1-C6-N6	9.28	124.17	118.60
36	1	337	G	C6-C5-N7	-9.28	124.83	130.40
36	1	1103	A	N3-C4-N9	9.28	134.83	127.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	140	G	C2-N3-C4	-9.28	107.26	111.90
36	1	1129	A	C6-N1-C2	-9.28	113.03	118.60
36	1	2185	G	C8-N9-C4	-9.28	102.69	106.40
36	1	3045	G	C4-C5-C6	9.28	124.37	118.80
36	1	3335	A	C5-C6-N6	-9.28	116.28	123.70
37	3	110	G	C5-N7-C8	9.28	108.94	104.30
80	6	143	G	C5-N7-C8	-9.28	99.66	104.30
80	6	1729	C	C2-N3-C4	-9.28	115.26	119.90
85	5	1779	C	C6-N1-C2	-9.28	116.59	120.30
1	2	851	G	C8-N9-C4	-9.28	102.69	106.40
85	5	1415	U	N3-C4-O4	9.28	125.90	119.40
1	2	1519	G	N3-C2-N2	9.28	126.39	119.90
36	1	405	U	C6-N1-C1'	-9.28	108.21	121.20
36	1	507	U	C6-N1-C2	-9.28	115.43	121.00
36	1	1459	C	N3-C4-C5	-9.28	118.19	121.90
37	3	104	A	C2-N3-C4	-9.28	105.96	110.60
38	4	140	G	N3-C2-N2	-9.28	113.40	119.90
80	6	1550	A	C4-C5-N7	9.28	115.34	110.70
85	5	2259	A	C5-C6-N1	-9.28	113.06	117.70
85	5	361	A	C8-N9-C4	9.28	109.51	105.80
85	5	604	G	C5-C6-O6	-9.28	123.03	128.60
85	5	616	G	N1-C2-N3	9.28	129.47	123.90
36	1	319	A	O5'-P-OP2	9.28	121.83	110.70
36	1	905	U	N1-C2-N3	9.28	120.47	114.90
36	1	2705	A	C5-C6-N1	9.28	122.34	117.70
80	6	102	U	O5'-P-OP1	-9.28	97.35	105.70
80	6	962	C	C5-C6-N1	-9.28	116.36	121.00
80	6	1514	U	N3-C2-O2	-9.28	115.71	122.20
85	5	1718	G	C5-C6-N1	-9.28	106.86	111.50
85	5	3361	G	C5-C6-N1	-9.28	106.86	111.50
85	5	2189	U	N1-C2-O2	-9.28	116.31	122.80
40	l3	36	ASP	CB-CG-OD1	-9.28	109.95	118.30
36	1	787	G	C6-N1-C2	-9.27	119.54	125.10
37	3	73	C	N1-C2-O2	9.27	124.47	118.90
36	1	642	U	N3-C4-C5	9.27	120.16	114.60
36	1	647	A	O5'-P-OP1	9.27	121.83	110.70
36	1	675	C	N1-C2-N3	9.27	125.69	119.20
36	1	2390	A	N1-C6-N6	-9.27	113.04	118.60
36	1	2643	A	C4-C5-N7	9.27	115.34	110.70
80	6	1481	C	C6-N1-C2	-9.27	116.59	120.30
85	5	576	C	O5'-P-OP2	-9.27	97.35	105.70
36	1	1367	G	C4-C5-N7	9.27	114.51	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2836	C	C5-C4-N4	9.27	126.69	120.20
80	6	1150	G	N9-C4-C5	-9.27	101.69	105.40
85	5	782	U	N3-C4-O4	9.27	125.89	119.40
85	5	2256	A	C4-C5-C6	-9.27	112.36	117.00
85	5	3388	C	N1-C2-N3	9.27	125.69	119.20
37	7	19	C	O5'-P-OP2	-9.27	97.36	105.70
1	2	808	U	C5-C6-N1	9.27	127.33	122.70
36	1	100	A	C2-N3-C4	-9.27	105.97	110.60
36	1	396	A	C5-C6-N1	9.27	122.33	117.70
36	1	1117	G	C6-N1-C2	-9.27	119.54	125.10
36	1	1349	G	N3-C2-N2	-9.27	113.41	119.90
85	5	116	A	O5'-P-OP1	-9.27	97.36	105.70
85	5	991	G	N7-C8-N9	9.27	117.73	113.10
85	5	1113	G	C4-C5-N7	-9.27	107.09	110.80
85	5	2871	G	C5-C6-O6	9.27	134.16	128.60
37	3	86	U	N3-C4-C5	9.27	120.16	114.60
1	2	1190	C	C4-C5-C6	9.27	122.03	117.40
36	1	971	G	C4-C5-N7	9.27	114.51	110.80
36	1	1874	A	O5'-P-OP1	-9.27	97.36	105.70
36	1	2303	A	OP1-P-OP2	-9.27	105.70	119.60
80	6	1315	U	N1-C2-N3	9.27	120.46	114.90
85	5	438	A	C6-N1-C2	9.27	124.16	118.60
85	5	1149	G	N9-C4-C5	9.27	109.11	105.40
85	5	2157	G	C6-N1-C2	-9.27	119.54	125.10
37	7	62	U	O5'-P-OP2	-9.27	97.36	105.70
36	1	217	U	OP2-P-O3'	-9.26	84.82	105.20
36	1	395	A	N7-C8-N9	9.26	118.43	113.80
85	5	2825	C	C5-C4-N4	-9.26	113.72	120.20
37	7	72	A	C8-N9-C4	9.26	109.51	105.80
36	1	557	A	C5-C6-N6	9.26	131.11	123.70
36	1	964	G	OP1-P-OP2	-9.26	105.71	119.60
36	1	2808	A	C6-C5-N7	-9.26	125.82	132.30
85	5	1841	A	C5-N7-C8	-9.26	99.27	103.90
91	P	74	C	N1-C2-O2	-9.26	113.34	118.90
36	1	2169	G	C5-C6-O6	9.26	134.16	128.60
36	1	2613	U	C4-C5-C6	9.26	125.26	119.70
85	5	1521	G	N1-C6-O6	-9.26	114.34	119.90
1	2	569	C	C5-C6-N1	-9.26	116.37	121.00
36	1	378	A	O5'-P-OP2	-9.26	97.37	105.70
36	1	392	G	N1-C2-N3	-9.26	118.35	123.90
36	1	1207	G	N9-C4-C5	-9.26	101.70	105.40
36	1	1476	G	C8-N9-C4	9.26	110.10	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2651	G	N1-C2-N3	9.26	129.46	123.90
36	1	3101	G	C6-C5-N7	9.26	135.95	130.40
85	5	404	G	N3-C2-N2	-9.26	113.42	119.90
80	6	451	A	N1-C6-N6	9.26	124.15	118.60
80	6	1000	C	C2-N1-C1'	9.26	128.98	118.80
85	5	298	U	O5'-P-OP2	-9.26	97.37	105.70
85	5	499	G	N1-C6-O6	9.26	125.45	119.90
85	5	1183	C	OP2-P-O3'	9.26	125.56	105.20
85	5	1376	C	N3-C2-O2	-9.26	115.42	121.90
85	5	1925	U	C5-C6-N1	9.26	127.33	122.70
36	1	359	U	N3-C2-O2	-9.25	115.72	122.20
36	1	831	G	C4-C5-N7	-9.25	107.10	110.80
36	1	2534	G	C8-N9-C4	-9.25	102.70	106.40
80	6	22	A	C2-N3-C4	9.25	115.23	110.60
85	5	3230	G	N1-C2-N3	9.25	129.45	123.90
80	6	1529	C	C5-C6-N1	9.25	125.63	121.00
85	5	2377	G	C8-N9-C4	9.25	110.10	106.40
85	5	2794	G	C6-N1-C2	-9.25	119.55	125.10
91	p	74	C	N1-C2-O2	-9.25	113.35	118.90
36	1	498	A	N9-C4-C5	9.25	109.50	105.80
36	1	627	U	N3-C2-O2	9.25	128.68	122.20
36	1	1030	A	C8-N9-C4	9.25	109.50	105.80
36	1	1429	G	N7-C8-N9	-9.25	108.47	113.10
36	1	1536	G	N1-C2-N3	9.25	129.45	123.90
36	1	2778	G	C5-N7-C8	-9.25	99.67	104.30
36	1	2943	G	O5'-P-OP2	-9.25	97.38	105.70
36	1	3349	C	C5-C6-N1	9.25	125.63	121.00
80	6	315	A	C5-C6-N1	9.25	122.33	117.70
85	5	651	G	C6-C5-N7	-9.25	124.85	130.40
85	5	3302	U	N1-C2-O2	-9.25	116.32	122.80
85	5	1450	G	N1-C2-N2	9.25	124.52	116.20
85	5	2379	U	N1-C2-O2	-9.25	116.33	122.80
1	2	996	A	N1-C6-N6	-9.25	113.05	118.60
36	1	649	A	C2-N3-C4	-9.25	105.98	110.60
36	1	1822	C	N1-C2-N3	9.25	125.67	119.20
80	6	1131	A	N9-C4-C5	9.25	109.50	105.80
80	6	1741	U	C5-C6-N1	9.25	127.32	122.70
85	5	1458	U	C5-C6-N1	9.25	127.32	122.70
85	5	2157	G	C5-C6-O6	-9.25	123.05	128.60
80	6	1145	U	C6-N1-C2	-9.25	115.45	121.00
85	5	599	C	C5-C4-N4	-9.25	113.73	120.20
85	5	1874	A	C2-N3-C4	-9.25	105.98	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	63	G	O5'-P-OP2	-9.25	97.38	105.70
36	1	1859	A	N1-C2-N3	9.24	133.92	129.30
36	1	2413	A	C5-C6-N1	9.24	122.32	117.70
80	6	1742	U	N3-C4-C5	-9.24	109.05	114.60
38	8	104	A	N1-C6-N6	-9.24	113.05	118.60
36	1	901	G	OP1-P-OP2	-9.24	105.74	119.60
85	5	984	G	C4-C5-C6	9.24	124.35	118.80
38	8	90	U	N3-C2-O2	9.24	128.67	122.20
80	6	431	C	N3-C4-N4	-9.24	111.53	118.00
85	5	418	A	C5-C6-N6	-9.24	116.31	123.70
85	5	668	G	C4-C5-N7	-9.24	107.10	110.80
36	1	2160	G	C5-N7-C8	9.24	108.92	104.30
36	1	2837	A	C4-C5-C6	9.24	121.62	117.00
36	1	3265	C	N1-C2-O2	-9.24	113.36	118.90
80	6	425	A	C4-C5-C6	-9.24	112.38	117.00
1	2	461	G	N1-C6-O6	9.24	125.44	119.90
36	1	137	G	O5'-P-OP1	-9.24	97.38	105.70
36	1	2399	A	C2-N3-C4	9.24	115.22	110.60
85	5	1115	G	C4-N9-C1'	9.24	138.51	126.50
36	1	200	C	N1-C2-O2	-9.24	113.36	118.90
36	1	1429	G	C4-C5-N7	-9.24	107.10	110.80
85	5	48	A	C5-C6-N1	9.24	122.32	117.70
85	5	326	U	N3-C4-O4	9.24	125.87	119.40
85	5	3051	U	C4-C5-C6	-9.24	114.16	119.70
85	5	3350	C	N3-C2-O2	9.24	128.37	121.90
1	2	1152	G	C5-C6-N1	9.24	116.12	111.50
1	2	1638	A	N1-C2-N3	9.24	133.92	129.30
36	1	338	A	C2-N3-C4	-9.24	105.98	110.60
36	1	1044	U	O5'-P-OP1	9.24	121.78	110.70
80	6	610	G	C5-C6-O6	-9.24	123.06	128.60
85	5	311	C	N3-C4-C5	9.24	125.59	121.90
85	5	336	A	N1-C2-N3	-9.24	124.68	129.30
85	5	1321	G	N1-C2-N3	9.24	129.44	123.90
85	5	2507	C	C2-N3-C4	9.24	124.52	119.90
85	5	2968	G	C5-C6-O6	9.24	134.14	128.60
1	2	565	C	N1-C2-O2	9.23	124.44	118.90
1	2	594	A	C2-N3-C4	9.23	115.22	110.60
36	1	1539	A	O5'-P-OP2	-9.23	97.39	105.70
36	1	2419	A	C5-C6-N1	-9.23	113.08	117.70
36	1	1105	A	C5-C6-N1	-9.23	113.08	117.70
37	3	5	G	C6-C5-N7	9.23	135.94	130.40
85	5	1101	G	C8-N9-C4	9.23	110.09	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1388	U	N3-C2-O2	9.23	128.66	122.20
85	5	3088	G	N1-C2-N3	9.23	129.44	123.90
1	2	945	C	C6-N1-C2	-9.23	116.61	120.30
36	1	1351	U	C6-N1-C2	-9.23	115.46	121.00
36	1	1612	A	C8-N9-C4	-9.23	102.11	105.80
36	1	195	U	N3-C4-C5	9.23	120.14	114.60
36	1	633	C	C6-N1-C2	9.23	123.99	120.30
36	1	1629	U	N1-C2-N3	9.23	120.44	114.90
36	1	2385	G	N1-C2-N2	9.23	124.51	116.20
36	1	2524	A	O5'-P-OP2	-9.23	97.39	105.70
36	1	2928	C	C5-C6-N1	-9.23	116.39	121.00
38	4	83	C	N1-C2-O2	-9.23	113.36	118.90
80	6	528	U	C5-C6-N1	-9.23	118.08	122.70
85	5	767	U	N3-C4-O4	-9.23	112.94	119.40
85	5	1292	C	C6-N1-C2	9.23	123.99	120.30
85	5	1054	A	C5-C6-N1	-9.23	113.08	117.70
85	5	1345	G	OP1-P-OP2	-9.23	105.75	119.60
85	5	1460	A	O5'-P-OP2	-9.23	97.39	105.70
85	5	1881	A	C4-C5-C6	9.23	121.61	117.00
85	5	2247	G	O5'-P-OP1	9.23	121.78	110.70
85	5	2709	C	O5'-P-OP2	-9.23	97.39	105.70
64	n8	42	ARG	NE-CZ-NH2	-9.23	115.68	120.30
36	1	331	G	C8-N9-C4	-9.23	102.71	106.40
36	1	147	U	O5'-P-OP1	-9.23	97.40	105.70
36	1	339	C	O5'-P-OP1	-9.23	97.39	105.70
36	1	2125	A	C5-C6-N6	-9.23	116.32	123.70
80	6	1774	G	N1-C6-O6	-9.23	114.36	119.90
36	1	286	U	N1-C2-N3	9.23	120.44	114.90
36	1	355	A	O5'-P-OP1	-9.23	97.40	105.70
36	1	2742	C	N3-C2-O2	9.23	128.36	121.90
37	3	20	A	N7-C8-N9	9.23	118.41	113.80
38	4	123	G	C4-C5-N7	9.23	114.49	110.80
80	6	1150	G	C5-C6-O6	-9.23	123.06	128.60
85	5	1404	G	N7-C8-N9	9.23	117.71	113.10
85	5	1426	C	C6-N1-C2	9.23	123.99	120.30
85	5	1551	C	C4-C5-C6	9.23	122.01	117.40
85	5	3206	C	C6-N1-C2	-9.23	116.61	120.30
1	2	433	C	N3-C4-N4	9.22	124.46	118.00
36	1	2797	C	C5-C6-N1	-9.22	116.39	121.00
37	7	4	U	C5-C6-N1	-9.22	118.09	122.70
36	1	11	A	C2-N3-C4	-9.22	105.99	110.60
36	1	21	G	N1-C2-N2	-9.22	107.90	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1104	G	O5'-P-OP2	9.22	121.77	110.70
36	1	2315	G	N3-C4-C5	-9.22	123.99	128.60
36	1	711	A	C4-C5-N7	-9.22	106.09	110.70
36	1	2953	U	N1-C2-O2	-9.22	116.34	122.80
85	5	571	U	C2-N3-C4	-9.22	121.47	127.00
85	5	2290	C	N3-C4-C5	-9.22	118.21	121.90
85	5	2780	A	C2-N3-C4	-9.22	105.99	110.60
36	1	2888	U	C5-C6-N1	-9.22	118.09	122.70
36	1	3285	C	C4-C5-C6	-9.22	112.79	117.40
80	6	1122	G	C8-N9-C4	9.22	110.09	106.40
85	5	1536	G	C5-C6-O6	-9.22	123.07	128.60
85	5	1709	C	C5-C6-N1	-9.22	116.39	121.00
85	5	2846	U	C6-N1-C2	-9.22	115.47	121.00
36	1	1224	C	C6-N1-C2	-9.22	116.61	120.30
36	1	1905	G	N1-C2-N3	9.22	129.43	123.90
36	1	2295	A	O5'-P-OP2	-9.22	97.40	105.70
36	1	2326	A	N3-C4-C5	9.22	133.25	126.80
36	1	2724	U	O5'-P-OP1	9.22	121.76	110.70
80	6	897	C	N1-C2-N3	9.22	125.65	119.20
80	6	1286	U	C5-C6-N1	-9.22	118.09	122.70
85	5	755	A	C5-N7-C8	-9.22	99.29	103.90
85	5	812	G	C2-N3-C4	-9.22	107.29	111.90
85	5	1439	U	C6-N1-C2	9.22	126.53	121.00
85	5	2402	A	N1-C6-N6	-9.22	113.07	118.60
85	5	926	A	N1-C2-N3	9.22	133.91	129.30
85	5	1929	G	N1-C2-N3	9.22	129.43	123.90
85	5	2137	U	C5-C6-N1	-9.22	118.09	122.70
85	5	2973	G	N3-C2-N2	-9.22	113.45	119.90
85	5	3214	U	N3-C4-C5	9.22	120.13	114.60
1	2	88	U	N1-C2-N3	9.22	120.43	114.90
36	1	2778	G	C2-N3-C4	-9.22	107.29	111.90
36	1	1195	A	C6-N1-C2	-9.21	113.07	118.60
36	1	2772	C	N1-C2-O2	9.21	124.43	118.90
36	1	3379	C	N1-C2-O2	-9.21	113.37	118.90
80	6	703	G	N1-C6-O6	9.21	125.43	119.90
85	5	352	A	C8-N9-C4	-9.22	102.11	105.80
85	5	103	G	O5'-P-OP1	-9.21	97.41	105.70
85	5	2278	C	OP1-P-O3'	9.21	125.47	105.20
36	1	523	A	N7-C8-N9	-9.21	109.19	113.80
36	1	1135	A	N1-C2-N3	9.21	133.91	129.30
36	1	1403	C	C6-N1-C2	9.21	123.98	120.30
36	1	3207	U	N3-C4-O4	-9.21	112.95	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	52	A	C4-C5-N7	-9.21	106.09	110.70
80	6	1354	G	C8-N9-C4	-9.21	102.72	106.40
36	1	859	G	N7-C8-N9	9.21	117.70	113.10
36	1	1371	G	C8-N9-C1'	-9.21	115.03	127.00
36	1	1521	G	C2-N3-C4	-9.21	107.29	111.90
36	1	2232	A	C2-N3-C4	-9.21	106.00	110.60
36	1	2314	U	N1-C2-O2	9.21	129.25	122.80
36	1	2979	U	C5-C6-N1	-9.21	118.09	122.70
38	4	80	A	N1-C6-N6	-9.21	113.07	118.60
85	5	2952	G	C2-N3-C4	-9.21	107.29	111.90
85	5	3266	G	C4-C5-N7	-9.21	107.11	110.80
36	1	2808	A	O4'-C1'-N9	-9.21	100.83	108.20
80	6	1550	A	N1-C6-N6	9.21	124.13	118.60
85	5	1053	A	C5-N7-C8	-9.21	99.30	103.90
85	5	1124	U	N1-C2-N3	9.21	120.43	114.90
36	1	1656	A	C4-C5-N7	-9.21	106.09	110.70
36	1	1675	G	N1-C2-N3	-9.21	118.37	123.90
80	6	403	G	C5-N7-C8	-9.21	99.70	104.30
80	6	561	G	O5'-P-OP2	-9.21	97.41	105.70
85	5	1086	C	N3-C4-C5	-9.21	118.22	121.90
36	1	44	U	N3-C2-O2	-9.21	115.75	122.20
36	1	2377	G	C8-N9-C4	-9.21	102.72	106.40
36	1	2387	A	N3-C4-C5	9.21	133.25	126.80
36	1	2636	A	C5-N7-C8	-9.21	99.30	103.90
36	1	2955	U	C5-C6-N1	-9.21	118.10	122.70
85	5	47	C	N3-C4-N4	9.21	124.44	118.00
85	5	875	G	C8-N9-C4	-9.21	102.72	106.40
85	5	1306	G	OP1-P-O3'	9.21	125.46	105.20
85	5	2403	G	N1-C2-N2	9.21	124.49	116.20
85	5	2641	U	C2-N3-C4	9.21	132.53	127.00
85	5	2861	U	C4-C5-C6	9.21	125.22	119.70
85	5	3336	A	N1-C2-N3	9.21	133.90	129.30
36	1	661	G	N1-C2-N3	9.21	129.42	123.90
36	1	852	U	N3-C4-C5	-9.21	109.08	114.60
36	1	966	U	C6-N1-C2	-9.21	115.48	121.00
80	6	1627	U	OP1-P-OP2	-9.21	105.79	119.60
36	1	2647	A	C6-C5-N7	-9.20	125.86	132.30
36	1	3274	A	N1-C2-N3	9.21	133.90	129.30
85	5	438	A	C5-C6-N1	-9.21	113.10	117.70
85	5	835	G	C6-N1-C2	-9.20	119.58	125.10
85	5	1127	G	N1-C6-O6	-9.20	114.38	119.90
85	5	2126	A	C8-N9-C4	9.21	109.48	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2964	G	N1-C2-N3	9.20	129.42	123.90
37	3	101	G	C5-C6-N1	-9.20	106.90	111.50
38	4	67	U	N1-C2-N3	9.20	120.42	114.90
54	M8	41	ASP	CB-CG-OD1	9.20	126.58	118.30
80	6	1415	U	C5-C6-N1	9.20	127.30	122.70
85	5	792	G	C8-N9-C4	9.20	110.08	106.40
1	2	407	A	C4-C5-N7	-9.20	106.10	110.70
1	2	836	G	C4-C5-N7	9.20	114.48	110.80
36	1	728	G	O5'-P-OP2	-9.20	97.42	105.70
36	1	802	C	O5'-P-OP2	9.20	121.74	110.70
36	1	1434	G	C5-C6-O6	-9.20	123.08	128.60
36	1	3284	G	C8-N9-C4	-9.20	102.72	106.40
80	6	1789	G	N3-C4-C5	-9.20	124.00	128.60
85	5	788	C	N1-C2-N3	9.20	125.64	119.20
85	5	1177	G	OP1-P-OP2	-9.20	105.80	119.60
85	5	2751	G	C6-C5-N7	-9.20	124.88	130.40
85	5	3177	G	N3-C4-C5	9.20	133.20	128.60
85	5	3309	G	C4-N9-C1'	9.20	138.46	126.50
1	2	1572	C	N3-C4-N4	-9.20	111.56	118.00
85	5	775	A	N7-C8-N9	9.20	118.40	113.80
85	5	2315	G	C8-N9-C4	-9.20	102.72	106.40
85	5	3124	G	N7-C8-N9	9.20	117.70	113.10
1	2	1459	C	C6-N1-C2	9.20	123.98	120.30
36	1	189	G	N1-C2-N3	9.19	129.42	123.90
36	1	890	C	O5'-P-OP1	9.20	121.73	110.70
36	1	983	A	C8-N9-C4	9.20	109.48	105.80
85	5	291	C	N1-C2-N3	9.20	125.64	119.20
85	5	561	C	C6-N1-C2	-9.19	116.62	120.30
85	5	1198	C	O5'-P-OP2	9.20	121.73	110.70
85	5	1673	G	C8-N9-C4	-9.20	102.72	106.40
85	5	1924	U	N3-C2-O2	-9.19	115.76	122.20
85	5	3307	A	C2-N3-C4	-9.20	106.00	110.60
85	5	3385	U	OP1-P-OP2	9.19	133.39	119.60
1	2	1100	U	N3-C2-O2	9.19	128.63	122.20
1	2	1716	C	N3-C4-C5	-9.19	118.22	121.90
36	1	260	C	N3-C2-O2	9.19	128.33	121.90
36	1	440	A	C2-N3-C4	9.19	115.19	110.60
36	1	1335	C	O5'-P-OP2	-9.19	97.43	105.70
36	1	2380	U	C5-C6-N1	9.19	127.30	122.70
36	1	2824	G	N1-C6-O6	9.19	125.42	119.90
85	5	589	A	N1-C6-N6	9.19	124.11	118.60
85	5	718	G	C6-N1-C2	-9.19	119.58	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1303	A	C4-C5-N7	9.19	115.30	110.70
85	5	2611	U	C4-C5-C6	9.19	125.22	119.70
38	8	17	A	C5-N7-C8	-9.19	99.30	103.90
36	1	345	G	C5-N7-C8	9.19	108.89	104.30
36	1	1177	G	O5'-P-OP1	-9.19	97.43	105.70
36	1	2283	G	C5-N7-C8	-9.19	99.70	104.30
85	5	363	G	C5-C6-N1	9.19	116.09	111.50
85	5	670	C	N3-C2-O2	9.19	128.33	121.90
85	5	953	G	C4-C5-N7	9.19	114.48	110.80
80	6	984	G	N3-C4-N9	-9.19	120.49	126.00
85	5	988	U	N1-C2-N3	9.19	120.41	114.90
85	5	1281	G	C8-N9-C1'	9.19	138.95	127.00
85	5	1488	G	N3-C2-N2	-9.19	113.47	119.90
85	5	1541	G	O5'-P-OP2	-9.19	97.43	105.70
85	5	1897	G	C4-C5-C6	9.19	124.31	118.80
85	5	2405	C	C4-C5-C6	9.19	122.00	117.40
85	5	2634	U	C2-N3-C4	-9.19	121.49	127.00
85	5	2988	C	C5-C6-N1	-9.19	116.41	121.00
85	5	530	G	C5-C6-N1	9.19	116.09	111.50
85	5	1846	C	O5'-P-OP2	-9.19	97.43	105.70
85	5	2889	C	O5'-P-OP2	9.19	121.72	110.70
1	2	1500	U	N3-C4-C5	-9.19	109.09	114.60
36	1	1838	G	OP1-P-OP2	-9.19	105.82	119.60
36	1	2657	A	C5-C6-N6	9.19	131.05	123.70
80	6	1455	G	C2-N3-C4	-9.19	107.31	111.90
85	5	1158	A	O5'-P-OP2	-9.19	97.43	105.70
85	5	1893	A	OP2-P-O3'	9.19	125.41	105.20
36	1	96	G	N7-C8-N9	9.18	117.69	113.10
36	1	388	G	C6-C5-N7	-9.18	124.89	130.40
36	1	781	G	N1-C2-N2	9.18	124.47	116.20
36	1	2364	G	N9-C4-C5	9.18	109.07	105.40
36	1	2650	U	OP1-P-OP2	9.18	133.38	119.60
85	5	144	A	O5'-P-OP1	9.18	121.72	110.70
85	5	172	G	N1-C6-O6	-9.18	114.39	119.90
36	1	2372	A	C4-C5-C6	9.18	121.59	117.00
80	6	1096	C	OP1-P-OP2	-9.18	105.83	119.60
80	6	1306	C	C6-N1-C2	-9.18	116.63	120.30
85	5	2208	A	C5-N7-C8	9.18	108.49	103.90
85	5	2425	G	C6-N1-C2	9.18	130.61	125.10
85	5	645	A	N3-C4-C5	-9.18	120.37	126.80
85	5	1413	G	N3-C4-C5	9.18	133.19	128.60
36	1	231	G	C5-C6-N1	9.18	116.09	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	658	G	N3-C2-N2	-9.18	113.47	119.90
36	1	2307	G	N1-C2-N3	9.18	129.41	123.90
36	1	2349	U	C2-N3-C4	-9.18	121.49	127.00
36	1	2724	U	N3-C4-O4	9.18	125.83	119.40
36	1	2775	U	C5-C6-N1	-9.18	118.11	122.70
37	3	69	C	C6-N1-C2	-9.18	116.63	120.30
85	5	1153	A	N1-C6-N6	-9.18	113.09	118.60
85	5	2832	C	N3-C4-C5	-9.18	118.23	121.90
36	1	3054	U	C5-C4-O4	9.18	131.41	125.90
38	4	43	A	C4-C5-N7	9.18	115.29	110.70
80	6	364	G	N1-C6-O6	9.18	125.41	119.90
80	6	423	G	N3-C4-C5	9.18	133.19	128.60
80	6	1148	C	N1-C2-N3	9.18	125.62	119.20
85	5	307	A	C2-N3-C4	-9.18	106.01	110.60
85	5	3294	A	N3-C4-C5	-9.18	120.37	126.80
85	5	3335	A	C4-C5-N7	9.18	115.29	110.70
85	5	974	G	C6-N1-C2	-9.18	119.59	125.10
1	2	372	G	C8-N9-C4	-9.18	102.73	106.40
1	2	1752	U	O5'-P-OP2	-9.18	97.44	105.70
36	1	800	G	N3-C4-C5	9.18	133.19	128.60
36	1	856	G	N3-C4-C5	-9.18	124.01	128.60
37	3	70	U	O5'-P-OP2	-9.18	97.44	105.70
36	1	989	A	N3-C4-C5	9.18	133.22	126.80
36	1	2530	G	C2-N3-C4	9.18	116.49	111.90
80	6	636	A	C8-N9-C4	9.18	109.47	105.80
85	5	282	G	N7-C8-N9	9.18	117.69	113.10
85	5	1660	C	C5-C6-N1	9.18	125.59	121.00
85	5	3176	G	N1-C2-N3	9.18	129.41	123.90
36	1	242	C	C5-C6-N1	9.17	125.59	121.00
80	6	1722	A	N7-C8-N9	-9.17	109.21	113.80
85	5	1160	C	N3-C4-N4	-9.17	111.58	118.00
85	5	1412	G	OP1-P-OP2	-9.17	105.84	119.60
85	5	1674	G	N1-C6-O6	-9.17	114.40	119.90
36	1	937	G	C8-N9-C4	-9.17	102.73	106.40
36	1	1194	G	O5'-P-OP2	-9.17	97.45	105.70
36	1	1411	C	C6-N1-C2	-9.17	116.63	120.30
36	1	3342	A	N1-C6-N6	9.17	124.10	118.60
38	4	125	U	O5'-P-OP2	9.17	121.71	110.70
38	4	130	C	N3-C4-N4	9.17	124.42	118.00
80	6	1601	G	C5-C6-O6	-9.17	123.10	128.60
85	5	178	U	N3-C4-O4	9.17	125.82	119.40
85	5	785	G	OP1-P-OP2	-9.17	105.84	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	805	G	N1-C6-O6	-9.17	114.40	119.90
85	5	1133	A	OP2-P-O3'	9.17	125.37	105.20
85	5	3214	U	N3-C2-O2	-9.17	115.78	122.20
1	2	594	A	C5-N7-C8	9.17	108.48	103.90
36	1	422	A	N1-C2-N3	9.17	133.88	129.30
36	1	1753	G	C6-C5-N7	-9.17	124.90	130.40
36	1	2315	G	N9-C4-C5	9.17	109.07	105.40
85	5	1370	G	C5-C6-N1	9.17	116.08	111.50
85	5	2652	U	C4-C5-C6	-9.17	114.20	119.70
38	8	125	U	N1-C2-O2	9.17	129.22	122.80
85	5	2617	U	C4-C5-C6	9.16	125.20	119.70
85	5	3208	G	N1-C6-O6	-9.16	114.40	119.90
85	5	3305	A	C5-C6-N6	9.16	131.03	123.70
36	1	1429	G	C5-N7-C8	9.16	108.88	104.30
36	1	3266	G	N1-C6-O6	-9.16	114.40	119.90
80	6	1011	G	C5-C6-O6	-9.16	123.10	128.60
80	6	1147	A	N9-C4-C5	9.16	109.47	105.80
85	5	774	G	C8-N9-C1'	-9.16	115.08	127.00
85	5	372	A	O5'-P-OP1	-9.16	97.45	105.70
85	5	3098	G	N1-C6-O6	9.16	125.40	119.90
1	2	291	G	C5-C6-O6	-9.16	123.10	128.60
1	2	334	G	N1-C6-O6	9.16	125.40	119.90
36	1	3361	G	N3-C4-C5	-9.16	124.02	128.60
80	6	448	C	N1-C2-N3	9.16	125.61	119.20
80	6	635	A	N1-C2-N3	9.16	133.88	129.30
85	5	873	C	C2-N1-C1'	9.16	128.88	118.80
85	5	3065	G	C5-C6-N1	-9.16	106.92	111.50
38	8	96	A	C5-C6-N6	-9.16	116.37	123.70
36	1	211	A	C5-N7-C8	-9.16	99.32	103.90
36	1	771	A	C5-N7-C8	-9.16	99.32	103.90
36	1	967	A	N3-C4-N9	-9.16	120.07	127.40
36	1	890	C	O5'-P-OP2	-9.16	97.46	105.70
36	1	1076	C	C6-N1-C2	9.16	123.96	120.30
85	5	97	U	C6-N1-C2	9.16	126.50	121.00
85	5	1142	G	N1-C6-O6	9.16	125.39	119.90
85	5	2617	U	O5'-P-OP1	9.16	121.69	110.70
85	5	2703	A	O5'-P-OP2	-9.16	97.46	105.70
36	1	3139	A	C5-C6-N1	9.16	122.28	117.70
85	5	970	A	C6-N1-C2	-9.16	113.11	118.60
85	5	1323	G	N9-C4-C5	9.16	109.06	105.40
85	5	2350	C	C2-N3-C4	-9.16	115.32	119.90
36	1	590	G	C4-C5-N7	9.15	114.46	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	677	A	O5'-P-OP1	-9.15	97.46	105.70
36	1	797	U	O5'-P-OP1	9.15	121.69	110.70
36	1	1902	G	C5-C6-O6	-9.15	123.11	128.60
80	6	1293	U	C6-N1-C1'	9.15	134.02	121.20
85	5	164	A	N1-C2-N3	-9.15	124.72	129.30
85	5	810	A	C8-N9-C4	-9.15	102.14	105.80
85	5	1851	G	C5-C6-N1	-9.15	106.92	111.50
85	5	2968	G	O4'-C1'-N9	-9.15	100.88	108.20
85	5	3312	U	C6-N1-C2	-9.15	115.51	121.00
36	1	635	G	N3-C4-C5	-9.15	124.03	128.60
36	1	1013	G	C6-C5-N7	-9.15	124.91	130.40
36	1	1198	C	N3-C4-C5	-9.15	118.24	121.90
36	1	1838	G	C5-C6-O6	-9.15	123.11	128.60
36	1	1851	G	C5-C6-N1	-9.15	106.92	111.50
36	1	3053	G	OP1-P-OP2	-9.15	105.88	119.60
85	5	1095	U	N3-C4-C5	-9.15	109.11	114.60
85	5	2162	U	C5-C6-N1	-9.15	118.12	122.70
85	5	2863	G	N7-C8-N9	9.15	117.67	113.10
36	1	943	U	N1-C2-N3	9.15	120.39	114.90
38	4	38	U	C6-N1-C2	-9.15	115.51	121.00
36	1	265	A	C5-C6-N1	-9.15	113.13	117.70
36	1	1175	C	C5-C4-N4	-9.15	113.80	120.20
36	1	2326	A	C2-N3-C4	-9.15	106.03	110.60
36	1	2817	A	C2-N3-C4	9.15	115.17	110.60
85	5	978	G	N1-C2-N2	-9.15	107.97	116.20
85	5	2528	G	N1-C6-O6	9.15	125.39	119.90
38	8	109	A	N7-C8-N9	9.15	118.37	113.80
51	M5	24	ARG	NE-CZ-NH1	-9.15	115.73	120.30
80	6	377	G	C2-N3-C4	-9.15	107.33	111.90
80	6	1497	U	N3-C2-O2	9.15	128.60	122.20
80	6	1572	G	C8-N9-C4	-9.15	102.74	106.40
85	5	358	G	C4-C5-N7	9.15	114.46	110.80
85	5	2284	C	O5'-P-OP2	9.15	121.67	110.70
1	2	1296	A	C4-C5-N7	9.14	115.27	110.70
36	1	898	U	N3-C4-O4	9.14	125.80	119.40
36	1	3085	G	N9-C4-C5	9.14	109.06	105.40
80	6	1530	C	C6-N1-C2	-9.14	116.64	120.30
85	5	1490	A	C8-N9-C4	-9.14	102.14	105.80
36	1	1461	A	C5-C6-N6	-9.14	116.39	123.70
36	1	3308	C	N3-C2-O2	9.14	128.30	121.90
37	3	115	G	C4-C5-N7	9.14	114.46	110.80
80	6	331	A	C2-N3-C4	-9.14	106.03	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1171	A	C5-N7-C8	-9.14	99.33	103.90
80	6	1449	U	C4-C5-C6	9.14	125.19	119.70
85	5	2284	C	C2-N3-C4	9.14	124.47	119.90
85	5	1827	C	N3-C4-C5	9.14	125.56	121.90
85	5	3117	C	C2-N3-C4	-9.14	115.33	119.90
85	5	3204	C	C6-N1-C2	9.14	123.96	120.30
1	2	334	G	C4-C5-N7	9.14	114.46	110.80
36	1	916	G	C5-C6-O6	9.14	134.09	128.60
36	1	2631	U	N1-C2-N3	9.14	120.39	114.90
85	5	2569	A	N1-C6-N6	9.14	124.08	118.60
80	6	1455	G	C5-C6-N1	-9.14	106.93	111.50
85	5	731	U	C6-N1-C2	-9.14	115.52	121.00
85	5	1371	G	O5'-P-OP2	-9.14	97.47	105.70
85	5	1901	A	C5-C6-N6	9.14	131.01	123.70
85	5	3094	A	C2-N3-C4	-9.14	106.03	110.60
85	5	3218	A	N1-C6-N6	9.14	124.08	118.60
85	5	3294	A	N9-C4-C5	9.14	109.46	105.80
36	1	100	A	N1-C6-N6	-9.14	113.12	118.60
36	1	889	U	O5'-P-OP1	9.14	121.67	110.70
36	1	1535	A	OP1-P-OP2	-9.14	105.89	119.60
36	1	1839	A	OP1-P-OP2	-9.14	105.89	119.60
80	6	108	A	C6-N1-C2	-9.14	113.12	118.60
85	5	636	C	C2-N3-C4	-9.14	115.33	119.90
36	1	2733	A	N9-C4-C5	9.14	109.45	105.80
85	5	2754	G	N9-C4-C5	9.14	109.06	105.40
85	5	2829	U	O5'-P-OP2	-9.14	97.48	105.70
85	5	2870	C	C2-N1-C1'	-9.14	108.75	118.80
85	5	3012	A	C2-N3-C4	-9.14	106.03	110.60
1	2	1249	U	C5-C6-N1	9.14	127.27	122.70
36	1	2335	G	N1-C6-O6	-9.14	114.42	119.90
36	1	3361	G	C5-C6-N1	9.14	116.07	111.50
36	1	2560	C	N3-C2-O2	-9.13	115.51	121.90
36	1	2897	A	C6-N1-C2	-9.13	113.12	118.60
37	3	14	U	C6-N1-C2	9.13	126.48	121.00
80	6	256	A	N1-C6-N6	9.13	124.08	118.60
80	6	640	U	O5'-P-OP1	-9.14	97.48	105.70
80	6	1015	U	C6-N1-C2	-9.13	115.52	121.00
85	5	50	U	N3-C2-O2	9.13	128.59	122.20
85	5	383	G	N3-C4-N9	-9.13	120.52	126.00
85	5	1890	U	C5-C6-N1	9.13	127.27	122.70
85	5	3235	C	C4-C5-C6	-9.13	112.83	117.40
36	1	1371	G	C5-C6-O6	9.13	134.08	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	88	A	N1-C2-N3	9.13	133.87	129.30
80	6	608	U	C5-C6-N1	-9.13	118.13	122.70
85	5	224	C	O5'-P-OP1	9.13	121.66	110.70
85	5	2418	G	C5-C6-N1	9.13	116.07	111.50
85	5	2874	G	N1-C2-N3	9.13	129.38	123.90
1	2	868	G	C2-N3-C4	-9.13	107.33	111.90
36	1	1710	C	N1-C2-O2	9.13	124.38	118.90
85	5	2726	C	N3-C4-C5	-9.13	118.25	121.90
36	1	2621	G	OP1-P-OP2	-9.13	105.90	119.60
36	1	3112	G	OP1-P-O3'	9.13	125.29	105.20
38	4	67	U	C2-N3-C4	-9.13	121.52	127.00
85	5	963	G	N3-C4-N9	9.13	131.48	126.00
85	5	1883	A	C5-C6-N6	-9.13	116.39	123.70
85	5	2799	A	N9-C4-C5	9.13	109.45	105.80
85	5	950	G	N7-C8-N9	-9.13	108.53	113.10
85	5	1137	C	C4-C5-C6	9.13	121.97	117.40
85	5	1191	U	N3-C2-O2	9.13	128.59	122.20
85	5	1887	A	C2-N3-C4	-9.13	106.03	110.60
85	5	2198	A	O5'-P-OP1	-9.13	97.48	105.70
36	1	1173	U	C4-C5-C6	9.13	125.18	119.70
36	1	2286	U	C2-N3-C4	-9.13	121.52	127.00
80	6	480	G	C4-C5-N7	-9.13	107.15	110.80
85	5	1743	G	C8-N9-C4	-9.13	102.75	106.40
85	5	2887	A	OP2-P-O3'	9.13	125.28	105.20
85	5	2938	G	N7-C8-N9	9.13	117.67	113.10
85	5	2941	A	N1-C6-N6	-9.13	113.12	118.60
36	1	725	G	C4-C5-N7	9.13	114.45	110.80
85	5	1660	C	C4-C5-C6	-9.13	112.84	117.40
85	5	1863	G	C5-C6-O6	9.13	134.08	128.60
85	5	2664	C	C4-C5-C6	-9.13	112.84	117.40
80	6	335	U	O5'-P-OP2	9.13	121.65	110.70
80	6	453	U	N3-C4-O4	9.13	125.79	119.40
85	5	32	U	O5'-P-OP1	9.13	121.65	110.70
36	1	91	G	N9-C4-C5	9.12	109.05	105.40
36	1	414	U	C2-N3-C4	-9.12	121.53	127.00
36	1	2736	A	N1-C2-N3	9.12	133.86	129.30
36	1	3133	C	N3-C4-N4	9.12	124.39	118.00
38	4	1	A	C4-C5-N7	9.12	115.26	110.70
80	6	570	A	C5-N7-C8	-9.12	99.34	103.90
85	5	2668	U	N3-C4-O4	9.12	125.79	119.40
1	2	374	U	C4-C5-C6	-9.12	114.23	119.70
1	2	1728	G	N3-C4-C5	-9.12	124.04	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2118	C	C2-N3-C4	-9.12	115.34	119.90
85	5	1007	U	O5'-P-OP2	-9.12	97.49	105.70
37	7	13	A	C6-N1-C2	-9.12	113.13	118.60
36	1	30	G	C5-C6-O6	9.12	134.07	128.60
36	1	70	A	C5-C6-N1	-9.12	113.14	117.70
36	1	595	G	N3-C2-N2	-9.12	113.51	119.90
85	5	1128	U	C6-N1-C2	9.12	126.47	121.00
1	2	1726	U	C2-N3-C4	9.12	132.47	127.00
36	1	122	A	N1-C6-N6	-9.12	113.13	118.60
36	1	903	U	O5'-P-OP1	9.12	121.64	110.70
36	1	1590	G	N1-C6-O6	-9.12	114.43	119.90
36	1	1791	C	C4-C5-C6	9.12	121.96	117.40
36	1	2173	U	N3-C4-C5	-9.12	109.13	114.60
80	6	450	U	C5-C6-N1	-9.12	118.14	122.70
36	1	1113	G	C8-N9-C4	-9.12	102.75	106.40
36	1	1429	G	N3-C4-C5	-9.12	124.04	128.60
36	1	2280	A	C6-N1-C2	-9.12	113.13	118.60
80	6	1017	U	C5-C6-N1	9.12	127.26	122.70
80	6	1199	G	N1-C6-O6	9.12	125.37	119.90
85	5	215	G	C2-N3-C4	-9.12	107.34	111.90
85	5	950	G	C6-N1-C2	-9.12	119.63	125.10
85	5	573	C	C5-C6-N1	-9.12	116.44	121.00
38	8	35	C	C4-C5-C6	-9.12	112.84	117.40
36	1	307	A	C5-C6-N6	9.12	130.99	123.70
36	1	1794	G	C4-C5-C6	9.12	124.27	118.80
36	1	3308	C	N3-C4-N4	9.12	124.38	118.00
36	1	1413	G	C6-C5-N7	-9.11	124.93	130.40
85	5	1078	U	C5-C6-N1	9.12	127.26	122.70
85	5	1475	A	N1-C6-N6	9.12	124.07	118.60
85	5	2559	U	C2-N3-C4	-9.12	121.53	127.00
38	8	10	A	C8-N9-C4	-9.11	102.16	105.80
80	6	103	A	C5-C6-N6	-9.11	116.41	123.70
36	1	639	G	C5-C6-N1	-9.11	106.94	111.50
36	1	665	A	C8-N9-C4	-9.11	102.16	105.80
36	1	749	C	C5-C4-N4	-9.11	113.82	120.20
36	1	2782	U	N1-C2-O2	-9.11	116.42	122.80
36	1	3377	G	C6-C5-N7	-9.11	124.93	130.40
80	6	1070	C	N1-C2-N3	9.11	125.58	119.20
85	5	810	A	C5-C6-N6	-9.11	116.41	123.70
85	5	1121	U	N1-C2-O2	-9.11	116.42	122.80
85	5	1500	G	N1-C2-N2	-9.11	108.00	116.20
85	5	3178	A	C4-C5-N7	-9.11	106.14	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	635	A	N7-C8-N9	9.11	118.36	113.80
36	1	289	A	O5'-P-OP2	9.11	121.63	110.70
36	1	1411	C	N3-C4-C5	-9.11	118.26	121.90
36	1	1759	C	C2-N3-C4	-9.11	115.34	119.90
36	1	3184	A	C4-C5-N7	9.11	115.25	110.70
37	3	80	G	C5-C6-O6	9.11	134.06	128.60
38	4	15	G	N1-C6-O6	-9.11	114.43	119.90
80	6	360	A	C5-C6-N1	9.11	122.25	117.70
80	6	429	G	C2-N3-C4	-9.11	107.34	111.90
38	4	102	U	N3-C2-O2	-9.11	115.82	122.20
80	6	368	U	N1-C2-N3	9.11	120.36	114.90
85	5	387	A	N7-C8-N9	9.11	118.36	113.80
80	6	1675	C	C6-N1-C2	-9.11	116.66	120.30
85	5	527	A	OP1-P-OP2	-9.11	105.94	119.60
85	5	998	A	N9-C4-C5	9.11	109.44	105.80
36	1	3266	G	C6-N1-C2	-9.11	119.64	125.10
36	1	1932	A	N1-C6-N6	-9.11	113.14	118.60
36	1	2623	G	C6-C5-N7	-9.11	124.94	130.40
36	1	3378	C	N3-C4-C5	-9.11	118.26	121.90
85	5	727	G	N9-C4-C5	-9.11	101.76	105.40
85	5	927	C	N3-C4-N4	9.11	124.38	118.00
85	5	1070	U	N1-C2-N3	9.11	120.36	114.90
85	5	1551	C	C2-N3-C4	-9.11	115.35	119.90
85	5	2871	G	C5-N7-C8	-9.11	99.75	104.30
36	1	700	C	N3-C4-N4	9.10	124.37	118.00
36	1	726	G	N1-C6-O6	-9.10	114.44	119.90
36	1	1297	C	N1-C2-O2	-9.10	113.44	118.90
36	1	1876	U	N3-C2-O2	-9.10	115.83	122.20
36	1	2709	C	N1-C2-O2	9.10	124.36	118.90
1	2	630	A	N9-C4-C5	-9.10	102.16	105.80
80	6	338	C	C5-C4-N4	-9.10	113.83	120.20
85	5	665	A	C6-N1-C2	-9.10	113.14	118.60
85	5	2407	C	N3-C2-O2	9.10	128.27	121.90
1	2	1097	G	C5-C6-O6	-9.10	123.14	128.60
80	6	55	A	N1-C6-N6	-9.10	113.14	118.60
80	6	1294	G	C8-N9-C1'	9.10	138.83	127.00
36	1	746	A	C6-N1-C2	-9.10	113.14	118.60
36	1	2895	G	N7-C8-N9	-9.10	108.55	113.10
36	1	2986	U	C5-C4-O4	9.10	131.36	125.90
85	5	30	G	C8-N9-C4	9.10	110.04	106.40
85	5	2526	C	O5'-P-OP2	-9.10	97.51	105.70
85	5	3312	U	N3-C2-O2	9.10	128.57	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	866	C	N3-C2-O2	-9.10	115.53	121.90
36	1	110	G	N1-C6-O6	9.10	125.36	119.90
36	1	548	G	N1-C6-O6	9.10	125.36	119.90
36	1	775	A	C2-N3-C4	-9.10	106.05	110.60
80	6	51	A	O5'-P-OP1	-9.10	97.51	105.70
36	1	685	G	C8-N9-C4	9.10	110.04	106.40
36	1	1003	A	O5'-P-OP2	9.10	121.61	110.70
36	1	1813	A	C4-C5-C6	9.10	121.55	117.00
36	1	1876	U	N3-C4-O4	9.10	125.77	119.40
80	6	1728	A	C2-N3-C4	-9.10	106.05	110.60
85	5	804	C	C6-N1-C2	9.10	123.94	120.30
85	5	870	G	N9-C4-C5	9.10	109.04	105.40
85	5	1387	G	OP1-P-OP2	9.10	133.24	119.60
85	5	1936	A	C5-N7-C8	-9.10	99.35	103.90
85	5	2994	A	N9-C4-C5	9.10	109.44	105.80
85	5	3141	A	C5-C6-N1	-9.10	113.15	117.70
85	5	3318	G	N1-C2-N3	9.10	129.36	123.90
36	1	365	A	C6-N1-C2	-9.09	113.14	118.60
36	1	906	A	C6-N1-C2	-9.09	113.14	118.60
36	1	1164	G	N1-C2-N2	-9.09	108.02	116.20
37	3	117	A	N1-C6-N6	9.09	124.06	118.60
80	6	799	A	C8-N9-C4	-9.09	102.16	105.80
85	5	403	C	N3-C4-N4	9.09	124.36	118.00
85	5	1880	U	OP1-P-O3'	-9.09	85.20	105.20
85	5	3095	U	C5-C4-O4	-9.09	120.44	125.90
36	1	683	U	N3-C4-O4	9.09	125.76	119.40
36	1	962	A	N1-C2-N3	9.09	133.84	129.30
36	1	1191	U	OP1-P-OP2	9.09	133.24	119.60
36	1	2305	G	C8-N9-C4	-9.09	102.76	106.40
37	3	53	U	C5-C6-N1	-9.09	118.16	122.70
80	6	805	U	C5-C6-N1	9.09	127.25	122.70
85	5	108	A	N7-C8-N9	-9.09	109.25	113.80
85	5	3379	C	N1-C2-O2	-9.09	113.44	118.90
80	6	1652	C	OP1-P-OP2	-9.09	105.97	119.60
85	5	2848	G	C8-N9-C4	-9.09	102.76	106.40
36	1	1301	A	O5'-P-OP2	9.09	121.61	110.70
36	1	2906	C	C5-C6-N1	-9.09	116.46	121.00
37	7	115	G	O5'-P-OP2	-9.09	97.52	105.70
1	2	1172	A	O5'-P-OP2	-9.09	97.52	105.70
1	2	1587	U	N1-C2-O2	-9.09	116.44	122.80
36	1	911	C	OP1-P-OP2	-9.09	105.97	119.60
36	1	948	C	N3-C4-C5	-9.09	118.27	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	884	A	C5-N7-C8	-9.09	99.36	103.90
80	6	73	U	O5'-P-OP1	9.09	121.60	110.70
80	6	941	A	C6-N1-C2	-9.09	113.15	118.60
85	5	2738	A	N9-C4-C5	9.09	109.44	105.80
85	5	755	A	C4-C5-N7	9.09	115.24	110.70
85	5	2383	C	N3-C2-O2	-9.09	115.54	121.90
36	1	28	C	N1-C2-O2	-9.08	113.45	118.90
36	1	93	C	C6-N1-C2	-9.08	116.67	120.30
36	1	203	G	OP2-P-O3'	9.08	125.19	105.20
36	1	1897	G	C2-N3-C4	9.08	116.44	111.90
36	1	1443	G	C4-C5-N7	9.08	114.43	110.80
36	1	1865	A	O5'-P-OP2	-9.08	97.53	105.70
36	1	2557	A	N1-C2-N3	9.08	133.84	129.30
36	1	2720	G	O5'-P-OP1	9.08	121.60	110.70
36	1	3326	G	C8-N9-C4	9.08	110.03	106.40
38	4	43	A	C4-C5-C6	-9.08	112.46	117.00
71	O5	46	THR	O-C-N	9.08	137.24	122.70
85	5	693	A	N1-C2-N3	9.08	133.84	129.30
85	5	742	G	C5-N7-C8	-9.08	99.76	104.30
85	5	1220	U	C6-N1-C2	9.08	126.45	121.00
85	5	2730	G	C2-N3-C4	-9.08	107.36	111.90
85	5	2864	A	C2-N3-C4	9.08	115.14	110.60
1	2	1393	A	C2-N3-C4	-9.08	106.06	110.60
36	1	1432	C	C5-C6-N1	9.08	125.54	121.00
36	1	2945	G	C5-N7-C8	-9.08	99.76	104.30
80	6	467	G	C5-N7-C8	9.08	108.84	104.30
85	5	352	A	N7-C8-N9	9.08	118.34	113.80
85	5	700	C	O5'-P-OP1	9.08	121.60	110.70
85	5	1669	C	OP1-P-O3'	9.08	125.17	105.20
85	5	2826	U	C6-N1-C2	9.08	126.45	121.00
37	7	84	A	N3-C4-C5	-9.08	120.44	126.80
38	8	1	A	N1-C2-N3	9.08	133.84	129.30
1	2	1261	G	C8-N9-C4	-9.08	102.77	106.40
36	1	406	G	N3-C2-N2	9.08	126.25	119.90
36	1	975	C	N1-C2-O2	-9.08	113.45	118.90
36	1	2675	C	O5'-P-OP2	9.08	121.59	110.70
36	1	2752	U	C4-C5-C6	9.08	125.15	119.70
38	4	31	G	C5-C6-O6	-9.08	123.15	128.60
80	6	595	G	C8-N9-C4	9.08	110.03	106.40
36	1	2682	C	C4-C5-C6	9.08	121.94	117.40
80	6	1348	A	N9-C4-C5	-9.08	102.17	105.80
85	5	1429	G	N1-C2-N3	9.08	129.34	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2550	U	C6-N1-C2	-9.08	115.55	121.00
1	2	1728	G	O5'-P-OP2	-9.07	97.53	105.70
36	1	648	C	N3-C4-N4	9.07	124.35	118.00
36	1	651	G	N1-C2-N3	9.07	129.34	123.90
36	1	602	A	C8-N9-C4	9.07	109.43	105.80
36	1	724	U	O5'-P-OP2	-9.07	97.53	105.70
36	1	1148	G	O5'-P-OP2	-9.07	97.53	105.70
36	1	2910	A	C6-N1-C2	-9.07	113.16	118.60
85	5	713	U	N1-C2-O2	-9.07	116.45	122.80
85	5	1530	U	C6-N1-C2	9.07	126.44	121.00
85	5	2320	A	N3-C4-C5	9.07	133.15	126.80
85	5	2414	G	C4-C5-N7	9.07	114.43	110.80
85	5	2898	G	N3-C4-C5	9.07	133.14	128.60
1	2	910	C	N3-C2-O2	9.07	128.25	121.90
36	1	590	G	C5-C6-O6	-9.07	123.16	128.60
80	6	403	G	C6-C5-N7	-9.07	124.96	130.40
80	6	792	U	C4-C5-C6	9.07	125.14	119.70
85	5	64	G	N7-C8-N9	9.07	117.64	113.10
85	5	2520	A	C8-N9-C4	-9.07	102.17	105.80
36	1	1515	A	N1-C6-N6	9.07	124.04	118.60
36	1	2176	U	C4-C5-C6	9.07	125.14	119.70
80	6	459	G	C5-N7-C8	-9.07	99.77	104.30
85	5	24	G	C5-C6-N1	9.07	116.03	111.50
85	5	347	G	N7-C8-N9	9.07	117.64	113.10
85	5	813	G	N7-C8-N9	9.07	117.64	113.10
85	5	870	G	C8-N9-C1'	9.07	138.79	127.00
85	5	927	C	C5-C4-N4	-9.07	113.85	120.20
85	5	1284	C	N1-C2-O2	9.07	124.34	118.90
85	5	1883	A	N1-C6-N6	9.07	124.04	118.60
36	1	724	U	C2-N3-C4	-9.07	121.56	127.00
1	2	600	U	OP1-P-OP2	-9.07	106.00	119.60
36	1	1157	G	C5-C6-O6	9.07	134.04	128.60
36	1	1540	U	OP1-P-OP2	-9.07	106.00	119.60
37	3	53	U	N1-C2-N3	9.07	120.34	114.90
73	O7	73	ARG	NE-CZ-NH1	-9.07	115.77	120.30
80	6	215	A	O5'-P-OP1	-9.07	97.54	105.70
80	6	1275	A	C2-N3-C4	-9.07	106.07	110.60
85	5	501	A	C4-C5-N7	-9.07	106.17	110.70
85	5	3249	C	N1-C2-O2	-9.07	113.46	118.90
36	1	430	U	N1-C2-O2	-9.06	116.45	122.80
36	1	1296	C	N1-C2-O2	-9.06	113.46	118.90
1	2	1128	U	N3-C4-C5	-9.06	109.16	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	934	G	N3-C2-N2	-9.06	113.56	119.90
36	1	957	C	N3-C4-N4	9.06	124.34	118.00
36	1	1289	G	C8-N9-C4	9.06	110.03	106.40
36	1	2417	U	C4-C5-C6	-9.06	114.26	119.70
38	4	54	A	C2-N3-C4	-9.06	106.07	110.60
38	4	104	A	C5-N7-C8	-9.06	99.37	103.90
85	5	3116	G	C8-N9-C4	-9.06	102.77	106.40
80	6	783	G	C6-N1-C2	-9.06	119.66	125.10
85	5	1654	A	C6-N1-C2	-9.06	113.16	118.60
85	5	3131	U	C2-N1-C1'	9.06	128.58	117.70
85	5	3309	G	C6-C5-N7	-9.06	124.96	130.40
85	5	3329	U	O5'-P-OP2	-9.06	97.54	105.70
85	5	3347	A	N7-C8-N9	-9.06	109.27	113.80
36	1	977	C	C5-C6-N1	9.06	125.53	121.00
36	1	1648	A	N1-C6-N6	-9.06	113.16	118.60
36	1	1683	A	N7-C8-N9	9.06	118.33	113.80
80	6	378	A	OP1-P-OP2	-9.06	106.01	119.60
85	5	408	A	C5-C6-N6	9.06	130.95	123.70
85	5	649	A	C5-C6-N1	9.06	122.23	117.70
85	5	1869	C	O5'-P-OP1	-9.06	97.55	105.70
85	5	2912	G	N3-C4-C5	-9.06	124.07	128.60
36	1	826	G	C6-C5-N7	-9.06	124.97	130.40
36	1	1070	U	O5'-P-OP2	9.06	121.57	110.70
80	6	290	G	C8-N9-C4	-9.06	102.78	106.40
85	5	80	G	C4-C5-N7	9.06	114.42	110.80
85	5	278	U	N1-C2-O2	-9.06	116.46	122.80
85	5	402	A	C5-C6-N1	9.06	122.23	117.70
85	5	2134	G	N9-C4-C5	-9.06	101.78	105.40
85	5	2991	A	C6-N1-C2	-9.06	113.17	118.60
85	5	981	U	C5-C4-O4	-9.06	120.47	125.90
85	5	2933	A	C8-N9-C4	-9.06	102.18	105.80
85	5	3018	C	N3-C4-C5	9.06	125.52	121.90
40	13	100	ARG	NE-CZ-NH1	9.06	124.83	120.30
36	1	2278	C	N1-C2-O2	9.06	124.33	118.90
85	5	89	A	N3-C4-C5	9.06	133.14	126.80
85	5	1940	G	C4-C5-N7	9.05	114.42	110.80
85	5	2144	A	O5'-P-OP2	-9.06	97.55	105.70
36	1	588	G	C5-C6-N1	9.05	116.03	111.50
36	1	2973	G	O5'-P-OP2	-9.05	97.55	105.70
80	6	403	G	N3-C4-C5	9.05	133.13	128.60
85	5	1000	C	N1-C2-O2	9.05	124.33	118.90
85	5	1115	G	N7-C8-N9	9.05	117.63	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2382	G	C8-N9-C4	9.05	110.02	106.40
38	8	46	G	O5'-P-OP1	-9.05	97.55	105.70
36	1	1293	U	N1-C2-O2	-9.05	116.46	122.80
36	1	2229	A	C2-N3-C4	9.05	115.12	110.60
85	5	1297	C	C5-C6-N1	9.05	125.53	121.00
85	5	2811	A	C8-N9-C4	-9.05	102.18	105.80
85	5	3328	G	N9-C4-C5	9.05	109.02	105.40
37	7	61	G	OP1-P-OP2	9.05	133.18	119.60
1	2	895	U	C5-C6-N1	9.05	127.22	122.70
36	1	353	G	N3-C2-N2	-9.05	113.57	119.90
36	1	360	G	C4-C5-C6	9.05	124.23	118.80
36	1	1757	A	C8-N9-C4	-9.05	102.18	105.80
85	5	1102	A	N1-C2-N3	9.05	133.82	129.30
85	5	1733	G	N3-C4-C5	9.05	133.12	128.60
80	6	1130	G	C5-C6-O6	-9.05	123.17	128.60
85	5	647	A	N3-C4-C5	-9.05	120.47	126.80
85	5	1486	G	C2-N3-C4	-9.05	107.38	111.90
85	5	2636	A	C8-N9-C4	-9.05	102.18	105.80
36	1	1182	A	C6-C5-N7	-9.05	125.97	132.30
85	5	221	A	C4-C5-N7	-9.05	106.18	110.70
85	5	2663	G	C5-C6-N1	-9.05	106.98	111.50
36	1	1794	G	N7-C8-N9	9.04	117.62	113.10
38	4	40	A	OP1-P-OP2	9.04	133.17	119.60
38	4	137	C	N1-C2-O2	-9.05	113.47	118.90
85	5	581	U	N3-C4-C5	-9.05	109.17	114.60
85	5	2130	G	O5'-P-OP2	-9.05	97.56	105.70
85	5	2396	G	N1-C2-N3	9.04	129.33	123.90
38	8	110	C	N3-C4-N4	9.04	124.33	118.00
36	1	1931	U	C2-N3-C4	-9.04	121.57	127.00
36	1	3081	C	N3-C2-O2	9.04	128.23	121.90
36	1	3258	U	O5'-P-OP2	9.04	121.55	110.70
85	5	104	G	N3-C4-C5	9.04	133.12	128.60
85	5	49	A	N1-C6-N6	9.04	124.03	118.60
85	5	326	U	C6-N1-C2	-9.04	115.58	121.00
85	5	657	A	N3-C4-C5	9.04	133.13	126.80
85	5	2553	U	C6-N1-C2	-9.04	115.57	121.00
85	5	3043	C	N1-C2-O2	-9.04	113.47	118.90
85	5	2715	A	N3-C4-C5	-9.04	120.47	126.80
36	1	1048	A	N1-C6-N6	-9.04	113.18	118.60
36	1	2713	U	C5-C6-N1	-9.04	118.18	122.70
38	4	106	C	N3-C4-C5	-9.04	118.28	121.90
80	6	792	U	N3-C4-C5	-9.04	109.18	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	353	G	N3-C4-C5	-9.04	124.08	128.60
85	5	1156	C	C5-C4-N4	-9.04	113.87	120.20
85	5	1424	C	N1-C2-N3	-9.04	112.87	119.20
85	5	1863	G	N1-C2-N3	9.04	129.32	123.90
85	5	2821	C	N3-C4-N4	9.04	124.33	118.00
1	2	1469	G	N1-C2-N3	9.04	129.32	123.90
36	1	906	A	N7-C8-N9	-9.04	109.28	113.80
36	1	1367	G	C6-C5-N7	-9.04	124.98	130.40
36	1	1637	A	N7-C8-N9	-9.04	109.28	113.80
36	1	2398	A	N9-C4-C5	9.04	109.42	105.80
36	1	2412	G	C5-C6-N1	9.04	116.02	111.50
80	6	1027	A	C5-C6-N1	-9.04	113.18	117.70
80	6	1534	G	C4-C5-N7	-9.04	107.19	110.80
85	5	672	A	C2-N3-C4	9.04	115.12	110.60
85	5	1498	A	C8-N9-C4	9.04	109.42	105.80
85	5	1662	G	C6-N1-C2	9.04	130.52	125.10
85	5	1911	A	O5'-P-OP2	-9.04	97.57	105.70
85	5	3267	A	C2-N3-C4	9.04	115.12	110.60
85	5	3396	U	OP1-P-OP2	9.04	133.16	119.60
37	7	116	C	C2-N3-C4	9.04	124.42	119.90
36	1	764	U	C2-N3-C4	9.04	132.42	127.00
36	1	944	C	O5'-P-OP2	-9.04	97.57	105.70
36	1	1094	U	N3-C4-C5	-9.04	109.18	114.60
36	1	2619	G	N1-C2-N2	-9.04	108.07	116.20
36	1	1486	G	C5-C6-O6	-9.03	123.18	128.60
36	1	2297	U	N1-C2-N3	9.03	120.32	114.90
36	1	3246	G	N1-C2-N2	-9.03	108.07	116.20
80	6	25	C	N3-C4-N4	9.04	124.33	118.00
80	6	423	G	N9-C4-C5	9.04	109.01	105.40
85	5	3300	U	O5'-P-OP1	9.03	121.54	110.70
80	6	467	G	C4-C5-N7	-9.03	107.19	110.80
80	6	985	G	N1-C6-O6	9.03	125.32	119.90
1	2	279	G	C2-N3-C4	9.03	116.42	111.90
36	1	119	U	N1-C2-O2	9.03	129.12	122.80
36	1	230	U	C5-C6-N1	-9.03	118.18	122.70
36	1	911	C	N1-C2-N3	9.03	125.52	119.20
36	1	2863	G	C4-C5-N7	9.03	114.41	110.80
85	5	878	G	C4-C5-N7	9.03	114.41	110.80
36	1	2099	A	C4-C5-C6	9.03	121.52	117.00
36	1	2427	U	C6-N1-C2	9.03	126.42	121.00
36	1	2978	U	C4-C5-C6	9.03	125.12	119.70
80	6	196	G	C8-N9-C4	9.03	110.01	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1589	A	N7-C8-N9	9.03	118.31	113.80
85	5	1616	U	N1-C2-N3	9.03	120.32	114.90
85	5	2416	U	C4-C5-C6	9.03	125.12	119.70
85	5	2610	G	N3-C2-N2	-9.03	113.58	119.90
85	5	3097	C	C5-C6-N1	9.03	125.52	121.00
1	2	321	C	C6-N1-C2	-9.03	116.69	120.30
36	1	1330	A	N1-C2-N3	9.03	133.81	129.30
36	1	2197	C	C5-C6-N1	-9.03	116.48	121.00
36	1	2624	G	O5'-P-OP2	9.03	121.53	110.70
80	6	9	U	C5-C6-N1	-9.03	118.19	122.70
85	5	146	U	C5-C6-N1	-9.03	118.19	122.70
85	5	364	G	N1-C2-N3	9.03	129.32	123.90
85	5	1429	G	C5-N7-C8	-9.03	99.79	104.30
85	5	2603	G	C6-C5-N7	-9.03	124.98	130.40
85	5	2936	A	OP1-P-O3'	9.03	125.07	105.20
85	5	2188	A	O5'-P-OP2	-9.03	97.58	105.70
85	5	3217	C	OP1-P-OP2	-9.03	106.06	119.60
1	2	1642	A	C8-N9-C4	-9.03	102.19	105.80
36	1	947	G	C5-C6-N1	-9.03	106.99	111.50
80	6	534	A	C5-N7-C8	9.03	108.41	103.90
36	1	1708	C	N1-C2-N3	9.03	125.52	119.20
80	6	95	G	C2-N3-C4	9.03	116.41	111.90
85	5	2858	U	C5-C6-N1	9.03	127.21	122.70
85	5	2900	A	C6-N1-C2	-9.03	113.19	118.60
1	2	1285	U	C5-C6-N1	-9.02	118.19	122.70
36	1	2202	C	C4-C5-C6	-9.02	112.89	117.40
36	1	2917	G	N3-C4-C5	-9.02	124.09	128.60
80	6	960	U	C6-N1-C2	-9.02	115.59	121.00
85	5	2381	G	N1-C6-O6	9.02	125.31	119.90
85	5	3306	U	C5-C4-O4	-9.02	120.48	125.90
80	6	1127	G	O5'-P-OP2	-9.02	97.58	105.70
85	5	861	C	N1-C2-O2	-9.02	113.49	118.90
85	5	1434	G	C6-C5-N7	-9.02	124.99	130.40
85	5	1489	A	N1-C6-N6	9.02	124.01	118.60
36	1	2695	A	O5'-P-OP2	9.02	121.52	110.70
85	5	1901	A	N9-C4-C5	9.02	109.41	105.80
36	1	1870	C	N3-C2-O2	9.02	128.21	121.90
36	1	2668	U	C5-C6-N1	-9.02	118.19	122.70
38	4	87	G	N3-C2-N2	9.02	126.21	119.90
85	5	2333	C	C5-C4-N4	-9.02	113.89	120.20
36	1	1469	C	N1-C2-O2	9.02	124.31	118.90
36	1	3181	C	N3-C4-N4	-9.02	111.69	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	87	G	C8-N9-C4	9.02	110.01	106.40
80	6	165	G	C5-C6-N1	-9.02	106.99	111.50
1	2	347	G	C5-C6-N1	-9.02	106.99	111.50
80	6	94	U	C5-C4-O4	9.02	131.31	125.90
80	6	264	G	N3-C4-N9	-9.02	120.59	126.00
37	7	87	G	C8-N9-C4	9.02	110.01	106.40
38	8	27	U	C5-C4-O4	-9.02	120.49	125.90
40	13	167	ARG	NE-CZ-NH2	-9.02	115.79	120.30
80	6	1128	C	N1-C2-N3	9.02	125.51	119.20
85	5	1285	G	N1-C6-O6	-9.02	114.49	119.90
1	2	1433	U	C5-C4-O4	-9.01	120.49	125.90
36	1	305	U	O5'-P-OP2	9.01	121.52	110.70
36	1	870	G	C6-C5-N7	-9.01	124.99	130.40
36	1	1433	A	C2-N3-C4	9.01	115.11	110.60
36	1	3365	U	N3-C2-O2	-9.01	115.89	122.20
85	5	865	U	O5'-P-OP1	-9.01	97.59	105.70
36	1	43	A	O5'-P-OP2	-9.01	97.59	105.70
36	1	1682	U	N3-C4-C5	-9.01	109.19	114.60
36	1	1729	A	N1-C2-N3	9.01	133.81	129.30
38	4	121	U	C6-N1-C2	-9.01	115.59	121.00
85	5	194	U	C6-N1-C2	-9.01	115.59	121.00
85	5	669	U	C5-C4-O4	9.01	131.31	125.90
38	8	15	G	N1-C2-N2	-9.01	108.09	116.20
85	5	1654	A	N1-C2-N3	9.01	133.81	129.30
1	2	401	A	C5-C6-N1	9.01	122.20	117.70
36	1	1512	U	C4-C5-C6	9.01	125.11	119.70
36	1	2222	A	N7-C8-N9	9.01	118.31	113.80
36	1	2776	C	C5-C4-N4	-9.01	113.89	120.20
36	1	3217	C	C6-N1-C2	-9.01	116.70	120.30
80	6	1051	G	N3-C4-N9	-9.01	120.59	126.00
85	5	1501	U	N3-C2-O2	9.01	128.51	122.20
85	5	2797	C	N3-C4-N4	9.01	124.31	118.00
37	7	87	G	N1-C2-N2	9.01	124.31	116.20
36	1	420	G	N1-C6-O6	9.01	125.30	119.90
36	1	2188	A	OP1-P-OP2	-9.01	106.09	119.60
36	1	2936	A	C6-N1-C2	-9.01	113.20	118.60
80	6	1487	A	C8-N9-C4	9.01	109.40	105.80
85	5	270	U	N3-C2-O2	9.01	128.50	122.20
36	1	1184	A	C8-N9-C4	9.01	109.40	105.80
36	1	3183	A	O5'-P-OP2	-9.01	97.59	105.70
80	6	316	A	N1-C6-N6	-9.01	113.20	118.60
80	6	984	G	C4-C5-N7	-9.01	107.20	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1657	U	C5-C6-N1	9.01	127.20	122.70
85	5	1484	U	N1-C2-O2	-9.01	116.50	122.80
85	5	1588	A	C5-C6-N6	9.01	130.91	123.70
85	5	2264	U	C5-C4-O4	-9.01	120.50	125.90
85	5	3315	G	N9-C4-C5	9.01	109.00	105.40
1	2	23	G	C8-N9-C4	-9.00	102.80	106.40
36	1	977	C	C6-N1-C2	-9.00	116.70	120.30
80	6	358	U	N3-C2-O2	-9.00	115.90	122.20
36	1	1833	G	C8-N9-C4	9.00	110.00	106.40
36	1	3099	C	C6-N1-C2	9.00	123.90	120.30
85	5	571	U	N3-C2-O2	-9.00	115.90	122.20
85	5	1552	G	C5-C6-O6	-9.00	123.20	128.60
85	5	2773	C	OP1-P-OP2	-9.00	106.09	119.60
85	5	3196	U	C6-N1-C2	9.00	126.40	121.00
1	2	1495	G	C8-N9-C4	-9.00	102.80	106.40
80	6	471	A	C2-N3-C4	-9.00	106.10	110.60
85	5	25	U	C4-C5-C6	9.00	125.10	119.70
36	1	2132	C	N3-C4-N4	9.00	124.30	118.00
80	6	1053	G	C5-C6-O6	-9.00	123.20	128.60
85	5	154	U	N3-C2-O2	9.00	128.50	122.20
85	5	1146	C	N3-C2-O2	9.00	128.20	121.90
85	5	1149	G	C6-C5-N7	-9.00	125.00	130.40
85	5	2590	A	C2-N3-C4	-9.00	106.10	110.60
85	5	3023	U	N3-C2-O2	9.00	128.50	122.20
37	7	25	G	C4-C5-N7	-9.00	107.20	110.80
36	1	569	A	C5-C6-N1	-9.00	113.20	117.70
36	1	968	G	C4-C5-N7	9.00	114.40	110.80
80	6	981	U	N1-C2-N3	9.00	120.30	114.90
85	5	1336	U	C2-N3-C4	-9.00	121.60	127.00
37	3	3	U	N1-C2-O2	9.00	129.10	122.80
38	4	106	C	C6-N1-C2	9.00	123.90	120.30
80	6	856	A	C5-C6-N1	9.00	122.20	117.70
85	5	224	C	C6-N1-C2	-9.00	116.70	120.30
85	5	983	A	N9-C4-C5	9.00	109.40	105.80
85	5	1618	G	C8-N9-C4	9.00	110.00	106.40
85	5	3051	U	N3-C4-C5	9.00	120.00	114.60
36	1	1331	U	OP1-P-OP2	8.99	133.09	119.60
36	1	2222	A	C2-N3-C4	-8.99	106.10	110.60
85	5	780	A	C5-N7-C8	-8.99	99.40	103.90
85	5	974	G	N1-C2-N3	8.99	129.30	123.90
1	2	1100	U	N1-C2-O2	-8.99	116.51	122.80
1	2	1434	C	C5-C6-N1	8.99	125.50	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	194	U	N3-C4-O4	8.99	125.69	119.40
36	1	304	G	N3-C2-N2	-8.99	113.61	119.90
85	5	607	A	N9-C4-C5	8.99	109.40	105.80
38	8	105	A	O5'-P-OP1	8.99	121.49	110.70
38	8	140	G	C5-C6-N1	-8.99	107.00	111.50
36	1	1631	C	N3-C4-C5	8.99	125.50	121.90
36	1	2835	U	N1-C2-N3	8.99	120.30	114.90
85	5	219	A	OP1-P-OP2	8.99	133.09	119.60
85	5	1787	A	C5-C6-N1	-8.99	113.20	117.70
37	7	109	G	C5-N7-C8	-8.99	99.80	104.30
36	1	517	G	C8-N9-C4	-8.99	102.80	106.40
36	1	779	G	O5'-P-OP2	-8.99	97.61	105.70
36	1	672	A	C4-C5-N7	8.99	115.19	110.70
36	1	904	A	C8-N9-C4	8.99	109.40	105.80
36	1	1907	C	N3-C4-C5	-8.99	118.30	121.90
36	1	3261	C	N1-C2-N3	8.99	125.49	119.20
36	1	2139	A	C4-C5-N7	-8.99	106.21	110.70
36	1	2270	A	C5-C6-N1	8.99	122.19	117.70
80	6	1585	U	N3-C4-O4	-8.99	113.11	119.40
85	5	992	A	C2-N3-C4	-8.99	106.10	110.60
85	5	2130	G	N3-C4-N9	-8.99	120.61	126.00
85	5	2351	U	N3-C4-C5	8.99	120.00	114.60
85	5	3304	U	O5'-P-OP2	-8.99	97.61	105.70
85	5	3376	A	N1-C6-N6	-8.99	113.21	118.60
85	5	854	G	C2-N3-C4	-8.99	107.41	111.90
85	5	3075	G	N1-C2-N3	8.99	129.29	123.90
36	1	672	A	N3-C4-N9	-8.99	120.21	127.40
36	1	3295	A	C5-C6-N6	-8.99	116.51	123.70
38	4	64	U	N1-C2-N3	8.99	120.29	114.90
85	5	2395	G	O5'-P-OP1	8.99	121.49	110.70
36	1	157	A	C5-C6-N6	-8.99	116.51	123.70
36	1	1527	C	O5'-P-OP1	-8.99	97.61	105.70
85	5	1346	G	C2-N3-C4	-8.99	107.41	111.90
85	5	1799	A	C5-C6-N1	8.99	122.19	117.70
36	1	2369	G	C5-C6-O6	8.98	133.99	128.60
85	5	408	A	O5'-P-OP1	-8.98	97.61	105.70
36	1	156	G	C5-C6-N1	8.98	115.99	111.50
36	1	383	G	O5'-P-OP2	-8.98	97.61	105.70
36	1	823	C	N1-C2-N3	8.98	125.49	119.20
37	3	84	A	N7-C8-N9	8.98	118.29	113.80
80	6	608	U	C4-C5-C6	8.98	125.09	119.70
85	5	1937	U	C5-C6-N1	-8.98	118.21	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3003	G	N3-C4-N9	-8.98	120.61	126.00
1	2	49	C	N3-C4-C5	-8.98	118.31	121.90
36	1	2739	A	N9-C4-C5	-8.98	102.21	105.80
80	6	93	A	N1-C2-N3	8.98	133.79	129.30
80	6	548	G	N1-C2-N2	8.98	124.28	116.20
80	6	611	U	N1-C2-O2	8.98	129.09	122.80
85	5	53	G	N7-C8-N9	-8.98	108.61	113.10
85	5	1524	A	N9-C4-C5	8.98	109.39	105.80
36	1	616	G	N1-C2-N3	8.98	129.29	123.90
36	1	2118	C	N3-C4-N4	-8.98	111.71	118.00
85	5	1706	C	N3-C2-O2	-8.98	115.61	121.90
85	5	3127	A	C8-N9-C4	-8.98	102.21	105.80
38	8	134	G	N3-C4-C5	8.98	133.09	128.60
36	1	319	A	N1-C2-N3	8.98	133.79	129.30
40	L3	266	ARG	NE-CZ-NH1	-8.98	115.81	120.30
85	5	1159	A	C6-C5-N7	-8.98	126.02	132.30
85	5	2342	U	N1-C2-N3	8.98	120.29	114.90
36	1	2636	A	O5'-P-OP2	8.98	121.47	110.70
38	4	37	A	N7-C8-N9	8.98	118.29	113.80
80	6	703	G	C5-C6-N1	-8.98	107.01	111.50
85	5	40	A	N1-C2-N3	8.98	133.79	129.30
85	5	909	G	C2-N3-C4	-8.98	107.41	111.90
85	5	1475	A	N1-C2-N3	8.98	133.79	129.30
85	5	1531	C	N3-C4-N4	8.98	124.28	118.00
85	5	1899	G	C4-C5-N7	-8.98	107.21	110.80
36	1	911	C	C6-N1-C2	-8.97	116.71	120.30
36	1	2173	U	C4-C5-C6	8.97	125.08	119.70
80	6	558	U	C2-N3-C4	8.97	132.38	127.00
85	5	1613	A	C8-N9-C4	8.97	109.39	105.80
36	1	228	U	N3-C4-O4	-8.97	113.12	119.40
36	1	1300	G	C6-N1-C2	-8.97	119.72	125.10
36	1	1507	G	N1-C2-N3	8.97	129.28	123.90
36	1	3385	U	C6-N1-C2	8.97	126.38	121.00
85	5	37	U	O5'-P-OP1	-8.97	97.62	105.70
85	5	349	A	C2-N3-C4	8.97	115.09	110.60
85	5	882	A	N9-C4-C5	8.97	109.39	105.80
85	5	1145	G	C5-C6-N1	8.97	115.99	111.50
85	5	2362	C	N3-C2-O2	-8.97	115.62	121.90
85	5	3089	C	N1-C2-N3	8.97	125.48	119.20
38	8	81	U	N3-C4-C5	8.97	119.98	114.60
1	2	950	A	N1-C6-N6	8.97	123.98	118.60
36	1	1656	A	O5'-P-OP1	-8.97	97.63	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2231	C	N3-C4-N4	8.97	124.28	118.00
80	6	102	U	OP2-P-O3'	8.97	124.94	105.20
85	5	1106	G	N1-C6-O6	8.97	125.28	119.90
85	5	1178	G	N1-C2-N3	8.97	129.28	123.90
85	5	582	G	N7-C8-N9	8.97	117.58	113.10
36	1	2209	U	C4-C5-C6	-8.97	114.32	119.70
38	4	33	A	N1-C2-N3	8.97	133.78	129.30
80	6	1228	G	C2-N3-C4	8.97	116.38	111.90
85	5	918	C	O5'-P-OP1	8.97	121.46	110.70
85	5	1897	G	C5-C6-N1	-8.97	107.02	111.50
36	1	725	G	C6-C5-N7	-8.96	125.02	130.40
36	1	787	G	C8-N9-C4	-8.96	102.81	106.40
36	1	2943	G	N1-C6-O6	8.97	125.28	119.90
36	1	1335	C	O5'-P-OP1	8.96	121.46	110.70
36	1	1483	G	N9-C4-C5	8.96	108.98	105.40
36	1	2428	U	C2-N3-C4	-8.96	121.62	127.00
80	6	1105	C	C5-C4-N4	-8.97	113.92	120.20
85	5	2150	G	C4-C5-N7	8.97	114.39	110.80
85	5	2989	U	OP1-P-OP2	8.97	133.05	119.60
36	1	3215	A	C6-N1-C2	-8.96	113.22	118.60
80	6	339	C	OP2-P-O3'	8.96	124.92	105.20
85	5	223	U	O5'-P-OP2	-8.96	97.63	105.70
85	5	349	A	C5-N7-C8	-8.96	99.42	103.90
85	5	646	A	C8-N9-C4	-8.96	102.21	105.80
36	1	31	C	O5'-P-OP1	8.96	121.45	110.70
36	1	1913	A	C5-C6-N1	8.96	122.18	117.70
36	1	3045	G	N1-C6-O6	8.96	125.28	119.90
80	6	418	G	N3-C2-N2	8.96	126.17	119.90
85	5	1448	U	C2-N3-C4	-8.96	121.62	127.00
36	1	346	C	O5'-P-OP2	-8.96	97.64	105.70
36	1	2362	C	C4-C5-C6	-8.96	112.92	117.40
36	1	2645	G	C8-N9-C4	8.96	109.98	106.40
85	5	939	U	N1-C2-O2	-8.96	116.53	122.80
85	5	1003	A	C6-C5-N7	-8.96	126.03	132.30
85	5	2831	G	O5'-P-OP1	8.96	121.45	110.70
37	7	18	C	C6-N1-C2	8.96	123.89	120.30
36	1	2702	A	N1-C2-N3	8.96	133.78	129.30
80	6	1535	U	C4-C5-C6	8.96	125.08	119.70
85	5	792	G	C2-N3-C4	-8.96	107.42	111.90
85	5	1437	C	C2-N1-C1'	8.96	128.66	118.80
85	5	1882	G	C6-C5-N7	-8.96	125.02	130.40
36	1	1166	G	C5-C6-O6	-8.96	123.22	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1341	U	N3-C4-O4	8.96	125.67	119.40
38	4	8	C	C6-N1-C2	8.96	123.88	120.30
85	5	971	G	C8-N9-C4	8.96	109.98	106.40
36	1	1763	U	N1-C2-N3	-8.96	109.53	114.90
36	1	1825	G	C2-N3-C4	-8.96	107.42	111.90
85	5	1594	A	N9-C4-C5	8.96	109.38	105.80
38	8	66	A	C4-C5-C6	8.96	121.48	117.00
1	2	364	G	N9-C4-C5	8.96	108.98	105.40
1	2	375	U	N1-C2-N3	8.95	120.27	114.90
1	2	434	G	N1-C6-O6	8.96	125.27	119.90
1	2	1195	G	C4-C5-N7	8.96	114.38	110.80
36	1	343	U	N1-C2-O2	-8.96	116.53	122.80
36	1	1589	A	C6-N1-C2	-8.96	113.23	118.60
85	5	2299	A	N7-C8-N9	-8.95	109.32	113.80
85	5	2350	C	N3-C2-O2	-8.96	115.63	121.90
85	5	2755	C	N1-C2-N3	8.96	125.47	119.20
85	5	2881	C	N1-C2-N3	8.96	125.47	119.20
36	1	2621	G	O5'-P-OP1	8.95	121.44	110.70
36	1	2728	G	O5'-P-OP1	-8.95	97.64	105.70
37	3	83	U	N1-C2-N3	8.95	120.27	114.90
80	6	441	A	C2-N3-C4	-8.95	106.12	110.60
80	6	913	G	N3-C4-C5	8.95	133.08	128.60
85	5	1634	G	C2-N3-C4	-8.95	107.42	111.90
85	5	2282	U	OP1-P-OP2	-8.95	106.17	119.60
85	5	3102	G	N3-C4-C5	8.95	133.08	128.60
1	2	943	U	C6-N1-C2	-8.95	115.63	121.00
36	1	3236	U	N1-C2-O2	8.95	129.06	122.80
85	5	178	U	C5-C4-O4	-8.95	120.53	125.90
85	5	1491	A	C8-N9-C4	8.95	109.38	105.80
36	1	1306	G	C4-C5-C6	8.95	124.17	118.80
36	1	1742	U	C5-C6-N1	8.95	127.17	122.70
36	1	2849	C	OP1-P-OP2	-8.95	106.18	119.60
36	1	3056	U	N3-C4-O4	8.95	125.66	119.40
85	5	389	A	O5'-P-OP1	-8.95	97.64	105.70
85	5	1862	U	O5'-P-OP1	-8.95	97.65	105.70
85	5	2605	G	C5-C6-O6	-8.95	123.23	128.60
85	5	193	C	C2-N3-C4	-8.95	115.43	119.90
1	2	1449	G	O5'-P-OP2	-8.95	97.65	105.70
36	1	1368	U	C2-N3-C4	-8.95	121.63	127.00
36	1	2124	G	C2-N3-C4	-8.95	107.43	111.90
80	6	1136	U	N3-C4-O4	-8.95	113.14	119.40
36	1	2230	C	C5-C6-N1	8.94	125.47	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2624	G	C4-C5-N7	8.95	114.38	110.80
80	6	1117	U	O5'-P-OP1	8.95	121.44	110.70
1	2	390	G	C4-C5-N7	8.94	114.38	110.80
36	1	2821	C	N3-C4-C5	-8.94	118.32	121.90
1	2	1657	C	N3-C4-N4	8.94	124.26	118.00
36	1	2343	C	C5-C4-N4	-8.94	113.94	120.20
36	1	3285	C	N3-C4-C5	8.94	125.48	121.90
37	3	56	A	O5'-P-OP2	-8.94	97.65	105.70
85	5	22	G	N1-C6-O6	8.94	125.27	119.90
85	5	431	U	N3-C4-O4	8.94	125.66	119.40
85	5	741	U	O5'-P-OP2	8.94	121.43	110.70
85	5	1532	C	OP1-P-OP2	-8.94	106.19	119.60
85	5	1910	A	C5-C6-N1	-8.94	113.23	117.70
85	5	1912	U	C5-C6-N1	-8.94	118.23	122.70
85	5	2354	C	C2-N3-C4	8.94	124.37	119.90
85	5	1834	U	C6-N1-C2	-8.94	115.64	121.00
85	5	1904	C	C2-N3-C4	-8.94	115.43	119.90
85	5	2719	U	C5-C6-N1	-8.94	118.23	122.70
85	5	3187	A	O5'-P-OP1	8.94	121.43	110.70
36	1	1414	G	C8-N9-C4	-8.94	102.82	106.40
38	8	3	A	C4-C5-N7	8.94	115.17	110.70
36	1	835	G	N9-C4-C5	8.94	108.97	105.40
36	1	1133	A	C6-N1-C2	-8.94	113.24	118.60
36	1	2366	C	N3-C2-O2	-8.94	115.64	121.90
80	6	1234	A	C8-N9-C4	-8.94	102.22	105.80
36	1	1706	C	N3-C2-O2	-8.94	115.64	121.90
80	6	1010	C	C4-C5-C6	8.94	121.87	117.40
80	6	1053	G	C6-C5-N7	-8.94	125.04	130.40
80	6	1075	C	OP1-P-OP2	8.94	133.01	119.60
85	5	2973	G	N7-C8-N9	8.94	117.57	113.10
85	5	3097	C	C4-C5-C6	-8.94	112.93	117.40
85	5	3329	U	N1-C2-N3	8.94	120.26	114.90
1	2	28	A	N1-C2-N3	8.94	133.77	129.30
1	2	1807	C	N1-C2-O2	8.94	124.26	118.90
36	1	63	A	C5-N7-C8	-8.94	99.43	103.90
36	1	3259	U	C5-C6-N1	8.94	127.17	122.70
68	o2	39	ASP	CB-CG-OD1	-8.94	110.26	118.30
38	4	34	U	C5-C6-N1	-8.94	118.23	122.70
80	6	103	A	N1-C6-N6	8.94	123.96	118.60
85	5	21	G	N9-C4-C5	-8.94	101.83	105.40
85	5	224	C	OP1-P-OP2	-8.94	106.20	119.60
85	5	2743	A	C2-N3-C4	-8.94	106.13	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3107	U	N3-C4-O4	8.94	125.66	119.40
36	1	3302	U	C6-N1-C2	8.93	126.36	121.00
36	1	27	C	N1-C2-N3	8.93	125.45	119.20
36	1	1202	A	C6-C5-N7	-8.93	126.05	132.30
36	1	2430	A	C5-N7-C8	-8.93	99.43	103.90
36	1	2964	G	N1-C2-N3	8.93	129.26	123.90
38	4	26	U	OP1-P-OP2	8.93	133.00	119.60
85	5	101	G	N1-C6-O6	8.93	125.26	119.90
85	5	2523	A	C2-N3-C4	8.93	115.07	110.60
85	5	3023	U	C2-N3-C4	8.93	132.36	127.00
85	5	3046	A	C5-N7-C8	8.93	108.37	103.90
85	5	3210	A	C4-C5-N7	8.93	115.17	110.70
1	2	1728	G	C2-N3-C4	8.93	116.36	111.90
36	1	729	C	N3-C2-O2	-8.93	115.65	121.90
36	1	900	G	C8-N9-C4	-8.93	102.83	106.40
36	1	1664	G	N1-C6-O6	8.93	125.26	119.90
38	8	28	C	N3-C4-C5	8.93	125.47	121.90
36	1	408	A	C5-N7-C8	8.93	108.36	103.90
36	1	1106	G	OP1-P-OP2	8.93	132.99	119.60
36	1	1661	G	N1-C2-N2	-8.93	108.16	116.20
37	3	48	U	O5'-P-OP2	-8.93	97.66	105.70
80	6	211	U	N1-C2-N3	8.93	120.26	114.90
80	6	1757	G	N7-C8-N9	-8.93	108.64	113.10
80	6	1775	U	C2-N3-C4	-8.93	121.64	127.00
85	5	853	G	N1-C2-N3	8.93	129.26	123.90
85	5	950	G	C5-C6-N1	8.93	115.97	111.50
85	5	2419	A	C6-N1-C2	8.93	123.96	118.60
36	1	1528	G	N1-C2-N2	-8.93	108.17	116.20
36	1	1703	U	O5'-P-OP1	-8.93	97.67	105.70
38	4	49	G	C5-C6-N1	8.93	115.96	111.50
85	5	401	U	N1-C2-O2	-8.93	116.55	122.80
85	5	422	A	C5-C6-N6	8.93	130.84	123.70
85	5	533	A	N1-C2-N3	8.93	133.76	129.30
85	5	909	G	OP1-P-OP2	-8.93	106.21	119.60
85	5	1894	U	O5'-P-OP1	8.93	121.41	110.70
85	5	1903	U	N3-C2-O2	8.93	128.45	122.20
85	5	2404	A	N1-C6-N6	8.93	123.95	118.60
38	8	138	A	C6-N1-C2	-8.93	113.25	118.60
36	1	807	A	O5'-P-OP2	-8.92	97.67	105.70
36	1	978	G	C4-C5-N7	8.92	114.37	110.80
36	1	1322	U	N3-C4-C5	-8.92	109.25	114.60
85	5	2312	A	C2-N3-C4	8.92	115.06	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2615	G	C2-N3-C4	-8.92	107.44	111.90
38	4	13	A	N7-C8-N9	8.92	118.26	113.80
80	6	1656	U	N3-C4-O4	8.92	125.64	119.40
85	5	1942	U	N3-C2-O2	-8.92	115.95	122.20
85	5	2851	A	C4-C5-C6	8.92	121.46	117.00
1	2	607	G	C6-C5-N7	-8.92	125.05	130.40
1	2	821	G	C5-C6-O6	-8.92	123.25	128.60
36	1	2797	C	N3-C4-C5	-8.92	118.33	121.90
36	1	2979	U	N1-C2-O2	8.92	129.04	122.80
80	6	448	C	C2-N3-C4	-8.92	115.44	119.90
36	1	1615	C	C5-C6-N1	-8.92	116.54	121.00
85	5	1044	U	OP1-P-OP2	-8.92	106.22	119.60
85	5	1129	A	C4-C5-N7	8.92	115.16	110.70
85	5	1203	A	C8-N9-C4	-8.92	102.23	105.80
85	5	1904	C	N1-C2-O2	8.92	124.25	118.90
85	5	2292	U	C2-N3-C4	8.92	132.35	127.00
85	5	2791	G	O5'-P-OP2	-8.92	97.67	105.70
1	2	408	C	C2-N3-C4	-8.92	115.44	119.90
36	1	94	G	N1-C6-O6	-8.92	114.55	119.90
36	1	522	A	N1-C2-N3	8.92	133.76	129.30
36	1	567	G	N1-C6-O6	8.92	125.25	119.90
36	1	1417	G	C5-C6-N1	8.92	115.96	111.50
80	6	381	C	OP1-P-OP2	-8.92	106.22	119.60
36	1	3011	A	C5-N7-C8	8.92	108.36	103.90
85	5	143	G	C8-N9-C4	8.92	109.97	106.40
85	5	2096	A	C5-N7-C8	-8.92	99.44	103.90
85	5	2137	U	C2-N3-C4	-8.92	121.65	127.00
38	8	91	C	O5'-P-OP2	8.92	121.40	110.70
36	1	39	A	C4-C5-C6	-8.91	112.54	117.00
36	1	181	U	C6-N1-C2	-8.91	115.65	121.00
36	1	1003	A	N1-C2-N3	8.91	133.76	129.30
85	5	2936	A	O5'-P-OP2	-8.91	97.68	105.70
36	1	2396	G	C8-N9-C4	-8.91	102.83	106.40
80	6	107	C	C4-C5-C6	8.91	121.86	117.40
80	6	789	A	N1-C2-N3	8.91	133.76	129.30
36	1	3264	G	N7-C8-N9	-8.91	108.64	113.10
85	5	699	A	N1-C6-N6	8.91	123.95	118.60
85	5	1192	C	C2-N1-C1'	8.91	128.60	118.80
85	5	1309	U	N3-C4-O4	8.91	125.64	119.40
85	5	1609	C	N1-C2-O2	-8.91	113.55	118.90
85	5	2661	G	N3-C4-C5	-8.91	124.14	128.60
85	5	2799	A	C8-N9-C4	-8.91	102.23	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2703	A	C5-N7-C8	-8.91	99.44	103.90
37	7	52	G	N7-C8-N9	-8.91	108.64	113.10
36	1	2381	G	C6-C5-N7	-8.91	125.05	130.40
80	6	1681	A	C2-N3-C4	-8.91	106.14	110.60
85	5	1135	A	O5'-P-OP2	-8.91	97.68	105.70
85	5	2968	G	O5'-P-OP2	8.91	121.39	110.70
85	5	1492	G	C5-C6-N1	-8.91	107.05	111.50
85	5	2971	A	P-O3'-C3'	8.91	130.39	119.70
68	o2	33	ARG	NE-CZ-NH1	8.91	124.75	120.30
1	2	508	U	N3-C2-O2	8.91	128.44	122.20
1	2	801	C	C5-C6-N1	8.91	125.45	121.00
85	5	2246	G	C4-C5-N7	-8.91	107.24	110.80
85	5	2642	A	C5-N7-C8	-8.91	99.45	103.90
36	1	179	C	OP1-P-OP2	-8.91	106.24	119.60
36	1	494	G	C2-N3-C4	8.91	116.35	111.90
36	1	547	G	N3-C4-C5	8.91	133.05	128.60
36	1	1905	G	N3-C2-N2	-8.91	113.67	119.90
36	1	2367	A	N1-C6-N6	8.91	123.94	118.60
36	1	2766	U	O5'-P-OP2	-8.91	97.68	105.70
36	1	437	G	N1-C2-N3	-8.90	118.56	123.90
36	1	1055	A	O5'-P-OP2	8.90	121.39	110.70
85	5	1846	C	N1-C2-O2	8.90	124.24	118.90
36	1	221	A	O5'-P-OP2	-8.90	97.69	105.70
36	1	2130	G	OP1-P-OP2	-8.90	106.24	119.60
80	6	108	A	N1-C2-N3	8.90	133.75	129.30
85	5	2558	U	O5'-P-OP1	-8.90	97.69	105.70
85	5	726	G	C6-C5-N7	-8.90	125.06	130.40
85	5	1158	A	O5'-P-OP1	8.90	121.39	110.70
85	5	1410	U	O5'-P-OP1	8.90	121.38	110.70
37	7	60	G	N9-C4-C5	8.90	108.96	105.40
36	1	557	A	C4-C5-N7	-8.90	106.25	110.70
36	1	717	C	C2-N3-C4	-8.90	115.45	119.90
36	1	911	C	N1-C2-O2	-8.90	113.56	118.90
36	1	1562	C	N3-C4-C5	8.90	125.46	121.90
36	1	3208	G	C4-C5-N7	-8.90	107.24	110.80
85	5	628	A	C4-C5-N7	-8.90	106.25	110.70
85	5	1376	C	N3-C4-C5	-8.90	118.34	121.90
85	5	44	U	C6-N1-C2	8.90	126.34	121.00
85	5	1841	A	C6-C5-N7	-8.90	126.07	132.30
85	5	2997	G	N1-C6-O6	8.90	125.24	119.90
85	5	3190	C	N1-C2-N3	8.90	125.43	119.20
85	5	3209	A	N1-C6-N6	-8.90	113.26	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3387	U	C5-C6-N1	-8.90	118.25	122.70
36	1	38	U	N1-C2-N3	-8.90	109.56	114.90
36	1	1400	G	OP2-P-O3'	8.90	124.78	105.20
85	5	665	A	C5-C6-N6	-8.90	116.58	123.70
38	8	144	G	C2-N3-C4	8.90	116.35	111.90
1	2	1588	G	N1-C6-O6	8.90	125.24	119.90
36	1	387	A	N1-C6-N6	-8.90	113.26	118.60
36	1	558	U	C5-C6-N1	-8.90	118.25	122.70
36	1	632	G	N9-C4-C5	-8.90	101.84	105.40
36	1	891	G	O5'-P-OP2	-8.90	97.69	105.70
85	5	3348	G	N7-C8-N9	-8.90	108.65	113.10
36	1	2146	C	N1-C2-N3	8.90	125.43	119.20
36	1	2874	G	N1-C6-O6	8.90	125.24	119.90
85	5	497	C	OP1-P-OP2	-8.90	106.25	119.60
85	5	2138	A	C6-N1-C2	-8.90	113.26	118.60
36	1	924	G	C6-C5-N7	-8.89	125.06	130.40
36	1	945	C	N3-C4-C5	-8.89	118.34	121.90
85	5	1673	G	N1-C2-N2	-8.89	108.19	116.20
36	1	984	G	C5-N7-C8	-8.89	99.85	104.30
36	1	1765	U	C5-C4-O4	-8.89	120.56	125.90
80	6	1455	G	C8-N9-C4	-8.89	102.84	106.40
85	5	1788	C	N3-C2-O2	-8.89	115.67	121.90
85	5	1656	A	O5'-P-OP1	-8.89	97.70	105.70
85	5	2972	G	C5-N7-C8	-8.89	99.85	104.30
85	5	3188	G	N3-C4-C5	-8.89	124.15	128.60
85	5	3196	U	N3-C4-C5	8.89	119.94	114.60
36	1	609	G	N1-C2-N2	8.89	124.20	116.20
36	1	2638	C	C5-C6-N1	8.89	125.45	121.00
80	6	616	G	C8-N9-C4	-8.89	102.84	106.40
85	5	610	G	C5-C6-O6	8.89	133.94	128.60
85	5	916	G	N9-C4-C5	8.89	108.96	105.40
85	5	1347	U	N3-C4-C5	-8.89	109.27	114.60
85	5	1648	A	N1-C6-N6	8.89	123.94	118.60
38	8	27	U	N3-C2-O2	8.89	128.42	122.20
36	1	735	A	C8-N9-C4	8.89	109.36	105.80
36	1	3347	A	C2-N3-C4	8.89	115.05	110.60
85	5	1582	C	C5-C6-N1	8.89	125.44	121.00
85	5	1726	C	C6-N1-C2	8.89	123.86	120.30
85	5	3128	G	C5-C6-N1	8.89	115.95	111.50
85	5	3318	G	C2-N3-C4	-8.89	107.45	111.90
36	1	140	C	N1-C2-O2	8.89	124.23	118.90
36	1	3190	C	N3-C4-N4	8.89	124.22	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1487	G	C5-C6-O6	8.89	133.93	128.60
36	1	320	G	N1-C6-O6	-8.89	114.57	119.90
36	1	358	G	C5-C6-O6	-8.89	123.27	128.60
36	1	1082	U	C5-C4-O4	8.89	131.23	125.90
36	1	2216	G	OP1-P-OP2	-8.89	106.27	119.60
36	1	2799	A	N9-C4-C5	8.89	109.36	105.80
36	1	2899	C	N3-C4-N4	-8.89	111.78	118.00
37	3	83	U	C6-N1-C2	-8.89	115.67	121.00
38	4	57	C	OP2-P-O3'	8.89	124.75	105.20
85	5	384	A	C5-C6-N1	8.89	122.14	117.70
85	5	1477	A	C5-N7-C8	-8.89	99.46	103.90
85	5	1919	G	N7-C8-N9	8.89	117.54	113.10
85	5	2279	A	N9-C4-C5	8.89	109.36	105.80
85	5	2603	G	C2-N3-C4	-8.89	107.46	111.90
85	5	2761	G	N3-C4-N9	8.89	131.33	126.00
38	8	100	U	OP1-P-OP2	-8.89	106.27	119.60
1	2	561	G	C8-N9-C4	-8.89	102.85	106.40
1	2	859	G	C8-N9-C4	8.89	109.95	106.40
1	2	1442	C	N3-C4-C5	-8.89	118.35	121.90
1	2	1751	G	C4-C5-N7	-8.89	107.25	110.80
36	1	657	A	OP1-P-OP2	-8.89	106.27	119.60
80	6	321	C	N3-C2-O2	-8.89	115.68	121.90
85	5	2900	A	N1-C2-N3	8.89	133.74	129.30
1	2	1481	G	C8-N9-C4	8.88	109.95	106.40
85	5	2371	G	C8-N9-C4	8.88	109.95	106.40
38	8	17	A	C6-C5-N7	-8.89	126.08	132.30
36	1	21	G	OP1-P-OP2	-8.88	106.28	119.60
36	1	2957	G	N1-C6-O6	-8.88	114.57	119.90
36	1	3052	G	C6-C5-N7	-8.88	125.07	130.40
36	1	3388	C	OP1-P-OP2	-8.88	106.28	119.60
37	3	84	A	O5'-P-OP2	-8.88	97.70	105.70
80	6	1639	C	OP1-P-OP2	-8.88	106.28	119.60
85	5	703	G	C8-N9-C4	-8.88	102.85	106.40
85	5	897	U	C5-C4-O4	8.88	131.23	125.90
85	5	1487	G	N9-C4-C5	8.88	108.95	105.40
85	5	2177	G	C4-C5-N7	-8.88	107.25	110.80
85	5	2180	G	N3-C4-C5	8.88	133.04	128.60
85	5	2200	U	C2-N3-C4	-8.88	121.67	127.00
85	5	2608	G	C8-N9-C4	8.88	109.95	106.40
85	5	2773	C	N3-C2-O2	8.88	128.12	121.90
36	1	3117	C	N3-C2-O2	8.88	128.12	121.90
85	5	1264	G	C4-C5-N7	-8.88	107.25	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1151	U	C6-N1-C2	-8.88	115.67	121.00
1	2	1350	G	O5'-P-OP2	-8.88	97.71	105.70
36	1	299	G	C5-N7-C8	-8.88	99.86	104.30
36	1	343	U	C4-C5-C6	8.88	125.03	119.70
36	1	644	G	O5'-P-OP2	8.88	121.35	110.70
36	1	804	C	N3-C4-C5	8.88	125.45	121.90
36	1	837	A	O5'-P-OP2	-8.88	97.71	105.70
36	1	1363	A	C5-C6-N1	8.88	122.14	117.70
36	1	2117	A	N1-C6-N6	-8.88	113.27	118.60
36	1	3276	G	C6-N1-C2	8.88	130.43	125.10
85	5	332	C	C5-C6-N1	-8.88	116.56	121.00
85	5	1515	A	OP1-P-OP2	-8.88	106.28	119.60
85	5	2177	G	N9-C4-C5	8.88	108.95	105.40
85	5	2295	A	N1-C2-N3	8.88	133.74	129.30
40	l3	196	ARG	NE-CZ-NH1	8.88	124.74	120.30
1	2	1137	G	N1-C6-O6	8.88	125.22	119.90
36	1	880	G	C4-C5-N7	-8.88	107.25	110.80
85	5	427	C	OP2-P-O3'	8.88	124.73	105.20
36	1	438	A	N1-C6-N6	8.87	123.92	118.60
36	1	1490	A	C5-C6-N6	8.87	130.80	123.70
36	1	2878	G	C5-C6-N1	-8.87	107.06	111.50
36	1	3112	G	OP1-P-OP2	8.88	132.91	119.60
85	5	12	A	N1-C2-N3	8.87	133.74	129.30
85	5	1194	G	C8-N9-C4	-8.87	102.85	106.40
85	5	2376	G	C2-N3-C4	-8.88	107.46	111.90
85	5	3079	U	N1-C2-N3	8.87	120.22	114.90
85	5	3197	G	O5'-P-OP2	-8.87	97.71	105.70
1	2	1307	G	C8-N9-C4	-8.87	102.85	106.40
36	1	2396	G	N3-C2-N2	-8.87	113.69	119.90
38	4	138	A	C5-C6-N6	-8.87	116.60	123.70
85	5	2380	U	C4-C5-C6	8.87	125.02	119.70
36	1	1069	C	N3-C4-C5	8.87	125.45	121.90
37	3	86	U	O5'-P-OP2	-8.87	97.72	105.70
38	4	151	C	C4-C5-C6	8.87	121.84	117.40
85	5	388	G	O5'-P-OP1	8.87	121.35	110.70
85	5	873	C	N1-C2-N3	8.87	125.41	119.20
85	5	1449	A	C2-N3-C4	8.87	115.03	110.60
85	5	1541	G	N9-C4-C5	-8.87	101.85	105.40
85	5	3172	A	N3-C4-C5	-8.87	120.59	126.80
36	1	100	A	C5-C6-N6	8.87	130.80	123.70
36	1	2338	C	C2-N3-C4	-8.87	115.47	119.90
36	1	3309	G	C6-C5-N7	-8.87	125.08	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3343	G	C4-C5-C6	8.87	124.12	118.80
85	5	716	A	C2-N3-C4	-8.87	106.17	110.60
36	1	98	G	N3-C2-N2	-8.87	113.69	119.90
85	5	597	G	N1-C6-O6	-8.87	114.58	119.90
85	5	1860	G	OP1-P-OP2	-8.87	106.30	119.60
36	1	218	G	OP1-P-OP2	8.87	132.90	119.60
36	1	593	C	O5'-P-OP2	-8.87	97.72	105.70
36	1	789	A	C5-C6-N6	8.87	130.79	123.70
36	1	810	A	N7-C8-N9	8.87	118.23	113.80
36	1	1382	G	N3-C2-N2	-8.87	113.69	119.90
36	1	2419	A	N1-C2-N3	8.87	133.73	129.30
80	6	971	A	C6-N1-C2	-8.87	113.28	118.60
85	5	776	U	C2-N3-C4	-8.87	121.68	127.00
85	5	1409	G	C4-C5-N7	8.87	114.35	110.80
37	7	88	G	C4-C5-C6	8.87	124.12	118.80
85	5	1473	G	N7-C8-N9	-8.87	108.67	113.10
85	5	2858	U	OP1-P-OP2	-8.87	106.30	119.60
37	7	98	C	C6-N1-C2	8.87	123.85	120.30
1	2	625	C	C6-N1-C2	-8.87	116.75	120.30
1	2	1643	A	C5-C6-N6	-8.87	116.61	123.70
36	1	1286	A	N7-C8-N9	-8.87	109.37	113.80
1	2	535	A	C8-N9-C4	-8.86	102.25	105.80
36	1	1634	G	N9-C4-C5	8.87	108.95	105.40
36	1	2628	A	C2-N3-C4	8.87	115.03	110.60
36	1	2727	A	N9-C4-C5	8.87	109.35	105.80
36	1	2815	G	N1-C2-N3	8.86	129.22	123.90
36	1	3231	U	C5-C6-N1	-8.87	118.27	122.70
85	5	199	A	N1-C2-N3	8.87	133.73	129.30
85	5	509	U	C4-C5-C6	8.87	125.02	119.70
85	5	918	C	C4-C5-C6	-8.87	112.97	117.40
85	5	1310	G	N9-C4-C5	8.87	108.95	105.40
85	5	3227	A	N1-C2-N3	8.87	133.73	129.30
85	5	3330	A	O5'-P-OP1	8.86	121.34	110.70
36	1	1730	G	C6-N1-C2	-8.86	119.78	125.10
36	1	2893	C	C2-N3-C4	-8.86	115.47	119.90
80	6	394	C	C5-C4-N4	-8.86	114.00	120.20
80	6	1674	C	N3-C4-C5	8.86	125.44	121.90
36	1	701	G	N7-C8-N9	-8.86	108.67	113.10
36	1	1523	U	C6-N1-C2	-8.86	115.68	121.00
80	6	335	U	C2-N1-C1'	8.86	128.33	117.70
85	5	2830	G	C5-C6-O6	8.86	133.92	128.60
38	8	97	A	C4-C5-C6	8.86	121.43	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	447	U	C6-N1-C2	-8.86	115.69	121.00
36	1	275	U	N1-C2-O2	-8.86	116.60	122.80
36	1	955	U	O5'-P-OP1	-8.86	97.73	105.70
36	1	3310	A	C6-C5-N7	-8.86	126.10	132.30
37	3	80	G	C8-N9-C4	8.86	109.94	106.40
38	4	9	A	OP1-P-OP2	-8.86	106.31	119.60
80	6	420	A	C6-N1-C2	8.86	123.92	118.60
85	5	2142	A	C6-C5-N7	8.86	138.50	132.30
38	4	100	U	C6-N1-C1'	-8.86	108.80	121.20
80	6	540	G	N3-C2-N2	8.86	126.10	119.90
85	5	1506	A	N1-C2-N3	-8.86	124.87	129.30
85	5	1682	U	N3-C4-O4	8.86	125.60	119.40
85	5	2136	C	C5-C4-N4	8.86	126.40	120.20
85	5	2986	U	N3-C4-O4	8.86	125.60	119.40
85	5	897	U	N1-C2-N3	8.86	120.21	114.90
1	2	1109	G	C4-C5-N7	-8.86	107.26	110.80
36	1	752	C	C5-C4-N4	8.86	126.40	120.20
85	5	2275	A	N1-C6-N6	8.86	123.91	118.60
85	5	2939	G	N9-C4-C5	-8.86	101.86	105.40
85	5	3184	A	O5'-P-OP2	-8.86	97.73	105.70
36	1	939	U	C2-N3-C4	-8.86	121.69	127.00
36	1	2378	C	N3-C4-C5	8.86	125.44	121.90
85	5	2556	C	N3-C2-O2	-8.86	115.70	121.90
85	5	3004	C	C5-C6-N1	8.86	125.43	121.00
38	8	63	G	N1-C2-N3	8.86	129.21	123.90
36	1	1115	G	N7-C8-N9	8.85	117.53	113.10
85	5	646	A	N1-C2-N3	8.85	133.73	129.30
85	5	2728	G	C5-C6-O6	8.85	133.91	128.60
36	1	23	A	O5'-P-OP2	-8.85	97.73	105.70
36	1	596	C	C2-N3-C4	-8.85	115.47	119.90
36	1	787	G	C5-C6-N1	8.85	115.93	111.50
80	6	331	A	C4-C5-C6	8.85	121.43	117.00
80	6	901	G	C4-C5-N7	8.85	114.34	110.80
26	d4	132	ARG	NE-CZ-NH1	-8.85	115.87	120.30
85	5	600	G	C8-N9-C4	-8.85	102.86	106.40
85	5	994	G	C8-N9-C4	-8.85	102.86	106.40
85	5	2936	A	N7-C8-N9	8.85	118.23	113.80
85	5	1116	G	C4-C5-N7	-8.85	107.26	110.80
85	5	3047	U	C4-C5-C6	8.85	125.01	119.70
85	5	3128	G	O5'-P-OP1	-8.85	97.73	105.70
36	1	28	C	C4-C5-C6	8.85	121.83	117.40
36	1	2242	A	C6-N1-C2	-8.85	113.29	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	772	U	N1-C2-O2	-8.85	116.61	122.80
36	1	3118	C	OP2-P-O3'	8.85	124.67	105.20
80	6	1053	G	N1-C6-O6	8.85	125.21	119.90
80	6	1072	C	N3-C4-C5	8.85	125.44	121.90
85	5	969	C	N1-C2-O2	-8.85	113.59	118.90
85	5	1526	U	N1-C2-N3	8.85	120.21	114.90
36	1	2932	U	C5-C6-N1	-8.85	118.28	122.70
36	1	2989	U	C5-C6-N1	8.85	127.12	122.70
80	6	159	U	N1-C2-O2	8.85	128.99	122.80
80	6	368	U	C4-C5-C6	8.85	125.01	119.70
85	5	18	G	OP1-P-OP2	-8.85	106.33	119.60
85	5	3181	C	N3-C4-N4	8.85	124.19	118.00
1	2	887	G	C4-C5-N7	-8.85	107.26	110.80
36	1	1147	G	C5-C6-O6	8.85	133.91	128.60
80	6	1139	A	N1-C6-N6	-8.85	113.29	118.60
85	5	97	U	N1-C2-N3	-8.85	109.59	114.90
38	8	70	G	N3-C4-C5	-8.85	124.18	128.60
36	1	259	C	N3-C4-N4	-8.84	111.81	118.00
36	1	307	A	C4-C5-N7	-8.84	106.28	110.70
36	1	687	U	C6-N1-C2	-8.84	115.69	121.00
36	1	799	G	N1-C2-N3	8.84	129.21	123.90
36	1	926	A	C8-N9-C4	8.84	109.34	105.80
85	5	3296	A	C5-C6-N1	-8.84	113.28	117.70
36	1	1322	U	OP1-P-OP2	-8.84	106.34	119.60
36	1	2618	G	C5-C6-O6	8.84	133.91	128.60
36	1	2674	A	C8-N9-C4	-8.84	102.26	105.80
37	3	112	G	N3-C4-C5	-8.84	124.18	128.60
80	6	1139	A	C6-N1-C2	-8.84	113.30	118.60
80	6	1667	A	O5'-P-OP1	8.84	121.31	110.70
85	5	394	G	C4-C5-N7	-8.84	107.26	110.80
85	5	524	U	C6-N1-C2	8.84	126.31	121.00
85	5	2669	G	N1-C2-N2	8.84	124.16	116.20
85	5	2877	G	C5-C6-O6	-8.84	123.30	128.60
36	1	3350	C	N1-C2-O2	8.84	124.20	118.90
85	5	2656	A	C4-C5-C6	8.84	121.42	117.00
36	1	159	A	N1-C6-N6	8.84	123.90	118.60
36	1	2954	U	O5'-P-OP1	-8.84	97.74	105.70
36	1	2972	G	C5-C6-N1	8.84	115.92	111.50
85	5	705	A	N1-C2-N3	8.84	133.72	129.30
38	8	62	C	OP1-P-OP2	-8.84	106.34	119.60
37	3	78	U	C5-C6-N1	8.84	127.12	122.70
85	5	1311	G	C5-C6-O6	8.84	133.90	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1654	A	N1-C6-N6	-8.84	113.30	118.60
85	5	2524	A	C5-N7-C8	-8.84	99.48	103.90
85	5	2905	U	N1-C2-N3	8.84	120.20	114.90
36	1	1175	C	C4-C5-C6	8.84	121.82	117.40
36	1	1371	G	N3-C4-C5	8.84	133.02	128.60
80	6	195	G	N3-C4-C5	-8.84	124.18	128.60
85	5	3314	A	C6-N1-C2	-8.84	113.30	118.60
36	1	3228	C	O5'-P-OP2	-8.84	97.75	105.70
85	5	1575	A	N1-C6-N6	8.84	123.90	118.60
85	5	2635	A	C8-N9-C4	-8.84	102.27	105.80
38	8	92	A	C5-C6-N6	-8.84	116.63	123.70
36	1	340	C	N3-C4-C5	-8.83	118.37	121.90
36	1	933	A	N9-C4-C5	8.83	109.33	105.80
36	1	810	A	OP1-P-OP2	-8.83	106.35	119.60
36	1	964	G	C6-C5-N7	8.83	135.70	130.40
36	1	3239	G	C5-N7-C8	-8.83	99.88	104.30
36	1	2625	C	C5-C4-N4	-8.83	114.02	120.20
80	6	1468	U	N1-C2-O2	-8.83	116.62	122.80
85	5	11	A	N9-C4-C5	8.83	109.33	105.80
85	5	65	A	N9-C4-C5	-8.83	102.27	105.80
85	5	786	A	C6-C5-N7	-8.83	126.12	132.30
85	5	2946	A	C2-N3-C4	-8.83	106.18	110.60
36	1	44	U	C5-C6-N1	-8.83	118.28	122.70
36	1	604	G	N7-C8-N9	8.83	117.52	113.10
36	1	1390	A	C5-C6-N6	8.83	130.76	123.70
36	1	1867	A	N1-C6-N6	8.83	123.90	118.60
36	1	1893	A	C5-C6-N1	-8.83	113.28	117.70
38	4	106	C	N1-C2-O2	-8.83	113.60	118.90
38	4	113	U	C6-N1-C2	8.83	126.30	121.00
80	6	825	U	N1-C2-O2	-8.83	116.62	122.80
80	6	1143	A	C4-C5-N7	8.83	115.11	110.70
80	6	1201	G	C8-N9-C4	8.83	109.93	106.40
85	5	207	U	O5'-P-OP1	8.83	121.30	110.70
85	5	573	C	C6-N1-C2	8.83	123.83	120.30
85	5	2268	U	C2-N3-C4	8.83	132.30	127.00
85	5	2613	U	C6-N1-C2	-8.83	115.70	121.00
85	5	2975	U	N1-C2-O2	8.83	128.98	122.80
85	5	768	C	N1-C2-O2	-8.83	113.60	118.90
85	5	2818	U	C5-C4-O4	-8.83	120.60	125.90
85	5	2912	G	C4-C5-N7	-8.83	107.27	110.80
38	8	40	A	C4-C5-C6	8.83	121.41	117.00
36	1	715	A	N1-C2-N3	8.83	133.71	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1664	G	O5'-P-OP2	8.83	121.29	110.70
36	1	2218	G	C4-C5-N7	-8.83	107.27	110.80
36	1	3231	U	C5-C4-O4	8.83	131.20	125.90
85	5	893	C	N1-C2-N3	8.83	125.38	119.20
36	1	1893	A	N1-C2-N3	8.83	133.71	129.30
85	5	1133	A	OP1-P-OP2	-8.83	106.36	119.60
85	5	1311	G	C5-C6-N1	-8.83	107.09	111.50
85	5	1375	G	C8-N9-C4	-8.83	102.87	106.40
85	5	1607	U	C2-N1-C1'	8.83	128.29	117.70
85	5	1624	G	N1-C2-N3	8.82	129.19	123.90
36	1	882	A	C5-C6-N1	-8.82	113.29	117.70
36	1	1949	G	C4-C5-N7	8.82	114.33	110.80
36	1	2954	U	C4-C5-C6	8.82	124.99	119.70
85	5	2737	C	C4-C5-C6	8.82	121.81	117.40
85	5	3185	U	O5'-P-OP2	-8.82	97.76	105.70
36	1	1148	G	C6-C5-N7	-8.82	125.11	130.40
36	1	1294	A	O5'-P-OP2	-8.82	97.76	105.70
36	1	1310	G	N1-C2-N2	-8.82	108.26	116.20
36	1	687	U	N1-C2-O2	-8.82	116.63	122.80
36	1	984	G	C8-N9-C4	-8.82	102.87	106.40
36	1	2701	U	N1-C2-O2	8.82	128.97	122.80
85	5	2123	G	N1-C6-O6	8.82	125.19	119.90
85	5	3021	A	C5-N7-C8	-8.82	99.49	103.90
85	5	3239	G	N1-C6-O6	8.82	125.19	119.90
36	1	1136	A	C2-N3-C4	-8.82	106.19	110.60
36	1	2246	G	C4-C5-N7	-8.82	107.27	110.80
36	1	3217	C	C2-N1-C1'	8.82	128.50	118.80
80	6	1645	G	N7-C8-N9	8.82	117.51	113.10
85	5	1841	A	N7-C8-N9	8.82	118.21	113.80
85	5	3296	A	C4-C5-C6	8.82	121.41	117.00
38	8	117	C	N3-C2-O2	8.82	128.07	121.90
36	1	718	G	N7-C8-N9	8.82	117.51	113.10
85	5	2804	A	N9-C4-C5	8.82	109.33	105.80
1	2	1152	G	C2-N3-C4	8.82	116.31	111.90
1	2	1567	G	C5-C6-O6	8.82	133.89	128.60
36	1	1441	G	C2-N3-C4	-8.82	107.49	111.90
36	1	2728	G	C2-N3-C4	8.82	116.31	111.90
85	5	387	A	N9-C4-C5	8.82	109.33	105.80
85	5	1409	G	C6-C5-N7	-8.82	125.11	130.40
37	7	88	G	O5'-P-OP2	-8.82	97.76	105.70
85	5	820	A	C5-N7-C8	-8.82	99.49	103.90
85	5	2858	U	N3-C2-O2	-8.82	116.03	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	314	U	C5-C6-N1	-8.81	118.29	122.70
36	1	780	A	C8-N9-C4	-8.81	102.27	105.80
36	1	1552	G	N1-C6-O6	8.81	125.19	119.90
36	1	3001	C	O5'-P-OP1	8.81	121.28	110.70
36	1	3239	G	C2-N3-C4	-8.81	107.49	111.90
36	1	3306	U	C2-N3-C4	-8.81	121.71	127.00
37	3	36	C	N1-C2-O2	8.81	124.19	118.90
80	6	1015	U	C4-C5-C6	8.81	124.99	119.70
80	6	1627	U	C6-N1-C2	-8.81	115.71	121.00
85	5	1512	U	OP1-P-OP2	8.81	132.82	119.60
85	5	3048	A	C6-N1-C2	-8.81	113.31	118.60
38	8	17	A	N1-C6-N6	8.81	123.89	118.60
36	1	82	C	C5-C6-N1	-8.81	116.59	121.00
36	1	865	U	C2-N3-C4	-8.81	121.71	127.00
36	1	965	A	C8-N9-C4	-8.81	102.28	105.80
85	5	1319	G	O5'-P-OP1	-8.81	97.77	105.70
36	1	1290	A	C2-N3-C4	-8.81	106.19	110.60
36	1	2169	G	N7-C8-N9	-8.81	108.69	113.10
36	1	2789	U	O5'-P-OP1	-8.81	97.77	105.70
80	6	18	C	N3-C4-N4	8.81	124.17	118.00
80	6	43	A	N3-C4-C5	-8.81	120.63	126.80
80	6	722	G	C5-C6-O6	-8.81	123.31	128.60
80	6	1014	G	C4-C5-C6	8.81	124.09	118.80
80	6	1654	G	C6-C5-N7	-8.81	125.11	130.40
1	2	586	G	N3-C4-C5	-8.81	124.20	128.60
1	2	1174	U	N3-C2-O2	-8.81	116.03	122.20
36	1	614	C	C2-N3-C4	-8.81	115.50	119.90
36	1	1119	C	C6-N1-C2	8.81	123.82	120.30
36	1	3121	U	O5'-P-OP1	-8.81	97.77	105.70
80	6	931	C	N3-C4-N4	8.81	124.17	118.00
85	5	201	A	OP1-P-O3'	8.81	124.58	105.20
85	5	660	A	C5-N7-C8	8.81	108.30	103.90
85	5	2553	U	C4-C5-C6	8.81	124.98	119.70
85	5	200	C	C4-C5-C6	-8.81	113.00	117.40
85	5	742	G	N7-C8-N9	8.81	117.50	113.10
85	5	2599	U	N3-C2-O2	8.81	128.37	122.20
85	5	2856	G	O5'-P-OP1	-8.81	97.77	105.70
38	8	36	G	N1-C2-N3	8.81	129.19	123.90
50	m4	117	ARG	NE-CZ-NH1	-8.81	115.89	120.30
1	2	263	C	C6-N1-C2	-8.81	116.78	120.30
85	5	582	G	C8-N9-C4	-8.81	102.88	106.40
85	5	795	G	C4-C5-C6	8.81	124.08	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1639	U	OP1-P-OP2	-8.80	106.40	119.60
36	1	426	G	C6-N1-C2	-8.80	119.82	125.10
36	1	775	A	C5-C6-N1	-8.80	113.30	117.70
36	1	857	G	N3-C4-N9	-8.80	120.72	126.00
36	1	917	A	N7-C8-N9	-8.80	109.40	113.80
36	1	938	C	OP1-P-OP2	-8.80	106.39	119.60
36	1	1355	A	C8-N9-C4	8.80	109.32	105.80
36	1	1437	C	C6-N1-C2	-8.80	116.78	120.30
36	1	2380	U	N3-C2-O2	8.80	128.36	122.20
36	1	3177	G	C6-C5-N7	8.80	135.68	130.40
80	6	151	G	N3-C2-N2	-8.80	113.74	119.90
80	6	422	G	C6-C5-N7	-8.80	125.12	130.40
80	6	624	G	C5-C6-N1	-8.80	107.10	111.50
80	6	1079	U	N3-C4-O4	-8.80	113.24	119.40
85	5	1165	A	C4-C5-N7	-8.80	106.30	110.70
1	2	447	U	N3-C4-O4	8.80	125.56	119.40
80	6	926	A	N7-C8-N9	8.80	118.20	113.80
80	6	1738	U	N3-C4-C5	-8.80	109.32	114.60
1	2	49	C	C6-N1-C2	-8.80	116.78	120.30
36	1	586	C	N1-C2-O2	-8.80	113.62	118.90
36	1	627	U	C5-C6-N1	8.80	127.10	122.70
36	1	1419	A	O5'-P-OP2	-8.80	97.78	105.70
36	1	2215	A	N3-C4-C5	8.80	132.96	126.80
85	5	610	G	N1-C6-O6	-8.80	114.62	119.90
85	5	1184	A	C5-N7-C8	8.80	108.30	103.90
85	5	885	U	C5-C6-N1	8.80	127.10	122.70
1	2	580	A	C8-N9-C4	-8.80	102.28	105.80
36	1	2829	U	OP1-P-OP2	8.80	132.80	119.60
85	5	944	C	O5'-P-OP1	-8.80	97.78	105.70
36	1	2858	U	N3-C4-O4	8.80	125.56	119.40
80	6	1106	U	C5-C6-N1	8.80	127.10	122.70
85	5	525	C	C2-N3-C4	-8.80	115.50	119.90
85	5	693	A	C6-N1-C2	-8.80	113.32	118.60
85	5	3089	C	N1-C2-O2	-8.80	113.62	118.90
85	5	3324	C	C5-C6-N1	-8.80	116.60	121.00
85	5	3333	G	C5-C6-N1	-8.80	107.10	111.50
1	2	921	G	C5-C6-N1	8.80	115.90	111.50
1	2	1372	C	C6-N1-C2	-8.80	116.78	120.30
36	1	53	G	C5-C6-O6	8.80	133.88	128.60
36	1	575	G	N1-C2-N2	8.79	124.11	116.20
36	1	906	A	C5-C6-N6	-8.79	116.67	123.70
36	1	2331	C	N1-C2-O2	-8.79	113.62	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	135	C	C6-N1-C2	-8.79	116.78	120.30
85	5	392	G	N7-C8-N9	8.79	117.50	113.10
85	5	651	G	O5'-P-OP1	-8.79	97.78	105.70
85	5	786	A	C5-C6-N1	-8.79	113.30	117.70
85	5	1200	A	N7-C8-N9	-8.79	109.40	113.80
85	5	3176	G	O5'-P-OP2	8.80	121.26	110.70
85	5	2096	A	N7-C8-N9	8.79	118.20	113.80
85	5	2852	C	C5-C6-N1	-8.79	116.60	121.00
85	5	2873	U	N1-C2-O2	-8.79	116.64	122.80
85	5	3178	A	C5-C6-N6	8.79	130.74	123.70
36	1	274	G	N7-C8-N9	-8.79	108.70	113.10
36	1	586	C	C5-C4-N4	-8.79	114.05	120.20
36	1	610	G	N3-C2-N2	-8.79	113.75	119.90
36	1	1887	A	C2-N3-C4	-8.79	106.20	110.60
36	1	727	G	C6-N1-C2	-8.79	119.83	125.10
36	1	2519	A	C2-N3-C4	-8.79	106.20	110.60
80	6	64	U	C5-C6-N1	-8.79	118.30	122.70
80	6	453	U	C2-N1-C1'	8.79	128.25	117.70
80	6	1673	G	C6-N1-C2	8.79	130.38	125.10
85	5	3	U	N1-C2-O2	8.79	128.95	122.80
85	5	246	U	N3-C2-O2	-8.79	116.05	122.20
85	5	366	A	C4-C5-C6	8.79	121.40	117.00
85	5	693	A	C5-N7-C8	-8.79	99.50	103.90
85	5	760	G	N7-C8-N9	8.79	117.50	113.10
85	5	1264	G	C2-N3-C4	8.79	116.30	111.90
85	5	1524	A	C8-N9-C4	-8.79	102.28	105.80
85	5	1536	G	C6-C5-N7	-8.79	125.12	130.40
85	5	2272	G	N1-C2-N2	8.79	124.11	116.20
85	5	3117	C	N3-C4-C5	8.79	125.42	121.90
1	2	1436	G	N9-C4-C5	-8.79	101.88	105.40
36	1	28	C	C2-N3-C4	-8.79	115.50	119.90
36	1	217	U	C2-N3-C4	-8.79	121.73	127.00
36	1	426	G	C5-N7-C8	8.79	108.69	104.30
36	1	676	G	N1-C2-N2	-8.79	108.29	116.20
36	1	2342	U	N3-C2-O2	8.79	128.35	122.20
36	1	2971	A	N3-C4-C5	-8.79	120.65	126.80
80	6	830	U	O5'-P-OP2	-8.79	97.79	105.70
4	s2	134	LEU	CB-CG-CD2	-8.79	96.06	111.00
85	5	1175	C	C5-C6-N1	8.79	125.39	121.00
36	1	1122	U	N3-C4-O4	8.79	125.55	119.40
36	1	1163	A	OP1-P-OP2	8.79	132.78	119.60
36	1	2216	G	N7-C8-N9	8.79	117.49	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1115	U	N3-C2-O2	8.79	128.35	122.20
85	5	79	U	N3-C2-O2	-8.79	116.05	122.20
85	5	2907	G	N3-C4-C5	8.79	133.00	128.60
85	5	1529	A	O5'-P-OP2	-8.79	97.79	105.70
85	5	2869	U	N1-C2-O2	8.79	128.95	122.80
85	5	3138	U	N3-C4-C5	-8.79	109.33	114.60
38	8	32	C	C5-C6-N1	8.79	125.39	121.00
36	1	2639	G	N7-C8-N9	8.79	117.49	113.10
85	5	660	A	C4-C5-N7	-8.79	106.31	110.70
1	2	1330	U	N3-C2-O2	8.78	128.35	122.20
36	1	125	C	C2-N3-C4	-8.79	115.51	119.90
36	1	2289	U	N1-C2-N3	8.79	120.17	114.90
36	1	2758	A	C5-C6-N1	8.79	122.09	117.70
85	5	218	G	C8-N9-C4	8.78	109.91	106.40
85	5	735	A	C5-C6-N1	-8.79	113.31	117.70
85	5	2172	A	C2-N3-C4	-8.79	106.21	110.60
85	5	2816	G	N1-C2-N3	8.79	129.17	123.90
85	5	2998	U	C5-C4-O4	-8.79	120.63	125.90
1	2	1535	U	C2-N3-C4	8.78	132.27	127.00
36	1	1865	A	C2-N3-C4	-8.78	106.21	110.60
80	6	69	G	C8-N9-C4	8.78	109.91	106.40
85	5	89	A	C6-N1-C2	8.78	123.87	118.60
85	5	2416	U	O5'-P-OP1	8.78	121.24	110.70
36	1	2290	C	O5'-P-OP2	-8.78	97.80	105.70
36	1	3373	U	C2-N3-C4	-8.78	121.73	127.00
85	5	304	G	N9-C4-C5	8.78	108.91	105.40
85	5	674	G	C6-C5-N7	8.78	135.67	130.40
85	5	811	U	C4-C5-C6	8.78	124.97	119.70
85	5	1129	A	O5'-P-OP1	8.78	121.24	110.70
85	5	1936	A	N1-C6-N6	8.78	123.87	118.60
85	5	2711	C	N3-C4-C5	-8.78	118.39	121.90
37	7	92	A	N1-C6-N6	-8.78	113.33	118.60
37	7	111	U	N1-C2-N3	8.78	120.17	114.90
1	2	813	U	C2-N1-C1'	8.78	128.24	117.70
36	1	1377	G	N7-C8-N9	8.78	117.49	113.10
85	5	1547	G	O5'-P-OP2	8.78	121.24	110.70
36	1	644	G	N1-C2-N3	8.78	129.17	123.90
85	5	2659	G	N9-C4-C5	-8.78	101.89	105.40
36	1	613	G	C8-N9-C4	-8.78	102.89	106.40
36	1	1483	G	C6-N1-C2	-8.78	119.83	125.10
80	6	1091	A	OP1-P-OP2	8.78	132.76	119.60
85	5	3202	G	C6-N1-C2	-8.78	119.83	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	730	C	C2-N3-C4	-8.78	115.51	119.90
36	1	1471	U	C2-N3-C4	-8.78	121.73	127.00
36	1	2684	C	C6-N1-C2	8.78	123.81	120.30
36	1	2833	A	C5-C6-N1	-8.78	113.31	117.70
85	5	3040	A	N1-C6-N6	8.78	123.86	118.60
38	8	39	G	N1-C6-O6	-8.78	114.63	119.90
1	2	1289	C	N1-C2-O2	8.77	124.16	118.90
1	2	1793	G	C2-N3-C4	8.77	116.29	111.90
36	1	615	U	N3-C2-O2	-8.77	116.06	122.20
36	1	803	C	O5'-P-OP2	-8.77	97.81	105.70
36	1	2689	A	N1-C2-N3	8.77	133.69	129.30
36	1	3028	G	C4-C5-N7	8.77	114.31	110.80
38	4	144	G	N1-C2-N3	8.77	129.16	123.90
80	6	22	A	C5-C6-N1	8.77	122.09	117.70
85	5	1212	A	C6-N1-C2	-8.77	113.34	118.60
85	5	1296	C	N3-C4-N4	8.77	124.14	118.00
85	5	1373	A	O5'-P-OP1	8.77	121.23	110.70
85	5	2689	A	O5'-P-OP2	8.77	121.23	110.70
85	5	2987	A	N9-C4-C5	8.77	109.31	105.80
37	7	24	A	C5-C6-N1	-8.77	113.31	117.70
36	1	436	A	C2-N3-C4	-8.77	106.21	110.60
36	1	1094	U	C5-C6-N1	8.77	127.08	122.70
85	5	1035	G	C5-C6-N1	8.77	115.89	111.50
80	6	125	U	N1-C2-O2	-8.77	116.66	122.80
85	5	575	G	C5-C6-O6	8.77	133.86	128.60
85	5	692	A	O5'-P-OP1	-8.77	97.81	105.70
85	5	2524	A	N7-C8-N9	8.77	118.19	113.80
85	5	3081	C	N1-C2-O2	-8.77	113.64	118.90
85	5	3190	C	C2-N3-C4	-8.77	115.52	119.90
1	2	228	G	N9-C4-C5	-8.77	101.89	105.40
85	5	222	A	O5'-P-OP2	-8.77	97.81	105.70
85	5	2293	C	C6-N1-C2	-8.77	116.79	120.30
85	5	2429	G	C5-C6-O6	8.77	133.86	128.60
36	1	761	A	N1-C2-N3	8.77	133.68	129.30
36	1	867	G	N3-C2-N2	-8.77	113.76	119.90
36	1	1525	G	N7-C8-N9	8.77	117.48	113.10
36	1	1910	A	O5'-P-OP2	-8.77	97.81	105.70
36	1	2822	U	C5-C6-N1	8.77	127.08	122.70
85	5	270	U	N1-C2-N3	-8.77	109.64	114.90
36	1	2393	G	C6-N1-C2	-8.77	119.84	125.10
36	1	2821	C	C6-N1-C2	-8.77	116.79	120.30
85	5	384	A	C6-N1-C2	-8.77	113.34	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2995	A	C4-C5-C6	8.77	121.38	117.00
80	6	386	G	N1-C6-O6	-8.77	114.64	119.90
85	5	1530	U	OP1-P-OP2	8.77	132.75	119.60
85	5	2725	U	N3-C4-O4	8.77	125.53	119.40
85	5	3327	G	C6-N1-C2	8.77	130.36	125.10
36	1	233	C	C2-N3-C4	-8.76	115.52	119.90
1	2	1110	G	C5-C6-O6	8.76	133.86	128.60
36	1	1585	C	N3-C2-O2	8.76	128.03	121.90
36	1	2169	G	C6-C5-N7	8.76	135.66	130.40
36	1	2334	U	C6-N1-C2	8.76	126.26	121.00
36	1	2369	G	N1-C2-N3	8.76	129.16	123.90
80	6	281	G	N1-C6-O6	8.76	125.16	119.90
80	6	1353	U	C2-N1-C1'	-8.76	107.18	117.70
80	6	1566	U	C6-N1-C2	8.76	126.26	121.00
80	6	1662	G	C8-N9-C4	8.76	109.91	106.40
85	5	504	A	C2-N3-C4	-8.76	106.22	110.60
85	5	973	A	C5-C6-N1	-8.76	113.32	117.70
85	5	1197	A	N3-C4-C5	-8.76	120.67	126.80
85	5	1599	G	N7-C8-N9	-8.76	108.72	113.10
85	5	2811	A	N9-C4-C5	8.76	109.31	105.80
85	5	2959	C	OP2-P-O3'	8.76	124.48	105.20
1	2	29	U	C6-N1-C2	8.76	126.26	121.00
1	2	623	A	N1-C6-N6	-8.76	113.34	118.60
36	1	2373	A	C5-C6-N1	-8.76	113.32	117.70
1	2	518	A	C2-N3-C4	-8.76	106.22	110.60
36	1	114	A	N9-C4-C5	-8.76	102.30	105.80
36	1	277	G	C8-N9-C4	-8.76	102.90	106.40
36	1	1060	U	C4-C5-C6	-8.76	114.44	119.70
36	1	1126	G	N1-C6-O6	8.76	125.16	119.90
85	5	157	A	N9-C4-C5	8.76	109.30	105.80
85	5	391	A	C5-C6-N6	8.76	130.71	123.70
36	1	3065	G	C2-N3-C4	-8.76	107.52	111.90
80	6	1299	G	C4-C5-C6	8.76	124.06	118.80
85	5	292	U	C6-N1-C2	8.76	126.26	121.00
85	5	3049	A	C8-N9-C4	8.76	109.31	105.80
37	7	103	A	C4-C5-C6	-8.76	112.62	117.00
85	5	1454	A	C2-N3-C4	-8.76	106.22	110.60
85	5	3330	A	N9-C4-C5	8.76	109.30	105.80
85	5	2874	G	N1-C2-N2	-8.76	108.32	116.20
1	2	1771	G	C5-C6-N1	-8.76	107.12	111.50
36	1	1326	A	C6-N1-C2	-8.76	113.35	118.60
36	1	1514	G	N1-C6-O6	8.76	125.15	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2095	G	C4-C5-C6	-8.76	113.55	118.80
36	1	2628	A	N7-C8-N9	8.76	118.18	113.80
85	5	2860	U	C5-C6-N1	-8.76	118.32	122.70
37	7	53	U	N3-C2-O2	-8.76	116.07	122.20
36	1	3181	C	O5'-P-OP2	-8.76	97.82	105.70
38	4	116	G	O5'-P-OP2	-8.76	97.82	105.70
80	6	872	G	C4-C5-C6	8.76	124.05	118.80
85	5	61	A	N9-C4-C5	8.76	109.30	105.80
85	5	295	A	C5-N7-C8	-8.76	99.52	103.90
85	5	2140	U	C6-N1-C2	-8.76	115.75	121.00
85	5	2716	U	N3-C2-O2	-8.76	116.07	122.20
85	5	2960	C	C5-C6-N1	-8.76	116.62	121.00
1	2	776	A	C2-N3-C4	8.75	114.98	110.60
36	1	116	A	O5'-P-OP2	8.75	121.20	110.70
36	1	1124	U	C4-C5-C6	-8.75	114.45	119.70
36	1	1355	A	N7-C8-N9	-8.75	109.42	113.80
36	1	1675	G	C5-C6-O6	-8.75	123.35	128.60
36	1	1747	G	N3-C4-N9	-8.75	120.75	126.00
36	1	2943	G	C8-N9-C4	-8.75	102.90	106.40
85	5	1472	U	N3-C4-O4	-8.75	113.27	119.40
80	6	107	C	C6-N1-C2	8.75	123.80	120.30
80	6	1226	A	C2-N3-C4	8.75	114.98	110.60
85	5	342	A	C8-N9-C4	-8.75	102.30	105.80
85	5	2124	G	N3-C4-N9	-8.75	120.75	126.00
85	5	3198	U	C4-C5-C6	-8.75	114.45	119.70
1	2	153	G	C5-C6-O6	8.75	133.85	128.60
36	1	403	C	C5-C4-N4	8.75	126.33	120.20
36	1	322	U	N3-C2-O2	-8.75	116.08	122.20
36	1	2212	C	N3-C2-O2	8.75	128.03	121.90
36	1	2429	G	C8-N9-C4	-8.75	102.90	106.40
36	1	3110	C	OP2-P-O3'	8.75	124.45	105.20
36	1	3335	A	C5-C6-N1	8.75	122.08	117.70
80	6	239	C	O5'-P-OP2	8.75	121.20	110.70
36	1	2995	A	C5-C6-N1	-8.75	113.33	117.70
80	6	19	A	C8-N9-C4	8.75	109.30	105.80
80	6	444	C	N1-C2-O2	8.75	124.15	118.90
80	6	1300	A	N1-C2-N3	8.75	133.68	129.30
85	5	168	U	C5-C4-O4	8.75	131.15	125.90
85	5	787	G	C5-N7-C8	8.75	108.67	104.30
85	5	846	A	N1-C2-N3	8.75	133.68	129.30
85	5	2129	U	C2-N3-C4	-8.75	121.75	127.00
37	7	63	A	OP1-P-OP2	-8.75	106.47	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2624	G	C6-C5-N7	-8.75	125.15	130.40
85	5	3021	A	C8-N9-C4	-8.75	102.30	105.80
85	5	3299	A	N1-C6-N6	-8.75	113.35	118.60
36	1	795	G	N1-C6-O6	8.75	125.15	119.90
36	1	1727	G	N3-C2-N2	8.75	126.02	119.90
36	1	2608	G	C5-C6-N1	-8.75	107.13	111.50
1	2	1612	G	N9-C4-C5	8.75	108.90	105.40
36	1	2893	C	N1-C2-O2	8.75	124.15	118.90
36	1	3102	G	N9-C4-C5	8.75	108.90	105.40
36	1	3295	A	C5-C6-N1	8.75	122.07	117.70
80	6	346	G	C8-N9-C4	-8.75	102.90	106.40
85	5	498	A	C5-N7-C8	-8.75	99.53	103.90
85	5	2590	A	N1-C6-N6	8.75	123.85	118.60
85	5	3195	U	N1-C2-N3	-8.75	109.65	114.90
37	7	44	C	N3-C2-O2	8.75	128.02	121.90
1	2	724	C	N3-C2-O2	-8.74	115.78	121.90
36	1	193	C	C5-C4-N4	-8.74	114.08	120.20
36	1	924	G	N1-C2-N2	-8.74	108.33	116.20
36	1	1305	U	C5-C4-O4	8.74	131.15	125.90
36	1	2991	A	N3-C4-C5	8.74	132.92	126.80
38	4	111	A	N7-C8-N9	8.74	118.17	113.80
38	4	130	C	N3-C2-O2	8.74	128.02	121.90
80	6	985	G	C2-N3-C4	-8.74	107.53	111.90
85	5	202	G	N3-C4-C5	8.74	132.97	128.60
85	5	2786	G	O5'-P-OP1	8.74	121.19	110.70
1	2	1647	C	OP1-P-OP2	-8.74	106.49	119.60
36	1	1527	C	N1-C2-O2	8.74	124.14	118.90
36	1	1664	G	N3-C4-C5	8.74	132.97	128.60
36	1	1886	A	C5-C6-N6	8.74	130.69	123.70
36	1	2331	C	O5'-P-OP1	-8.74	97.83	105.70
36	1	2974	U	N3-C4-O4	8.74	125.52	119.40
85	5	377	A	C8-N9-C4	-8.74	102.30	105.80
85	5	787	G	C5-C6-O6	8.74	133.84	128.60
85	5	1498	A	N1-C2-N3	-8.74	124.93	129.30
85	5	1503	A	N9-C4-C5	-8.74	102.30	105.80
85	5	2372	A	O5'-P-OP2	-8.74	97.83	105.70
85	5	2408	U	N1-C2-O2	-8.74	116.68	122.80
85	5	3228	C	N1-C2-O2	8.74	124.14	118.90
1	2	803	U	C5-C6-N1	8.74	127.07	122.70
36	1	934	G	C4-C5-N7	8.74	114.30	110.80
36	1	2727	A	C4-C5-N7	-8.74	106.33	110.70
85	5	415	G	C6-N1-C2	-8.74	119.86	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3324	C	C4-C5-C6	8.74	121.77	117.40
36	1	1461	A	C4-C5-N7	8.74	115.07	110.70
36	1	2787	G	OP1-P-O3'	8.74	124.43	105.20
80	6	942	G	C5-N7-C8	-8.74	99.93	104.30
36	1	2915	U	N1-C2-O2	-8.74	116.68	122.80
80	6	885	G	N3-C2-N2	-8.74	113.78	119.90
85	5	255	A	N1-C6-N6	8.74	123.84	118.60
85	5	319	A	C5-C6-N1	-8.74	113.33	117.70
85	5	851	C	N1-C2-O2	-8.74	113.66	118.90
85	5	3299	A	C6-N1-C2	-8.74	113.36	118.60
38	8	56	G	C2-N3-C4	-8.74	107.53	111.90
1	2	161	U	C5-C6-N1	-8.74	118.33	122.70
36	1	863	C	N3-C4-C5	8.74	125.39	121.90
36	1	2525	G	C6-N1-C2	-8.74	119.86	125.10
80	6	356	G	N3-C4-C5	-8.74	124.23	128.60
80	6	765	G	N3-C2-N2	-8.74	113.78	119.90
80	6	1017	U	OP1-P-OP2	8.74	132.71	119.60
85	5	403	C	C5-C4-N4	-8.74	114.08	120.20
36	1	323	A	C6-N1-C2	-8.74	113.36	118.60
36	1	708	G	C2-N3-C4	-8.74	107.53	111.90
80	6	522	U	C5-C6-N1	-8.74	118.33	122.70
85	5	60	A	C4-C5-N7	-8.74	106.33	110.70
85	5	679	U	N1-C2-N3	8.74	120.14	114.90
38	8	2	A	N1-C2-N3	8.74	133.67	129.30
85	5	212	G	C5-C6-N1	8.74	115.87	111.50
85	5	1515	A	C5-N7-C8	-8.74	99.53	103.90
85	5	2861	U	N1-C2-O2	-8.74	116.69	122.80
85	5	3140	G	N3-C4-C5	-8.74	124.23	128.60
1	2	1653	G	C5-C6-N1	-8.73	107.13	111.50
36	1	1183	C	C2-N3-C4	-8.73	115.53	119.90
36	1	2275	A	O5'-P-OP1	-8.73	97.84	105.70
36	1	2675	C	C4-C5-C6	8.73	121.77	117.40
80	6	273	G	C4-C5-N7	8.73	114.29	110.80
80	6	297	U	N3-C4-C5	-8.73	109.36	114.60
80	6	1670	G	C5-C6-N1	-8.73	107.13	111.50
85	5	1077	U	C5-C4-O4	-8.73	120.66	125.90
85	5	1089	G	O5'-P-OP1	-8.73	97.84	105.70
85	5	1524	A	N1-C2-N3	8.73	133.67	129.30
43	16	169	ASP	CB-CG-OD1	-8.73	110.44	118.30
85	5	1749	A	N1-C6-N6	8.73	123.84	118.60
37	7	40	C	C6-N1-C2	-8.73	116.81	120.30
36	1	845	G	C5-C6-O6	8.73	133.84	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	993	G	N3-C4-C5	-8.73	124.23	128.60
36	1	1002	A	N3-C4-C5	8.73	132.91	126.80
36	1	1137	C	O5'-P-OP2	-8.73	97.84	105.70
85	5	787	G	N9-C4-C5	8.73	108.89	105.40
85	5	2752	U	C6-N1-C2	-8.73	115.76	121.00
37	7	43	U	N3-C2-O2	-8.73	116.09	122.20
36	1	1318	A	C5-C6-N6	8.73	130.68	123.70
36	1	1929	G	C8-N9-C4	-8.73	102.91	106.40
36	1	2301	U	C5-C6-N1	8.73	127.07	122.70
80	6	315	A	C5-C6-N6	-8.73	116.72	123.70
85	5	2784	G	N1-C2-N3	8.73	129.14	123.90
85	5	2890	A	C5-C6-N6	8.73	130.68	123.70
38	8	17	A	OP1-P-OP2	-8.73	106.50	119.60
1	2	1107	A	N3-C4-C5	8.73	132.91	126.80
36	1	1697	A	C2-N3-C4	-8.73	106.24	110.60
36	1	2632	G	C5-C6-O6	-8.73	123.36	128.60
85	5	917	A	C4-C5-N7	8.73	115.06	110.70
1	2	1274	G	C2-N3-C4	-8.73	107.54	111.90
36	1	2730	G	C2-N3-C4	-8.73	107.54	111.90
36	1	3142	A	C6-N1-C2	-8.73	113.36	118.60
85	5	397	A	N9-C4-C5	8.73	109.29	105.80
37	3	95	A	N1-C2-N3	8.73	133.66	129.30
80	6	1676	U	N3-C4-O4	8.73	125.51	119.40
85	5	1099	A	C2-N3-C4	-8.73	106.24	110.60
85	5	1347	U	C5-C4-O4	8.73	131.14	125.90
85	5	2838	A	O5'-P-OP1	8.73	121.17	110.70
85	5	2726	C	N1-C2-N3	8.73	125.31	119.20
36	1	717	C	N3-C2-O2	-8.72	115.79	121.90
36	1	919	U	O5'-P-OP2	-8.72	97.85	105.70
36	1	2815	G	C2-N3-C4	-8.72	107.54	111.90
36	1	3101	G	C4-C5-N7	-8.72	107.31	110.80
80	6	1629	G	C5-C6-O6	8.72	133.84	128.60
38	4	128	U	N3-C4-O4	-8.72	113.29	119.40
85	5	678	G	N1-C2-N3	8.72	129.13	123.90
85	5	1373	A	OP2-P-O3'	8.72	124.39	105.20
85	5	2254	U	C5-C6-N1	-8.72	118.34	122.70
85	5	2758	A	N7-C8-N9	8.72	118.16	113.80
1	2	196	G	C5-C6-N1	8.72	115.86	111.50
36	1	806	A	C4-C5-N7	8.72	115.06	110.70
36	1	2934	A	N1-C2-N3	8.72	133.66	129.30
85	5	1602	A	O5'-P-OP2	8.72	121.17	110.70
1	2	217	A	C6-N1-C2	8.72	123.83	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	102	C	N3-C2-O2	8.72	128.00	121.90
36	1	1152	G	C6-N1-C2	-8.72	119.87	125.10
36	1	3320	A	N9-C4-C5	8.72	109.29	105.80
85	5	3312	U	C2-N3-C4	8.72	132.23	127.00
85	5	367	A	N1-C6-N6	8.72	123.83	118.60
36	1	514	G	C2-N3-C4	-8.72	107.54	111.90
36	1	1003	A	OP1-P-OP2	-8.72	106.52	119.60
36	1	2138	A	OP1-P-OP2	8.72	132.68	119.60
36	1	3322	A	N9-C4-C5	-8.72	102.31	105.80
36	1	2408	U	O5'-P-OP1	-8.72	97.86	105.70
36	1	2702	A	C4-C5-C6	8.72	121.36	117.00
36	1	2929	C	N3-C2-O2	-8.72	115.80	121.90
80	6	359	A	N3-C4-C5	8.72	132.90	126.80
85	5	671	U	C6-N1-C2	8.72	126.23	121.00
36	1	3234	A	C5-C6-N6	-8.72	116.73	123.70
85	5	1117	G	C5-N7-C8	-8.72	99.94	104.30
85	5	1410	U	C4-C5-C6	8.72	124.93	119.70
85	5	2180	G	C2-N3-C4	-8.72	107.54	111.90
85	5	3101	G	C2-N3-C4	8.72	116.26	111.90
85	5	3112	G	C5-N7-C8	-8.72	99.94	104.30
1	2	111	U	C6-N1-C2	-8.71	115.77	121.00
36	1	77	A	C8-N9-C4	-8.72	102.31	105.80
36	1	391	A	N1-C6-N6	-8.71	113.37	118.60
85	5	1113	G	N3-C2-N2	-8.72	113.80	119.90
85	5	2199	G	N7-C8-N9	8.72	117.46	113.10
36	1	2552	C	O5'-P-OP2	8.71	121.16	110.70
80	6	466	U	C5-C4-O4	8.71	131.13	125.90
85	5	2217	U	N3-C4-O4	8.71	125.50	119.40
85	5	3182	G	N7-C8-N9	-8.71	108.74	113.10
85	5	3200	G	C6-C5-N7	-8.71	125.17	130.40
37	7	28	C	N1-C2-N3	8.71	125.30	119.20
36	1	3067	C	C5-C4-N4	8.71	126.30	120.20
80	6	704	C	C2-N3-C4	8.71	124.26	119.90
85	5	220	G	O5'-P-OP1	-8.71	97.86	105.70
36	1	5	G	C2-N3-C4	-8.71	107.55	111.90
36	1	2639	G	C6-C5-N7	-8.71	125.17	130.40
36	1	3037	U	N3-C4-O4	8.71	125.50	119.40
80	6	40	A	C8-N9-C4	-8.71	102.31	105.80
85	5	257	U	C6-N1-C2	-8.71	115.77	121.00
85	5	973	A	OP1-P-OP2	-8.71	106.53	119.60
37	3	40	C	N1-C2-O2	-8.71	113.67	118.90
37	3	114	U	C5-C6-N1	-8.71	118.34	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	163	C	C6-N1-C2	-8.71	116.82	120.30
85	5	932	U	C5-C4-O4	-8.71	120.67	125.90
85	5	1009	A	C8-N9-C4	-8.71	102.31	105.80
85	5	1733	G	N3-C4-N9	-8.71	120.77	126.00
85	5	1397	C	C6-N1-C2	-8.71	116.82	120.30
85	5	1695	U	N3-C2-O2	-8.71	116.10	122.20
85	5	2952	G	C8-N9-C4	-8.71	102.92	106.40
38	8	21	C	N1-C2-O2	8.71	124.13	118.90
52	m6	19	LEU	CB-CG-CD1	-8.71	96.19	111.00
36	1	580	C	N3-C4-C5	-8.71	118.42	121.90
36	1	1138	U	C5-C4-O4	-8.71	120.67	125.90
36	1	2863	G	C5-C6-O6	-8.71	123.38	128.60
1	2	1444	C	N3-C4-N4	-8.71	111.91	118.00
36	1	824	C	C2-N3-C4	-8.71	115.55	119.90
36	1	2879	C	N1-C2-O2	-8.71	113.67	118.90
80	6	405	C	N3-C4-C5	8.71	125.38	121.90
80	6	1788	G	N1-C2-N3	8.71	129.12	123.90
85	5	591	G	C8-N9-C4	8.71	109.88	106.40
85	5	756	U	N1-C2-N3	8.71	120.12	114.90
85	5	1883	A	C4-C5-N7	8.71	115.05	110.70
85	5	3361	G	N1-C6-O6	8.71	125.12	119.90
36	1	1416	C	C6-N1-C2	8.71	123.78	120.30
36	1	590	G	C5-N7-C8	-8.70	99.95	104.30
36	1	2430	A	N7-C8-N9	8.71	118.15	113.80
36	1	2609	A	C4-C5-N7	-8.70	106.35	110.70
36	1	2674	A	N9-C4-C5	8.71	109.28	105.80
36	1	3062	G	OP1-P-OP2	-8.71	106.54	119.60
38	4	110	C	C2-N3-C4	-8.71	115.55	119.90
49	M3	157	ARG	NE-CZ-NH1	-8.71	115.95	120.30
85	5	2663	G	N7-C8-N9	8.70	117.45	113.10
85	5	2820	A	C4-C5-N7	8.71	115.05	110.70
85	5	2953	U	C6-N1-C2	-8.70	115.78	121.00
36	1	1899	G	C6-N1-C2	-8.70	119.88	125.10
85	5	1628	C	N1-C2-O2	8.70	124.12	118.90
85	5	2135	U	OP2-P-O3'	-8.70	86.05	105.20
36	1	598	A	C6-N1-C2	-8.70	113.38	118.60
36	1	652	G	OP1-P-O3'	8.70	124.34	105.20
25	d3	13	ARG	NE-CZ-NH1	-8.70	115.95	120.30
85	5	174	C	C5-C6-N1	-8.70	116.65	121.00
85	5	205	C	N1-C2-O2	-8.70	113.68	118.90
85	5	221	A	C5-C6-N6	8.70	130.66	123.70
85	5	1202	A	C4-C5-C6	8.70	121.35	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2851	A	C6-C5-N7	-8.70	126.21	132.30
44	17	110	ARG	NE-CZ-NH2	-8.70	115.95	120.30
1	2	312	A	C4-C5-C6	8.70	121.35	117.00
36	1	627	U	C2-N3-C4	8.70	132.22	127.00
36	1	1134	G	N3-C2-N2	-8.70	113.81	119.90
36	1	1615	C	C6-N1-C2	8.70	123.78	120.30
37	3	119	U	N3-C4-O4	-8.70	113.31	119.40
38	4	38	U	C2-N1-C1'	8.70	128.14	117.70
85	5	236	G	OP1-P-OP2	-8.70	106.55	119.60
85	5	2797	C	N3-C4-C5	-8.70	118.42	121.90
1	2	1589	C	N3-C2-O2	-8.70	115.81	121.90
1	2	1592	U	N1-C2-O2	-8.70	116.71	122.80
36	1	323	A	N1-C2-N3	8.70	133.65	129.30
36	1	426	G	C4-C5-N7	-8.70	107.32	110.80
36	1	1079	A	C4-C5-C6	8.70	121.35	117.00
36	1	1665	C	C6-N1-C2	-8.70	116.82	120.30
85	5	189	G	C6-N1-C2	-8.70	119.88	125.10
85	5	887	G	OP1-P-OP2	-8.70	106.55	119.60
85	5	2641	U	C5-C6-N1	8.70	127.05	122.70
36	1	1045	C	N3-C2-O2	8.69	127.99	121.90
85	5	421	G	C2-N3-C4	-8.69	107.55	111.90
85	5	592	A	C6-C5-N7	-8.69	126.21	132.30
85	5	800	G	C4-C5-N7	8.70	114.28	110.80
85	5	2559	U	C4-C5-C6	8.69	124.92	119.70
1	2	1500	U	N1-C2-N3	8.69	120.11	114.90
36	1	702	C	N3-C2-O2	-8.69	115.82	121.90
36	1	1741	A	C2-N3-C4	-8.69	106.25	110.60
36	1	1053	A	C8-N9-C4	8.69	109.28	105.80
36	1	1899	G	N9-C4-C5	8.69	108.88	105.40
37	3	82	G	N1-C2-N2	-8.69	108.38	116.20
80	6	1645	G	C8-N9-C4	-8.69	102.92	106.40
80	6	1782	A	C8-N9-C4	-8.69	102.32	105.80
38	4	145	U	C2-N3-C4	-8.69	121.79	127.00
85	5	1407	A	C6-C5-N7	-8.69	126.22	132.30
85	5	2535	A	C8-N9-C4	8.69	109.28	105.80
36	1	380	U	N1-C2-N3	8.69	120.11	114.90
36	1	2175	U	O5'-P-OP1	-8.69	97.88	105.70
85	5	1296	C	C5-C4-N4	-8.69	114.12	120.20
85	5	2900	A	C5-N7-C8	8.69	108.25	103.90
36	1	859	G	C2-N3-C4	-8.69	107.56	111.90
80	6	924	A	N7-C8-N9	8.69	118.14	113.80
85	5	347	G	N9-C4-C5	8.69	108.88	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	614	C	N3-C4-N4	-8.69	111.92	118.00
85	5	2155	G	N7-C8-N9	-8.69	108.76	113.10
1	2	581	U	C6-N1-C2	-8.69	115.79	121.00
1	2	607	G	C4-C5-N7	8.69	114.28	110.80
36	1	27	C	C2-N3-C4	-8.69	115.56	119.90
1	2	1115	A	N7-C8-N9	-8.69	109.46	113.80
36	1	683	U	O5'-P-OP2	-8.69	97.88	105.70
36	1	769	G	OP1-P-OP2	8.69	132.63	119.60
85	5	2197	C	N3-C4-C5	-8.69	118.42	121.90
37	7	73	C	C6-N1-C2	-8.69	116.83	120.30
36	1	2995	A	C4-C5-C6	8.69	121.34	117.00
85	5	231	G	N1-C6-O6	8.69	125.11	119.90
85	5	1739	U	N3-C4-C5	-8.69	109.39	114.60
1	2	168	A	N1-C6-N6	8.68	123.81	118.60
1	2	1294	U	N1-C2-O2	8.68	128.88	122.80
36	1	909	G	N9-C4-C5	-8.68	101.93	105.40
36	1	1846	C	N3-C4-C5	-8.68	118.43	121.90
85	5	440	A	N1-C6-N6	8.68	123.81	118.60
36	1	1168	U	N3-C2-O2	-8.68	116.12	122.20
36	1	1825	G	N1-C6-O6	8.68	125.11	119.90
85	5	114	A	C2-N3-C4	-8.68	106.26	110.60
85	5	599	C	C5-C6-N1	-8.68	116.66	121.00
85	5	780	A	C5-C6-N1	-8.68	113.36	117.70
38	8	62	C	C2-N3-C4	8.68	124.24	119.90
80	6	176	C	C6-N1-C2	-8.68	116.83	120.30
85	5	2296	A	C6-N1-C2	-8.68	113.39	118.60
85	5	2843	U	C5-C4-O4	8.68	131.11	125.90
85	5	3167	A	N9-C4-C5	8.68	109.27	105.80
36	1	12	A	O5'-P-OP1	-8.68	97.89	105.70
36	1	274	G	N1-C6-O6	8.68	125.11	119.90
36	1	1109	U	C5-C4-O4	-8.68	120.69	125.90
85	5	3241	G	N1-C2-N2	-8.68	108.39	116.20
36	1	322	U	OP1-P-OP2	-8.68	106.58	119.60
36	1	1105	A	N1-C2-N3	8.68	133.64	129.30
36	1	1590	G	C5-C6-O6	8.68	133.81	128.60
36	1	2993	G	N3-C4-C5	-8.68	124.26	128.60
36	1	3344	A	C4-C5-N7	8.68	115.04	110.70
85	5	1303	A	C6-C5-N7	-8.68	126.22	132.30
36	1	1380	G	C5-C6-N1	-8.68	107.16	111.50
36	1	1929	G	O5'-P-OP2	-8.68	97.89	105.70
80	6	173	A	C5-N7-C8	-8.68	99.56	103.90
85	5	635	G	N3-C2-N2	-8.68	113.82	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1634	G	C4-C5-N7	8.68	114.27	110.80
85	5	854	G	N1-C2-N3	8.68	129.11	123.90
36	1	239	G	C5-N7-C8	-8.68	99.96	104.30
85	5	287	G	C5-C6-N1	8.68	115.84	111.50
36	1	1222	G	C5-N7-C8	8.68	108.64	104.30
36	1	2954	U	N3-C4-C5	-8.68	109.39	114.60
36	1	2993	G	C2-N3-C4	8.68	116.24	111.90
36	1	3241	G	C5-C6-O6	8.68	133.81	128.60
85	5	1421	G	N3-C4-C5	8.68	132.94	128.60
36	1	3216	G	N1-C2-N3	8.68	129.10	123.90
80	6	31	C	N3-C4-C5	-8.68	118.43	121.90
80	6	77	U	O5'-P-OP1	-8.68	97.89	105.70
85	5	2326	A	C4-C5-N7	-8.68	106.36	110.70
85	5	1417	G	C5-C6-N1	8.68	115.84	111.50
85	5	3103	A	C5-N7-C8	-8.68	99.56	103.90
36	1	21	G	O5'-P-OP1	8.67	121.11	110.70
36	1	1734	G	N9-C4-C5	-8.67	101.93	105.40
36	1	2888	U	N3-C4-C5	8.67	119.80	114.60
80	6	476	U	C6-N1-C2	-8.67	115.80	121.00
80	6	971	A	O5'-P-OP1	-8.67	97.89	105.70
85	5	283	G	C2-N3-C4	8.67	116.24	111.90
85	5	355	A	N7-C8-N9	8.67	118.14	113.80
85	5	787	G	N1-C2-N3	8.67	129.10	123.90
85	5	431	U	N1-C2-O2	-8.67	116.73	122.80
85	5	759	U	N3-C2-O2	8.67	128.27	122.20
36	1	621	A	C4-C5-C6	-8.67	112.67	117.00
36	1	854	G	N1-C6-O6	8.67	125.10	119.90
36	1	1294	A	C5-C6-N1	8.67	122.03	117.70
36	1	1373	A	N1-C2-N3	8.67	133.64	129.30
36	1	1435	A	C2-N3-C4	8.67	114.94	110.60
36	1	1497	C	C2-N3-C4	-8.67	115.56	119.90
85	5	3190	C	C5-C4-N4	-8.67	114.13	120.20
36	1	2526	C	O5'-P-OP2	-8.67	97.90	105.70
36	1	2737	C	N3-C2-O2	8.67	127.97	121.90
36	1	3289	G	N3-C2-N2	8.67	125.97	119.90
80	6	249	U	N3-C2-O2	-8.67	116.13	122.20
85	5	268	A	N9-C4-C5	8.67	109.27	105.80
85	5	2417	U	C5-C6-N1	8.67	127.03	122.70
36	1	77	A	C2-N3-C4	-8.67	106.27	110.60
36	1	1634	G	N7-C8-N9	8.67	117.43	113.10
36	1	2913	C	N3-C2-O2	-8.67	115.83	121.90
36	1	3289	G	C2-N3-C4	8.67	116.23	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	99	A	N9-C4-C5	-8.67	102.33	105.80
85	5	226	C	C5-C6-N1	8.67	125.33	121.00
85	5	864	G	C4-C5-N7	8.67	114.27	110.80
85	5	986	U	C5-C4-O4	8.67	131.10	125.90
85	5	2741	C	N3-C4-N4	8.67	124.07	118.00
85	5	2808	A	N1-C2-N3	8.67	133.63	129.30
85	5	3009	G	C6-C5-N7	-8.67	125.20	130.40
36	1	370	U	O5'-P-OP2	-8.66	97.90	105.70
80	6	427	C	O5'-P-OP2	-8.66	97.90	105.70
80	6	1184	A	C5-C6-N1	-8.66	113.37	117.70
38	8	2	A	O5'-P-OP2	-8.66	97.90	105.70
1	2	886	U	C5-C6-N1	8.66	127.03	122.70
36	1	754	G	N1-C6-O6	8.66	125.10	119.90
36	1	1136	A	O5'-P-OP2	-8.66	97.90	105.70
36	1	1289	G	N9-C4-C5	-8.66	101.94	105.40
80	6	966	A	C8-N9-C4	8.66	109.27	105.80
85	5	353	G	N1-C6-O6	-8.66	114.70	119.90
85	5	1273	A	C5-C6-N1	-8.66	113.37	117.70
85	5	1399	A	C4-C5-N7	8.66	115.03	110.70
85	5	1727	G	N1-C6-O6	-8.66	114.70	119.90
85	5	2142	A	C8-N9-C4	-8.66	102.33	105.80
85	5	2781	U	C5-C6-N1	-8.66	118.37	122.70
1	2	338	C	C4-C5-C6	8.66	121.73	117.40
36	1	342	A	N9-C4-C5	8.66	109.26	105.80
36	1	815	G	N9-C4-C5	8.66	108.86	105.40
36	1	1286	A	C8-N9-C4	8.66	109.26	105.80
36	1	958	C	C6-N1-C2	-8.66	116.84	120.30
36	1	1145	G	N1-C2-N3	8.66	129.10	123.90
36	1	1424	C	N1-C2-N3	8.66	125.26	119.20
36	1	1514	G	C6-C5-N7	-8.66	125.20	130.40
85	5	990	U	O5'-P-OP2	-8.66	97.91	105.70
85	5	1503	A	C2-N3-C4	-8.66	106.27	110.60
85	5	1769	G	OP1-P-OP2	-8.66	106.61	119.60
85	5	2287	C	C5-C6-N1	8.66	125.33	121.00
85	5	2936	A	C6-N1-C2	-8.66	113.40	118.60
37	3	36	C	C4-C5-C6	-8.66	113.07	117.40
1	2	1369	G	C8-N9-C4	8.66	109.86	106.40
36	1	941	G	C8-N9-C4	-8.66	102.94	106.40
36	1	952	A	N1-C6-N6	-8.66	113.41	118.60
36	1	1511	U	C5-C6-N1	8.66	127.03	122.70
80	6	190	C	N1-C2-O2	8.66	124.09	118.90
85	5	53	G	N1-C2-N3	8.66	129.09	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1754	A	OP2-P-O3'	-8.66	86.16	105.20
85	5	1375	G	C6-C5-N7	-8.66	125.21	130.40
1	2	284	G	C2-N3-C4	-8.65	107.57	111.90
1	2	1588	G	C5-C6-N1	-8.65	107.17	111.50
36	1	32	U	OP2-P-O3'	8.65	124.24	105.20
36	1	2124	G	C6-C5-N7	-8.65	125.21	130.40
80	6	1399	C	C2-N3-C4	8.65	124.23	119.90
85	5	1832	C	N3-C4-C5	8.65	125.36	121.90
85	5	128	G	N1-C6-O6	-8.65	114.71	119.90
85	5	394	G	O5'-P-OP1	-8.65	97.91	105.70
85	5	1402	C	N3-C4-N4	8.65	124.06	118.00
85	5	2707	C	OP1-P-OP2	8.65	132.58	119.60
85	5	3361	G	C4-C5-C6	8.65	123.99	118.80
1	2	1583	A	C2-N3-C4	-8.65	106.27	110.60
36	1	1391	C	C5-C6-N1	-8.65	116.67	121.00
36	1	1440	G	C6-C5-N7	-8.65	125.21	130.40
36	1	1603	A	O5'-P-OP1	8.65	121.08	110.70
36	1	2152	A	N1-C6-N6	-8.65	113.41	118.60
36	1	2169	G	C8-N9-C4	8.65	109.86	106.40
80	6	96	G	N1-C2-N3	8.65	129.09	123.90
80	6	228	G	C8-N9-C4	8.65	109.86	106.40
80	6	518	A	N1-C2-N3	8.65	133.62	129.30
80	6	578	U	N3-C2-O2	8.65	128.26	122.20
80	6	777	C	N1-C2-N3	8.65	125.26	119.20
80	6	1128	C	C6-N1-C2	-8.65	116.84	120.30
85	5	63	A	C8-N9-C4	8.65	109.26	105.80
85	5	731	U	N3-C2-O2	-8.65	116.14	122.20
85	5	808	A	C2-N3-C4	8.65	114.92	110.60
85	5	1451	C	C6-N1-C2	8.65	123.76	120.30
85	5	2949	U	C5-C6-N1	8.65	127.03	122.70
85	5	2972	G	OP1-P-OP2	-8.65	106.62	119.60
36	1	2197	C	C2-N3-C4	-8.65	115.58	119.90
36	1	2625	C	N3-C4-N4	8.65	124.05	118.00
85	5	498	A	N1-C2-N3	8.65	133.62	129.30
85	5	839	C	O5'-P-OP2	-8.65	97.92	105.70
85	5	2315	G	N7-C8-N9	8.65	117.42	113.10
37	7	109	G	N1-C6-O6	8.65	125.09	119.90
36	1	785	G	C4-C5-N7	8.65	114.26	110.80
36	1	2403	G	N1-C2-N3	8.65	129.09	123.90
36	1	2843	U	C5-C6-N1	-8.65	118.38	122.70
36	1	3109	G	C2-N3-C4	8.65	116.22	111.90
80	6	390	G	C4-C5-N7	8.65	114.26	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	386	A	C5-N7-C8	8.65	108.22	103.90
1	2	581	U	C2-N1-C1'	8.64	128.07	117.70
36	1	504	A	C6-N1-C2	-8.64	113.41	118.60
1	2	1276	U	N1-C2-O2	-8.64	116.75	122.80
36	1	1318	A	O5'-P-OP1	-8.64	97.92	105.70
36	1	1530	U	C6-N1-C2	8.64	126.19	121.00
36	1	2819	A	C2-N3-C4	8.64	114.92	110.60
36	1	2967	A	C6-N1-C2	-8.64	113.41	118.60
37	3	49	G	N9-C4-C5	-8.64	101.94	105.40
85	5	807	A	C5-N7-C8	-8.64	99.58	103.90
85	5	2340	U	N3-C4-C5	8.64	119.79	114.60
36	1	3046	A	C6-C5-N7	-8.64	126.25	132.30
36	1	3128	G	C5-C6-O6	-8.64	123.41	128.60
85	5	513	G	C4-C5-C6	8.64	123.99	118.80
85	5	943	U	N1-C2-N3	8.64	120.09	114.90
85	5	1889	G	C5-N7-C8	-8.64	99.98	104.30
36	1	360	G	C6-C5-N7	-8.64	125.22	130.40
85	5	184	U	C2-N3-C4	-8.64	121.81	127.00
85	5	1434	G	N1-C2-N3	8.64	129.09	123.90
85	5	2997	G	N3-C4-C5	8.64	132.92	128.60
36	1	206	G	N7-C8-N9	8.64	117.42	113.10
36	1	620	U	C5-C4-O4	8.64	131.08	125.90
36	1	898	U	C5-C6-N1	8.64	127.02	122.70
85	5	1177	G	C6-N1-C2	-8.64	119.92	125.10
85	5	2735	U	C5-C4-O4	8.64	131.08	125.90
85	5	3245	A	C6-N1-C2	8.64	123.78	118.60
36	1	1655	G	C5-C6-O6	-8.64	123.42	128.60
80	6	1120	U	N3-C4-C5	-8.64	109.42	114.60
1	2	1083	G	N1-C2-N3	8.64	129.08	123.90
36	1	226	C	N3-C4-N4	8.64	124.05	118.00
36	1	304	G	N9-C4-C5	8.64	108.86	105.40
36	1	1334	U	N1-C2-O2	-8.64	116.75	122.80
36	1	2988	C	N3-C4-C5	-8.64	118.44	121.90
80	6	334	G	N3-C4-C5	-8.64	124.28	128.60
85	5	200	C	C5-C4-N4	-8.64	114.15	120.20
85	5	1001	G	N9-C4-C5	8.64	108.86	105.40
85	5	1542	G	N1-C6-O6	8.64	125.08	119.90
85	5	1625	A	C8-N9-C4	8.64	109.25	105.80
85	5	3200	G	C8-N9-C4	-8.64	102.94	106.40
85	5	2816	G	N1-C6-O6	8.64	125.08	119.90
1	2	312	A	C6-N1-C2	-8.64	113.42	118.60
1	2	429	G	OP1-P-OP2	-8.64	106.65	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	554	C	N1-C2-O2	8.64	124.08	118.90
36	1	1618	G	N1-C6-O6	-8.64	114.72	119.90
85	5	174	C	N3-C2-O2	-8.64	115.86	121.90
1	2	446	A	C8-N9-C4	-8.63	102.35	105.80
1	2	490	C	C6-N1-C2	-8.63	116.85	120.30
36	1	685	G	C5-N7-C8	8.63	108.62	104.30
36	1	1652	G	O5'-P-OP1	-8.64	97.93	105.70
36	1	2168	A	C5-C6-N6	8.64	130.61	123.70
80	6	975	C	C5-C4-N4	8.64	126.25	120.20
85	5	423	A	N1-C6-N6	8.64	123.78	118.60
85	5	822	G	C2-N3-C4	-8.64	107.58	111.90
36	1	1537	A	C5-C6-N1	8.63	122.02	117.70
36	1	1788	C	N1-C2-O2	8.63	124.08	118.90
36	1	2377	G	N7-C8-N9	8.63	117.42	113.10
85	5	3059	G	C8-N9-C4	-8.63	102.95	106.40
85	5	3187	A	N7-C8-N9	-8.63	109.48	113.80
1	2	1603	C	C5-C6-N1	8.63	125.32	121.00
36	1	868	C	N3-C4-C5	-8.63	118.45	121.90
36	1	2394	G	C6-C5-N7	8.63	135.58	130.40
80	6	359	A	C6-N1-C2	8.63	123.78	118.60
36	1	69	C	N1-C2-O2	-8.63	113.72	118.90
36	1	1760	A	N3-C4-C5	-8.63	120.76	126.80
36	1	2519	A	C6-C5-N7	-8.63	126.26	132.30
36	1	3126	C	C5-C6-N1	8.63	125.31	121.00
37	3	23	A	O5'-P-OP1	-8.63	97.93	105.70
85	5	2389	C	C5-C6-N1	-8.63	116.68	121.00
80	6	373	G	C6-C5-N7	8.63	135.58	130.40
85	5	592	A	C4-C5-N7	8.63	115.02	110.70
85	5	1418	A	C6-C5-N7	-8.63	126.26	132.30
36	1	852	U	C4-C5-C6	8.63	124.88	119.70
36	1	1171	G	OP1-P-OP2	-8.63	106.66	119.60
36	1	2339	C	C2-N3-C4	8.63	124.21	119.90
80	6	46	A	C8-N9-C4	-8.63	102.35	105.80
80	6	109	G	N3-C4-C5	8.63	132.91	128.60
85	5	371	G	C5-C6-N1	-8.63	107.19	111.50
36	1	1467	A	C2-N3-C4	8.63	114.91	110.60
36	1	2238	G	N1-C6-O6	8.63	125.08	119.90
85	5	900	G	N9-C4-C5	8.63	108.85	105.40
85	5	1193	A	N1-C2-N3	8.63	133.61	129.30
85	5	1322	U	OP1-P-OP2	-8.63	106.66	119.60
85	5	1481	A	N1-C2-N3	8.63	133.61	129.30
85	5	1502	C	N3-C4-N4	-8.63	111.96	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3140	G	N9-C4-C5	8.63	108.85	105.40
1	2	32	U	C6-N1-C2	-8.63	115.82	121.00
36	1	313	A	C6-N1-C2	-8.63	113.42	118.60
36	1	2185	G	N1-C2-N3	8.62	129.07	123.90
38	4	4	C	C2-N3-C4	-8.63	115.59	119.90
85	5	963	G	C5-C6-O6	8.62	133.78	128.60
85	5	1149	G	O4'-C1'-N9	8.62	115.10	108.20
85	5	1892	G	N1-C2-N2	8.62	123.96	116.20
85	5	2523	A	C5-C6-N1	8.62	122.01	117.70
1	2	1573	G	N1-C6-O6	-8.62	114.73	119.90
36	1	155	G	C5-C6-N1	8.62	115.81	111.50
36	1	179	C	O5'-P-OP1	8.62	121.05	110.70
36	1	813	G	C5-C6-O6	-8.62	123.43	128.60
36	1	2816	G	O5'-P-OP2	-8.62	97.94	105.70
36	1	3082	C	N1-C2-O2	-8.62	113.73	118.90
36	1	3120	C	N3-C4-C5	8.62	125.35	121.90
80	6	778	G	C2-N3-C4	8.62	116.21	111.90
85	5	542	G	C8-N9-C4	8.62	109.85	106.40
85	5	2282	U	C2-N3-C4	-8.62	121.83	127.00
85	5	3123	A	C8-N9-C4	8.62	109.25	105.80
1	2	1522	G	C8-N9-C4	-8.62	102.95	106.40
36	1	1349	G	N1-C2-N2	8.62	123.96	116.20
36	1	2929	C	C6-N1-C2	-8.62	116.85	120.30
85	5	921	A	OP2-P-O3'	8.62	124.17	105.20
85	5	2647	A	C8-N9-C4	-8.62	102.35	105.80
37	7	44	C	C6-N1-C2	8.62	123.75	120.30
36	1	392	G	N7-C8-N9	8.62	117.41	113.10
80	6	523	G	C5-C6-N1	8.62	115.81	111.50
80	6	1385	G	N7-C8-N9	8.62	117.41	113.10
85	5	1844	C	N3-C2-O2	-8.62	115.87	121.90
85	5	3213	A	N1-C6-N6	-8.62	113.43	118.60
78	q2	88	CYS	CA-CB-SG	-8.62	98.49	114.00
36	1	600	G	N9-C4-C5	-8.62	101.95	105.40
36	1	2366	C	N3-C4-N4	-8.62	111.97	118.00
36	1	3071	U	N1-C2-N3	8.62	120.07	114.90
38	4	18	U	O5'-P-OP1	-8.62	97.95	105.70
80	6	1120	U	N3-C4-O4	8.62	125.43	119.40
85	5	3056	U	N1-C2-O2	-8.62	116.77	122.80
80	6	1014	G	C5-C6-O6	8.61	133.77	128.60
85	5	31	C	N3-C4-N4	-8.62	111.97	118.00
85	5	769	G	N3-C2-N2	-8.62	113.87	119.90
85	5	2295	A	C5-N7-C8	-8.62	99.59	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	623	U	C5-C4-O4	-8.61	120.73	125.90
36	1	940	G	N1-C6-O6	-8.61	114.73	119.90
36	1	1927	G	N1-C2-N3	8.61	129.07	123.90
85	5	407	A	N3-C4-C5	-8.61	120.77	126.80
85	5	1900	A	C5-C6-N6	-8.61	116.81	123.70
85	5	2799	A	O5'-P-OP2	-8.61	97.95	105.70
37	7	72	A	N7-C8-N9	-8.61	109.49	113.80
36	1	2679	A	N9-C4-C5	-8.61	102.36	105.80
36	1	3097	C	N3-C4-C5	8.61	125.34	121.90
80	6	279	G	N1-C6-O6	8.61	125.07	119.90
85	5	1122	U	N1-C2-N3	8.61	120.07	114.90
85	5	1553	U	N3-C4-O4	8.61	125.43	119.40
85	5	1890	U	C6-N1-C2	-8.61	115.83	121.00
85	5	3016	A	C5-C6-N1	-8.61	113.39	117.70
1	2	16	G	N1-C6-O6	-8.61	114.73	119.90
1	2	1506	G	N3-C2-N2	8.61	125.93	119.90
1	2	1756	C	C5-C6-N1	8.61	125.31	121.00
36	1	677	A	N1-C2-N3	8.61	133.60	129.30
36	1	866	A	C5-C6-N6	-8.61	116.81	123.70
36	1	1664	G	C5-C6-N1	-8.61	107.19	111.50
80	6	1336	A	O5'-P-OP1	-8.61	97.95	105.70
85	5	2761	G	C8-N9-C4	8.61	109.84	106.40
85	5	3000	A	C2-N3-C4	-8.61	106.30	110.60
85	5	1426	C	N1-C2-O2	-8.61	113.73	118.90
85	5	2943	G	O5'-P-OP1	8.61	121.03	110.70
38	8	24	G	C2-N3-C4	8.61	116.20	111.90
36	1	1392	G	N1-C2-N3	8.61	129.06	123.90
85	5	23	A	C6-C5-N7	-8.61	126.28	132.30
85	5	89	A	N9-C4-C5	-8.61	102.36	105.80
85	5	640	U	C5-C4-O4	-8.61	120.74	125.90
85	5	2760	C	N3-C2-O2	8.61	127.92	121.90
36	1	218	G	C5-N7-C8	-8.61	100.00	104.30
36	1	281	G	N7-C8-N9	8.61	117.40	113.10
36	1	334	A	OP1-P-OP2	-8.61	106.69	119.60
36	1	660	A	OP1-P-O3'	8.61	124.13	105.20
36	1	789	A	C5-N7-C8	-8.61	99.60	103.90
36	1	1318	A	O5'-P-OP2	-8.61	97.95	105.70
36	1	1839	A	N7-C8-N9	8.61	118.10	113.80
36	1	2556	C	N1-C2-O2	8.61	124.06	118.90
80	6	319	U	N3-C2-O2	8.61	128.22	122.20
80	6	913	G	N1-C6-O6	8.61	125.06	119.90
85	5	157	A	C8-N9-C4	-8.61	102.36	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	708	G	C5-C6-N1	-8.61	107.20	111.50
85	5	1420	C	O5'-P-OP2	-8.61	97.95	105.70
85	5	2572	C	N1-C2-O2	8.61	124.06	118.90
36	1	306	A	C5-C6-N1	-8.60	113.40	117.70
36	1	1104	G	N3-C4-N9	-8.60	120.84	126.00
36	1	2201	G	N9-C4-C5	-8.60	101.96	105.40
36	1	2920	U	C6-N1-C2	8.60	126.16	121.00
36	1	3023	U	N1-C2-O2	8.60	128.82	122.80
36	1	3302	U	C5-C4-O4	8.60	131.06	125.90
38	4	9	A	O5'-P-OP1	8.60	121.02	110.70
85	5	718	G	C5-N7-C8	-8.60	100.00	104.30
85	5	3331	U	N3-C2-O2	8.60	128.22	122.20
38	8	55	U	N3-C4-O4	8.60	125.42	119.40
36	1	2530	G	C5-C6-N1	8.60	115.80	111.50
80	6	1011	G	C6-C5-N7	-8.60	125.24	130.40
85	5	309	U	C5-C4-O4	-8.60	120.74	125.90
85	5	1413	G	N1-C2-N3	8.60	129.06	123.90
85	5	2566	C	O5'-P-OP1	-8.60	97.96	105.70
85	5	2824	G	C5-C6-N1	-8.60	107.20	111.50
85	5	3023	U	C5-C6-N1	8.60	127.00	122.70
38	8	130	C	C5-C4-N4	-8.60	114.18	120.20
85	5	3093	C	N3-C2-O2	8.60	127.92	121.90
1	2	78	A	C6-N1-C2	-8.60	113.44	118.60
1	2	1071	A	C5-C6-N1	8.60	122.00	117.70
36	1	630	A	N1-C6-N6	-8.60	113.44	118.60
36	1	2827	U	C2-N3-C4	-8.60	121.84	127.00
37	3	27	A	C5-N7-C8	-8.60	99.60	103.90
85	5	306	A	O5'-P-OP2	-8.60	97.96	105.70
36	1	278	U	N1-C2-N3	8.60	120.06	114.90
36	1	1310	G	N3-C2-N2	8.60	125.92	119.90
86	18	69	LEU	CA-CB-CG	8.60	135.08	115.30
36	1	2105	G	C5-N7-C8	-8.60	100.00	104.30
38	4	94	C	N1-C2-N3	8.60	125.22	119.20
85	5	368	G	C5-C6-N1	-8.60	107.20	111.50
1	2	1332	G	N1-C6-O6	8.60	125.06	119.90
36	1	392	G	N1-C2-N2	8.60	123.94	116.20
36	1	619	A	C5-C6-N1	-8.60	113.40	117.70
85	5	902	G	N9-C4-C5	-8.60	101.96	105.40
85	5	3169	U	N3-C4-O4	-8.60	113.38	119.40
36	1	906	A	C8-N9-C4	8.60	109.24	105.80
36	1	1755	C	N3-C2-O2	8.60	127.92	121.90
36	1	3147	G	O5'-P-OP2	-8.60	97.97	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3299	A	C2-N3-C4	-8.60	106.30	110.60
37	3	110	G	N7-C8-N9	-8.60	108.80	113.10
80	6	610	G	N1-C6-O6	8.60	125.06	119.90
85	5	2152	A	C4-C5-C6	8.60	121.30	117.00
85	5	2551	U	N3-C4-O4	-8.60	113.38	119.40
85	5	2721	A	C5-C6-N6	8.60	130.58	123.70
85	5	2798	C	O5'-P-OP2	-8.60	97.96	105.70
85	5	3067	C	N3-C4-N4	-8.60	111.98	118.00
37	7	20	A	C5-C6-N6	8.60	130.58	123.70
36	1	2620	G	C5-C6-O6	-8.59	123.44	128.60
1	2	1393	A	C5-C6-N1	-8.59	113.40	117.70
1	2	1448	C	N1-C2-O2	8.59	124.06	118.90
36	1	1429	G	C8-N9-C4	8.59	109.84	106.40
85	5	2950	G	C5-N7-C8	-8.59	100.00	104.30
36	1	3377	G	C4-C5-N7	8.59	114.24	110.80
37	3	8	G	N9-C4-C5	-8.59	101.96	105.40
80	6	1418	G	C4-C5-C6	8.59	123.96	118.80
80	6	521	A	C5-C6-N1	-8.59	113.40	117.70
80	6	1044	U	N3-C4-O4	-8.59	113.39	119.40
80	6	1572	G	N7-C8-N9	8.59	117.40	113.10
80	6	1739	C	C4-C5-C6	8.59	121.70	117.40
85	5	234	G	C5-C6-N1	-8.59	107.20	111.50
85	5	363	G	N1-C2-N3	8.59	129.06	123.90
85	5	963	G	O5'-P-OP1	8.59	121.01	110.70
85	5	1492	G	C4-C5-N7	8.59	114.24	110.80
85	5	1764	U	O5'-P-OP1	-8.59	97.97	105.70
85	5	2325	G	C2-N3-C4	-8.59	107.60	111.90
85	5	2932	U	C5-C6-N1	-8.59	118.40	122.70
85	5	3016	A	C2-N3-C4	-8.59	106.30	110.60
1	2	32	U	N3-C2-O2	-8.59	116.19	122.20
36	1	865	U	C5-C4-O4	8.59	131.05	125.90
36	1	3023	U	N3-C2-O2	-8.59	116.19	122.20
80	6	251	A	O5'-P-OP1	-8.59	97.97	105.70
80	6	587	C	N3-C4-N4	-8.59	111.99	118.00
85	5	655	C	C6-N1-C2	-8.59	116.86	120.30
85	5	2948	C	C6-N1-C2	8.59	123.74	120.30
80	6	653	C	N1-C2-O2	8.59	124.05	118.90
80	6	1682	U	C5-C4-O4	-8.59	120.75	125.90
80	6	1731	A	N1-C6-N6	-8.59	113.45	118.60
85	5	397	A	N3-C4-C5	-8.59	120.79	126.80
85	5	685	G	C2-N3-C4	-8.59	107.61	111.90
85	5	1541	G	C4-C5-C6	-8.59	113.65	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2176	U	C5-C4-O4	-8.59	120.75	125.90
85	5	2974	U	N3-C2-O2	8.59	128.21	122.20
85	5	2120	A	N7-C8-N9	8.59	118.09	113.80
37	7	27	A	C8-N9-C4	-8.59	102.36	105.80
36	1	218	G	C4-C5-N7	8.59	114.23	110.80
36	1	1333	C	N3-C2-O2	-8.59	115.89	121.90
36	1	1537	A	C5-C6-N6	-8.59	116.83	123.70
36	1	1587	A	C8-N9-C4	8.59	109.23	105.80
36	1	1900	A	N1-C6-N6	-8.59	113.45	118.60
36	1	2646	C	C5-C6-N1	-8.59	116.71	121.00
37	7	43	U	C4-C5-C6	8.59	124.85	119.70
36	1	3215	A	C8-N9-C4	-8.59	102.37	105.80
80	6	951	A	N7-C8-N9	-8.59	109.51	113.80
85	5	991	G	C4-C5-N7	8.59	114.23	110.80
85	5	1307	G	N3-C4-N9	8.59	131.15	126.00
85	5	3069	G	N1-C6-O6	-8.59	114.75	119.90
85	5	2132	C	N1-C2-N3	8.59	125.21	119.20
85	5	2372	A	N3-C4-C5	-8.59	120.79	126.80
85	5	3045	G	C4-C5-N7	-8.59	107.36	110.80
37	7	46	A	N7-C8-N9	8.59	118.09	113.80
37	7	114	U	C5-C6-N1	-8.59	118.41	122.70
36	1	2904	U	O5'-P-OP2	-8.58	97.97	105.70
37	3	88	G	C6-N1-C2	-8.58	119.95	125.10
1	2	1582	C	C5-C6-N1	-8.58	116.71	121.00
85	5	1477	A	C6-N1-C2	-8.58	113.45	118.60
85	5	1636	U	C5-C6-N1	-8.58	118.41	122.70
85	5	2953	U	C5-C4-O4	-8.58	120.75	125.90
37	7	57	G	N1-C6-O6	8.58	125.05	119.90
36	1	785	G	C2-N3-C4	8.58	116.19	111.90
36	1	865	U	N1-C2-N3	8.58	120.05	114.90
80	6	273	G	C5-C6-O6	-8.58	123.45	128.60
85	5	164	A	C5-C6-N6	-8.58	116.84	123.70
85	5	518	G	C4-C5-C6	8.58	123.95	118.80
85	5	774	G	O5'-P-OP1	-8.58	97.98	105.70
85	5	934	G	C6-N1-C2	-8.58	119.95	125.10
85	5	2347	U	N3-C4-C5	-8.58	109.45	114.60
85	5	830	A	C6-N1-C2	-8.58	113.45	118.60
85	5	941	G	C2-N3-C4	8.58	116.19	111.90
37	7	92	A	C5-C6-N1	8.58	121.99	117.70
38	8	34	U	N3-C2-O2	-8.58	116.19	122.20
36	1	362	U	O5'-P-OP1	-8.58	97.98	105.70
36	1	1367	G	O5'-P-OP1	-8.58	97.98	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1209	C	N3-C2-O2	8.58	127.91	121.90
85	5	592	A	C5-N7-C8	-8.58	99.61	103.90
85	5	1404	G	C6-C5-N7	-8.58	125.25	130.40
36	1	867	G	N9-C4-C5	8.58	108.83	105.40
36	1	1212	A	C4-C5-N7	8.58	114.99	110.70
36	1	2095	G	N1-C6-O6	-8.58	114.75	119.90
36	1	2306	C	C5-C6-N1	8.58	125.29	121.00
36	1	3005	A	C8-N9-C4	-8.58	102.37	105.80
37	3	91	G	N3-C2-N2	-8.58	113.90	119.90
80	6	312	A	C5-C6-N1	8.58	121.99	117.70
85	5	1462	A	C6-C5-N7	-8.58	126.30	132.30
37	7	115	G	C6-N1-C2	-8.58	119.95	125.10
38	8	116	G	C8-N9-C4	8.58	109.83	106.40
36	1	912	G	C4-C5-C6	8.57	123.94	118.80
36	1	936	A	C6-N1-C2	8.57	123.75	118.60
1	2	509	G	C5-C6-O6	-8.57	123.46	128.60
36	1	241	G	N9-C4-C5	-8.57	101.97	105.40
36	1	337	G	N3-C4-C5	8.57	132.89	128.60
36	1	2262	A	N1-C6-N6	-8.57	113.46	118.60
36	1	2300	G	N7-C8-N9	8.57	117.39	113.10
36	1	2776	C	N3-C4-N4	8.57	124.00	118.00
36	1	2817	A	N1-C6-N6	-8.57	113.46	118.60
36	1	2819	A	C8-N9-C4	-8.57	102.37	105.80
36	1	2832	C	N3-C4-N4	-8.57	112.00	118.00
38	4	42	G	N1-C6-O6	-8.57	114.76	119.90
80	6	305	C	N3-C2-O2	8.57	127.90	121.90
80	6	972	G	N1-C6-O6	8.57	125.05	119.90
38	4	118	C	O5'-P-OP2	8.57	120.99	110.70
80	6	518	A	N1-C6-N6	-8.57	113.46	118.60
80	6	1164	G	N9-C4-C5	-8.57	101.97	105.40
85	5	2355	G	N1-C6-O6	8.57	125.04	119.90
85	5	3374	U	N3-C2-O2	-8.57	116.20	122.20
38	8	48	A	C5-N7-C8	-8.57	99.61	103.90
36	1	59	G	C2-N3-C4	-8.57	107.61	111.90
36	1	3237	U	N1-C2-O2	8.57	128.80	122.80
80	6	798	C	O5'-P-OP1	8.57	120.99	110.70
85	5	966	U	N3-C4-O4	8.57	125.40	119.40
85	5	1165	A	N9-C4-C5	8.57	109.23	105.80
1	2	1181	G	C5-C6-N1	-8.57	107.22	111.50
36	1	207	U	C5-C6-N1	8.57	126.98	122.70
36	1	934	G	C6-N1-C2	-8.57	119.96	125.10
36	1	1312	C	C2-N3-C4	8.57	124.19	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	984	G	N1-C6-O6	8.57	125.04	119.90
36	1	1185	C	OP1-P-OP2	-8.57	106.75	119.60
36	1	1348	U	O5'-P-OP2	8.57	120.98	110.70
36	1	1921	A	N7-C8-N9	8.57	118.09	113.80
36	1	2193	U	N1-C2-O2	-8.57	116.80	122.80
38	4	58	G	O5'-P-OP1	8.57	120.98	110.70
38	4	87	G	N1-C6-O6	-8.57	114.76	119.90
36	1	1644	C	N1-C2-O2	-8.57	113.76	118.90
36	1	2585	G	N3-C4-C5	-8.57	124.32	128.60
36	1	3277	U	C2-N3-C4	8.57	132.14	127.00
80	6	564	G	C8-N9-C4	-8.57	102.97	106.40
80	6	929	A	C5-C6-N1	-8.57	113.42	117.70
80	6	1732	A	C5-N7-C8	-8.57	99.62	103.90
85	5	1169	A	N1-C6-N6	-8.57	113.46	118.60
85	5	2117	A	N1-C2-N3	8.57	133.59	129.30
85	5	2246	G	N3-C2-N2	-8.57	113.90	119.90
85	5	3263	G	C5-C6-N1	-8.57	107.22	111.50
1	2	334	G	C6-C5-N7	-8.57	125.26	130.40
36	1	197	G	C6-C5-N7	-8.57	125.26	130.40
36	1	800	G	N1-C6-O6	8.57	125.04	119.90
80	6	419	G	N1-C6-O6	-8.57	114.76	119.90
85	5	1443	G	C5-N7-C8	-8.57	100.02	104.30
85	5	2732	G	N1-C2-N3	8.57	129.04	123.90
85	5	2816	G	N3-C2-N2	-8.57	113.90	119.90
36	1	420	G	C6-N1-C2	-8.56	119.96	125.10
36	1	525	C	O5'-P-OP2	-8.56	97.99	105.70
36	1	952	A	N1-C2-N3	8.56	133.58	129.30
36	1	970	A	C5-C6-N1	8.56	121.98	117.70
36	1	1310	G	N7-C8-N9	8.56	117.38	113.10
36	1	3193	C	C6-N1-C2	-8.56	116.87	120.30
80	6	241	U	C2-N3-C4	8.56	132.14	127.00
85	5	1421	G	N3-C2-N2	-8.56	113.91	119.90
36	1	2902	A	N1-C2-N3	8.56	133.58	129.30
80	6	1003	A	O5'-P-OP1	-8.56	97.99	105.70
80	6	1020	A	C5-C6-N1	8.56	121.98	117.70
80	6	1154	G	N1-C6-O6	-8.56	114.76	119.90
85	5	96	G	C5-N7-C8	-8.56	100.02	104.30
85	5	983	A	N1-C2-N3	8.56	133.58	129.30
85	5	1009	A	C5-C6-N6	-8.56	116.85	123.70
85	5	2647	A	N7-C8-N9	8.56	118.08	113.80
37	7	75	G	C2-N3-C4	-8.56	107.62	111.90
85	5	3102	G	C5-C6-N1	-8.56	107.22	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3304	U	OP1-P-OP2	8.56	132.44	119.60
36	1	392	G	N1-C6-O6	8.56	125.04	119.90
36	1	727	G	N1-C2-N3	8.56	129.04	123.90
36	1	917	A	C2-N3-C4	8.56	114.88	110.60
1	2	954	A	OP1-P-OP2	-8.56	106.76	119.60
36	1	45	A	C2-N3-C4	-8.56	106.32	110.60
36	1	211	A	C8-N9-C4	-8.56	102.38	105.80
36	1	3145	C	C6-N1-C2	-8.56	116.88	120.30
85	5	815	G	N1-C6-O6	-8.56	114.76	119.90
85	5	2247	G	N1-C2-N3	8.56	129.04	123.90
85	5	2607	G	N3-C4-C5	8.56	132.88	128.60
85	5	2682	C	N3-C2-O2	-8.56	115.91	121.90
85	5	3067	C	C6-N1-C2	8.56	123.72	120.30
1	2	833	A	C8-N9-C4	8.56	109.22	105.80
36	1	800	G	N7-C8-N9	8.56	117.38	113.10
36	1	966	U	N1-C2-N3	8.56	120.03	114.90
36	1	1891	A	C8-N9-C4	8.56	109.22	105.80
85	5	2256	A	C5-C6-N6	-8.56	116.85	123.70
85	5	2659	G	C5-C6-N1	8.56	115.78	111.50
36	1	1786	G	N1-C6-O6	-8.56	114.77	119.90
36	1	2971	A	C6-C5-N7	-8.56	126.31	132.30
85	5	1066	G	C5-C6-N1	8.56	115.78	111.50
85	5	1172	G	C8-N9-C1'	-8.56	115.88	127.00
85	5	1852	G	C4-C5-N7	8.56	114.22	110.80
85	5	2329	C	O5'-P-OP1	8.56	120.97	110.70
85	5	3120	C	N1-C2-N3	-8.56	113.21	119.20
36	1	435	C	N1-C2-N3	-8.56	113.21	119.20
36	1	643	U	C6-N1-C2	-8.56	115.87	121.00
85	5	2365	C	O5'-P-OP1	-8.56	98.00	105.70
1	2	430	G	C8-N9-C4	-8.55	102.98	106.40
1	2	997	G	C8-N9-C4	-8.55	102.98	106.40
85	5	2603	G	O4'-C1'-N9	8.55	115.04	108.20
1	2	1111	C	N1-C2-O2	8.55	124.03	118.90
36	1	542	G	N1-C6-O6	8.55	125.03	119.90
36	1	2519	A	C8-N9-C4	-8.55	102.38	105.80
38	8	104	A	C5-C6-N1	8.55	121.98	117.70
36	1	2633	U	O5'-P-OP2	8.55	120.96	110.70
36	1	3065	G	C5-C6-N1	-8.55	107.22	111.50
80	6	356	G	C5-C6-N1	8.55	115.78	111.50
80	6	1095	U	N3-C4-O4	8.55	125.39	119.40
85	5	815	G	N1-C2-N3	8.55	129.03	123.90
85	5	1878	G	N1-C6-O6	-8.55	114.77	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1947	G	C5-C6-N1	8.55	115.78	111.50
85	5	2356	A	C5-C6-N1	8.55	121.98	117.70
85	5	2811	A	C5-C6-N1	8.55	121.98	117.70
37	7	64	A	C4-C5-C6	-8.55	112.72	117.00
36	1	994	G	C5-C6-O6	8.55	133.73	128.60
36	1	1406	A	C8-N9-C4	-8.55	102.38	105.80
36	1	3177	G	C8-N9-C4	8.55	109.82	106.40
80	6	350	U	O5'-P-OP2	-8.55	98.00	105.70
85	5	2559	U	N1-C2-N3	8.55	120.03	114.90
36	1	2195	C	C2-N3-C4	8.55	124.17	119.90
36	1	2384	A	O5'-P-OP2	-8.55	98.00	105.70
36	1	3034	C	C5-C6-N1	8.55	125.28	121.00
80	6	89	G	N1-C6-O6	8.55	125.03	119.90
85	5	2929	C	C6-N1-C2	-8.55	116.88	120.30
80	6	537	G	O5'-P-OP2	-8.55	98.00	105.70
80	6	979	A	N3-C4-C5	-8.55	120.81	126.80
85	5	801	A	N7-C8-N9	-8.55	109.52	113.80
1	2	1297	U	N3-C4-O4	-8.55	113.42	119.40
36	1	218	G	C5-C6-O6	-8.55	123.47	128.60
36	1	408	A	N1-C6-N6	-8.55	113.47	118.60
36	1	2284	C	N3-C2-O2	-8.55	115.92	121.90
85	5	1205	A	C2-N3-C4	8.55	114.88	110.60
36	1	1132	C	O5'-P-OP1	-8.55	98.01	105.70
36	1	2387	A	C4-C5-N7	8.55	114.97	110.70
37	3	66	A	C6-N1-C2	-8.55	113.47	118.60
85	5	670	C	N1-C2-O2	-8.55	113.77	118.90
80	6	129	U	C6-N1-C2	8.55	126.13	121.00
80	6	592	A	O5'-P-OP2	-8.55	98.01	105.70
80	6	1421	A	N7-C8-N9	-8.55	109.53	113.80
80	6	1643	U	C4-C5-C6	8.55	124.83	119.70
85	5	356	C	N1-C2-N3	8.55	125.18	119.20
85	5	1072	G	C6-C5-N7	-8.55	125.27	130.40
85	5	1938	U	N1-C2-O2	-8.55	116.82	122.80
85	5	2196	C	O5'-P-OP1	-8.55	98.01	105.70
85	5	3072	C	C5-C6-N1	8.55	125.27	121.00
1	2	312	A	N7-C8-N9	8.54	118.07	113.80
1	2	1382	C	C2-N3-C4	8.55	124.17	119.90
36	1	213	A	C2-N3-C4	-8.55	106.33	110.60
80	6	947	U	C2-N3-C4	8.55	132.13	127.00
36	1	203	G	C6-N1-C2	-8.54	119.97	125.10
36	1	526	C	C6-N1-C2	-8.54	116.88	120.30
36	1	1008	U	O5'-P-OP1	8.54	120.95	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1852	G	C5-C6-N1	-8.54	107.23	111.50
36	1	2667	A	C8-N9-C4	8.54	109.22	105.80
68	O2	125	ARG	NE-CZ-NH1	-8.54	116.03	120.30
80	6	609	U	N1-C2-N3	8.54	120.03	114.90
85	5	300	G	C5-C6-O6	8.55	133.73	128.60
85	5	353	G	C5-C6-N1	8.55	115.77	111.50
85	5	1399	A	C5-N7-C8	-8.55	99.63	103.90
85	5	941	G	O5'-P-OP2	-8.54	98.01	105.70
85	5	951	A	C2-N3-C4	-8.54	106.33	110.60
85	5	1914	G	N9-C4-C5	8.54	108.82	105.40
85	5	3390	G	C6-C5-N7	-8.54	125.27	130.40
1	2	1106	C	C6-N1-C2	8.54	123.72	120.30
85	5	2120	A	O5'-P-OP1	8.54	120.95	110.70
85	5	2403	G	C6-C5-N7	-8.54	125.27	130.40
1	2	305	C	N3-C4-C5	-8.54	118.48	121.90
1	2	386	G	C4-C5-N7	-8.54	107.38	110.80
1	2	1167	A	OP1-P-OP2	8.54	132.41	119.60
36	1	972	A	C8-N9-C4	8.54	109.22	105.80
36	1	1834	U	N1-C2-O2	-8.54	116.82	122.80
85	5	2425	G	C5-N7-C8	-8.54	100.03	104.30
36	1	3131	U	O5'-P-OP2	8.54	120.95	110.70
80	6	1213	G	C4-C5-N7	8.54	114.22	110.80
85	5	2112	U	O5'-P-OP1	-8.54	98.01	105.70
85	5	2707	C	C6-N1-C1'	8.54	131.05	120.80
36	1	1098	A	N7-C8-N9	8.54	118.07	113.80
36	1	3302	U	C5-C6-N1	-8.54	118.43	122.70
85	5	1226	G	C2-N3-C4	-8.54	107.63	111.90
85	5	2335	G	OP1-P-OP2	-8.54	106.79	119.60
1	2	1411	G	O5'-P-OP1	-8.54	98.02	105.70
1	2	1611	U	C5-C6-N1	8.54	126.97	122.70
1	2	1768	U	C4-C5-C6	8.54	124.82	119.70
36	1	17	G	C5-C6-N1	8.54	115.77	111.50
36	1	266	A	N1-C2-N3	8.54	133.57	129.30
36	1	714	G	O5'-P-OP2	-8.54	98.02	105.70
36	1	1152	G	OP1-P-OP2	8.54	132.41	119.60
36	1	3099	C	C4-C5-C6	-8.54	113.13	117.40
37	3	99	G	N1-C2-N2	-8.54	108.52	116.20
36	1	3033	A	C4-C5-C6	8.54	121.27	117.00
37	3	11	A	O5'-P-OP2	-8.54	98.02	105.70
80	6	277	U	C6-N1-C2	8.54	126.12	121.00
80	6	718	U	O5'-P-OP1	-8.54	98.02	105.70
80	6	1084	A	N1-C6-N6	-8.54	113.48	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1618	C	N3-C4-N4	-8.54	112.02	118.00
85	5	424	G	N1-C6-O6	8.54	125.02	119.90
85	5	421	G	N1-C6-O6	-8.54	114.78	119.90
85	5	1133	A	N7-C8-N9	8.54	118.07	113.80
85	5	1742	U	C5-C4-O4	-8.54	120.78	125.90
85	5	2594	C	C6-N1-C2	8.54	123.72	120.30
85	5	1792	C	C5-C6-N1	-8.54	116.73	121.00
85	5	2406	C	N3-C2-O2	8.54	127.88	121.90
36	1	186	U	C2-N3-C4	8.54	132.12	127.00
36	1	648	C	C2-N1-C1'	8.54	128.19	118.80
36	1	809	G	N3-C2-N2	-8.54	113.92	119.90
36	1	2806	U	C6-N1-C2	-8.54	115.88	121.00
80	6	248	U	C5-C6-N1	-8.54	118.43	122.70
85	5	777	U	OP1-P-O3'	8.54	123.98	105.20
85	5	996	A	N9-C4-C5	8.54	109.22	105.80
36	1	532	A	C8-N9-C4	8.53	109.21	105.80
36	1	1817	G	C5-C6-O6	-8.54	123.48	128.60
36	1	2867	C	N3-C2-O2	-8.53	115.93	121.90
36	1	3191	G	N3-C2-N2	-8.53	113.93	119.90
38	4	17	A	C6-C5-N7	-8.53	126.33	132.30
80	6	1473	U	C6-N1-C2	-8.53	115.88	121.00
80	6	1654	G	N1-C2-N3	8.54	129.02	123.90
85	5	328	U	N3-C2-O2	-8.53	116.23	122.20
85	5	2369	G	N3-C4-N9	8.53	131.12	126.00
85	5	3251	U	N3-C4-O4	-8.54	113.42	119.40
37	7	101	G	C6-C5-N7	-8.54	125.28	130.40
1	2	372	G	N9-C4-C5	8.53	108.81	105.40
1	2	1720	G	C8-N9-C4	-8.53	102.99	106.40
80	6	1299	G	C6-C5-N7	-8.53	125.28	130.40
36	1	1043	C	O5'-P-OP1	8.53	120.94	110.70
36	1	1112	A	C8-N9-C4	8.53	109.21	105.80
36	1	3046	A	N1-C2-N3	8.53	133.56	129.30
38	4	23	U	OP1-P-OP2	8.53	132.40	119.60
80	6	1355	C	C5-C6-N1	8.53	125.27	121.00
85	5	59	G	C5-N7-C8	-8.53	100.03	104.30
85	5	2816	G	C2-N3-C4	-8.53	107.63	111.90
85	5	2896	A	C5-C6-N1	-8.53	113.43	117.70
36	1	405	U	N3-C2-O2	-8.53	116.23	122.20
36	1	591	G	C4-C5-C6	8.53	123.92	118.80
37	3	36	C	N3-C4-C5	8.53	125.31	121.90
85	5	968	G	C5-C6-O6	-8.53	123.48	128.60
85	5	1582	C	C6-N1-C2	-8.53	116.89	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2946	A	N7-C8-N9	8.53	118.06	113.80
1	2	1282	G	C8-N9-C4	-8.53	102.99	106.40
1	2	1299	G	C8-N9-C4	-8.53	102.99	106.40
36	1	162	G	C5-C6-O6	-8.53	123.48	128.60
36	1	1114	U	C5-C4-O4	8.53	131.02	125.90
36	1	1555	U	N1-C2-O2	-8.53	116.83	122.80
36	1	2791	G	N1-C2-N3	8.53	129.02	123.90
36	1	2961	G	C4-C5-C6	8.53	123.92	118.80
85	5	422	A	C2-N3-C4	-8.53	106.33	110.60
85	5	1116	G	OP2-P-O3'	8.53	123.96	105.20
85	5	3028	G	N1-C6-O6	-8.53	114.78	119.90
36	1	1183	C	O5'-P-OP2	-8.53	98.03	105.70
36	1	2287	C	C5-C4-N4	8.53	126.17	120.20
36	1	2319	U	N3-C2-O2	-8.53	116.23	122.20
36	1	3272	C	C5-C6-N1	8.53	125.26	121.00
36	1	3336	A	N9-C4-C5	8.53	109.21	105.80
38	4	2	A	C6-N1-C2	8.53	123.72	118.60
80	6	425	A	C2-N3-C4	8.53	114.86	110.60
80	6	1204	A	C5-C6-N1	-8.53	113.44	117.70
85	5	1391	C	C5-C6-N1	-8.53	116.74	121.00
85	5	1827	C	C4-C5-C6	-8.53	113.14	117.40
85	5	2953	U	C2-N1-C1'	8.53	127.93	117.70
38	8	4	C	N1-C2-N3	8.53	125.17	119.20
85	5	2700	G	C5-C6-N1	8.53	115.76	111.50
85	5	3009	G	N1-C6-O6	8.53	125.02	119.90
37	7	7	G	C4-C5-C6	8.53	123.92	118.80
40	l3	35	ASP	CB-CG-OD1	8.53	125.97	118.30
36	1	162	G	N1-C6-O6	8.52	125.01	119.90
36	1	975	C	C4-C5-C6	8.52	121.66	117.40
85	5	138	U	O5'-P-OP1	8.52	120.93	110.70
85	5	1157	G	O5'-P-OP1	-8.52	98.03	105.70
85	5	2684	C	C6-N1-C2	-8.52	116.89	120.30
39	l2	246	LEU	CA-CB-CG	8.52	134.91	115.30
36	1	885	U	C2-N3-C4	-8.52	121.89	127.00
36	1	2759	U	C4-C5-C6	8.52	124.81	119.70
36	1	3288	G	N1-C6-O6	8.52	125.01	119.90
38	4	7	U	N1-C2-N3	8.52	120.01	114.90
80	6	588	U	C5-C6-N1	8.52	126.96	122.70
80	6	1608	U	N3-C2-O2	-8.52	116.23	122.20
85	5	47	C	C5-C4-N4	-8.52	114.23	120.20
85	5	1691	U	O5'-P-OP2	-8.52	98.03	105.70
80	6	1770	U	O5'-P-OP1	-8.52	98.03	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1771	U	C4-C5-C6	8.52	124.81	119.70
85	5	1420	C	C6-N1-C2	8.52	123.71	120.30
85	5	1422	G	C5-C6-O6	-8.52	123.49	128.60
91	P	74	C	N3-C2-O2	8.52	127.86	121.90
36	1	155	G	N3-C4-C5	-8.52	124.34	128.60
36	1	2881	C	C6-N1-C2	8.52	123.71	120.30
36	1	3107	U	C5-C6-N1	-8.52	118.44	122.70
85	5	573	C	C2-N3-C4	-8.52	115.64	119.90
85	5	1483	G	C5-C6-O6	8.52	133.71	128.60
85	5	1886	A	C6-N1-C2	8.52	123.71	118.60
85	5	3318	G	N3-C2-N2	-8.52	113.94	119.90
36	1	1172	G	C5-N7-C8	-8.52	100.04	104.30
36	1	1902	G	C6-C5-N7	-8.52	125.29	130.40
80	6	426	G	C4-N9-C1'	8.52	137.57	126.50
80	6	429	G	N1-C2-N3	8.52	129.01	123.90
85	5	439	C	C6-N1-C2	-8.52	116.89	120.30
85	5	2368	A	OP2-P-O3'	8.52	123.94	105.20
36	1	751	A	C6-C5-N7	-8.52	126.34	132.30
36	1	938	C	N3-C2-O2	8.52	127.86	121.90
36	1	1813	A	C4-C5-N7	-8.52	106.44	110.70
36	1	3238	G	N1-C6-O6	8.52	125.01	119.90
36	1	3253	G	N1-C6-O6	8.52	125.01	119.90
80	6	469	C	C4-C5-C6	-8.52	113.14	117.40
85	5	1850	A	C4-C5-C6	8.52	121.26	117.00
85	5	201	A	C4-C5-N7	8.52	114.96	110.70
85	5	358	G	N1-C2-N3	8.52	129.01	123.90
85	5	1903	U	OP1-P-OP2	-8.52	106.83	119.60
85	5	3008	A	N3-C4-C5	8.52	132.76	126.80
36	1	2434	U	O5'-P-OP2	-8.51	98.04	105.70
36	1	2609	A	C5-N7-C8	8.51	108.16	103.90
36	1	683	U	N1-C2-N3	8.51	120.01	114.90
36	1	878	G	C8-N9-C4	-8.51	103.00	106.40
36	1	961	C	N3-C4-C5	-8.51	118.50	121.90
36	1	1059	G	C8-N9-C4	8.51	109.81	106.40
61	n5	57	LEU	CB-CG-CD1	-8.51	96.53	111.00
36	1	1372	C	C4-C5-C6	8.51	121.66	117.40
36	1	1708	C	C6-N1-C2	-8.51	116.89	120.30
36	1	1814	A	N9-C4-C5	-8.51	102.39	105.80
36	1	2107	A	C4-C5-N7	-8.51	106.44	110.70
36	1	3081	C	C5-C6-N1	-8.51	116.74	121.00
36	1	3160	U	N3-C2-O2	-8.51	116.24	122.20
80	6	396	G	N1-C2-N3	8.51	129.01	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1786	G	N3-C4-C5	8.51	132.86	128.60
85	5	844	G	C6-N1-C2	-8.51	119.99	125.10
85	5	2830	G	OP1-P-O3'	-8.51	86.47	105.20
36	1	358	G	N3-C2-N2	-8.51	113.94	119.90
36	1	959	C	OP1-P-OP2	8.51	132.37	119.60
36	1	1409	G	N1-C2-N2	-8.51	108.54	116.20
36	1	2424	A	C8-N9-C4	8.51	109.20	105.80
1	2	914	C	N1-C2-O2	-8.51	113.80	118.90
36	1	2806	U	N3-C2-O2	-8.51	116.24	122.20
37	3	8	G	N3-C2-N2	8.51	125.86	119.90
80	6	558	U	OP1-P-OP2	8.51	132.37	119.60
38	4	69	U	C6-N1-C2	8.51	126.11	121.00
38	4	137	C	C4-C5-C6	8.51	121.66	117.40
80	6	562	G	N1-C2-N3	8.51	129.01	123.90
80	6	617	U	N3-C2-O2	-8.51	116.24	122.20
80	6	1749	A	C5-C6-N1	-8.51	113.44	117.70
85	5	1820	U	C4-C5-C6	-8.51	114.59	119.70
85	5	1196	C	OP1-P-O3'	8.51	123.92	105.20
85	5	2813	A	O5'-P-OP2	8.51	120.91	110.70
85	5	3377	G	N1-C2-N3	-8.51	118.79	123.90
85	5	2925	C	C2-N1-C1'	-8.51	109.44	118.80
85	5	3155	U	N3-C4-O4	-8.51	113.44	119.40
1	2	1078	U	N1-C2-N3	8.51	120.00	114.90
36	1	757	C	C5-C6-N1	-8.51	116.75	121.00
36	1	1474	A	N1-C2-N3	8.51	133.55	129.30
36	1	1591	G	N1-C2-N3	8.51	129.00	123.90
36	1	2144	A	C6-N1-C2	-8.51	113.50	118.60
36	1	3042	U	N3-C4-O4	8.51	125.36	119.40
38	4	139	U	N3-C4-C5	-8.51	109.50	114.60
1	2	569	C	C6-N1-C2	8.51	123.70	120.30
1	2	744	G	C5-C6-O6	8.51	133.70	128.60
38	4	17	A	C5-N7-C8	-8.51	99.65	103.90
80	6	1063	U	N3-C2-O2	8.51	128.16	122.20
85	5	377	A	C5-C6-N6	-8.51	116.89	123.70
85	5	870	G	C4-C5-C6	-8.51	113.69	118.80
85	5	2400	G	N1-C6-O6	8.51	125.00	119.90
36	1	197	G	N1-C6-O6	8.51	125.00	119.90
36	1	573	C	C4-C5-C6	8.51	121.65	117.40
36	1	2733	A	C2-N3-C4	-8.51	106.35	110.60
37	3	27	A	N7-C8-N9	8.51	118.05	113.80
38	4	149	A	OP1-P-OP2	8.51	132.36	119.60
80	6	322	G	C4-C5-N7	8.51	114.20	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	859	G	O5'-P-OP1	8.51	120.91	110.70
85	5	1507	G	N1-C2-N3	8.51	129.00	123.90
85	5	2812	C	OP1-P-O3'	8.51	123.91	105.20
1	2	936	G	N1-C2-N3	8.50	129.00	123.90
36	1	654	C	C5-C6-N1	8.50	125.25	121.00
36	1	1670	C	N3-C4-C5	8.50	125.30	121.90
36	1	1858	A	C5-C6-N1	-8.50	113.45	117.70
80	6	879	G	C4-C5-N7	-8.50	107.40	110.80
80	6	1001	A	N7-C8-N9	8.50	118.05	113.80
85	5	62	A	C2-N3-C4	-8.50	106.35	110.60
85	5	703	G	C5-N7-C8	-8.50	100.05	104.30
85	5	1037	C	C5-C6-N1	-8.50	116.75	121.00
85	5	1545	A	C4-C5-N7	8.50	114.95	110.70
85	5	1753	G	N9-C4-C5	-8.50	102.00	105.40
85	5	2800	G	C6-N1-C2	-8.50	120.00	125.10
85	5	2806	U	N1-C2-O2	-8.50	116.85	122.80
85	5	2887	A	N1-C6-N6	-8.50	113.50	118.60
85	5	3311	C	C6-N1-C2	8.50	123.70	120.30
37	7	13	A	O5'-P-OP2	-8.50	98.05	105.70
38	8	62	C	C5-C6-N1	8.50	125.25	121.00
36	1	2728	G	N3-C4-N9	8.50	131.10	126.00
80	6	1597	A	C5-C6-N1	-8.50	113.45	117.70
85	5	1104	G	N3-C4-C5	-8.50	124.35	128.60
36	1	2165	G	C6-C5-N7	-8.50	125.30	130.40
36	1	2633	U	C5-C6-N1	-8.50	118.45	122.70
36	1	3130	A	C4-C5-C6	8.50	121.25	117.00
36	1	3210	A	N1-C6-N6	-8.50	113.50	118.60
38	4	18	U	N1-C2-O2	-8.50	116.85	122.80
80	6	561	G	N7-C8-N9	8.50	117.35	113.10
80	6	586	G	N7-C8-N9	-8.50	108.85	113.10
85	5	1054	A	O5'-P-OP2	-8.50	98.05	105.70
85	5	1805	C	C2-N1-C1'	-8.50	109.45	118.80
85	5	2406	C	C2-N3-C4	8.50	124.15	119.90
85	5	2892	A	N1-C6-N6	8.50	123.70	118.60
36	1	1115	G	OP1-P-OP2	-8.50	106.85	119.60
36	1	345	G	C4-C5-C6	8.50	123.90	118.80
36	1	1298	C	C4-C5-C6	8.50	121.65	117.40
36	1	1431	G	N1-C2-N3	8.50	129.00	123.90
80	6	467	G	N1-C2-N2	-8.50	108.55	116.20
80	6	584	C	N3-C2-O2	-8.50	115.95	121.90
85	5	2220	A	C5-N7-C8	-8.50	99.65	103.90
85	5	2359	C	O5'-P-OP1	8.50	120.90	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2382	G	C6-C5-N7	8.50	135.50	130.40
85	5	497	C	O5'-P-OP2	8.50	120.89	110.70
85	5	710	A	C5-N7-C8	-8.50	99.65	103.90
85	5	1304	A	C5-C6-N1	8.50	121.95	117.70
85	5	1670	C	C5-C6-N1	8.50	125.25	121.00
69	o3	99	ARG	NE-CZ-NH1	-8.50	116.05	120.30
36	1	89	A	C4-C5-N7	-8.49	106.45	110.70
36	1	3253	G	C5-C6-O6	-8.49	123.50	128.60
85	5	924	G	OP1-P-OP2	-8.49	106.86	119.60
85	5	2350	C	N1-C2-N3	8.49	125.15	119.20
36	1	389	A	C5-C6-N6	8.49	130.49	123.70
36	1	1518	U	C5-C6-N1	-8.49	118.45	122.70
36	1	1917	C	N1-C2-O2	8.49	124.00	118.90
85	5	2830	G	N1-C2-N2	-8.49	108.56	116.20
36	1	2819	A	N1-C6-N6	8.49	123.69	118.60
80	6	474	A	N1-C6-N6	8.49	123.70	118.60
80	6	938	G	C8-N9-C4	-8.49	103.00	106.40
80	6	942	G	N1-C2-N2	8.49	123.84	116.20
85	5	437	G	C5-C6-O6	8.49	133.70	128.60
85	5	443	G	O5'-P-OP2	8.49	120.89	110.70
85	5	1872	C	N1-C2-N3	8.49	125.15	119.20
85	5	2687	G	O5'-P-OP2	-8.49	98.06	105.70
80	6	1172	G	C2-N3-C4	8.49	116.15	111.90
85	5	408	A	C8-N9-C4	8.49	109.20	105.80
85	5	998	A	OP2-P-O3'	8.49	123.89	105.20
85	5	1409	G	N3-C2-N2	8.49	125.84	119.90
85	5	2883	U	N1-C2-N3	8.49	120.00	114.90
85	5	3316	A	C4-C5-C6	8.49	121.25	117.00
1	2	98	U	O5'-P-OP2	-8.49	98.06	105.70
36	1	154	U	N1-C2-O2	-8.49	116.86	122.80
36	1	972	A	C2-N3-C4	-8.49	106.35	110.60
36	1	1487	G	N3-C4-C5	-8.49	124.36	128.60
85	5	1491	A	N7-C8-N9	-8.49	109.55	113.80
36	1	721	G	C6-C5-N7	-8.49	125.31	130.40
36	1	3248	C	N3-C2-O2	8.49	127.84	121.90
85	5	632	G	C6-N1-C2	-8.49	120.01	125.10
85	5	789	A	C4-C5-C6	8.49	121.25	117.00
85	5	2119	A	C5-N7-C8	-8.49	99.66	103.90
85	5	2410	U	N1-C2-N3	8.49	119.99	114.90
85	5	2520	A	N1-C6-N6	8.49	123.69	118.60
85	5	2672	G	C4-C5-N7	8.49	114.20	110.80
85	5	2804	A	N1-C6-N6	-8.49	113.50	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	104	A	C4-C5-C6	-8.49	112.75	117.00
36	1	95	A	OP1-P-OP2	-8.49	106.87	119.60
36	1	129	U	C5-C4-O4	8.49	130.99	125.90
36	1	143	G	C4-C5-N7	-8.49	107.41	110.80
80	6	1092	A	N1-C2-N3	-8.49	125.06	129.30
85	5	1474	A	C5-N7-C8	-8.49	99.66	103.90
85	5	1848	G	OP2-P-O3'	8.49	123.87	105.20
1	2	423	G	C8-N9-C4	-8.49	103.00	106.40
36	1	440	A	C6-N1-C2	8.49	123.69	118.60
36	1	1860	G	N9-C4-C5	8.49	108.80	105.40
36	1	2646	C	C2-N3-C4	-8.49	115.66	119.90
80	6	356	G	N1-C2-N3	8.49	128.99	123.90
85	5	335	G	N1-C6-O6	-8.49	114.81	119.90
85	5	624	G	C5-C6-O6	-8.49	123.51	128.60
85	5	642	U	N3-C2-O2	-8.49	116.26	122.20
85	5	1120	A	N1-C2-N3	8.49	133.54	129.30
85	5	1858	A	C8-N9-C4	-8.49	102.41	105.80
85	5	2256	A	C4-C5-N7	8.49	114.94	110.70
85	5	2847	A	N1-C6-N6	8.49	123.69	118.60
85	5	2851	A	N9-C4-C5	8.49	109.19	105.80
85	5	3083	G	N1-C2-N2	-8.49	108.56	116.20
36	1	341	G	N7-C8-N9	8.48	117.34	113.10
36	1	356	C	N1-C2-O2	-8.48	113.81	118.90
36	1	366	A	C4-C5-C6	8.48	121.24	117.00
85	5	68	C	C5-C6-N1	8.48	125.24	121.00
85	5	654	C	C5-C4-N4	-8.48	114.26	120.20
85	5	1442	U	O5'-P-OP2	8.48	120.88	110.70
85	5	1637	A	N1-C6-N6	-8.48	113.51	118.60
85	5	1692	U	N3-C2-O2	8.48	128.14	122.20
85	5	1893	A	C8-N9-C4	8.48	109.19	105.80
85	5	2939	G	N1-C2-N3	8.48	128.99	123.90
37	7	64	A	C8-N9-C4	8.48	109.19	105.80
36	1	41	G	N7-C8-N9	8.48	117.34	113.10
36	1	1485	G	N9-C4-C5	-8.48	102.01	105.40
85	5	512	U	N3-C4-O4	-8.48	113.46	119.40
36	1	3209	A	N7-C8-N9	8.48	118.04	113.80
80	6	103	A	C5-N7-C8	-8.48	99.66	103.90
80	6	857	U	O5'-P-OP2	-8.48	98.07	105.70
85	5	1440	G	C4-C5-N7	8.48	114.19	110.80
85	5	2890	A	C4-C5-N7	-8.48	106.46	110.70
37	7	85	G	C4-C5-C6	8.48	123.89	118.80
36	1	1166	G	C2-N3-C4	-8.48	107.66	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1526	U	C6-N1-C2	-8.48	115.91	121.00
38	4	82	U	C5-C6-N1	8.48	126.94	122.70
80	6	17	C	O5'-P-OP2	-8.48	98.07	105.70
36	1	148	G	N9-C4-C5	8.48	108.79	105.40
36	1	294	U	N3-C4-C5	-8.48	109.52	114.60
36	1	1383	G	N7-C8-N9	8.48	117.34	113.10
85	5	1056	U	C5-C4-O4	8.48	130.99	125.90
36	1	1897	G	C6-N1-C2	-8.48	120.01	125.10
36	1	3343	G	C6-C5-N7	-8.48	125.31	130.40
36	1	3362	A	C5-C6-N6	-8.48	116.92	123.70
80	6	82	U	OP1-P-OP2	-8.48	106.89	119.60
80	6	1127	G	N1-C2-N3	8.48	128.99	123.90
85	5	386	A	C2-N3-C4	-8.48	106.36	110.60
1	2	1198	C	C6-N1-C2	-8.47	116.91	120.30
36	1	156	G	C8-N9-C4	-8.47	103.01	106.40
36	1	901	G	C6-C5-N7	-8.47	125.31	130.40
36	1	1376	C	OP1-P-OP2	8.47	132.31	119.60
36	1	315	C	C5-C4-N4	-8.47	114.27	120.20
36	1	2957	G	N3-C4-C5	8.47	132.84	128.60
36	1	2972	G	O4'-C1'-N9	8.47	114.98	108.20
36	1	3104	U	N1-C2-N3	-8.47	109.81	114.90
36	1	3216	G	N7-C8-N9	8.47	117.34	113.10
80	6	963	A	C2-N3-C4	8.47	114.84	110.60
85	5	567	G	C5-N7-C8	-8.47	100.06	104.30
85	5	1755	C	N1-C2-O2	-8.47	113.81	118.90
36	1	3288	G	C4-C5-N7	8.47	114.19	110.80
80	6	801	G	N3-C4-C5	-8.47	124.36	128.60
85	5	1625	A	C2-N3-C4	-8.47	106.36	110.60
85	5	3180	A	C5-C6-N1	8.47	121.94	117.70
36	1	1547	G	C8-N9-C4	8.47	109.79	106.40
85	5	432	G	C2-N3-C4	-8.47	107.66	111.90
85	5	1211	U	O5'-P-OP2	-8.47	98.08	105.70
85	5	2218	G	N3-C4-C5	-8.47	124.36	128.60
37	7	63	A	N1-C6-N6	8.47	123.68	118.60
1	2	599	A	N9-C4-C5	8.47	109.19	105.80
80	6	290	G	N1-C2-N2	8.47	123.82	116.20
80	6	584	C	N3-C4-C5	8.47	125.29	121.90
85	5	221	A	N9-C4-C5	8.47	109.19	105.80
85	5	288	C	N3-C4-N4	8.47	123.93	118.00
85	5	568	G	C6-C5-N7	-8.47	125.32	130.40
85	5	818	C	N1-C2-O2	-8.47	113.82	118.90
85	5	1797	A	C2-N3-C4	-8.47	106.36	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2395	G	N1-C6-O6	8.47	124.98	119.90
85	5	2775	U	C5-C4-O4	8.47	130.98	125.90
85	5	2883	U	OP1-P-OP2	-8.47	106.90	119.60
85	5	3025	C	C5-C4-N4	8.47	126.13	120.20
1	2	1035	U	N3-C2-O2	-8.47	116.27	122.20
36	1	713	U	N1-C2-N3	8.47	119.98	114.90
36	1	1325	U	O5'-P-OP2	-8.47	98.08	105.70
36	1	2165	G	C4-C5-C6	8.47	123.88	118.80
36	1	2893	C	N3-C4-C5	8.47	125.29	121.90
80	6	43	A	C8-N9-C4	-8.47	102.41	105.80
80	6	463	U	C6-N1-C2	-8.47	115.92	121.00
80	6	1570	A	C5-C6-N1	8.47	121.93	117.70
85	5	141	C	C5-C4-N4	-8.47	114.27	120.20
85	5	1078	U	C5-C4-O4	8.47	130.98	125.90
85	5	1462	A	C5-C6-N1	-8.47	113.47	117.70
85	5	2256	A	N1-C6-N6	8.47	123.68	118.60
85	5	2851	A	C5-N7-C8	-8.47	99.67	103.90
37	7	48	U	N3-C4-O4	8.47	125.33	119.40
49	m3	49	ARG	NE-CZ-NH2	8.47	124.53	120.30
91	p	74	C	N3-C2-O2	8.47	127.83	121.90
36	1	206	G	C6-C5-N7	-8.47	125.32	130.40
36	1	230	U	N1-C2-N3	8.47	119.98	114.90
36	1	741	U	C5-C4-O4	8.46	130.98	125.90
36	1	1600	U	OP1-P-OP2	-8.47	106.90	119.60
80	6	1680	G	C5-C6-N1	8.47	115.73	111.50
36	1	842	G	C5-C6-N1	8.46	115.73	111.50
36	1	974	G	C5-C6-N1	8.46	115.73	111.50
36	1	1004	U	N3-C4-C5	-8.46	109.52	114.60
36	1	1832	C	O5'-P-OP2	-8.46	98.08	105.70
36	1	1918	C	N3-C2-O2	-8.46	115.97	121.90
36	1	2377	G	N1-C2-N2	-8.46	108.58	116.20
36	1	2650	U	C5-C4-O4	8.46	130.98	125.90
36	1	2854	U	C5-C6-N1	-8.46	118.47	122.70
80	6	447	U	N3-C4-C5	-8.46	109.52	114.60
80	6	1104	U	N3-C4-O4	8.46	125.33	119.40
85	5	79	U	C5-C6-N1	-8.46	118.47	122.70
85	5	386	A	N7-C8-N9	-8.46	109.57	113.80
85	5	1144	U	O5'-P-OP1	-8.46	98.08	105.70
85	5	1301	A	N9-C4-C5	8.47	109.19	105.80
85	5	2956	A	N1-C2-N3	8.46	133.53	129.30
1	2	163	G	C5-C6-O6	8.46	133.68	128.60
36	1	75	G	C4-C5-N7	8.46	114.19	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	833	G	N1-C2-N3	8.46	128.98	123.90
36	1	1319	G	N7-C8-N9	8.46	117.33	113.10
36	1	1552	G	C6-C5-N7	-8.46	125.32	130.40
36	1	3078	U	C5-C4-O4	8.46	130.98	125.90
80	6	308	C	N3-C2-O2	-8.46	115.98	121.90
85	5	703	G	C5-C6-O6	-8.46	123.52	128.60
36	1	588	G	OP1-P-OP2	-8.46	106.91	119.60
36	1	1289	G	C6-C5-N7	-8.46	125.32	130.40
36	1	1341	U	N3-C4-C5	-8.46	109.52	114.60
36	1	3375	A	N1-C2-N3	8.46	133.53	129.30
85	5	150	A	N9-C4-C5	-8.46	102.42	105.80
80	6	979	A	N9-C4-C5	8.46	109.18	105.80
80	6	1033	C	C5-C6-N1	-8.46	116.77	121.00
85	5	2929	C	N3-C4-C5	8.46	125.28	121.90
85	5	980	A	C5-C6-N6	8.46	130.47	123.70
85	5	2119	A	C4-C5-N7	8.46	114.93	110.70
1	2	1103	U	N3-C2-O2	-8.46	116.28	122.20
36	1	1447	G	C4-C5-N7	-8.46	107.42	110.80
80	6	637	C	N1-C2-O2	8.46	123.98	118.90
36	1	24	G	O5'-P-OP1	8.46	120.85	110.70
36	1	198	A	N1-C2-N3	8.46	133.53	129.30
36	1	559	A	N1-C6-N6	8.46	123.67	118.60
36	1	2738	A	O5'-P-OP2	-8.46	98.09	105.70
36	1	2761	G	C8-N9-C4	8.46	109.78	106.40
80	6	680	U	N1-C2-O2	8.46	128.72	122.80
36	1	1334	U	N3-C4-C5	-8.46	109.53	114.60
36	1	2877	G	C5-C6-O6	8.46	133.67	128.60
80	6	645	C	C2-N3-C4	8.46	124.13	119.90
85	5	2342	U	C2-N3-C4	-8.46	121.92	127.00
85	5	3068	U	C4-C5-C6	8.46	124.78	119.70
85	5	3330	A	N3-C4-C5	-8.46	120.88	126.80
37	7	70	U	C5-C6-N1	8.46	126.93	122.70
36	1	3385	U	C5-C6-N1	-8.46	118.47	122.70
80	6	879	G	C6-C5-N7	8.46	135.47	130.40
80	6	996	U	N1-C2-O2	-8.46	116.88	122.80
85	5	2635	A	N1-C2-N3	8.46	133.53	129.30
85	5	3048	A	N9-C4-C5	8.46	109.18	105.80
36	1	584	G	C2-N3-C4	-8.45	107.67	111.90
80	6	542	A	N1-C6-N6	-8.45	113.53	118.60
85	5	763	G	N1-C6-O6	8.46	124.97	119.90
85	5	1106	G	C5-N7-C8	-8.45	100.07	104.30
85	5	2391	G	C5-C6-O6	8.46	133.67	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1104	G	N3-C4-C5	8.45	132.83	128.60
36	1	1205	A	C8-N9-C4	8.45	109.18	105.80
36	1	2315	G	O5'-P-OP2	8.45	120.84	110.70
36	1	2626	A	N1-C2-N3	8.45	133.53	129.30
36	1	3176	G	O5'-P-OP2	8.45	120.84	110.70
80	6	1775	U	N1-C2-N3	8.45	119.97	114.90
36	1	3325	G	N9-C4-C5	8.45	108.78	105.40
80	6	331	A	C8-N9-C4	-8.45	102.42	105.80
85	5	26	A	N1-C2-N3	8.45	133.53	129.30
85	5	1374	G	N1-C6-O6	8.45	124.97	119.90
85	5	3267	A	N3-C4-C5	-8.45	120.88	126.80
37	7	40	C	N3-C4-C5	-8.45	118.52	121.90
1	2	1408	A	N1-C6-N6	-8.45	113.53	118.60
36	1	1890	U	N1-C2-N3	-8.45	109.83	114.90
85	5	1133	A	C5-N7-C8	-8.45	99.67	103.90
38	8	133	G	O5'-P-OP2	-8.45	98.09	105.70
38	4	66	A	C8-N9-C4	-8.45	102.42	105.80
85	5	408	A	N7-C8-N9	-8.45	109.58	113.80
85	5	652	G	N3-C2-N2	-8.45	113.99	119.90
85	5	1692	U	N1-C2-O2	-8.45	116.89	122.80
85	5	2339	C	N3-C4-N4	8.45	123.92	118.00
36	1	2395	G	N3-C4-C5	8.45	132.82	128.60
36	1	68	C	C5-C6-N1	-8.45	116.78	121.00
36	1	3040	A	C2-N3-C4	-8.45	106.38	110.60
36	1	3234	A	N1-C6-N6	8.45	123.67	118.60
80	6	73	U	C6-N1-C2	8.45	126.07	121.00
80	6	637	C	N3-C4-C5	8.45	125.28	121.90
85	5	584	G	C6-N1-C2	-8.45	120.03	125.10
36	1	610	G	N1-C2-N3	8.44	128.97	123.90
36	1	1291	A	N7-C8-N9	8.44	118.02	113.80
36	1	3181	C	OP2-P-O3'	8.45	123.78	105.20
80	6	107	C	N1-C2-O2	-8.44	113.83	118.90
80	6	1681	A	C5-C6-N1	-8.45	113.48	117.70
85	5	1901	A	N7-C8-N9	8.45	118.02	113.80
85	5	2755	C	C6-N1-C2	-8.45	116.92	120.30
85	5	3221	C	N3-C4-C5	-8.44	118.52	121.90
38	8	43	A	O5'-P-OP1	8.45	120.83	110.70
1	2	1253	G	N9-C4-C5	-8.44	102.02	105.40
36	1	205	C	O5'-P-OP1	8.44	120.83	110.70
36	1	370	U	C6-N1-C2	-8.44	115.93	121.00
80	6	47	A	C2-N3-C4	8.44	114.82	110.60
80	6	798	C	C5-C6-N1	8.44	125.22	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	417	A	C8-N9-C4	8.44	109.18	105.80
85	5	1180	A	O5'-P-OP2	8.44	120.83	110.70
85	5	1410	U	N3-C2-O2	-8.44	116.29	122.20
85	5	2343	C	C5-C6-N1	-8.44	116.78	121.00
85	5	3370	A	C5-C6-N1	8.44	121.92	117.70
36	1	2997	G	C8-N9-C4	-8.44	103.02	106.40
85	5	506	U	N1-C2-N3	8.44	119.97	114.90
85	5	882	A	C8-N9-C4	-8.44	102.42	105.80
85	5	1769	G	N9-C4-C5	-8.44	102.02	105.40
85	5	2421	U	N3-C2-O2	-8.44	116.29	122.20
36	1	1314	C	N3-C2-O2	-8.44	115.99	121.90
36	1	3092	C	N3-C4-C5	-8.44	118.52	121.90
80	6	994	G	N1-C6-O6	8.44	124.96	119.90
85	5	2786	G	C5-C6-N1	-8.44	107.28	111.50
36	1	1927	G	C5-C6-N1	-8.44	107.28	111.50
36	1	2591	A	C5-C6-N6	-8.44	116.95	123.70
38	4	99	C	C5-C6-N1	-8.44	116.78	121.00
85	5	1345	G	C4-C5-N7	-8.44	107.43	110.80
85	5	2264	U	N3-C4-O4	8.44	125.31	119.40
85	5	2378	C	C6-N1-C2	8.44	123.67	120.30
85	5	2607	G	N1-C2-N3	8.44	128.96	123.90
85	5	2879	C	N3-C4-N4	-8.44	112.09	118.00
85	5	1600	U	OP1-P-OP2	-8.44	106.95	119.60
85	5	2711	C	C4-C5-C6	8.44	121.62	117.40
85	5	3209	A	C5-C6-N6	8.44	130.45	123.70
1	2	1094	G	N9-C4-C5	-8.43	102.03	105.40
36	1	2187	G	OP2-P-O3'	8.43	123.75	105.20
80	6	784	C	N3-C2-O2	8.43	127.80	121.90
85	5	1848	G	C5-C6-O6	-8.43	123.54	128.60
85	5	337	G	N1-C6-O6	8.43	124.96	119.90
85	5	1518	U	OP1-P-O3'	8.43	123.75	105.20
85	5	2889	C	N3-C4-C5	8.43	125.27	121.90
36	1	641	C	C5-C6-N1	8.43	125.22	121.00
36	1	1113	G	N9-C4-C5	8.43	108.77	105.40
36	1	1483	G	N3-C2-N2	-8.43	114.00	119.90
36	1	3143	C	C4-C5-C6	8.43	121.61	117.40
36	1	3209	A	C4-C5-N7	8.43	114.92	110.70
80	6	1443	U	N1-C2-N3	8.43	119.96	114.90
85	5	1114	U	C2-N3-C4	8.43	132.06	127.00
1	2	748	G	C5-C6-N1	8.43	115.71	111.50
36	1	204	A	C5-N7-C8	-8.43	99.69	103.90
36	1	3138	U	N1-C2-O2	-8.43	116.90	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	615	U	C5-C4-O4	-8.43	120.84	125.90
85	5	2520	A	N7-C8-N9	8.43	118.02	113.80
1	2	685	G	N1-C6-O6	8.43	124.95	119.90
36	1	223	U	N1-C2-O2	-8.43	116.90	122.80
36	1	703	G	C4-C5-N7	-8.43	107.43	110.80
36	1	803	C	C4-C5-C6	-8.43	113.19	117.40
36	1	1249	G	N1-C6-O6	8.43	124.96	119.90
38	4	53	A	N1-C2-N3	8.43	133.51	129.30
85	5	40	A	N1-C6-N6	8.43	123.66	118.60
36	1	1120	A	C2-N3-C4	8.43	114.81	110.60
36	1	1188	U	OP1-P-OP2	-8.43	106.96	119.60
36	1	1804	A	N1-C2-N3	8.43	133.51	129.30
85	5	816	A	C2-N3-C4	8.43	114.81	110.60
85	5	2243	A	C8-N9-C4	8.43	109.17	105.80
85	5	2273	G	C6-N1-C2	8.43	130.16	125.10
51	m5	109	ARG	NE-CZ-NH1	-8.43	116.09	120.30
85	5	2717	U	C4-C5-C6	8.43	124.75	119.70
85	5	3264	G	C5-C6-O6	-8.43	123.55	128.60
38	8	79	A	N1-C6-N6	8.43	123.66	118.60
1	2	920	C	C5-C6-N1	8.42	125.21	121.00
85	5	2360	C	OP1-P-OP2	-8.42	106.96	119.60
36	1	643	U	O5'-P-OP2	-8.42	98.12	105.70
36	1	648	C	C4-C5-C6	8.42	121.61	117.40
36	1	1335	C	N3-C2-O2	-8.42	116.00	121.90
36	1	1340	G	N3-C2-N2	-8.42	114.00	119.90
80	6	315	A	C4-C5-N7	8.42	114.91	110.70
85	5	346	C	C2-N3-C4	-8.42	115.69	119.90
85	5	350	C	C5-C4-N4	8.42	126.10	120.20
85	5	650	C	N1-C2-O2	-8.42	113.85	118.90
85	5	1003	A	C2-N3-C4	-8.42	106.39	110.60
85	5	1133	A	C8-N9-C1'	-8.42	112.54	127.70
85	5	3155	U	C5-C4-O4	8.42	130.95	125.90
85	5	2200	U	N3-C2-O2	-8.42	116.30	122.20
36	1	2642	A	N1-C2-N3	8.42	133.51	129.30
1	2	596	C	N3-C4-C5	-8.42	118.53	121.90
1	2	599	A	C4-C5-N7	-8.42	106.49	110.70
1	2	1100	U	C5-C6-N1	8.42	126.91	122.70
36	1	217	U	C4-C5-C6	8.42	124.75	119.70
80	6	1513	G	C4-C5-N7	-8.42	107.43	110.80
36	1	151	A	C5-C6-N6	-8.42	116.96	123.70
36	1	291	C	C6-N1-C2	-8.42	116.93	120.30
36	1	1672	U	C4-C5-C6	-8.42	114.65	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1936	A	N1-C6-N6	-8.42	113.55	118.60
36	1	2322	C	C6-N1-C2	-8.42	116.93	120.30
36	1	2888	U	C6-N1-C2	8.42	126.05	121.00
36	1	3243	A	C6-N1-C2	-8.42	113.55	118.60
80	6	600	U	N3-C4-O4	8.42	125.29	119.40
80	6	969	C	C5-C6-N1	-8.42	116.79	121.00
85	5	1698	C	N3-C4-C5	-8.42	118.53	121.90
85	5	1869	C	C4-C5-C6	-8.42	113.19	117.40
85	5	2244	A	C6-N1-C2	-8.42	113.55	118.60
85	5	2345	A	C5-N7-C8	-8.42	99.69	103.90
85	5	3276	G	C2-N3-C4	8.42	116.11	111.90
37	7	31	U	C6-N1-C2	-8.42	115.95	121.00
85	5	908	G	N7-C8-N9	8.42	117.31	113.10
1	2	1158	U	N3-C2-O2	8.42	128.09	122.20
36	1	417	A	C4-C5-N7	8.42	114.91	110.70
36	1	677	A	N9-C4-C5	8.42	109.17	105.80
36	1	830	A	C8-N9-C4	-8.42	102.43	105.80
36	1	1781	C	C6-N1-C2	-8.42	116.93	120.30
36	1	2187	G	C8-N9-C4	-8.42	103.03	106.40
36	1	2637	A	N1-C6-N6	-8.42	113.55	118.60
80	6	432	G	C2-N3-C4	-8.42	107.69	111.90
85	5	1111	U	C4-C5-C6	-8.42	114.65	119.70
85	5	2838	A	C5-C6-N1	8.42	121.91	117.70
85	5	1898	G	C4-C5-C6	8.42	123.85	118.80
85	5	3067	C	N3-C2-O2	-8.42	116.01	121.90
36	1	597	G	N1-C6-O6	-8.41	114.85	119.90
36	1	1419	A	OP1-P-OP2	-8.41	106.98	119.60
36	1	2222	A	N1-C2-N3	8.41	133.51	129.30
85	5	1386	A	C5-C6-N1	-8.41	113.49	117.70
36	1	52	A	OP1-P-OP2	8.41	132.22	119.60
36	1	1843	C	C5-C6-N1	-8.41	116.79	121.00
36	1	1860	G	C4-C5-N7	-8.41	107.44	110.80
36	1	2439	A	N1-C6-N6	8.41	123.65	118.60
36	1	2853	A	C8-N9-C4	-8.41	102.44	105.80
36	1	3298	C	N1-C2-N3	-8.41	113.31	119.20
36	1	3389	U	N1-C2-O2	8.41	128.69	122.80
40	L3	4	ARG	NE-CZ-NH1	-8.41	116.09	120.30
85	5	1346	G	C4-C5-C6	8.41	123.85	118.80
85	5	2587	U	N3-C4-O4	8.41	125.29	119.40
80	6	1645	G	N3-C4-C5	8.41	132.81	128.60
85	5	1393	A	C5-C6-N6	8.41	130.43	123.70
85	5	1714	A	C5-C6-N1	-8.41	113.49	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1802	C	N1-C2-O2	-8.41	113.85	118.90
85	5	2399	A	N7-C8-N9	8.41	118.01	113.80
48	m1	137	ARG	NE-CZ-NH1	-8.41	116.09	120.30
36	1	51	A	O5'-P-OP2	-8.41	98.13	105.70
36	1	216	G	C8-N9-C4	-8.41	103.04	106.40
36	1	267	G	N9-C4-C5	-8.41	102.04	105.40
36	1	644	G	C4-C5-N7	-8.41	107.44	110.80
36	1	1589	A	C4-C5-N7	-8.41	106.50	110.70
36	1	1776	G	N1-C6-O6	8.41	124.95	119.90
36	1	1839	A	C5-N7-C8	-8.41	99.69	103.90
36	1	2173	U	C5-C4-O4	8.41	130.95	125.90
38	4	110	C	N3-C2-O2	8.41	127.79	121.90
80	6	53	G	C6-N1-C2	-8.41	120.05	125.10
85	5	2300	G	C2-N3-C4	8.41	116.11	111.90
37	7	76	A	C6-N1-C2	8.41	123.65	118.60
36	1	3177	G	C5-C6-O6	8.41	133.65	128.60
85	5	1769	G	C4-C5-N7	8.41	114.16	110.80
85	5	1802	C	C5-C6-N1	-8.41	116.80	121.00
85	5	2133	U	N3-C2-O2	8.41	128.09	122.20
85	5	2230	C	N3-C2-O2	8.41	127.79	121.90
85	5	2579	G	C8-N9-C4	-8.41	103.04	106.40
36	1	19	U	C5-C4-O4	8.41	130.94	125.90
36	1	564	G	N7-C8-N9	-8.41	108.90	113.10
36	1	724	U	C5-C4-O4	-8.41	120.86	125.90
36	1	1794	G	N1-C2-N3	8.41	128.94	123.90
85	5	954	U	C6-N1-C2	-8.41	115.95	121.00
38	8	41	A	O5'-P-OP1	-8.41	98.13	105.70
38	4	63	G	N7-C8-N9	8.41	117.30	113.10
80	6	1773	C	N1-C2-O2	-8.41	113.86	118.90
37	7	42	A	C2-N3-C4	-8.41	106.40	110.60
36	1	1002	A	C5-N7-C8	-8.40	99.70	103.90
80	6	1511	U	C5-C6-N1	8.40	126.90	122.70
85	5	595	G	C2-N3-C4	-8.40	107.70	111.90
85	5	679	U	OP1-P-OP2	8.40	132.21	119.60
85	5	3014	U	N1-C2-N3	8.40	119.94	114.90
36	1	3375	A	C8-N9-C4	-8.40	102.44	105.80
85	5	189	G	C5-C6-O6	8.40	133.64	128.60
85	5	518	G	N1-C2-N3	8.40	128.94	123.90
85	5	556	U	N1-C2-N3	8.40	119.94	114.90
85	5	902	G	C4-C5-N7	8.40	114.16	110.80
85	5	1178	G	OP1-P-OP2	8.40	132.21	119.60
85	5	1075	A	N7-C8-N9	-8.40	109.60	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2395	G	C8-N9-C4	-8.40	103.04	106.40
85	5	3248	C	N3-C4-N4	8.40	123.88	118.00
36	1	63	A	C6-C5-N7	-8.40	126.42	132.30
36	1	967	A	N1-C6-N6	-8.40	113.56	118.60
36	1	1480	G	C5-N7-C8	-8.40	100.10	104.30
85	5	286	U	N1-C2-O2	8.40	128.68	122.80
85	5	966	U	O5'-P-OP1	-8.40	98.14	105.70
85	5	1868	G	N3-C4-N9	8.40	131.04	126.00
85	5	2386	A	C5-N7-C8	-8.40	99.70	103.90
85	5	2609	A	C8-N9-C4	8.40	109.16	105.80
85	5	3184	A	O5'-P-OP1	8.40	120.78	110.70
38	8	81	U	C4-C5-C6	-8.40	114.66	119.70
38	8	143	U	C4-C5-C6	8.40	124.74	119.70
36	1	632	G	C5-C6-O6	-8.40	123.56	128.60
36	1	703	G	C6-C5-N7	8.40	135.44	130.40
36	1	3361	G	OP1-P-OP2	8.40	132.20	119.60
80	6	1674	C	C6-N1-C2	8.40	123.66	120.30
85	5	146	U	C2-N3-C4	-8.40	121.96	127.00
85	5	2435	G	N3-C4-C5	8.40	132.80	128.60
37	7	77	G	N3-C4-N9	8.40	131.04	126.00
1	2	110	U	C5-C6-N1	8.40	126.90	122.70
36	1	806	A	N3-C4-C5	8.40	132.68	126.80
36	1	1362	G	C8-N9-C4	8.40	109.76	106.40
36	1	2320	A	C2-N3-C4	-8.40	106.40	110.60
36	1	2399	A	C5-C6-N1	8.40	121.90	117.70
36	1	3174	A	N7-C8-N9	8.40	118.00	113.80
36	1	3186	A	N9-C4-C5	8.40	109.16	105.80
41	L4	107	ARG	NE-CZ-NH1	-8.40	116.10	120.30
85	5	521	A	O5'-P-OP1	-8.40	98.14	105.70
80	6	483	A	C5-C6-N1	-8.40	113.50	117.70
85	5	185	C	C4-C5-C6	8.40	121.60	117.40
85	5	1366	A	N1-C6-N6	-8.40	113.56	118.60
85	5	1678	G	C2-N3-C4	8.40	116.10	111.90
85	5	2520	A	O5'-P-OP2	8.40	120.78	110.70
85	5	2633	U	N3-C4-C5	-8.40	109.56	114.60
38	8	114	G	C5-C6-N1	-8.40	107.30	111.50
36	1	412	G	C4-C5-N7	-8.39	107.44	110.80
36	1	973	A	C4-C5-C6	8.39	121.20	117.00
36	1	2413	A	N1-C6-N6	-8.39	113.56	118.60
36	1	643	U	N3-C4-C5	-8.39	109.56	114.60
36	1	1167	U	O5'-P-OP1	8.39	120.77	110.70
36	1	1448	U	OP1-P-O3'	-8.39	86.73	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1767	C	N3-C2-O2	-8.39	116.02	121.90
36	1	2602	G	C6-N1-C2	-8.39	120.06	125.10
36	1	3013	U	C6-N1-C2	8.39	126.04	121.00
80	6	1759	C	N3-C2-O2	8.39	127.78	121.90
85	5	2897	A	C8-N9-C4	8.39	109.16	105.80
85	5	147	U	N3-C2-O2	8.39	128.07	122.20
85	5	583	G	C2-N3-C4	-8.39	107.70	111.90
85	5	1420	C	C5-C4-N4	8.39	126.08	120.20
37	7	29	C	N1-C2-N3	8.39	125.08	119.20
1	2	1327	A	C8-N9-C4	8.39	109.16	105.80
36	1	1212	A	C5-N7-C8	-8.39	99.70	103.90
85	5	171	G	N3-C4-C5	-8.39	124.40	128.60
1	2	25	C	N3-C4-C5	8.39	125.26	121.90
36	1	629	U	OP2-P-O3'	8.39	123.66	105.20
36	1	2440	G	C5-N7-C8	8.39	108.50	104.30
36	1	2765	C	C2-N3-C4	-8.39	115.70	119.90
80	6	798	C	N3-C4-C5	-8.39	118.54	121.90
85	5	199	A	C2-N3-C4	-8.39	106.41	110.60
85	5	1269	U	C6-N1-C2	-8.39	115.97	121.00
85	5	1790	G	C6-C5-N7	-8.39	125.36	130.40
85	5	2657	A	N7-C8-N9	8.39	118.00	113.80
85	5	2973	G	C5-C6-N1	-8.39	107.31	111.50
37	7	88	G	OP1-P-OP2	8.39	132.19	119.60
85	5	3112	G	O5'-P-OP1	-8.39	98.15	105.70
36	1	1333	C	C6-N1-C2	-8.39	116.94	120.30
36	1	2216	G	N9-C4-C5	8.39	108.75	105.40
85	5	1338	C	C6-N1-C2	-8.39	116.94	120.30
85	5	1555	U	N3-C4-O4	-8.39	113.53	119.40
38	4	33	A	C4-C5-C6	8.39	121.19	117.00
38	4	54	A	C8-N9-C4	-8.39	102.44	105.80
85	5	1413	G	C8-N9-C1'	8.39	137.90	127.00
85	5	1434	G	N7-C8-N9	8.39	117.29	113.10
85	5	2970	C	OP1-P-OP2	8.39	132.18	119.60
85	5	3117	C	C5-C6-N1	-8.39	116.81	121.00
85	5	3235	C	N1-C2-O2	8.39	123.93	118.90
85	5	3330	A	N1-C6-N6	-8.39	113.57	118.60
1	2	72	A	C6-N1-C2	8.38	123.63	118.60
36	1	108	A	C2-N3-C4	8.38	114.79	110.60
36	1	883	A	O5'-P-OP1	8.39	120.76	110.70
36	1	1079	A	N9-C4-C5	8.39	109.15	105.80
36	1	2239	G	N1-C2-N2	8.39	123.75	116.20
36	1	2761	G	C5-C6-N1	-8.39	107.31	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2753	G	N1-C2-N3	8.39	128.93	123.90
36	1	317	A	C8-N9-C4	-8.38	102.45	105.80
36	1	1481	A	N7-C8-N9	8.38	117.99	113.80
36	1	1767	C	C4-C5-C6	8.38	121.59	117.40
36	1	2761	G	C4-C5-N7	-8.38	107.45	110.80
36	1	3344	A	O4'-C1'-N9	8.38	114.91	108.20
85	5	266	A	N9-C4-C5	8.38	109.15	105.80
85	5	411	U	N3-C4-O4	8.38	125.27	119.40
85	5	858	A	C2-N3-C4	-8.38	106.41	110.60
85	5	1939	G	C2-N3-C4	-8.38	107.71	111.90
85	5	2211	U	N3-C2-O2	-8.38	116.33	122.20
85	5	2774	C	C2-N3-C4	-8.38	115.71	119.90
85	5	2964	G	C5-C6-N1	8.38	115.69	111.50
85	5	3313	U	C5-C4-O4	8.38	130.93	125.90
37	7	95	A	N3-C4-C5	-8.38	120.93	126.80
1	2	1010	A	C8-N9-C4	-8.38	102.45	105.80
36	1	11	A	C5-C6-N1	-8.38	113.51	117.70
36	1	1414	G	C5-C6-O6	-8.38	123.57	128.60
85	5	569	A	C5-C6-N1	8.38	121.89	117.70
85	5	834	U	N3-C4-O4	-8.38	113.53	119.40
36	1	373	A	C5-C6-N1	8.38	121.89	117.70
36	1	1499	C	O5'-P-OP1	8.38	120.76	110.70
80	6	765	G	N1-C2-N2	8.38	123.74	116.20
85	5	511	G	N3-C2-N2	-8.38	114.03	119.90
85	5	718	G	C6-C5-N7	-8.38	125.37	130.40
85	5	1170	A	C2-N3-C4	-8.38	106.41	110.60
85	5	2681	U	N1-C2-N3	8.38	119.93	114.90
85	5	3049	A	N7-C8-N9	-8.38	109.61	113.80
1	2	99	C	C2-N3-C4	-8.38	115.71	119.90
36	1	1390	A	N1-C2-N3	8.38	133.49	129.30
36	1	2416	U	N3-C4-C5	8.38	119.63	114.60
85	5	3311	C	C5-C6-N1	8.38	125.19	121.00
85	5	596	C	C6-N1-C2	-8.38	116.95	120.30
85	5	1518	U	N3-C4-C5	-8.38	109.57	114.60
85	5	2774	C	N1-C2-N3	8.38	125.06	119.20
38	8	110	C	OP2-P-O3'	8.38	123.63	105.20
1	2	1489	G	C2-N3-C4	8.38	116.09	111.90
36	1	836	A	N1-C6-N6	8.38	123.63	118.60
36	1	839	C	N1-C2-O2	-8.38	113.88	118.90
36	1	959	C	C5-C6-N1	-8.38	116.81	121.00
36	1	3102	G	C4-C5-N7	-8.38	107.45	110.80
80	6	1577	A	N1-C6-N6	8.38	123.62	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1476	G	N1-C2-N2	-8.38	108.66	116.20
38	8	25	G	N1-C2-N3	8.38	128.93	123.90
36	1	2843	U	C5-C4-O4	8.37	130.92	125.90
85	5	1126	G	C8-N9-C4	-8.37	103.05	106.40
85	5	2863	G	N1-C2-N3	8.37	128.92	123.90
85	5	3241	G	C2-N3-C4	-8.38	107.71	111.90
36	1	2722	U	N3-C4-O4	8.37	125.26	119.40
80	6	923	A	C8-N9-C4	8.37	109.15	105.80
85	5	245	U	C5-C6-N1	-8.37	118.51	122.70
40	l3	14	LEU	CB-CG-CD2	-8.37	96.77	111.00
36	1	615	U	C5-C4-O4	8.37	130.92	125.90
36	1	2682	C	N3-C2-O2	-8.37	116.04	121.90
36	1	3089	C	C6-N1-C2	-8.37	116.95	120.30
80	6	555	A	C6-N1-C2	-8.37	113.58	118.60
80	6	1335	U	N3-C2-O2	-8.37	116.34	122.20
85	5	2243	A	N7-C8-N9	-8.37	109.61	113.80
85	5	2306	C	N3-C4-C5	-8.37	118.55	121.90
85	5	3318	G	O5'-P-OP2	8.37	120.75	110.70
36	1	279	U	N3-C2-O2	-8.37	116.34	122.20
36	1	3118	C	C6-N1-C2	-8.37	116.95	120.30
37	3	78	U	N3-C4-O4	8.37	125.26	119.40
37	3	88	G	C5-N7-C8	8.37	108.48	104.30
38	4	9	A	C8-N9-C4	8.37	109.15	105.80
38	4	137	C	C6-N1-C2	8.37	123.65	120.30
80	6	157	A	C6-N1-C2	-8.37	113.58	118.60
80	6	1440	C	C5-C6-N1	8.37	125.19	121.00
85	5	1145	G	N1-C6-O6	-8.37	114.88	119.90
85	5	2367	A	O5'-P-OP2	-8.37	98.17	105.70
85	5	2863	G	N3-C4-C5	-8.37	124.42	128.60
38	4	79	A	C5-C6-N1	-8.37	113.52	117.70
85	5	31	C	N1-C2-N3	8.37	125.06	119.20
85	5	95	A	C2-N3-C4	8.37	114.78	110.60
85	5	510	G	C5-C6-N1	8.37	115.68	111.50
85	5	568	G	C4-C5-N7	8.37	114.15	110.80
85	5	777	U	C2-N3-C4	8.37	132.02	127.00
85	5	2282	U	C4-C5-C6	8.37	124.72	119.70
38	8	140	G	N7-C8-N9	8.37	117.28	113.10
1	2	1011	C	N3-C4-N4	8.37	123.86	118.00
36	1	1593	A	O5'-P-OP2	-8.37	98.17	105.70
80	6	625	C	N1-C2-O2	-8.37	113.88	118.90
85	5	1315	U	N3-C2-O2	-8.37	116.34	122.20
85	5	2958	A	N7-C8-N9	8.37	117.98	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3059	G	O5'-P-OP1	-8.37	98.17	105.70
36	1	756	U	N1-C2-N3	8.36	119.92	114.90
36	1	1005	G	C2-N3-C4	-8.36	107.72	111.90
36	1	2114	C	N3-C4-C5	8.37	125.25	121.90
80	6	299	A	O5'-P-OP2	-8.36	98.17	105.70
80	6	1134	C	O5'-P-OP2	-8.37	98.17	105.70
80	6	1757	G	C5-N7-C8	8.37	108.48	104.30
85	5	846	A	C2-N3-C4	-8.37	106.42	110.60
85	5	2926	A	O5'-P-OP1	8.37	120.74	110.70
1	2	109	G	C4-C5-C6	8.36	123.82	118.80
1	2	977	G	C8-N9-C4	8.36	109.75	106.40
36	1	1114	U	N3-C2-O2	-8.36	116.35	122.20
85	5	698	U	N3-C2-O2	8.36	128.05	122.20
36	1	1423	C	N3-C4-C5	-8.36	118.56	121.90
36	1	1682	U	C2-N3-C4	8.36	132.02	127.00
36	1	1831	U	C5-C6-N1	8.36	126.88	122.70
36	1	2400	G	C5-N7-C8	-8.36	100.12	104.30
36	1	2553	U	C5-C4-O4	8.36	130.92	125.90
36	1	2608	G	O5'-P-OP2	-8.36	98.17	105.70
36	1	3017	A	N1-C2-N3	8.36	133.48	129.30
68	O2	66	LEU	CB-CG-CD1	-8.36	96.78	111.00
80	6	1388	A	C8-N9-C4	-8.36	102.45	105.80
85	5	416	A	C4-C5-C6	8.36	121.18	117.00
85	5	651	G	N1-C6-O6	8.36	124.92	119.90
85	5	890	C	N3-C2-O2	-8.36	116.05	121.90
85	5	660	A	C2-N3-C4	8.36	114.78	110.60
85	5	1392	G	N3-C4-C5	-8.36	124.42	128.60
85	5	1517	G	N9-C4-C5	8.36	108.75	105.40
85	5	2769	A	C5-C6-N6	8.36	130.39	123.70
85	5	2826	U	O5'-P-OP1	8.36	120.73	110.70
38	8	61	A	C5-C6-N1	8.36	121.88	117.70
85	5	2942	C	C2-N1-C1'	8.36	128.00	118.80
85	5	3050	U	N3-C4-O4	-8.36	113.55	119.40
37	7	23	A	OP1-P-OP2	-8.36	107.06	119.60
1	2	1526	A	C8-N9-C4	8.36	109.14	105.80
36	1	625	G	C5-N7-C8	8.36	108.48	104.30
36	1	2921	U	C4-C5-C6	8.36	124.72	119.70
85	5	1086	C	O5'-P-OP1	8.36	120.73	110.70
85	5	1452	A	C6-N1-C2	-8.36	113.58	118.60
1	2	598	U	C5-C4-O4	8.36	130.91	125.90
36	1	691	A	O5'-P-OP1	-8.36	98.18	105.70
85	5	1346	G	N1-C2-N3	8.36	128.92	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2355	G	C4-C5-C6	8.36	123.81	118.80
38	4	121	U	N3-C2-O2	-8.36	116.35	122.20
85	5	695	C	N3-C4-N4	8.36	123.85	118.00
85	5	1051	U	N3-C4-O4	8.36	125.25	119.40
85	5	1165	A	N3-C4-C5	-8.36	120.95	126.80
85	5	1641	U	N1-C2-O2	-8.36	116.95	122.80
85	5	2403	G	C2-N3-C4	-8.36	107.72	111.90
85	5	3181	C	C4-C5-C6	8.36	121.58	117.40
36	1	418	A	C8-N9-C4	8.36	109.14	105.80
36	1	655	C	N3-C2-O2	-8.36	116.05	121.90
36	1	734	C	N3-C4-C5	-8.36	118.56	121.90
36	1	930	U	N1-C2-O2	-8.36	116.95	122.80
36	1	2978	U	C5-C6-N1	-8.36	118.52	122.70
80	6	128	U	N1-C2-N3	8.36	119.91	114.90
80	6	412	A	O5'-P-OP1	-8.36	98.18	105.70
80	6	936	G	N1-C2-N2	8.36	123.72	116.20
85	5	600	G	C4-C5-N7	8.36	114.14	110.80
85	5	947	G	N3-C4-C5	8.36	132.78	128.60
85	5	1373	A	C6-N1-C2	-8.36	113.59	118.60
85	5	2751	G	N3-C4-C5	8.36	132.78	128.60
38	8	79	A	N7-C8-N9	8.36	117.98	113.80
85	5	1446	A	C6-C5-N7	8.36	138.15	132.30
85	5	1678	G	C8-N9-C4	-8.36	103.06	106.40
49	m3	91	ARG	NE-CZ-NH2	-8.36	116.12	120.30
36	1	125	C	N3-C4-N4	-8.35	112.15	118.00
36	1	367	A	N9-C4-C5	8.35	109.14	105.80
36	1	870	G	C5-N7-C8	-8.35	100.12	104.30
36	1	2195	C	N3-C4-C5	-8.35	118.56	121.90
36	1	2670	G	C5-N7-C8	-8.35	100.12	104.30
1	2	374	U	C5-C6-N1	8.35	126.88	122.70
36	1	789	A	N9-C4-C5	8.35	109.14	105.80
36	1	1127	G	C4-C5-N7	8.35	114.14	110.80
36	1	1604	G	C2-N3-C4	8.35	116.08	111.90
36	1	2132	C	C5-C4-N4	-8.35	114.35	120.20
36	1	2412	G	C4-C5-N7	-8.35	107.46	110.80
80	6	1652	C	C5-C6-N1	8.35	125.18	121.00
85	5	3091	A	N1-C2-N3	8.35	133.48	129.30
36	1	2819	A	C5-C6-N6	-8.35	117.02	123.70
80	6	1724	U	N3-C4-O4	-8.35	113.55	119.40
85	5	266	A	N1-C2-N3	8.35	133.48	129.30
85	5	443	G	O5'-P-OP1	-8.35	98.18	105.70
85	5	712	G	C8-N9-C4	8.35	109.74	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1949	G	N1-C2-N3	-8.35	118.89	123.90
85	5	3207	U	N1-C2-O2	-8.35	116.95	122.80
36	1	982	C	C4-C5-C6	-8.35	113.22	117.40
36	1	1530	U	OP1-P-OP2	8.35	132.12	119.60
36	1	2274	U	OP1-P-OP2	-8.35	107.07	119.60
36	1	3000	A	N1-C2-N3	8.35	133.47	129.30
37	3	95	A	C8-N9-C4	-8.35	102.46	105.80
80	6	36	C	O5'-P-OP1	8.35	120.72	110.70
80	6	410	A	OP1-P-OP2	8.35	132.12	119.60
85	5	1447	G	O5'-P-OP1	-8.35	98.19	105.70
85	5	1634	G	N1-C6-O6	8.35	124.91	119.90
85	5	2514	U	N3-C4-C5	-8.35	109.59	114.60
1	2	391	A	C8-N9-C4	8.35	109.14	105.80
1	2	1619	C	N3-C4-C5	-8.35	118.56	121.90
36	1	806	A	C5-N7-C8	-8.35	99.73	103.90
36	1	1764	U	C5-C4-O4	-8.35	120.89	125.90
36	1	2403	G	C4-C5-C6	8.35	123.81	118.80
80	6	229	U	C5-C6-N1	8.35	126.87	122.70
80	6	1236	A	OP2-P-O3'	8.35	123.56	105.20
85	5	88	A	C8-N9-C4	8.35	109.14	105.80
85	5	342	A	C2-N3-C4	8.35	114.77	110.60
85	5	371	G	C6-N1-C2	8.35	130.11	125.10
85	5	1339	C	C6-N1-C2	-8.35	116.96	120.30
85	5	3375	A	C6-C5-N7	-8.35	126.46	132.30
36	1	1103	A	C5-N7-C8	8.35	108.07	103.90
1	2	1003	A	N1-C6-N6	-8.35	113.59	118.60
36	1	201	A	N7-C8-N9	-8.35	109.63	113.80
36	1	928	C	C4-C5-C6	8.35	121.57	117.40
36	1	2573	G	C5-C6-O6	8.35	133.61	128.60
36	1	1321	G	N3-C2-N2	-8.35	114.06	119.90
85	5	112	U	O5'-P-OP1	-8.35	98.19	105.70
85	5	2913	C	C5-C6-N1	8.35	125.17	121.00
85	5	2959	C	C6-N1-C2	-8.35	116.96	120.30
85	5	2177	G	N3-C2-N2	-8.35	114.06	119.90
85	5	2733	A	C5-N7-C8	8.35	108.07	103.90
37	7	57	G	C4-C5-N7	8.35	114.14	110.80
38	8	103	G	C6-N1-C2	-8.35	120.09	125.10
1	2	307	G	N1-C2-N3	8.34	128.91	123.90
1	2	748	G	N1-C2-N3	-8.34	118.89	123.90
36	1	88	A	C4-C5-C6	8.34	121.17	117.00
36	1	411	U	C5-C6-N1	-8.34	118.53	122.70
38	4	25	G	O5'-P-OP2	-8.34	98.19	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1590	G	N7-C8-N9	8.34	117.27	113.10
85	5	2413	A	C5-C6-N6	-8.34	117.03	123.70
85	5	2753	G	N1-C2-N2	-8.34	108.69	116.20
85	5	3385	U	N3-C4-O4	8.34	125.24	119.40
36	1	2321	A	C2-N3-C4	-8.34	106.43	110.60
37	3	94	C	OP1-P-O3'	8.34	123.56	105.20
85	5	80	G	C5-C6-O6	-8.34	123.59	128.60
85	5	624	G	C8-N9-C4	8.34	109.74	106.40
85	5	759	U	N3-C4-O4	8.34	125.24	119.40
1	2	1148	G	C5-C6-O6	-8.34	123.60	128.60
36	1	2806	U	N3-C4-C5	-8.34	109.60	114.60
85	5	3279	A	C5-C6-N6	8.34	130.37	123.70
36	1	361	A	N1-C6-N6	-8.34	113.60	118.60
36	1	363	G	N3-C4-N9	8.34	131.00	126.00
36	1	1490	A	C5-C6-N1	-8.34	113.53	117.70
85	5	1217	A	N9-C4-C5	8.34	109.14	105.80
85	5	3106	A	C5-N7-C8	-8.34	99.73	103.90
38	8	75	G	N7-C8-N9	8.34	117.27	113.10
36	1	280	U	C5-C6-N1	-8.34	118.53	122.70
85	5	1085	A	O5'-P-OP1	-8.34	98.20	105.70
85	5	2369	G	N3-C4-C5	-8.34	124.43	128.60
36	1	1476	G	C6-N1-C2	-8.34	120.10	125.10
36	1	2418	G	C5-C6-N1	8.34	115.67	111.50
80	6	637	C	N3-C2-O2	-8.34	116.06	121.90
85	5	792	G	N1-C6-O6	8.34	124.90	119.90
85	5	1158	A	C2-N3-C4	-8.34	106.43	110.60
85	5	1665	C	C5-C4-N4	8.34	126.03	120.20
37	7	83	U	N1-C2-O2	-8.34	116.96	122.80
85	5	3377	G	N7-C8-N9	8.34	117.27	113.10
38	8	52	A	C4-C5-C6	8.34	121.17	117.00
38	8	130	C	N3-C4-N4	8.34	123.84	118.00
36	1	816	A	OP2-P-O3'	8.33	123.53	105.20
36	1	1727	G	C5-C6-N1	8.33	115.67	111.50
36	1	1882	G	N3-C2-N2	-8.33	114.07	119.90
38	4	101	U	N3-C2-O2	-8.33	116.37	122.20
80	6	1127	G	N3-C4-C5	8.33	132.77	128.60
80	6	1281	G	C5-C6-O6	-8.33	123.60	128.60
85	5	858	A	N1-C6-N6	8.33	123.60	118.60
85	5	2626	A	C4-C5-N7	-8.33	106.53	110.70
85	5	2717	U	OP2-P-O3'	8.33	123.53	105.20
38	8	129	C	N3-C2-O2	8.33	127.73	121.90
85	5	2830	G	C8-N9-C1'	-8.33	116.17	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	552	G	C8-N9-C4	-8.33	103.07	106.40
36	1	1066	G	C4-C5-C6	8.33	123.80	118.80
80	6	363	G	C2-N3-C4	-8.33	107.73	111.90
80	6	1680	G	C5-C6-O6	-8.33	123.60	128.60
1	2	837	U	N3-C4-O4	8.33	125.23	119.40
1	2	1267	C	C5-C6-N1	-8.33	116.83	121.00
1	2	1486	A	C5-C6-N6	-8.33	117.04	123.70
36	1	873	C	O5'-P-OP2	8.33	120.69	110.70
36	1	1690	C	C5-C6-N1	-8.33	116.83	121.00
36	1	2161	G	C2-N3-C4	8.33	116.06	111.90
36	1	2321	A	N1-C2-N3	8.33	133.47	129.30
36	1	2363	A	C4-C5-N7	-8.33	106.53	110.70
36	1	3071	U	C4-C5-C6	8.33	124.70	119.70
38	4	138	A	C6-C5-N7	-8.33	126.47	132.30
80	6	274	G	OP1-P-OP2	-8.33	107.11	119.60
80	6	762	A	N1-C6-N6	8.33	123.60	118.60
85	5	508	U	C4-C5-C6	8.33	124.70	119.70
85	5	1634	G	OP1-P-OP2	-8.33	107.10	119.60
85	5	1574	C	C5-C4-N4	8.33	126.03	120.20
85	5	1838	G	C5-C6-N1	8.33	115.66	111.50
38	8	34	U	N3-C4-C5	-8.33	109.60	114.60
36	1	2732	G	C5-C6-N1	8.33	115.66	111.50
36	1	3128	G	C6-N1-C2	-8.33	120.10	125.10
38	4	41	A	C6-C5-N7	8.33	138.13	132.30
80	6	9	U	C2-N3-C4	-8.33	122.00	127.00
80	6	113	U	C6-N1-C2	8.33	126.00	121.00
80	6	386	G	C8-N9-C4	-8.33	103.07	106.40
80	6	1455	G	C6-C5-N7	-8.33	125.40	130.40
85	5	373	A	C6-N1-C2	-8.33	113.60	118.60
85	5	428	A	O5'-P-OP2	8.33	120.69	110.70
85	5	1003	A	C5-N7-C8	-8.33	99.74	103.90
85	5	1093	A	N7-C8-N9	-8.33	109.64	113.80
85	5	1546	A	C5-N7-C8	-8.33	99.74	103.90
85	5	1776	G	N3-C2-N2	-8.33	114.07	119.90
85	5	2790	A	C4-C5-C6	8.33	121.16	117.00
85	5	3137	C	N3-C2-O2	8.33	127.73	121.90
36	1	2947	G	C8-N9-C4	8.32	109.73	106.40
1	2	1274	G	N3-C4-C5	8.32	132.76	128.60
36	1	86	G	OP1-P-OP2	-8.32	107.12	119.60
36	1	1165	A	N3-C4-N9	-8.32	120.74	127.40
36	1	1343	A	C8-N9-C4	8.32	109.13	105.80
36	1	1842	A	O5'-P-OP1	-8.32	98.21	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2642	A	N1-C6-N6	-8.32	113.61	118.60
37	3	95	A	O5'-P-OP2	8.32	120.69	110.70
38	4	11	C	C5-C6-N1	8.32	125.16	121.00
85	5	6	A	N7-C8-N9	-8.32	109.64	113.80
85	5	1135	A	C4-C5-C6	8.32	121.16	117.00
85	5	1188	U	N3-C4-O4	8.32	125.23	119.40
85	5	1211	U	C4-C5-C6	-8.32	114.71	119.70
85	5	1660	C	OP1-P-O3'	8.32	123.52	105.20
85	5	1454	A	C5-N7-C8	-8.32	99.74	103.90
85	5	3062	G	N7-C8-N9	8.32	117.26	113.10
1	2	99	C	C5-C6-N1	-8.32	116.84	121.00
1	2	112	A	O5'-P-OP1	-8.32	98.21	105.70
36	1	647	A	N1-C6-N6	-8.32	113.61	118.60
36	1	713	U	N1-C2-O2	-8.32	116.97	122.80
36	1	945	C	N3-C4-N4	8.32	123.83	118.00
36	1	1871	U	N3-C2-O2	-8.32	116.38	122.20
80	6	1783	C	C5-C4-N4	-8.32	114.38	120.20
85	5	433	A	C4-C5-C6	8.32	121.16	117.00
85	5	504	A	N7-C8-N9	8.32	117.96	113.80
85	5	1480	G	C5-C6-N1	-8.32	107.34	111.50
36	1	2614	G	N3-C4-C5	-8.32	124.44	128.60
80	6	399	A	C8-N9-C4	8.32	109.13	105.80
85	5	1374	G	C5-N7-C8	-8.32	100.14	104.30
85	5	1788	C	C6-N1-C2	-8.32	116.97	120.30
85	5	2275	A	C5-C6-N6	-8.32	117.05	123.70
85	5	2747	A	N1-C2-N3	8.32	133.46	129.30
38	8	48	A	N7-C8-N9	8.32	117.96	113.80
36	1	1334	U	N3-C4-O4	8.32	125.22	119.40
36	1	1565	G	C8-N9-C4	-8.32	103.07	106.40
36	1	2165	G	N7-C8-N9	8.32	117.26	113.10
85	5	386	A	C5-C6-N1	-8.32	113.54	117.70
36	1	1474	A	N9-C4-C5	8.32	109.13	105.80
36	1	1914	G	C6-N1-C2	-8.32	120.11	125.10
38	4	8	C	C5-C6-N1	-8.32	116.84	121.00
38	4	133	G	N3-C2-N2	-8.32	114.08	119.90
80	6	407	A	C8-N9-C4	-8.32	102.47	105.80
80	6	1527	C	C6-N1-C2	8.32	123.63	120.30
85	5	1404	G	C8-N9-C4	-8.32	103.07	106.40
85	5	1552	G	C4-C5-N7	8.32	114.13	110.80
85	5	2160	G	N1-C2-N3	8.32	128.89	123.90
85	5	2317	A	C2-N3-C4	8.32	114.76	110.60
37	7	10	C	N1-C2-N3	8.32	125.02	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	88	U	C6-N1-C2	-8.31	116.01	121.00
36	1	277	G	N3-C4-C5	-8.31	124.44	128.60
36	1	344	A	C4-C5-C6	-8.31	112.84	117.00
36	1	672	A	C4-C5-C6	8.31	121.16	117.00
36	1	2288	G	N1-C2-N3	8.31	128.89	123.90
36	1	3365	U	C5-C6-N1	-8.31	118.54	122.70
80	6	127	G	C2-N3-C4	-8.31	107.74	111.90
85	5	2883	U	N1-C2-O2	-8.31	116.98	122.80
36	1	2246	G	N9-C4-C5	8.31	108.72	105.40
36	1	2965	U	C5-C4-O4	-8.31	120.91	125.90
38	4	14	C	C4-C5-C6	-8.31	113.24	117.40
85	5	776	U	N1-C2-N3	8.31	119.89	114.90
85	5	783	A	C5-C6-N1	-8.31	113.54	117.70
85	5	1130	A	OP1-P-OP2	8.31	132.07	119.60
85	5	2878	G	N7-C8-N9	8.31	117.26	113.10
85	5	3197	G	C4-C5-N7	-8.31	107.47	110.80
37	7	92	A	C8-N9-C4	8.31	109.12	105.80
36	1	2642	A	C2-N3-C4	-8.31	106.44	110.60
85	5	582	G	C2-N3-C4	-8.31	107.74	111.90
36	1	154	U	C4-C5-C6	8.31	124.69	119.70
36	1	283	G	C8-N9-C4	-8.31	103.08	106.40
36	1	1843	C	C4-C5-C6	8.31	121.56	117.40
41	L4	118	LYS	CD-CE-NZ	-8.31	92.59	111.70
80	6	50	C	C4-C5-C6	8.31	121.56	117.40
80	6	872	G	C2-N3-C4	-8.31	107.75	111.90
85	5	215	G	N9-C4-C5	8.31	108.72	105.40
85	5	534	U	N1-C2-O2	8.31	128.62	122.80
85	5	1706	C	N1-C2-O2	8.31	123.89	118.90
85	5	2663	G	C8-N9-C4	-8.31	103.08	106.40
1	2	1235	C	N1-C2-O2	8.31	123.89	118.90
85	5	1056	U	N3-C4-O4	-8.31	113.58	119.40
36	1	676	G	N3-C4-N9	8.31	130.98	126.00
36	1	867	G	C5-C6-O6	8.31	133.58	128.60
36	1	1078	U	C5-C4-O4	8.31	130.88	125.90
36	1	1116	G	OP2-P-O3'	8.31	123.47	105.20
36	1	1365	G	N1-C6-O6	-8.31	114.92	119.90
36	1	2154	U	C5-C4-O4	-8.31	120.92	125.90
36	1	3099	C	C5-C4-N4	-8.31	114.38	120.20
85	5	2716	U	C6-N1-C2	-8.31	116.02	121.00
85	5	1413	G	C4-C5-C6	-8.31	113.82	118.80
85	5	1913	A	C6-N1-C2	-8.31	113.62	118.60
36	1	198	A	C2-N3-C4	-8.31	106.45	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	366	A	C5-C6-N1	-8.30	113.55	117.70
36	1	430	U	N1-C2-N3	8.30	119.88	114.90
36	1	2169	G	C5-C6-N1	8.30	115.65	111.50
36	1	2400	G	N9-C4-C5	-8.31	102.08	105.40
36	1	2807	U	C5-C6-N1	8.31	126.85	122.70
80	6	396	G	C5-C6-N1	-8.31	107.35	111.50
80	6	1115	U	O5'-P-OP1	8.31	120.67	110.70
85	5	1116	G	N1-C2-N2	-8.31	108.72	116.20
85	5	2820	A	C8-N9-C4	-8.31	102.48	105.80
85	5	3020	U	N3-C4-C5	-8.31	109.62	114.60
85	5	3124	G	O5'-P-OP1	8.31	120.67	110.70
36	1	242	C	N1-C2-O2	8.30	123.88	118.90
36	1	640	U	N3-C4-C5	-8.30	109.62	114.60
36	1	967	A	C5-N7-C8	-8.30	99.75	103.90
36	1	1313	G	C5-C6-O6	-8.30	123.62	128.60
36	1	1607	U	O5'-P-OP2	-8.30	98.22	105.70
38	8	52	A	OP1-P-O3'	8.31	123.47	105.20
38	4	89	A	C8-N9-C4	8.30	109.12	105.80
80	6	322	G	C5-N7-C8	-8.30	100.15	104.30
85	5	2259	A	C2-N3-C4	-8.30	106.45	110.60
80	6	483	A	C6-N1-C2	8.30	123.58	118.60
80	6	1006	C	C5-C6-N1	-8.30	116.85	121.00
80	6	1296	A	C8-N9-C4	8.30	109.12	105.80
85	5	412	G	C4-C5-C6	8.30	123.78	118.80
85	5	978	G	C5-C6-O6	8.30	133.58	128.60
78	q2	8	ARG	NE-CZ-NH1	8.30	124.45	120.30
36	1	685	G	O5'-P-OP1	8.30	120.66	110.70
36	1	1473	G	C6-C5-N7	-8.30	125.42	130.40
36	1	2363	A	OP2-P-O3'	8.30	123.46	105.20
80	6	1100	G	N3-C4-N9	8.30	130.98	126.00
85	5	632	G	N3-C2-N2	-8.30	114.09	119.90
85	5	1698	C	N3-C2-O2	8.30	127.71	121.90
85	5	1700	G	N1-C2-N3	8.30	128.88	123.90
85	5	3048	A	C8-N9-C4	-8.30	102.48	105.80
85	5	2906	C	N3-C2-O2	8.30	127.71	121.90
1	2	145	A	N1-C6-N6	-8.30	113.62	118.60
36	1	1113	G	N3-C2-N2	-8.30	114.09	119.90
36	1	2167	A	O5'-P-OP2	-8.30	98.23	105.70
85	5	3000	A	C4-C5-N7	8.30	114.85	110.70
36	1	744	A	N7-C8-N9	-8.30	109.65	113.80
36	1	1199	C	C4-C5-C6	8.30	121.55	117.40
36	1	2928	C	N3-C4-C5	-8.30	118.58	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3361	G	C5-C6-O6	8.30	133.58	128.60
85	5	941	G	OP1-P-O3'	8.30	123.45	105.20
85	5	1389	G	N7-C8-N9	-8.30	108.95	113.10
85	5	2634	U	N1-C2-N3	8.30	119.88	114.90
37	7	78	U	C6-N1-C2	-8.30	116.02	121.00
85	5	1336	U	OP1-P-OP2	-8.30	107.15	119.60
36	1	387	A	C6-N1-C2	-8.30	113.62	118.60
36	1	637	C	C4-C5-C6	-8.30	113.25	117.40
38	4	101	U	C6-N1-C2	-8.30	116.02	121.00
1	2	414	C	C4-C5-C6	-8.29	113.25	117.40
36	1	589	A	N1-C6-N6	-8.29	113.62	118.60
36	1	2350	C	N1-C2-N3	8.29	125.01	119.20
80	6	338	C	N1-C2-O2	-8.30	113.92	118.90
37	7	17	A	O5'-P-OP2	-8.30	98.23	105.70
36	1	3282	U	C5-C6-N1	8.29	126.85	122.70
80	6	1418	G	N3-C2-N2	-8.29	114.09	119.90
85	5	69	C	N1-C2-O2	-8.29	113.92	118.90
85	5	400	G	C5-C6-O6	-8.29	123.62	128.60
85	5	1087	G	C5-N7-C8	-8.30	100.15	104.30
85	5	1325	U	N1-C2-O2	-8.29	116.99	122.80
85	5	1397	C	N1-C2-N3	8.29	125.01	119.20
85	5	2937	G	C8-N9-C4	-8.29	103.08	106.40
85	5	3317	U	C5-C4-O4	8.29	130.88	125.90
36	1	750	G	C5-C6-N1	-8.29	107.35	111.50
1	2	110	U	N1-C2-O2	8.29	128.60	122.80
1	2	632	U	C6-N1-C2	8.29	125.97	121.00
36	1	1926	C	C5-C6-N1	-8.29	116.85	121.00
36	1	148	G	C2-N3-C4	8.29	116.05	111.90
36	1	801	A	C2-N3-C4	-8.29	106.45	110.60
36	1	1294	A	C6-N1-C2	-8.29	113.62	118.60
36	1	1510	G	C6-C5-N7	-8.29	125.42	130.40
36	1	2376	G	C5-C6-N1	8.29	115.65	111.50
80	6	1674	C	N1-C2-O2	-8.29	113.92	118.90
85	5	2862	U	C2-N3-C4	-8.29	122.02	127.00
36	1	1616	U	C5-C4-O4	8.29	130.88	125.90
36	1	1853	U	N1-C2-N3	8.29	119.88	114.90
36	1	3038	U	N3-C2-O2	8.29	128.00	122.20
36	1	3217	C	N3-C2-O2	-8.29	116.10	121.90
80	6	1002	G	C5-N7-C8	-8.29	100.15	104.30
85	5	784	A	O5'-P-OP1	-8.29	98.24	105.70
85	5	981	U	OP1-P-OP2	8.29	132.04	119.60
85	5	1502	C	O5'-P-OP2	8.29	120.65	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2404	A	C2-N3-C4	8.29	114.75	110.60
36	1	1534	A	C5-C6-N1	8.29	121.84	117.70
85	5	382	U	C6-N1-C2	-8.29	116.03	121.00
1	2	1137	G	C4-C5-N7	8.29	114.11	110.80
1	2	1299	G	N3-C4-C5	-8.29	124.46	128.60
36	1	616	G	C6-N1-C2	-8.29	120.13	125.10
36	1	1013	G	C8-N9-C4	-8.29	103.08	106.40
36	1	2779	A	C2-N3-C4	-8.29	106.46	110.60
36	1	3248	C	C6-N1-C2	-8.29	116.98	120.30
85	5	1195	A	C8-N9-C4	-8.29	102.48	105.80
85	5	1735	G	C2-N3-C4	-8.29	107.75	111.90
37	3	87	G	OP2-P-O3'	8.29	123.44	105.20
85	5	2816	G	C6-C5-N7	-8.29	125.43	130.40
38	8	108	C	N3-C2-O2	-8.29	116.10	121.90
38	4	42	G	C5-C6-O6	8.29	133.57	128.60
80	6	1294	G	C5-C6-O6	-8.29	123.63	128.60
85	5	33	G	N1-C6-O6	-8.29	114.93	119.90
85	5	428	A	OP2-P-O3'	8.29	123.43	105.20
85	5	705	A	C6-N1-C2	-8.29	113.63	118.60
85	5	958	C	N1-C2-N3	8.29	125.00	119.20
85	5	2177	G	N3-C4-N9	-8.29	121.03	126.00
36	1	809	G	O5'-P-OP1	8.29	120.64	110.70
36	1	993	G	C2-N3-C4	8.29	116.04	111.90
36	1	1076	C	C5-C6-N1	-8.29	116.86	121.00
36	1	1472	U	C5-C4-O4	8.29	130.87	125.90
36	1	1181	U	O5'-P-OP2	-8.28	98.24	105.70
36	1	1483	G	N1-C2-N3	8.29	128.87	123.90
36	1	2899	C	C6-N1-C2	8.28	123.61	120.30
36	1	3012	A	C2-N3-C4	8.28	114.74	110.60
80	6	1042	G	N7-C8-N9	8.29	117.24	113.10
80	6	1372	U	C5-C6-N1	-8.28	118.56	122.70
80	6	1668	G	N1-C6-O6	-8.29	114.93	119.90
85	5	344	A	N1-C6-N6	-8.29	113.63	118.60
85	5	695	C	C2-N1-C1'	8.28	127.91	118.80
85	5	903	U	N3-C2-O2	-8.29	116.40	122.20
85	5	1410	U	N1-C2-N3	8.28	119.87	114.90
85	5	1892	G	N3-C2-N2	-8.28	114.10	119.90
85	5	3158	G	N9-C4-C5	8.28	108.71	105.40
38	8	90	U	N3-C4-O4	8.28	125.20	119.40
36	1	632	G	C6-C5-N7	-8.28	125.43	130.40
36	1	934	G	C6-C5-N7	-8.28	125.43	130.40
1	2	337	G	N1-C6-O6	8.28	124.87	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	105	A	O5'-P-OP1	-8.28	98.25	105.70
38	4	124	G	C6-C5-N7	-8.28	125.43	130.40
80	6	1638	G	C2-N3-C4	-8.28	107.76	111.90
85	5	59	G	N1-C6-O6	8.28	124.87	119.90
85	5	1076	C	C5-C4-N4	8.28	126.00	120.20
85	5	2617	U	N1-C2-N3	8.28	119.87	114.90
85	5	2626	A	N1-C6-N6	-8.28	113.63	118.60
85	5	2984	C	C5-C6-N1	-8.28	116.86	121.00
85	5	3050	U	OP1-P-OP2	-8.28	107.18	119.60
37	7	17	A	N7-C8-N9	-8.28	109.66	113.80
1	2	275	C	C5-C6-N1	8.28	125.14	121.00
1	2	1633	U	C2-N3-C4	-8.28	122.03	127.00
36	1	151	A	C4-C5-N7	8.28	114.84	110.70
36	1	392	G	C5-N7-C8	-8.28	100.16	104.30
36	1	1210	U	C5-C4-O4	8.28	130.87	125.90
36	1	2760	C	C4-C5-C6	-8.28	113.26	117.40
37	7	111	U	C4-C5-C6	8.28	124.67	119.70
36	1	516	A	N1-C2-N3	8.28	133.44	129.30
36	1	1418	A	C4-C5-N7	8.28	114.84	110.70
36	1	3102	G	C4-C5-C6	8.28	123.77	118.80
37	3	111	U	N1-C2-N3	8.28	119.87	114.90
71	O5	17	LEU	CB-CG-CD2	-8.28	96.93	111.00
85	5	209	A	C8-N9-C4	8.28	109.11	105.80
85	5	2413	A	O5'-P-OP2	-8.28	98.25	105.70
85	5	1168	U	OP1-P-OP2	-8.28	107.18	119.60
85	5	1207	G	C5-C6-N1	8.28	115.64	111.50
85	5	2137	U	N3-C2-O2	-8.28	116.41	122.20
39	12	227	ARG	NE-CZ-NH2	-8.28	116.16	120.30
1	2	1034	G	N1-C6-O6	8.28	124.87	119.90
41	L4	202	ARG	NE-CZ-NH2	-8.28	116.16	120.30
1	2	58	U	N3-C2-O2	8.28	127.99	122.20
36	1	1031	C	N3-C2-O2	8.28	127.69	121.90
80	6	625	C	N3-C2-O2	8.28	127.69	121.90
80	6	1145	U	N3-C4-C5	-8.28	109.64	114.60
85	5	353	G	OP1-P-OP2	8.28	132.01	119.60
85	5	1672	U	N3-C2-O2	8.28	127.99	122.20
85	5	3321	C	C5-C6-N1	-8.28	116.86	121.00
85	5	3340	G	C2-N3-C4	8.28	116.04	111.90
1	2	639	U	N3-C2-O2	-8.27	116.41	122.20
36	1	941	G	N3-C4-C5	-8.27	124.46	128.60
36	1	983	A	C6-N1-C2	-8.27	113.64	118.60
36	1	1555	U	C4-C5-C6	8.27	124.66	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	295	A	C6-N1-C2	-8.27	113.64	118.60
80	6	1123	C	N1-C2-O2	-8.27	113.94	118.90
85	5	98	G	N1-C2-N2	-8.27	108.75	116.20
85	5	349	A	C6-N1-C2	-8.27	113.64	118.60
85	5	1601	U	C5-C6-N1	8.27	126.84	122.70
85	5	2282	U	N3-C2-O2	-8.27	116.41	122.20
1	2	420	A	N9-C4-C5	8.27	109.11	105.80
1	2	606	A	N3-C4-C5	8.27	132.59	126.80
36	1	954	U	N3-C4-C5	-8.27	109.64	114.60
37	3	5	G	C4-C5-N7	-8.27	107.49	110.80
80	6	404	G	C4-C5-N7	-8.27	107.49	110.80
85	5	782	U	OP1-P-OP2	-8.27	107.19	119.60
85	5	1416	C	N3-C4-N4	8.27	123.79	118.00
85	5	1670	C	O5'-P-OP1	-8.27	98.26	105.70
85	5	2345	A	C2-N3-C4	-8.27	106.46	110.60
85	5	2741	C	N3-C4-C5	-8.27	118.59	121.90
1	2	964	U	N1-C2-N3	8.27	119.86	114.90
1	2	1765	A	C2-N3-C4	-8.27	106.47	110.60
36	1	47	C	C6-N1-C2	8.27	123.61	120.30
36	1	88	A	C6-N1-C2	-8.27	113.64	118.60
36	1	318	A	N1-C6-N6	-8.27	113.64	118.60
85	5	788	C	O5'-P-OP1	-8.27	98.26	105.70
85	5	1735	G	C5-C6-N1	-8.27	107.36	111.50
36	1	547	G	C5-C6-O6	-8.27	123.64	128.60
36	1	582	G	O5'-P-OP1	8.27	120.62	110.70
36	1	1680	G	N7-C8-N9	-8.27	108.97	113.10
36	1	2399	A	C8-N9-C4	-8.27	102.49	105.80
36	1	2550	U	C4-C5-C6	8.27	124.66	119.70
80	6	377	G	N1-C2-N3	8.27	128.86	123.90
80	6	942	G	N3-C2-N2	-8.27	114.11	119.90
80	6	1672	G	C8-N9-C1'	8.27	137.75	127.00
85	5	878	G	C6-C5-N7	-8.27	125.44	130.40
85	5	1347	U	O5'-P-OP1	8.27	120.62	110.70
85	5	2685	C	C4-C5-C6	-8.27	113.27	117.40
38	8	149	A	N1-C6-N6	-8.27	113.64	118.60
36	1	333	G	N1-C6-O6	8.27	124.86	119.90
36	1	394	G	C5-C6-O6	8.27	133.56	128.60
36	1	817	A	C5-C6-N1	8.27	121.83	117.70
36	1	1219	C	N1-C2-O2	8.27	123.86	118.90
36	1	1483	G	N1-C6-O6	-8.27	114.94	119.90
36	1	2315	G	N1-C6-O6	-8.27	114.94	119.90
36	1	2621	G	N7-C8-N9	8.27	117.23	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	23	U	C5-C6-N1	-8.27	118.57	122.70
36	1	2315	G	C4-C5-N7	-8.27	107.49	110.80
36	1	2890	A	OP1-P-OP2	-8.27	107.20	119.60
36	1	3086	A	OP1-P-OP2	-8.27	107.20	119.60
36	1	3224	G	N1-C6-O6	8.27	124.86	119.90
38	4	41	A	OP2-P-O3'	8.27	123.39	105.20
80	6	518	A	OP1-P-OP2	8.27	132.00	119.60
80	6	818	C	N3-C2-O2	8.27	127.69	121.90
85	5	628	A	C5-C6-N6	8.27	130.31	123.70
85	5	391	A	N7-C8-N9	-8.27	109.67	113.80
85	5	638	C	C2-N1-C1'	8.27	127.89	118.80
85	5	787	G	N3-C2-N2	-8.27	114.11	119.90
85	5	801	A	N1-C6-N6	-8.27	113.64	118.60
85	5	1885	U	C5-C4-O4	8.27	130.86	125.90
85	5	2176	U	C2-N3-C4	-8.27	122.04	127.00
85	5	3249	C	N3-C4-N4	8.27	123.79	118.00
37	7	26	C	N3-C4-C5	-8.27	118.59	121.90
1	2	28	A	C8-N9-C4	8.26	109.11	105.80
36	1	175	C	C6-N1-C2	8.26	123.61	120.30
36	1	1443	G	C6-C5-N7	-8.26	125.44	130.40
85	5	954	U	N1-C2-O2	8.26	128.59	122.80
36	1	3232	G	N9-C4-C5	8.26	108.70	105.40
36	1	3386	G	OP1-P-OP2	8.26	131.99	119.60
78	Q2	8	ARG	NE-CZ-NH2	-8.26	116.17	120.30
80	6	1775	U	O5'-P-OP1	8.26	120.61	110.70
85	5	946	U	N1-C2-O2	-8.26	117.02	122.80
85	5	1070	U	C2-N3-C4	-8.26	122.04	127.00
85	5	1378	U	OP2-P-O3'	8.26	123.38	105.20
85	5	2995	A	C5-C6-N6	8.26	130.31	123.70
36	1	1736	G	C6-N1-C2	-8.26	120.14	125.10
36	1	2241	U	N3-C2-O2	8.26	127.98	122.20
1	2	305	C	N3-C4-N4	8.26	123.78	118.00
36	1	2425	G	N1-C2-N3	8.26	128.85	123.90
36	1	2933	A	C4-C5-N7	8.26	114.83	110.70
36	1	3053	G	N1-C2-N2	-8.26	108.77	116.20
38	4	64	U	OP2-P-O3'	8.26	123.37	105.20
80	6	1688	U	C5-C4-O4	8.26	130.86	125.90
85	5	1127	G	C4-C5-N7	-8.26	107.50	110.80
85	5	1707	A	C8-N9-C4	-8.26	102.50	105.80
85	5	2391	G	C4-C5-N7	-8.26	107.50	110.80
85	5	2705	A	C4-C5-N7	8.26	114.83	110.70
85	5	2728	G	N3-C2-N2	8.26	125.68	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	880	C	N3-C4-C5	-8.26	118.60	121.90
1	2	1068	G	C5-C6-O6	-8.26	123.65	128.60
1	2	1097	G	N9-C4-C5	-8.26	102.10	105.40
36	1	211	A	C6-N1-C2	-8.26	113.65	118.60
85	5	2689	A	OP1-P-OP2	-8.26	107.21	119.60
1	2	1578	U	C4-C5-C6	8.26	124.65	119.70
36	1	296	A	C8-N9-C4	-8.26	102.50	105.80
36	1	379	C	C5-C6-N1	-8.26	116.87	121.00
36	1	580	C	C5-C6-N1	8.26	125.13	121.00
36	1	1697	A	N1-C2-N3	8.26	133.43	129.30
80	6	576	G	C6-C5-N7	-8.26	125.45	130.40
85	5	2357	A	N1-C6-N6	-8.26	113.65	118.60
36	1	2738	A	C5-C6-N1	8.26	121.83	117.70
80	6	154	G	N3-C4-C5	-8.26	124.47	128.60
80	6	1000	C	N3-C2-O2	-8.26	116.12	121.90
85	5	100	A	P-O3'-C3'	-8.26	109.79	119.70
85	5	282	G	C5-N7-C8	-8.26	100.17	104.30
85	5	1215	U	C5-C6-N1	8.26	126.83	122.70
85	5	1721	U	C5-C6-N1	8.26	126.83	122.70
85	5	1884	A	N1-C6-N6	8.26	123.55	118.60
85	5	2801	A	N1-C6-N6	-8.26	113.65	118.60
1	2	63	G	C2-N3-C4	-8.25	107.77	111.90
1	2	508	U	N3-C4-O4	8.25	125.18	119.40
1	2	572	C	N3-C4-N4	8.25	123.78	118.00
1	2	1101	G	C4-C5-C6	8.25	123.75	118.80
1	2	1440	C	C6-N1-C2	-8.25	117.00	120.30
1	2	1627	C	N1-C2-O2	8.25	123.85	118.90
1	2	1760	G	C5-C6-O6	-8.25	123.65	128.60
36	1	2380	U	N3-C4-C5	8.25	119.55	114.60
80	6	1041	G	N7-C8-N9	8.25	117.23	113.10
85	5	1115	G	N1-C2-N2	-8.25	108.77	116.20
85	5	1463	U	C2-N3-C4	8.25	131.95	127.00
36	1	651	G	C5-C6-N1	8.25	115.63	111.50
36	1	2964	G	N1-C2-N2	-8.25	108.77	116.20
80	6	557	G	N7-C8-N9	-8.25	108.97	113.10
85	5	971	G	N9-C4-C5	-8.25	102.10	105.40
85	5	2950	G	C4-N9-C1'	8.25	137.23	126.50
85	5	3279	A	N1-C6-N6	-8.25	113.65	118.60
1	2	254	A	N1-C6-N6	8.25	123.55	118.60
36	1	297	G	C5-C6-O6	-8.25	123.65	128.60
36	1	726	G	C5-C6-N1	8.25	115.63	111.50
36	1	1199	C	C2-N3-C4	-8.25	115.78	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2203	U	O5'-P-OP1	-8.25	98.28	105.70
36	1	2713	U	C6-N1-C2	8.25	125.95	121.00
85	5	1835	A	C5-C6-N1	-8.25	113.57	117.70
85	5	2732	G	N3-C4-N9	-8.25	121.05	126.00
37	7	39	C	C6-N1-C2	-8.25	117.00	120.30
80	6	1032	G	N7-C8-N9	-8.25	108.98	113.10
85	5	68	C	OP1-P-OP2	-8.25	107.22	119.60
85	5	578	A	N1-C6-N6	8.25	123.55	118.60
85	5	812	G	C5-C6-O6	8.25	133.55	128.60
85	5	2105	G	C5-N7-C8	-8.25	100.17	104.30
85	5	2129	U	N3-C4-O4	-8.25	113.63	119.40
85	5	2724	U	O5'-P-OP1	8.25	120.60	110.70
1	2	22	A	C5-C6-N6	-8.25	117.10	123.70
1	2	413	U	C2-N3-C4	-8.25	122.05	127.00
36	1	917	A	C4-C5-C6	-8.25	112.88	117.00
36	1	2189	U	C5-C6-N1	8.25	126.82	122.70
85	5	1436	U	OP1-P-O3'	8.25	123.35	105.20
85	5	1829	G	C6-C5-N7	-8.25	125.45	130.40
85	5	3255	U	N3-C2-O2	8.25	127.97	122.20
1	2	430	G	C5-C6-O6	8.25	133.55	128.60
36	1	1423	C	C4-C5-C6	8.25	121.52	117.40
36	1	1796	G	C8-N9-C4	-8.25	103.10	106.40
38	4	79	A	C4-C5-N7	-8.25	106.58	110.70
85	5	503	C	N1-C2-O2	-8.25	113.95	118.90
85	5	576	C	N1-C2-O2	-8.25	113.95	118.90
85	5	3287	U	C5-C6-N1	8.25	126.82	122.70
1	2	1102	G	N1-C6-O6	-8.24	114.95	119.90
36	1	564	G	N3-C4-C5	-8.24	124.48	128.60
36	1	806	A	O4'-C1'-N9	-8.24	101.60	108.20
36	1	2280	A	C5-C6-N1	8.24	121.82	117.70
36	1	2698	G	C5-C6-N1	8.24	115.62	111.50
80	6	549	G	N1-C2-N2	8.24	123.62	116.20
36	1	12	A	C6-N1-C2	-8.24	113.66	118.60
36	1	2119	A	N9-C4-C5	-8.24	102.50	105.80
80	6	1082	C	N3-C4-C5	-8.24	118.60	121.90
85	5	174	C	C2-N3-C4	-8.24	115.78	119.90
85	5	236	G	N3-C2-N2	-8.24	114.13	119.90
85	5	415	G	C5-C6-N1	8.24	115.62	111.50
85	5	1664	G	C8-N9-C4	8.24	109.70	106.40
85	5	1447	G	N1-C2-N2	-8.24	108.78	116.20
85	5	3050	U	C2-N1-C1'	8.24	127.59	117.70
85	5	3308	C	N3-C4-N4	8.24	123.77	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	63	G	C5-C6-O6	8.24	133.54	128.60
38	8	100	U	N3-C4-O4	8.24	125.17	119.40
36	1	388	G	N1-C6-O6	8.24	124.84	119.90
36	1	686	G	OP1-P-O3'	-8.24	87.07	105.20
36	1	1097	G	N1-C2-N3	-8.24	118.96	123.90
36	1	2798	C	N3-C4-N4	8.24	123.77	118.00
36	1	2992	U	C5-C4-O4	8.24	130.84	125.90
85	5	1067	U	N3-C2-O2	8.24	127.97	122.20
85	5	2826	U	C5-C6-N1	-8.24	118.58	122.70
1	2	1063	U	N3-C4-O4	-8.24	113.63	119.40
1	2	1073	C	C2-N3-C4	8.24	124.02	119.90
36	1	685	G	OP2-P-O3'	8.24	123.33	105.20
36	1	751	A	C2-N3-C4	-8.24	106.48	110.60
36	1	762	U	O5'-P-OP1	-8.24	98.28	105.70
36	1	793	C	C5-C4-N4	-8.24	114.43	120.20
36	1	2978	U	N1-C2-O2	8.24	128.57	122.80
80	6	371	G	C8-N9-C4	-8.24	103.10	106.40
85	5	776	U	N3-C2-O2	-8.24	116.43	122.20
85	5	1151	U	N3-C4-C5	-8.24	109.66	114.60
1	2	98	U	N3-C2-O2	8.24	127.97	122.20
1	2	1756	C	N1-C2-O2	-8.24	113.96	118.90
36	1	77	A	C4-C5-C6	8.24	121.12	117.00
36	1	436	A	C6-C5-N7	-8.24	126.53	132.30
36	1	934	G	N9-C4-C5	8.24	108.69	105.40
36	1	2288	G	N3-C4-C5	-8.24	124.48	128.60
36	1	2964	G	O5'-P-OP2	-8.24	98.29	105.70
85	5	658	G	N1-C2-N3	8.24	128.84	123.90
85	5	2617	U	N3-C4-O4	8.24	125.17	119.40
80	6	1074	G	N1-C6-O6	8.24	124.84	119.90
85	5	763	G	C2-N3-C4	-8.24	107.78	111.90
85	5	3098	G	N1-C2-N2	8.24	123.61	116.20
85	5	3137	C	N1-C2-O2	-8.24	113.96	118.90
1	2	1127	U	N1-C2-N3	8.23	119.84	114.90
1	2	1547	U	N3-C2-O2	8.23	127.96	122.20
36	1	341	G	O5'-P-OP1	8.23	120.58	110.70
36	1	523	A	C5-N7-C8	8.23	108.02	103.90
36	1	574	U	N1-C2-N3	8.23	119.84	114.90
36	1	780	A	N9-C4-C5	8.23	109.09	105.80
36	1	1357	G	C4-C5-C6	8.23	123.74	118.80
36	1	1702	U	C6-N1-C2	-8.23	116.06	121.00
36	1	2704	A	C8-N9-C4	-8.23	102.51	105.80
36	1	2865	U	N3-C4-O4	8.23	125.16	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	791	A	C2-N3-C4	-8.23	106.48	110.60
80	6	964	U	C5-C6-N1	-8.23	118.58	122.70
85	5	2551	U	N1-C2-O2	8.23	128.56	122.80
85	5	2697	A	C8-N9-C4	-8.23	102.51	105.80
85	5	2920	U	N3-C4-O4	8.23	125.16	119.40
85	5	3272	C	O4'-C1'-N1	-8.23	101.61	108.20
1	2	590	C	N3-C2-O2	-8.23	116.14	121.90
36	1	364	G	N3-C4-C5	8.23	132.72	128.60
36	1	925	A	C4-C5-C6	8.23	121.11	117.00
36	1	1185	C	C5-C6-N1	-8.23	116.88	121.00
36	1	1327	C	N1-C2-O2	-8.23	113.96	118.90
36	1	1617	G	C8-N9-C4	8.23	109.69	106.40
36	1	2601	A	C4-C5-N7	-8.23	106.58	110.70
36	1	2932	U	N3-C4-O4	-8.23	113.64	119.40
37	3	58	C	O5'-P-OP2	-8.23	98.29	105.70
38	4	56	G	N1-C2-N2	-8.23	108.79	116.20
85	5	1011	A	C8-N9-C4	-8.23	102.51	105.80
85	5	1412	G	N1-C6-O6	8.23	124.84	119.90
85	5	1920	U	N1-C2-O2	-8.23	117.04	122.80
80	6	1109	G	N3-C4-C5	8.23	132.72	128.60
85	5	83	U	N3-C4-C5	-8.23	109.66	114.60
85	5	708	G	N1-C6-O6	8.23	124.84	119.90
85	5	2359	C	O5'-P-OP2	-8.23	98.29	105.70
1	2	563	U	N1-C2-N3	8.23	119.84	114.90
1	2	1419	A	O5'-P-OP2	-8.23	98.30	105.70
36	1	651	G	C5-C6-O6	8.23	133.54	128.60
80	6	280	U	N3-C4-C5	8.23	119.54	114.60
1	2	1516	C	N3-C4-C5	-8.23	118.61	121.90
36	1	2679	A	N1-C6-N6	8.23	123.54	118.60
36	1	2867	C	C6-N1-C2	-8.23	117.01	120.30
80	6	1013	A	N7-C8-N9	8.23	117.91	113.80
85	5	297	G	N1-C6-O6	-8.23	114.96	119.90
85	5	1101	G	C5-N7-C8	8.23	108.41	104.30
85	5	1407	A	O5'-P-OP1	8.23	120.58	110.70
85	5	1586	G	N1-C2-N2	-8.23	108.80	116.20
85	5	2130	G	C2-N3-C4	-8.23	107.79	111.90
85	5	2844	C	C5-C6-N1	8.23	125.11	121.00
85	5	3111	U	N3-C2-O2	8.23	127.96	122.20
85	5	3243	A	C2-N3-C4	-8.23	106.49	110.60
85	5	689	U	N3-C4-O4	-8.23	113.64	119.40
85	5	1454	A	C5-C6-N6	-8.23	117.12	123.70
85	5	2374	C	N1-C2-N3	8.23	124.96	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2657	A	N1-C6-N6	-8.23	113.67	118.60
1	2	1274	G	N1-C6-O6	8.22	124.83	119.90
1	2	195	G	C4-C5-N7	-8.22	107.51	110.80
36	1	65	A	O5'-P-OP2	-8.22	98.30	105.70
36	1	2707	C	N1-C2-O2	-8.22	113.97	118.90
80	6	41	A	C5-C6-N1	8.22	121.81	117.70
80	6	115	G	N3-C2-N2	-8.22	114.14	119.90
85	5	2242	A	C8-N9-C4	8.22	109.09	105.80
85	5	2641	U	N1-C2-N3	-8.22	109.97	114.90
85	5	2948	C	C4-C5-C6	-8.22	113.29	117.40
1	2	1188	C	N1-C2-O2	-8.22	113.97	118.90
36	1	1318	A	C4-C5-C6	8.22	121.11	117.00
36	1	2352	A	O5'-P-OP2	-8.22	98.30	105.70
36	1	3277	U	C5-C6-N1	8.22	126.81	122.70
80	6	1777	G	N1-C2-N3	8.22	128.83	123.90
85	5	118	U	C4-C5-C6	8.22	124.63	119.70
85	5	940	G	N1-C6-O6	-8.22	114.97	119.90
85	5	3325	G	C5-C6-N1	-8.22	107.39	111.50
85	5	55	G	O5'-P-OP1	8.22	120.56	110.70
85	5	1080	A	O5'-P-OP1	8.22	120.56	110.70
85	5	1102	A	C5-C6-N6	8.22	130.28	123.70
85	5	2751	G	N3-C4-N9	-8.22	121.07	126.00
85	5	2777	G	C6-C5-N7	-8.22	125.47	130.40
85	5	680	G	N3-C2-N2	8.22	125.65	119.90
80	6	176	C	N1-C2-O2	-8.22	113.97	118.90
80	6	941	A	N9-C4-C5	8.22	109.09	105.80
85	5	631	U	C4-C5-C6	8.22	124.63	119.70
85	5	1395	G	C5-C6-O6	-8.22	123.67	128.60
85	5	1787	A	O5'-P-OP1	-8.22	98.30	105.70
85	5	2363	A	C5-C6-N6	-8.22	117.13	123.70
85	5	2942	C	C5-C6-N1	8.22	125.11	121.00
85	5	3312	U	N1-C2-O2	-8.22	117.05	122.80
37	7	81	U	O5'-P-OP1	8.22	120.56	110.70
37	7	119	U	C5-C6-N1	-8.22	118.59	122.70
1	2	1537	U	N3-C2-O2	-8.21	116.45	122.20
36	1	202	G	O5'-P-OP1	8.22	120.56	110.70
36	1	578	A	C5-C6-N6	-8.21	117.13	123.70
36	1	1000	C	N3-C2-O2	8.22	127.65	121.90
36	1	1299	U	O5'-P-OP2	-8.21	98.31	105.70
36	1	2797	C	N1-C2-O2	-8.21	113.97	118.90
80	6	624	G	C2-N3-C4	-8.22	107.79	111.90
85	5	152	U	C5-C4-O4	8.22	130.83	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	c1	136	ARG	NE-CZ-NH1	-8.21	116.19	120.30
85	5	1509	A	N1-C6-N6	-8.21	113.67	118.60
85	5	2240	G	N3-C2-N2	8.21	125.65	119.90
85	5	2415	C	N1-C2-N3	8.21	124.95	119.20
85	5	2890	A	C8-N9-C4	-8.21	102.51	105.80
85	5	3273	A	N7-C8-N9	8.21	117.91	113.80
85	5	3346	U	C5-C6-N1	-8.21	118.59	122.70
36	1	1154	A	C8-N9-C4	-8.21	102.52	105.80
36	1	2810	C	C6-N1-C2	8.21	123.58	120.30
80	6	410	A	C8-N9-C4	-8.21	102.52	105.80
1	2	596	C	O5'-P-OP2	8.21	120.55	110.70
1	2	1755	C	C5-C6-N1	-8.21	116.89	121.00
85	5	1912	U	OP1-P-OP2	-8.21	107.28	119.60
36	1	249	U	C6-N1-C2	-8.21	116.07	121.00
36	1	2403	G	N1-C6-O6	8.21	124.83	119.90
36	1	2405	C	C5-C4-N4	-8.21	114.45	120.20
37	3	54	U	O5'-P-OP2	8.21	120.55	110.70
38	4	63	G	C5-N7-C8	-8.21	100.19	104.30
80	6	389	G	C8-N9-C4	-8.21	103.12	106.40
85	5	136	G	N7-C8-N9	8.21	117.20	113.10
85	5	1147	G	N1-C6-O6	-8.21	114.97	119.90
85	5	205	C	C5-C4-N4	-8.21	114.45	120.20
85	5	205	C	C2-N3-C4	-8.21	115.80	119.90
85	5	427	C	N1-C2-O2	-8.21	113.97	118.90
85	5	818	C	N3-C2-O2	8.21	127.65	121.90
85	5	1340	G	N1-C6-O6	-8.21	114.97	119.90
85	5	2271	A	N7-C8-N9	-8.21	109.69	113.80
85	5	2915	U	C5-C6-N1	-8.21	118.59	122.70
40	l3	275	ARG	NE-CZ-NH1	-8.21	116.19	120.30
85	5	3127	A	C2-N3-C4	8.21	114.70	110.60
1	2	6	G	OP1-P-OP2	-8.21	107.29	119.60
36	1	1200	A	C4-C5-C6	8.21	121.10	117.00
36	1	2150	G	N3-C2-N2	-8.21	114.15	119.90
36	1	2267	C	N1-C2-O2	-8.21	113.97	118.90
85	5	76	G	C2-N3-C4	-8.21	107.80	111.90
85	5	2806	U	N3-C2-O2	8.21	127.95	122.20
85	5	3161	C	N3-C4-N4	8.21	123.75	118.00
85	5	3277	U	C5-C6-N1	8.21	126.80	122.70
1	2	10	G	C5-C6-O6	8.21	133.52	128.60
36	1	1861	G	C2-N3-C4	8.21	116.00	111.90
36	1	3123	A	O5'-P-OP2	8.21	120.55	110.70
80	6	789	A	N9-C4-C5	8.21	109.08	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1757	G	C8-N9-C1'	-8.21	116.33	127.00
85	5	373	A	C8-N9-C4	8.21	109.08	105.80
85	5	958	C	C2-N3-C4	-8.21	115.80	119.90
85	5	1484	U	C5-C6-N1	-8.21	118.60	122.70
85	5	2962	U	O5'-P-OP1	8.21	120.55	110.70
85	5	3099	C	N1-C2-N3	-8.21	113.45	119.20
38	8	14	C	N1-C2-O2	-8.21	113.98	118.90
1	2	489	C	C6-N1-C2	-8.21	117.02	120.30
1	2	1130	A	C6-C5-N7	-8.21	126.56	132.30
36	1	2781	U	O5'-P-OP2	-8.21	98.31	105.70
36	1	82	C	C6-N1-C2	8.20	123.58	120.30
36	1	689	U	N3-C2-O2	-8.20	116.46	122.20
36	1	2622	C	C5-C4-N4	8.21	125.94	120.20
80	6	1151	A	N7-C8-N9	8.21	117.90	113.80
85	5	509	U	N3-C2-O2	-8.21	116.46	122.20
85	5	1490	A	N7-C8-N9	8.21	117.90	113.80
38	8	32	C	C4-C5-C6	-8.21	113.30	117.40
85	5	1590	G	C4-C5-N7	8.20	114.08	110.80
85	5	2415	C	N3-C4-C5	8.20	125.18	121.90
85	5	2780	A	N1-C2-N3	8.20	133.40	129.30
85	5	3054	U	N3-C4-C5	-8.20	109.68	114.60
85	5	3158	G	C8-N9-C4	-8.20	103.12	106.40
1	2	129	U	N3-C4-C5	-8.20	109.68	114.60
36	1	226	C	C5-C6-N1	8.20	125.10	121.00
1	2	325	G	C8-N9-C4	-8.20	103.12	106.40
1	2	416	A	N1-C2-N3	-8.20	125.20	129.30
36	1	2375	G	N1-C2-N3	8.20	128.82	123.90
36	1	297	G	N1-C6-O6	8.20	124.82	119.90
36	1	552	G	N7-C8-N9	8.20	117.20	113.10
36	1	828	A	C5-N7-C8	-8.20	99.80	103.90
36	1	1426	C	C2-N1-C1'	8.20	127.82	118.80
36	1	1756	C	O5'-P-OP1	-8.20	98.32	105.70
36	1	2443	A	C4-C5-N7	8.20	114.80	110.70
36	1	3249	C	N1-C2-O2	8.20	123.82	118.90
80	6	165	G	C2-N3-C4	-8.20	107.80	111.90
80	6	1355	C	C6-N1-C2	-8.20	117.02	120.30
80	6	1403	C	N3-C4-C5	-8.20	118.62	121.90
85	5	258	G	C6-C5-N7	-8.20	125.48	130.40
85	5	591	G	C5-C6-O6	-8.20	123.68	128.60
85	5	1608	C	N1-C2-N3	-8.20	113.46	119.20
85	5	646	A	OP1-P-OP2	-8.20	107.30	119.60
85	5	894	G	N3-C4-C5	8.20	132.70	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1739	U	C4-C5-C6	8.20	124.62	119.70
36	1	1132	C	N1-C2-O2	-8.20	113.98	118.90
36	1	1618	G	N9-C4-C5	8.20	108.68	105.40
1	2	1728	G	N3-C2-N2	8.20	125.64	119.90
36	1	338	A	C4-C5-C6	8.20	121.10	117.00
36	1	895	A	O5'-P-OP1	-8.20	98.32	105.70
36	1	1151	U	N3-C4-O4	8.20	125.14	119.40
36	1	1359	C	C2-N1-C1'	-8.20	109.78	118.80
38	4	76	C	C6-N1-C2	8.20	123.58	120.30
80	6	1014	G	N9-C4-C5	8.20	108.68	105.40
36	1	2525	G	N1-C2-N3	8.20	128.82	123.90
36	1	2997	G	N7-C8-N9	8.20	117.20	113.10
37	3	90	U	O5'-P-OP1	8.20	120.54	110.70
38	4	103	G	N3-C2-N2	8.20	125.64	119.90
80	6	302	U	N3-C4-C5	-8.20	109.68	114.60
80	6	1280	C	C2-N3-C4	8.20	124.00	119.90
85	5	693	A	O5'-P-OP2	8.20	120.54	110.70
85	5	908	G	C6-C5-N7	-8.20	125.48	130.40
85	5	1905	G	N1-C6-O6	8.20	124.82	119.90
85	5	2187	G	C5-C6-N1	-8.20	107.40	111.50
85	5	2875	U	N3-C4-C5	-8.20	109.68	114.60
85	5	3107	U	C2-N3-C4	-8.20	122.08	127.00
37	7	57	G	C5-C6-O6	-8.20	123.68	128.60
85	5	907	G	N9-C4-C5	-8.20	102.12	105.40
85	5	3016	A	C6-C5-N7	-8.20	126.56	132.30
1	2	347	G	C8-N9-C4	-8.19	103.12	106.40
1	2	1094	G	N7-C8-N9	-8.20	109.00	113.10
80	6	174	U	C5-C4-O4	-8.20	120.98	125.90
80	6	1585	U	N3-C4-C5	8.20	119.52	114.60
38	8	28	C	O5'-P-OP2	-8.20	98.32	105.70
1	2	1283	A	N1-C2-N3	8.19	133.40	129.30
36	1	57	A	C6-C5-N7	-8.19	126.56	132.30
36	1	57	A	OP1-P-OP2	-8.20	107.31	119.60
36	1	676	G	N3-C2-N2	8.20	125.64	119.90
36	1	1380	G	N3-C4-C5	8.20	132.70	128.60
36	1	2099	A	N1-C2-N3	8.19	133.40	129.30
37	7	81	U	C4-C5-C6	8.20	124.62	119.70
36	1	81	C	OP1-P-OP2	8.19	131.89	119.60
36	1	984	G	C6-C5-N7	-8.19	125.48	130.40
36	1	2757	U	N3-C4-C5	-8.19	109.68	114.60
36	1	2881	C	C4-C5-C6	8.19	121.50	117.40
36	1	1302	A	C8-N9-C4	8.19	109.08	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1363	A	O5'-P-OP2	-8.19	98.33	105.70
80	6	709	C	N3-C4-N4	8.19	123.73	118.00
80	6	726	C	N3-C4-C5	-8.19	118.62	121.90
80	6	1034	C	C4-C5-C6	-8.19	113.31	117.40
85	5	826	G	OP1-P-OP2	-8.19	107.31	119.60
85	5	1101	G	N7-C8-N9	-8.19	109.00	113.10
85	5	1704	A	C2-N3-C4	-8.19	106.50	110.60
85	5	2716	U	C4-C5-C6	8.19	124.61	119.70
1	2	1541	U	N3-C4-O4	-8.19	113.67	119.40
1	2	1548	C	C6-N1-C2	-8.19	117.02	120.30
80	6	534	A	C6-N1-C2	-8.19	113.69	118.60
85	5	2411	U	C4-C5-C6	8.19	124.61	119.70
85	5	3292	A	C5-C6-N6	-8.19	117.15	123.70
36	1	2440	G	C5-C6-O6	8.19	133.51	128.60
36	1	3241	G	N3-C2-N2	-8.19	114.17	119.90
85	5	711	A	N1-C2-N3	8.19	133.39	129.30
85	5	774	G	C6-N1-C2	8.19	130.01	125.10
85	5	1005	G	C6-C5-N7	-8.19	125.49	130.40
85	5	1703	U	O5'-P-OP1	-8.19	98.33	105.70
38	8	109	A	C5-C6-N1	8.19	121.80	117.70
1	2	172	C	C6-N1-C2	8.19	123.58	120.30
36	1	114	A	C5-N7-C8	-8.19	99.81	103.90
36	1	1434	G	C6-C5-N7	-8.19	125.49	130.40
85	5	945	C	N3-C2-O2	-8.19	116.17	121.90
36	1	2381	G	N9-C4-C5	8.19	108.67	105.40
85	5	584	G	C5-N7-C8	8.19	108.39	104.30
85	5	1689	U	OP1-P-OP2	-8.19	107.32	119.60
85	5	2637	A	N1-C6-N6	-8.19	113.69	118.60
1	2	304	U	N1-C2-O2	-8.18	117.07	122.80
36	1	406	G	N7-C8-N9	8.18	117.19	113.10
36	1	552	G	C6-C5-N7	-8.18	125.49	130.40
36	1	917	A	N1-C6-N6	-8.18	113.69	118.60
36	1	1233	G	N1-C6-O6	-8.18	114.99	119.90
36	1	2876	C	C6-N1-C2	-8.18	117.03	120.30
85	5	639	G	N1-C2-N3	8.18	128.81	123.90
36	1	2880	U	C5-C6-N1	-8.18	118.61	122.70
37	3	99	G	C2-N3-C4	-8.18	107.81	111.90
85	5	2603	G	C6-N1-C2	8.18	130.01	125.10
85	5	2699	G	N9-C4-C5	-8.18	102.13	105.40
36	1	659	G	C5-N7-C8	-8.18	100.21	104.30
80	6	1681	A	O5'-P-OP1	-8.18	98.34	105.70
1	2	1728	G	N3-C4-N9	8.18	130.91	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1134	G	C4-C5-N7	-8.18	107.53	110.80
36	1	1850	A	C5-N7-C8	-8.18	99.81	103.90
36	1	2244	A	C5-N7-C8	8.18	107.99	103.90
36	1	2731	U	OP2-P-O3'	8.18	123.20	105.20
85	5	2374	C	N3-C2-O2	-8.18	116.17	121.90
85	5	3327	G	N7-C8-N9	8.18	117.19	113.10
36	1	1009	A	N1-C2-N3	8.18	133.39	129.30
36	1	1470	U	C2-N3-C4	-8.18	122.09	127.00
36	1	3201	C	C6-N1-C2	-8.18	117.03	120.30
85	5	283	G	N9-C4-C5	-8.18	102.13	105.40
85	5	798	G	N1-C2-N3	8.18	128.81	123.90
85	5	2175	U	N3-C2-O2	-8.18	116.47	122.20
85	5	2655	U	N3-C2-O2	-8.18	116.47	122.20
85	5	3008	A	N3-C4-N9	-8.18	120.86	127.40
85	5	946	U	N3-C4-O4	8.18	125.12	119.40
85	5	2209	U	C5-C4-O4	8.18	130.81	125.90
85	5	2735	U	C2-N3-C4	8.18	131.91	127.00
85	5	2814	G	C5-C6-N1	-8.18	107.41	111.50
85	5	2974	U	C5-C6-N1	-8.18	118.61	122.70
85	5	3065	G	N3-C2-N2	-8.18	114.17	119.90
37	7	85	G	C2-N3-C4	-8.18	107.81	111.90
38	8	95	G	C6-N1-C2	-8.18	120.19	125.10
1	2	1316	C	C5-C6-N1	8.18	125.09	121.00
36	1	109	A	C8-N9-C4	-8.18	102.53	105.80
36	1	517	G	OP1-P-OP2	-8.18	107.33	119.60
36	1	1683	A	C5-N7-C8	-8.18	99.81	103.90
36	1	3239	G	N3-C4-N9	-8.18	121.09	126.00
80	6	1537	C	N3-C4-N4	8.18	123.72	118.00
38	4	125	U	N1-C2-N3	-8.18	110.00	114.90
80	6	455	C	N3-C4-N4	8.18	123.72	118.00
80	6	1781	A	C6-C5-N7	-8.18	126.58	132.30
85	5	619	A	N1-C6-N6	8.18	123.50	118.60
85	5	634	C	N3-C2-O2	-8.18	116.18	121.90
85	5	1205	A	OP2-P-O3'	8.18	123.19	105.20
85	5	1206	G	N3-C4-C5	-8.18	124.51	128.60
85	5	1879	A	N1-C2-N3	8.18	133.39	129.30
85	5	2435	G	C4-C5-N7	8.18	114.07	110.80
37	7	18	C	C5-C6-N1	-8.18	116.91	121.00
1	2	1468	C	C5-C6-N1	-8.17	116.91	121.00
36	1	3281	U	O5'-P-OP2	-8.17	98.34	105.70
85	5	886	C	N3-C4-N4	8.17	123.72	118.00
36	1	38	U	C4-C5-C6	-8.17	114.80	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1592	G	N1-C6-O6	8.17	124.80	119.90
36	1	1839	A	C8-N9-C4	-8.17	102.53	105.80
80	6	778	G	O5'-P-OP2	-8.17	98.34	105.70
85	5	26	A	N7-C8-N9	-8.17	109.71	113.80
85	5	996	A	C6-N1-C2	-8.17	113.70	118.60
85	5	1304	A	OP1-P-OP2	8.17	131.86	119.60
85	5	1443	G	N7-C8-N9	8.17	117.19	113.10
85	5	1530	U	C4-C5-C6	-8.17	114.80	119.70
85	5	1612	A	C4-C5-C6	8.17	121.09	117.00
1	2	47	A	N9-C4-C5	8.17	109.07	105.80
1	2	364	G	N3-C4-C5	-8.17	124.51	128.60
1	2	942	U	N1-C2-O2	8.17	128.52	122.80
1	2	1538	A	C8-N9-C4	-8.17	102.53	105.80
36	1	1104	G	C5-N7-C8	-8.17	100.21	104.30
36	1	512	U	N1-C2-N3	8.17	119.80	114.90
36	1	1199	C	N1-C2-N3	8.17	124.92	119.20
80	6	93	A	N7-C8-N9	-8.17	109.72	113.80
80	6	650	U	C5-C6-N1	8.17	126.78	122.70
85	5	1156	C	N3-C4-N4	8.17	123.72	118.00
85	5	1947	G	C8-N9-C4	8.17	109.67	106.40
85	5	2163	C	N3-C2-O2	-8.17	116.18	121.90
85	5	2507	C	N1-C2-N3	-8.17	113.48	119.20
85	5	2533	G	C5-C6-O6	-8.17	123.70	128.60
85	5	2848	G	N1-C2-N3	8.17	128.80	123.90
85	5	2980	U	C6-N1-C2	-8.17	116.10	121.00
85	5	3008	A	C5-C6-N1	-8.17	113.61	117.70
85	5	3238	G	C6-N1-C2	8.17	130.00	125.10
36	1	3008	A	C2-N3-C4	-8.17	106.52	110.60
80	6	551	G	N1-C6-O6	8.17	124.80	119.90
1	2	1653	G	N1-C2-N3	8.17	128.80	123.90
36	1	730	C	C5-C4-N4	-8.17	114.48	120.20
36	1	1331	U	C4-C5-C6	8.17	124.60	119.70
36	1	1406	A	O5'-P-OP2	8.17	120.50	110.70
80	6	312	A	C8-N9-C4	-8.17	102.53	105.80
80	6	334	G	N1-C6-O6	-8.17	115.00	119.90
80	6	1664	C	N3-C2-O2	8.17	127.62	121.90
85	5	948	C	O5'-P-OP2	-8.17	98.35	105.70
85	5	2170	U	N1-C2-O2	-8.17	117.08	122.80
85	5	3073	A	C5-C6-N1	8.17	121.78	117.70
37	7	1	G	C6-C5-N7	-8.17	125.50	130.40
37	7	79	A	C6-C5-N7	-8.17	126.58	132.30
1	2	10	G	C6-C5-N7	8.16	135.30	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	393	U	N3-C4-C5	-8.16	109.70	114.60
36	1	2211	U	N3-C4-C5	-8.16	109.70	114.60
85	5	2180	G	C8-N9-C4	8.16	109.67	106.40
85	5	2296	A	C8-N9-C4	8.16	109.06	105.80
1	2	771	A	C2-N3-C4	8.16	114.68	110.60
36	1	355	A	N1-C2-N3	8.16	133.38	129.30
36	1	2105	G	C5-C6-O6	-8.16	123.70	128.60
36	1	3109	G	N3-C2-N2	8.16	125.61	119.90
38	4	105	A	OP1-P-OP2	8.16	131.85	119.60
80	6	524	U	O5'-P-OP2	-8.16	98.35	105.70
85	5	23	A	N1-C6-N6	8.16	123.50	118.60
85	5	250	U	C5-C6-N1	8.16	126.78	122.70
36	1	511	G	C4-C5-N7	-8.16	107.53	110.80
36	1	1825	G	C5-C6-O6	-8.16	123.70	128.60
36	1	2223	A	N1-C6-N6	8.16	123.50	118.60
36	1	2552	C	C5-C4-N4	8.16	125.91	120.20
36	1	2822	U	O5'-P-OP1	-8.16	98.35	105.70
80	6	92	A	C5-C6-N1	-8.16	113.62	117.70
36	1	3052	G	N1-C6-O6	8.16	124.80	119.90
36	1	3056	U	N3-C4-C5	-8.16	109.70	114.60
80	6	1641	C	C5-C6-N1	8.16	125.08	121.00
85	5	715	A	C8-N9-C4	-8.16	102.53	105.80
85	5	2810	C	C5-C6-N1	8.16	125.08	121.00
85	5	808	A	N7-C8-N9	8.16	117.88	113.80
85	5	1047	A	N7-C8-N9	8.16	117.88	113.80
85	5	2851	A	C2-N3-C4	-8.16	106.52	110.60
1	2	1128	U	C6-N1-C2	-8.16	116.10	121.00
36	1	800	G	C4-C5-N7	8.16	114.06	110.80
36	1	1142	G	C6-N1-C2	-8.16	120.20	125.10
36	1	1562	C	C6-N1-C2	8.16	123.56	120.30
85	5	589	A	C6-C5-N7	-8.16	126.59	132.30
85	5	2125	A	N7-C8-N9	8.16	117.88	113.80
36	1	1670	C	C5-C6-N1	-8.16	116.92	121.00
36	1	3029	A	C8-N9-C4	-8.16	102.54	105.80
37	3	64	A	N1-C6-N6	-8.16	113.70	118.60
85	5	59	G	N7-C8-N9	8.16	117.18	113.10
80	6	279	G	C6-N1-C2	8.16	130.00	125.10
80	6	1065	A	C4-C5-N7	8.16	114.78	110.70
85	5	779	G	C4-C5-N7	8.16	114.06	110.80
85	5	1406	A	C5-N7-C8	-8.16	99.82	103.90
85	5	1488	G	OP1-P-OP2	-8.16	107.36	119.60
85	5	1551	C	N1-C2-N3	8.16	124.91	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3018	C	C5-C4-N4	-8.16	114.49	120.20
85	5	3130	A	N9-C4-C5	8.16	109.06	105.80
36	1	989	A	C6-N1-C2	8.16	123.49	118.60
36	1	1323	G	C8-N9-C4	8.16	109.66	106.40
36	1	1833	G	N7-C8-N9	-8.16	109.02	113.10
36	1	2853	A	OP1-P-OP2	8.16	131.84	119.60
36	1	2862	U	C2-N3-C4	-8.16	122.11	127.00
36	1	2877	G	N1-C6-O6	-8.16	115.01	119.90
80	6	801	G	C5-C6-N1	8.16	115.58	111.50
80	6	1498	G	C5-C6-O6	-8.16	123.71	128.60
80	6	1785	U	OP1-P-OP2	8.16	131.84	119.60
85	5	956	U	C6-N1-C2	8.16	125.89	121.00
85	5	1179	A	N9-C4-C5	8.16	109.06	105.80
85	5	1226	G	N1-C2-N3	8.16	128.79	123.90
85	5	1611	G	N1-C2-N2	-8.16	108.86	116.20
85	5	2703	A	C6-N1-C2	-8.16	113.71	118.60
1	2	1647	C	C5-C6-N1	8.15	125.08	121.00
36	1	294	U	C6-N1-C2	-8.15	116.11	121.00
36	1	378	A	C2-N3-C4	-8.15	106.52	110.60
36	1	1543	G	O5'-P-OP2	-8.15	98.36	105.70
36	1	1583	A	O5'-P-OP1	8.15	120.49	110.70
80	6	576	G	C8-N9-C4	-8.15	103.14	106.40
85	5	419	G	C8-N9-C4	8.15	109.66	106.40
36	1	609	G	N1-C6-O6	8.15	124.79	119.90
36	1	1372	C	O5'-P-OP1	-8.15	98.36	105.70
36	1	1677	G	N1-C2-N3	8.15	128.79	123.90
36	1	1832	C	C2-N3-C4	8.15	123.98	119.90
36	1	2683	U	N3-C4-C5	-8.15	109.71	114.60
36	1	3201	C	N1-C2-N3	8.15	124.91	119.20
36	1	3358	U	N3-C4-C5	8.15	119.49	114.60
80	6	1104	U	N1-C2-O2	-8.15	117.09	122.80
80	6	1207	C	N3-C4-C5	-8.15	118.64	121.90
85	5	79	U	N3-C4-O4	-8.15	113.69	119.40
85	5	257	U	N3-C2-O2	-8.15	116.49	122.20
85	5	3012	A	O5'-P-OP2	8.15	120.49	110.70
85	5	378	A	C8-N9-C4	8.15	109.06	105.80
85	5	986	U	N3-C4-O4	-8.15	113.69	119.40
85	5	1108	U	N1-C2-O2	-8.15	117.09	122.80
85	5	1330	A	N3-C4-C5	-8.15	121.09	126.80
85	5	1780	G	C6-N1-C2	-8.15	120.21	125.10
85	5	3381	U	N1-C2-O2	-8.15	117.09	122.80
1	2	172	C	O5'-P-OP1	8.15	120.48	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	955	G	C5-N7-C8	-8.15	100.22	104.30
1	2	1327	A	N9-C4-C5	-8.15	102.54	105.80
36	1	12	A	N1-C2-N3	8.15	133.38	129.30
36	1	1115	G	C5-N7-C8	-8.15	100.22	104.30
36	1	2886	U	N3-C2-O2	8.15	127.91	122.20
85	5	666	A	OP2-P-O3'	8.15	123.13	105.20
85	5	1885	U	C4-C5-C6	8.15	124.59	119.70
1	2	1768	U	N1-C2-N3	8.15	119.79	114.90
36	1	3072	C	C5-C4-N4	8.15	125.91	120.20
80	6	824	G	C4-C5-N7	8.15	114.06	110.80
85	5	822	G	N1-C2-N3	8.15	128.79	123.90
85	5	2421	U	C4-C5-C6	8.15	124.59	119.70
1	2	316	A	C5-C6-N1	8.15	121.77	117.70
36	1	52	A	N1-C6-N6	-8.15	113.71	118.60
36	1	336	A	C5-C6-N1	8.15	121.78	117.70
36	1	1490	A	N1-C2-N3	8.15	133.38	129.30
1	2	325	G	C2-N3-C4	-8.15	107.83	111.90
1	2	1467	G	N1-C6-O6	-8.15	115.01	119.90
36	1	2956	A	C5-C6-N1	8.15	121.77	117.70
38	4	117	C	O5'-P-OP1	8.15	120.48	110.70
85	5	747	A	C6-N1-C2	-8.15	113.71	118.60
85	5	2742	C	N3-C4-N4	-8.15	112.30	118.00
36	1	801	A	C6-C5-N7	-8.15	126.60	132.30
36	1	1919	G	C5-N7-C8	-8.15	100.23	104.30
37	3	74	C	C6-N1-C2	8.15	123.56	120.30
85	5	1095	U	C4-C5-C6	8.15	124.59	119.70
85	5	1701	C	OP1-P-OP2	-8.15	107.38	119.60
85	5	1830	G	O5'-P-OP1	8.15	120.48	110.70
80	6	1034	C	N3-C4-C5	8.15	125.16	121.90
80	6	1109	G	C8-N9-C1'	8.15	137.59	127.00
80	6	1725	U	N3-C4-O4	8.15	125.10	119.40
80	6	1735	U	C5-C4-O4	8.15	130.79	125.90
85	5	1246	G	C5-C6-O6	-8.15	123.71	128.60
85	5	1499	C	C5-C6-N1	8.15	125.07	121.00
85	5	2724	U	C2-N1-C1'	8.15	127.48	117.70
85	5	2784	G	C2-N3-C4	-8.15	107.83	111.90
85	5	2958	A	N9-C4-C5	8.15	109.06	105.80
37	7	20	A	O5'-P-OP2	8.15	120.48	110.70
36	1	899	U	N3-C2-O2	-8.14	116.50	122.20
36	1	1400	G	O5'-P-OP2	-8.14	98.37	105.70
36	1	1851	G	C2-N3-C4	-8.14	107.83	111.90
36	1	2241	U	N3-C4-O4	8.14	125.10	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2404	A	N1-C6-N6	-8.14	113.71	118.60
38	4	36	G	C2-N3-C4	-8.14	107.83	111.90
80	6	558	U	C5-C6-N1	8.14	126.77	122.70
80	6	789	A	N7-C8-N9	8.14	117.87	113.80
80	6	919	A	C8-N9-C4	-8.14	102.54	105.80
80	6	1340	U	N1-C2-O2	8.14	128.50	122.80
80	6	1468	U	N3-C4-O4	8.14	125.10	119.40
85	5	441	U	C2-N3-C4	-8.14	122.11	127.00
85	5	657	A	N9-C4-C5	-8.14	102.54	105.80
85	5	724	U	C6-N1-C2	-8.14	116.11	121.00
85	5	1153	A	C4-C5-N7	-8.14	106.63	110.70
85	5	1913	A	C5-N7-C8	-8.14	99.83	103.90
85	5	1945	A	C8-N9-C4	-8.14	102.54	105.80
85	5	2256	A	OP1-P-OP2	8.14	131.82	119.60
37	7	4	U	N1-C2-N3	8.14	119.79	114.90
85	5	2603	G	N1-C6-O6	8.14	124.79	119.90
85	5	2948	C	N3-C4-C5	8.14	125.16	121.90
47	m0	24	ARG	NE-CZ-NH2	-8.14	116.23	120.30
1	2	887	G	C5-N7-C8	8.14	108.37	104.30
36	1	802	C	C4-C5-C6	8.14	121.47	117.40
1	2	891	U	C5-C4-O4	8.14	130.78	125.90
36	1	809	G	C5-C6-N1	-8.14	107.43	111.50
36	1	1487	G	C8-N9-C4	-8.14	103.14	106.40
36	1	1793	C	O5'-P-OP1	-8.14	98.37	105.70
36	1	2124	G	C5-C6-O6	-8.14	123.72	128.60
36	1	2174	G	N7-C8-N9	8.14	117.17	113.10
36	1	2365	C	C5-C4-N4	-8.14	114.50	120.20
38	4	53	A	C6-N1-C2	-8.14	113.72	118.60
80	6	1007	C	C6-N1-C2	-8.14	117.04	120.30
85	5	1510	G	N3-C2-N2	-8.14	114.20	119.90
80	6	1622	G	C5-C6-N1	-8.14	107.43	111.50
85	5	75	G	C5-C6-N1	-8.14	107.43	111.50
85	5	412	G	C5-C6-N1	-8.14	107.43	111.50
85	5	2733	A	C4-C5-N7	-8.14	106.63	110.70
85	5	2748	A	C8-N9-C4	8.14	109.06	105.80
1	2	976	A	N1-C2-N3	8.14	133.37	129.30
36	1	238	A	O5'-P-OP2	-8.14	98.37	105.70
36	1	649	A	C4-C5-N7	8.14	114.77	110.70
36	1	1794	G	C8-N9-C4	-8.14	103.14	106.40
1	2	1486	A	C5-N7-C8	-8.14	99.83	103.90
36	1	636	C	N3-C4-C5	8.14	125.16	121.90
36	1	1592	G	C4-C5-C6	8.14	123.68	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1673	G	C6-C5-N7	-8.14	125.52	130.40
36	1	3148	U	N3-C4-O4	8.14	125.10	119.40
37	3	49	G	C2-N3-C4	8.14	115.97	111.90
80	6	795	U	N3-C2-O2	-8.14	116.50	122.20
85	5	1101	G	C4-C5-N7	-8.14	107.55	110.80
85	5	1264	G	C5-N7-C8	8.14	108.37	104.30
36	1	809	G	OP1-P-O3'	8.14	123.10	105.20
36	1	1380	G	N7-C8-N9	-8.14	109.03	113.10
85	5	2590	A	C5-N7-C8	-8.14	99.83	103.90
85	5	2904	U	N1-C2-O2	8.14	128.50	122.80
1	2	508	U	N3-C4-C5	-8.13	109.72	114.60
36	1	2953	U	OP1-P-OP2	-8.13	107.40	119.60
36	1	3200	G	N1-C2-N3	8.13	128.78	123.90
85	5	3179	U	N3-C4-O4	8.14	125.09	119.40
37	7	115	G	C5-N7-C8	-8.14	100.23	104.30
23	d1	71	ARG	NE-CZ-NH2	-8.13	116.23	120.30
85	5	588	G	C6-C5-N7	8.13	135.28	130.40
85	5	1903	U	C2-N3-C4	8.13	131.88	127.00
85	5	3046	A	C6-N1-C2	-8.13	113.72	118.60
1	2	1628	G	C6-N1-C2	-8.13	120.22	125.10
1	2	1729	A	C5-C6-N1	8.13	121.77	117.70
36	1	876	A	O5'-P-OP2	-8.13	98.38	105.70
85	5	1239	C	N1-C2-O2	8.13	123.78	118.90
1	2	328	A	C2-N3-C4	-8.13	106.53	110.60
1	2	1010	A	C2-N3-C4	-8.13	106.53	110.60
1	2	1262	C	C2-N3-C4	8.13	123.97	119.90
36	1	989	A	N1-C2-N3	-8.13	125.23	129.30
36	1	1002	A	N9-C4-C5	-8.13	102.55	105.80
36	1	1356	U	N3-C4-O4	-8.13	113.71	119.40
36	1	2283	G	C8-N9-C4	-8.13	103.15	106.40
36	1	2890	A	C4-C5-C6	8.13	121.07	117.00
85	5	1194	G	N3-C4-C5	-8.13	124.53	128.60
85	5	1256	G	N7-C8-N9	-8.13	109.03	113.10
36	1	1768	U	O5'-P-OP2	-8.13	98.38	105.70
38	4	113	U	C2-N1-C1'	-8.13	107.94	117.70
80	6	634	G	C5-C6-N1	8.13	115.56	111.50
85	5	798	G	O5'-P-OP1	8.13	120.46	110.70
85	5	1892	G	N1-C6-O6	8.13	124.78	119.90
85	5	2110	G	N3-C4-C5	8.13	132.67	128.60
85	5	2114	C	C5-C6-N1	8.13	125.07	121.00
85	5	3121	U	O5'-P-OP1	-8.13	98.38	105.70
38	8	52	A	N9-C4-C5	8.13	109.05	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1567	G	N1-C6-O6	-8.13	115.02	119.90
1	2	887	G	C8-N9-C4	8.13	109.65	106.40
36	1	139	G	O5'-P-OP1	8.13	120.45	110.70
36	1	211	A	C2-N3-C4	-8.13	106.54	110.60
36	1	358	G	C6-N1-C2	-8.13	120.22	125.10
36	1	588	G	C6-N1-C2	-8.13	120.22	125.10
36	1	1623	G	N1-C2-N3	8.13	128.78	123.90
38	4	28	C	OP1-P-OP2	-8.13	107.41	119.60
80	6	1565	C	C6-N1-C2	8.13	123.55	120.30
85	5	1193	A	C5-C6-N1	-8.13	113.64	117.70
85	5	1377	G	C5-N7-C8	-8.13	100.24	104.30
85	5	3135	U	OP1-P-OP2	-8.13	107.41	119.60
1	2	254	A	N3-C4-C5	8.13	132.49	126.80
1	2	607	G	C5-C6-O6	-8.12	123.72	128.60
36	1	1165	A	C4-C5-C6	8.13	121.06	117.00
36	1	1417	G	N7-C8-N9	-8.12	109.04	113.10
36	1	1821	U	N1-C2-O2	-8.12	117.11	122.80
36	1	2202	C	N3-C4-N4	8.13	123.69	118.00
36	1	2592	G	C8-N9-C4	8.12	109.65	106.40
80	6	273	G	C6-C5-N7	-8.13	125.53	130.40
80	6	579	A	N1-C2-N3	-8.12	125.24	129.30
80	6	1150	G	O5'-P-OP1	8.12	120.45	110.70
85	5	330	G	N1-C6-O6	8.12	124.78	119.90
85	5	1083	G	OP1-P-OP2	8.13	131.79	119.60
85	5	2238	G	N1-C2-N3	8.13	128.78	123.90
85	5	967	A	C6-N1-C2	-8.12	113.73	118.60
85	5	1079	A	C2-N3-C4	-8.12	106.54	110.60
85	5	1261	G	C4-C5-N7	8.12	114.05	110.80
85	5	1413	G	N3-C4-N9	-8.12	121.12	126.00
85	5	3123	A	OP1-P-OP2	-8.13	107.41	119.60
85	5	1489	A	N7-C8-N9	8.12	117.86	113.80
85	5	2773	C	O5'-P-OP2	8.12	120.45	110.70
85	5	3394	U	N1-C2-O2	-8.12	117.11	122.80
1	2	390	G	N1-C6-O6	8.12	124.77	119.90
36	1	140	C	C5-C4-N4	-8.12	114.51	120.20
36	1	611	A	C5-C6-N1	-8.12	113.64	117.70
36	1	2231	C	C5-C4-N4	-8.12	114.51	120.20
36	1	3066	U	N3-C4-C5	-8.12	109.73	114.60
80	6	340	U	N3-C2-O2	8.12	127.89	122.20
85	5	3116	G	N1-C6-O6	-8.12	115.03	119.90
36	1	2247	G	N3-C2-N2	-8.12	114.22	119.90
36	1	2501	U	O5'-P-OP2	-8.12	98.39	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2812	C	O5'-P-OP1	-8.12	98.39	105.70
80	6	35	U	C5-C6-N1	-8.12	118.64	122.70
80	6	798	C	C2-N3-C4	8.12	123.96	119.90
85	5	1044	U	N3-C4-O4	8.12	125.09	119.40
85	5	1255	C	O5'-P-OP1	-8.12	98.39	105.70
85	5	3318	G	O5'-P-OP1	-8.12	98.39	105.70
36	1	2931	C	N3-C4-N4	8.12	123.69	118.00
85	5	1091	A	C2-N3-C4	-8.12	106.54	110.60
85	5	2329	C	N3-C4-C5	-8.12	118.65	121.90
1	2	976	A	C2-N3-C4	-8.12	106.54	110.60
1	2	1628	G	C8-N9-C4	-8.12	103.15	106.40
36	1	426	G	N3-C4-N9	8.12	130.87	126.00
85	5	1866	C	C5-C6-N1	8.12	125.06	121.00
85	5	2179	C	C6-N1-C2	-8.12	117.05	120.30
36	1	227	G	C5-C6-N1	-8.12	107.44	111.50
36	1	1862	U	N3-C2-O2	-8.12	116.52	122.20
36	1	2738	A	C5-C6-N6	-8.12	117.20	123.70
36	1	3186	A	C8-N9-C4	-8.12	102.55	105.80
36	1	3301	U	N1-C2-N3	8.12	119.77	114.90
38	4	60	U	C6-N1-C2	8.12	125.87	121.00
85	5	1137	C	N1-C2-N3	8.12	124.88	119.20
85	5	1833	G	C2-N3-C4	8.12	115.96	111.90
36	1	2556	C	N3-C4-C5	8.12	125.15	121.90
36	1	2876	C	C5-C6-N1	8.12	125.06	121.00
80	6	1519	U	N3-C2-O2	-8.12	116.52	122.20
85	5	523	A	C2-N3-C4	-8.12	106.54	110.60
85	5	1453	A	C8-N9-C4	8.12	109.05	105.80
85	5	2179	C	OP1-P-OP2	-8.12	107.42	119.60
85	5	3218	A	O5'-P-OP1	8.12	120.44	110.70
38	8	111	A	N9-C4-C5	8.12	109.05	105.80
59	n3	57	MET	CG-SD-CE	8.12	113.19	100.20
37	3	5	G	C5-C6-O6	8.12	133.47	128.60
1	2	686	G	N9-C4-C5	8.11	108.65	105.40
1	2	1135	A	N1-C6-N6	8.12	123.47	118.60
36	1	92	G	N1-C2-N3	8.12	128.77	123.90
1	2	1440	C	C2-N3-C4	8.11	123.96	119.90
1	2	1707	U	N1-C2-N3	-8.11	110.03	114.90
36	1	109	A	C5-C6-N1	8.12	121.76	117.70
36	1	1404	G	C2-N3-C4	-8.11	107.84	111.90
36	1	2682	C	O5'-P-OP2	-8.12	98.40	105.70
80	6	1477	G	C2-N3-C4	-8.12	107.84	111.90
85	5	371	G	N3-C4-C5	8.11	132.66	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	835	G	O5'-P-OP2	-8.12	98.40	105.70
85	5	870	G	C4-C5-N7	8.11	114.05	110.80
85	5	1336	U	N1-C2-N3	8.11	119.77	114.90
85	5	1604	G	C5-N7-C8	8.12	108.36	104.30
85	5	1802	C	N3-C4-C5	8.12	125.15	121.90
85	5	2638	C	C5-C6-N1	8.11	125.06	121.00
85	5	2755	C	N3-C2-O2	-8.12	116.22	121.90
85	5	3153	U	C5-C4-O4	-8.12	121.03	125.90
85	5	3105	U	C2-N3-C4	-8.11	122.13	127.00
85	5	3215	A	C6-C5-N7	-8.11	126.62	132.30
85	5	3366	G	C5-C6-N1	8.11	115.56	111.50
1	2	73	U	N3-C4-C5	8.11	119.47	114.60
80	6	754	A	N1-C6-N6	8.11	123.47	118.60
36	1	264	G	N3-C2-N2	-8.11	114.22	119.90
36	1	586	C	O5'-P-OP1	8.11	120.44	110.70
36	1	758	C	N1-C2-N3	8.11	124.88	119.20
36	1	1484	U	OP2-P-O3'	8.11	123.05	105.20
36	1	1299	U	N1-C2-N3	-8.11	110.03	114.90
36	1	2192	C	N1-C2-O2	-8.11	114.03	118.90
36	1	2519	A	C4-C5-C6	8.11	121.06	117.00
36	1	3279	A	C5-C6-N1	8.11	121.76	117.70
85	5	273	A	N1-C2-N3	8.11	133.36	129.30
85	5	749	C	C6-N1-C2	-8.11	117.06	120.30
85	5	1304	A	C2-N3-C4	8.11	114.66	110.60
85	5	2757	U	O5'-P-OP1	-8.11	98.40	105.70
85	5	3183	A	C8-N9-C4	-8.11	102.56	105.80
36	1	1879	A	C4-C5-C6	8.11	121.06	117.00
1	2	307	G	N7-C8-N9	-8.11	109.05	113.10
1	2	943	U	N3-C2-O2	-8.11	116.52	122.20
36	1	366	A	N1-C2-N3	8.11	133.35	129.30
36	1	703	G	N9-C4-C5	8.11	108.64	105.40
36	1	1461	A	N9-C4-C5	-8.11	102.56	105.80
36	1	1703	U	C2-N3-C4	8.11	131.87	127.00
85	5	976	U	C5-C6-N1	-8.11	118.64	122.70
85	5	2836	C	N3-C4-C5	-8.11	118.66	121.90
36	1	3122	A	N1-C6-N6	-8.11	113.73	118.60
50	M4	74	ARG	NE-CZ-NH1	-8.11	116.25	120.30
36	1	154	U	C2-N1-C1'	-8.11	107.97	117.70
36	1	377	A	C2-N3-C4	8.11	114.65	110.60
36	1	1434	G	N3-C2-N2	-8.11	114.22	119.90
36	1	2837	A	N9-C4-C5	8.11	109.04	105.80
36	1	494	G	N3-C4-N9	8.11	130.86	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1499	C	C6-N1-C2	-8.11	117.06	120.30
80	6	209	U	N1-C2-O2	-8.11	117.13	122.80
80	6	1588	G	C8-N9-C4	8.11	109.64	106.40
80	6	1697	G	N3-C4-C5	-8.11	124.55	128.60
85	5	268	A	N1-C2-N3	8.11	133.35	129.30
85	5	294	U	C4-C5-C6	-8.11	114.84	119.70
85	5	420	G	N3-C4-C5	-8.11	124.55	128.60
85	5	1261	G	C5-C6-O6	-8.11	123.74	128.60
85	5	1386	A	O5'-P-OP1	-8.11	98.41	105.70
85	5	3029	A	O5'-P-OP2	8.11	120.43	110.70
36	1	333	G	N9-C4-C5	-8.10	102.16	105.40
36	1	2582	C	N3-C4-N4	8.10	123.67	118.00
1	2	30	G	C5-C6-O6	-8.10	123.74	128.60
36	1	798	G	C6-N1-C2	-8.10	120.24	125.10
85	5	510	G	C6-N1-C2	-8.10	120.24	125.10
85	5	819	U	OP2-P-O3'	8.10	123.03	105.20
85	5	866	A	N1-C6-N6	8.10	123.46	118.60
85	5	3068	U	C5-C6-N1	-8.10	118.65	122.70
85	5	3355	U	C5-C6-N1	-8.10	118.65	122.70
1	2	829	G	N1-C6-O6	-8.10	115.04	119.90
1	2	1060	C	N3-C4-C5	-8.10	118.66	121.90
1	2	1710	G	O5'-P-OP2	-8.10	98.41	105.70
1	2	1742	C	N3-C4-C5	-8.10	118.66	121.90
36	1	665	A	C5-N7-C8	-8.10	99.85	103.90
36	1	1123	U	N3-C4-O4	8.10	125.07	119.40
36	1	2623	G	N1-C2-N3	8.10	128.76	123.90
36	1	2794	G	O5'-P-OP2	-8.10	98.41	105.70
80	6	288	A	N1-C6-N6	-8.10	113.74	118.60
85	5	381	U	N3-C2-O2	8.10	127.87	122.20
85	5	2130	G	C5-C6-N1	-8.10	107.45	111.50
85	5	801	A	OP2-P-O3'	-8.10	87.38	105.20
85	5	990	U	N1-C2-N3	8.10	119.76	114.90
85	5	2238	G	C2-N3-C4	-8.10	107.85	111.90
85	5	3037	U	N3-C2-O2	8.10	127.87	122.20
1	2	275	C	C2-N3-C4	8.10	123.95	119.90
85	5	354	U	C5-C4-O4	-8.10	121.04	125.90
85	5	1461	A	N9-C4-C5	8.10	109.04	105.80
36	1	268	A	C4-C5-N7	-8.10	106.65	110.70
36	1	585	A	N1-C2-N3	8.10	133.35	129.30
36	1	1311	G	C2-N3-C4	-8.10	107.85	111.90
36	1	1782	U	N1-C2-N3	-8.10	110.04	114.90
36	1	3261	C	C2-N3-C4	-8.10	115.85	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	366	A	N7-C8-N9	-8.10	109.75	113.80
85	5	3060	C	N3-C2-O2	8.10	127.57	121.90
85	5	1001	G	C5-N7-C8	8.10	108.35	104.30
1	2	164	A	C8-N9-C4	8.10	109.04	105.80
1	2	1023	G	N7-C8-N9	8.10	117.15	113.10
1	2	1771	G	N1-C2-N3	8.10	128.76	123.90
36	1	736	A	N1-C6-N6	8.10	123.46	118.60
36	1	894	G	C4-C5-C6	8.10	123.66	118.80
36	1	1154	A	N1-C2-N3	8.10	133.35	129.30
36	1	3048	A	C4-C5-C6	8.10	121.05	117.00
36	1	754	G	O5'-P-OP2	8.10	120.42	110.70
36	1	3256	G	N1-C6-O6	8.10	124.76	119.90
38	4	114	G	C2-N3-C4	-8.10	107.85	111.90
38	4	116	G	C8-N9-C1'	-8.10	116.48	127.00
80	6	495	C	C6-N1-C2	-8.10	117.06	120.30
80	6	518	A	C4-C5-N7	-8.10	106.65	110.70
80	6	1529	C	C2-N3-C4	8.10	123.95	119.90
85	5	878	G	N3-C4-C5	-8.10	124.55	128.60
85	5	2754	G	N1-C2-N2	-8.10	108.91	116.20
85	5	3026	G	C4-C5-N7	8.10	114.04	110.80
37	7	6	C	N1-C2-O2	-8.10	114.04	118.90
80	6	1301	U	N1-C2-N3	-8.10	110.04	114.90
85	5	786	A	C8-N9-C4	-8.10	102.56	105.80
1	2	10	G	C4-C5-N7	-8.09	107.56	110.80
36	1	31	C	C6-N1-C2	-8.09	117.06	120.30
36	1	201	A	N3-C4-C5	8.09	132.47	126.80
36	1	975	C	N3-C4-N4	8.09	123.67	118.00
36	1	1097	G	C5-N7-C8	-8.09	100.25	104.30
36	1	1329	U	C6-N1-C2	-8.09	116.14	121.00
36	1	2294	U	N1-C2-O2	-8.09	117.13	122.80
36	1	3018	C	N3-C2-O2	-8.09	116.23	121.90
85	5	1127	G	C2-N3-C4	8.09	115.95	111.90
85	5	1913	A	N7-C8-N9	8.09	117.85	113.80
36	1	1617	G	C5-C6-O6	-8.09	123.75	128.60
36	1	2305	G	N3-C4-C5	-8.09	124.55	128.60
36	1	2396	G	N3-C4-N9	-8.09	121.14	126.00
36	1	2599	U	O5'-P-OP2	8.09	120.41	110.70
85	5	1682	U	N3-C4-C5	-8.09	109.74	114.60
44	L7	144	ILE	CG1-CB-CG2	-8.09	93.60	111.40
80	6	158	U	C4-C5-C6	-8.09	114.84	119.70
80	6	755	A	C4-C5-N7	8.09	114.75	110.70
80	6	1768	G	C2-N3-C4	-8.09	107.85	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	980	A	C6-C5-N7	8.09	137.97	132.30
85	5	184	U	N3-C2-O2	-8.09	116.54	122.20
85	5	961	C	N3-C4-C5	-8.09	118.66	121.90
85	5	2136	C	C2-N3-C4	-8.09	115.85	119.90
85	5	3266	G	N1-C6-O6	-8.09	115.04	119.90
85	5	3006	A	C6-N1-C2	-8.09	113.75	118.60
37	7	6	C	C4-C5-C6	8.09	121.45	117.40
47	m0	90	ARG	NE-CZ-NH2	8.09	124.35	120.30
1	2	1627	C	O5'-P-OP2	-8.09	98.42	105.70
80	6	750	U	OP2-P-O3'	8.09	123.00	105.20
36	1	1213	G	N9-C4-C5	-8.09	102.16	105.40
36	1	1522	U	N3-C2-O2	-8.09	116.54	122.20
36	1	1919	G	C5-C6-O6	-8.09	123.75	128.60
36	1	3224	G	C6-C5-N7	-8.09	125.55	130.40
80	6	560	U	N3-C4-O4	8.09	125.06	119.40
80	6	54	C	C5-C4-N4	8.09	125.86	120.20
80	6	186	C	C6-N1-C2	8.09	123.54	120.30
85	5	580	C	N1-C2-N3	8.09	124.86	119.20
85	5	2273	G	N1-C2-N3	8.09	128.75	123.90
85	5	2410	U	N3-C4-C5	-8.09	109.75	114.60
85	5	2605	G	N1-C6-O6	8.09	124.75	119.90
85	5	2664	C	C2-N3-C4	8.09	123.94	119.90
85	5	3394	U	C5-C6-N1	-8.09	118.66	122.70
36	1	1005	G	C5-C6-N1	-8.09	107.46	111.50
36	1	1150	A	N1-C6-N6	-8.09	113.75	118.60
36	1	1834	U	C5-C6-N1	-8.09	118.66	122.70
85	5	2654	C	C4-C5-C6	-8.09	113.36	117.40
1	2	1168	U	C2-N1-C1'	8.09	127.40	117.70
1	2	1550	U	N1-C2-N3	8.09	119.75	114.90
1	2	1642	A	N7-C8-N9	8.09	117.84	113.80
80	6	364	G	C2-N3-C4	-8.09	107.86	111.90
80	6	984	G	C5-C6-N1	-8.09	107.46	111.50
80	6	1789	G	N1-C6-O6	-8.09	115.05	119.90
85	5	718	G	N1-C2-N2	-8.09	108.92	116.20
85	5	884	A	C4-C5-N7	8.09	114.74	110.70
85	5	1250	G	C5-C6-O6	8.09	133.45	128.60
85	5	2339	C	C2-N3-C4	8.09	123.94	119.90
85	5	2900	A	OP2-P-O3'	8.09	122.99	105.20
1	2	1183	G	C6-C5-N7	-8.08	125.55	130.40
36	1	2597	U	C4-C5-C6	8.08	124.55	119.70
36	1	2689	A	N9-C4-C5	8.08	109.03	105.80
36	1	407	A	OP2-P-O3'	8.08	122.98	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1867	A	N1-C2-N3	8.08	133.34	129.30
36	1	2097	U	N3-C2-O2	8.08	127.86	122.20
36	1	2226	U	N1-C2-O2	-8.08	117.14	122.80
36	1	2944	U	N3-C2-O2	-8.08	116.54	122.20
80	6	279	G	C5-C6-N1	-8.08	107.46	111.50
80	6	586	G	C8-N9-C4	8.08	109.63	106.40
80	6	1581	C	C5-C6-N1	-8.08	116.96	121.00
85	5	782	U	C4-C5-C6	8.08	124.55	119.70
85	5	422	A	N1-C2-N3	8.08	133.34	129.30
85	5	816	A	N9-C4-C5	8.08	109.03	105.80
1	2	57	G	C6-C5-N7	-8.08	125.55	130.40
36	1	271	C	OP1-P-OP2	-8.08	107.48	119.60
36	1	3391	A	C5-N7-C8	-8.08	99.86	103.90
85	5	306	A	N1-C2-N3	8.08	133.34	129.30
36	1	1058	U	C4-C5-C6	8.08	124.55	119.70
36	1	2899	C	C5-C6-N1	-8.08	116.96	121.00
38	4	16	G	C4-C5-N7	-8.08	107.57	110.80
38	4	152	G	N3-C4-C5	8.08	132.64	128.60
85	5	983	A	C5-C6-N6	8.08	130.16	123.70
85	5	1073	U	N3-C4-O4	8.08	125.06	119.40
85	5	3055	U	N3-C4-C5	-8.08	109.75	114.60
1	2	20	G	C2-N3-C4	-8.08	107.86	111.90
1	2	1115	A	C4-C5-N7	-8.08	106.66	110.70
36	1	268	A	C4-C5-C6	8.08	121.04	117.00
36	1	682	U	N1-C2-N3	8.08	119.75	114.90
36	1	754	G	OP1-P-OP2	-8.08	107.48	119.60
36	1	1116	G	N3-C2-N2	-8.08	114.25	119.90
36	1	1462	A	C6-N1-C2	-8.08	113.75	118.60
36	1	2870	C	OP2-P-O3'	-8.08	87.43	105.20
80	6	1725	U	C4-C5-C6	8.08	124.55	119.70
85	5	283	G	N1-C6-O6	8.08	124.75	119.90
85	5	3070	A	C5-N7-C8	-8.08	99.86	103.90
36	1	505	G	C8-N9-C4	8.08	109.63	106.40
36	1	3060	C	C4-C5-C6	8.08	121.44	117.40
85	5	353	G	C6-N1-C2	-8.08	120.25	125.10
85	5	924	G	C8-N9-C4	-8.08	103.17	106.40
85	5	1137	C	N3-C2-O2	-8.08	116.25	121.90
85	5	1321	G	N3-C4-C5	8.08	132.64	128.60
85	5	1454	A	C6-C5-N7	-8.08	126.65	132.30
85	5	1471	U	C2-N3-C4	-8.08	122.16	127.00
85	5	1840	U	N1-C2-N3	8.08	119.75	114.90
85	5	2708	C	N3-C4-N4	8.08	123.65	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2778	G	C6-N1-C2	-8.08	120.25	125.10
1	2	845	A	C4-C5-N7	-8.07	106.66	110.70
1	2	1103	U	C5-C4-O4	8.07	130.74	125.90
36	1	894	G	N1-C2-N3	8.07	128.75	123.90
36	1	1600	U	N3-C4-C5	8.07	119.44	114.60
36	1	1629	U	O5'-P-OP2	-8.07	98.43	105.70
36	1	3381	U	O5'-P-OP2	-8.07	98.43	105.70
85	5	1888	U	N3-C2-O2	-8.07	116.55	122.20
36	1	305	U	N1-C2-O2	-8.07	117.15	122.80
36	1	2165	G	N1-C6-O6	8.07	124.74	119.90
36	1	2722	U	C5-C4-O4	-8.07	121.06	125.90
80	6	1703	C	C2-N3-C4	8.07	123.94	119.90
80	6	1724	U	O5'-P-OP2	8.07	120.39	110.70
85	5	1683	A	O5'-P-OP1	-8.07	98.43	105.70
85	5	532	A	N7-C8-N9	8.07	117.84	113.80
85	5	1420	C	C2-N3-C4	-8.07	115.86	119.90
36	1	287	G	C5-C6-O6	-8.07	123.76	128.60
36	1	420	G	N3-C4-C5	-8.07	124.56	128.60
36	1	1155	C	C4-C5-C6	-8.07	113.36	117.40
36	1	1514	G	C5-N7-C8	-8.07	100.26	104.30
36	1	2599	U	N3-C4-O4	8.07	125.05	119.40
36	1	2735	U	N3-C2-O2	-8.07	116.55	122.20
36	1	2738	A	C8-N9-C4	-8.07	102.57	105.80
36	1	2982	A	N3-C4-C5	-8.07	121.15	126.80
74	O8	46	ARG	NE-CZ-NH1	8.07	124.34	120.30
80	6	634	G	C6-N1-C2	-8.07	120.26	125.10
80	6	1004	U	N1-C2-N3	8.07	119.74	114.90
85	5	39	A	OP2-P-O3'	8.07	122.96	105.20
85	5	67	A	N9-C4-C5	-8.07	102.57	105.80
85	5	361	A	C5-C6-N6	8.07	130.16	123.70
85	5	518	G	N3-C4-N9	-8.07	121.16	126.00
85	5	3105	U	N1-C2-O2	-8.07	117.15	122.80
85	5	3121	U	N3-C4-O4	-8.07	113.75	119.40
36	1	659	G	N3-C2-N2	8.07	125.55	119.90
36	1	3095	U	N3-C4-O4	8.07	125.05	119.40
36	1	3120	C	C4-C5-C6	-8.07	113.36	117.40
80	6	1153	G	C5-C6-O6	8.07	133.44	128.60
80	6	1590	G	N3-C4-C5	8.07	132.63	128.60
85	5	227	G	O5'-P-OP2	-8.07	98.44	105.70
85	5	1508	C	C5-C6-N1	-8.07	116.97	121.00
85	5	1598	G	N1-C2-N2	-8.07	108.94	116.20
85	5	2421	U	C5-C6-N1	-8.07	118.67	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3141	A	C6-C5-N7	-8.07	126.65	132.30
85	5	3228	C	N3-C2-O2	-8.07	116.25	121.90
85	5	214	G	C8-N9-C4	-8.07	103.17	106.40
85	5	217	U	N3-C2-O2	8.07	127.85	122.20
85	5	3121	U	O5'-P-OP2	8.07	120.38	110.70
36	1	754	G	C6-N1-C2	8.07	129.94	125.10
36	1	1422	G	N1-C6-O6	-8.07	115.06	119.90
36	1	2937	G	OP2-P-O3'	8.07	122.94	105.20
80	6	601	A	C8-N9-C4	-8.07	102.57	105.80
80	6	1300	A	N1-C6-N6	-8.07	113.76	118.60
85	5	591	G	N3-C4-C5	8.07	132.63	128.60
85	5	728	G	OP2-P-O3'	8.07	122.94	105.20
85	5	1153	A	C5-C6-N1	8.07	121.73	117.70
85	5	1677	G	C5-C6-N1	8.07	115.53	111.50
85	5	1844	C	C2-N3-C4	-8.07	115.87	119.90
85	5	2122	G	O5'-P-OP2	8.07	120.38	110.70
85	5	2205	U	N1-C2-N3	-8.07	110.06	114.90
85	5	3033	A	N1-C2-N3	8.07	133.33	129.30
36	1	64	G	C6-N1-C2	-8.06	120.26	125.10
36	1	1135	A	C6-N1-C2	-8.06	113.76	118.60
36	1	1910	A	C6-N1-C2	8.06	123.44	118.60
36	1	2834	G	C2-N3-C4	-8.06	107.87	111.90
36	1	2908	G	C5-C6-O6	-8.06	123.76	128.60
80	6	445	A	C4-C5-N7	8.06	114.73	110.70
80	6	920	U	C6-N1-C2	-8.06	116.16	121.00
85	5	702	C	C5-C6-N1	8.06	125.03	121.00
85	5	2734	A	N7-C8-N9	8.06	117.83	113.80
85	5	2952	G	C5-N7-C8	-8.06	100.27	104.30
36	1	215	G	OP1-P-OP2	-8.06	107.51	119.60
80	6	158	U	P-O3'-C3'	8.06	129.37	119.70
80	6	1658	G	N9-C4-C5	-8.06	102.17	105.40
36	1	105	C	N3-C4-N4	8.06	123.64	118.00
36	1	371	G	C6-C5-N7	-8.06	125.56	130.40
36	1	746	A	N1-C2-N3	8.06	133.33	129.30
36	1	1675	G	N3-C2-N2	8.06	125.54	119.90
80	6	890	C	C6-N1-C2	8.06	123.53	120.30
85	5	1161	G	N1-C6-O6	-8.06	115.06	119.90
36	1	2521	U	C6-N1-C2	8.06	125.84	121.00
36	1	2610	G	C4-C5-N7	8.06	114.02	110.80
38	4	107	G	N1-C2-N2	-8.06	108.94	116.20
38	4	144	G	N7-C8-N9	-8.06	109.07	113.10
85	5	947	G	C6-C5-N7	-8.06	125.56	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	4	C	N3-C2-O2	-8.06	116.26	121.90
80	6	1147	A	N7-C8-N9	8.06	117.83	113.80
85	5	1813	A	C8-N9-C4	-8.06	102.58	105.80
85	5	2281	A	N1-C6-N6	-8.06	113.76	118.60
85	5	2977	G	N3-C4-C5	-8.06	124.57	128.60
38	8	73	U	N3-C4-C5	8.06	119.44	114.60
36	1	1126	G	N7-C8-N9	8.06	117.13	113.10
36	1	2915	U	N3-C4-O4	8.06	125.04	119.40
38	4	134	G	C4-C5-N7	8.06	114.02	110.80
85	5	139	G	C5-N7-C8	-8.06	100.27	104.30
80	6	90	C	C5-C6-N1	-8.06	116.97	121.00
80	6	437	A	C6-N1-C2	-8.06	113.77	118.60
85	5	2755	C	OP2-P-O3'	8.06	122.93	105.20
85	5	2766	U	C2-N3-C4	-8.06	122.17	127.00
80	6	985	G	C5-N7-C8	-8.06	100.27	104.30
80	6	1207	C	N3-C2-O2	8.06	127.54	121.90
85	5	315	C	N3-C2-O2	-8.06	116.26	121.90
85	5	531	G	C8-N9-C4	-8.06	103.18	106.40
85	5	1698	C	N3-C4-N4	8.06	123.64	118.00
85	5	1815	U	C6-N1-C2	8.06	125.83	121.00
85	5	2549	G	N1-C2-N3	-8.06	119.06	123.90
37	7	95	A	C4-C5-C6	8.06	121.03	117.00
38	8	121	U	C5-C6-N1	8.06	126.73	122.70
1	2	334	G	C2-N3-C4	-8.05	107.87	111.90
1	2	1417	U	N3-C4-C5	-8.06	109.77	114.60
36	1	903	U	OP1-P-O3'	8.05	122.92	105.20
36	1	2501	U	C2-N3-C4	8.06	131.83	127.00
36	1	2602	G	N1-C2-N3	8.05	128.73	123.90
36	1	2751	G	N1-C6-O6	8.06	124.73	119.90
36	1	2813	A	C2-N3-C4	-8.05	106.57	110.60
36	1	2920	U	N3-C4-C5	8.05	119.43	114.60
36	1	2995	A	N1-C2-N3	8.05	133.33	129.30
36	1	3300	U	C5-C6-N1	-8.06	118.67	122.70
80	6	1752	U	OP1-P-OP2	-8.05	107.52	119.60
85	5	3231	U	C5-C4-O4	8.06	130.73	125.90
36	1	1099	A	OP1-P-OP2	-8.05	107.52	119.60
36	1	1713	G	C8-N9-C4	-8.05	103.18	106.40
36	1	2684	C	N3-C2-O2	8.05	127.54	121.90
85	5	518	G	C5-N7-C8	8.05	108.33	104.30
85	5	1788	C	N1-C2-O2	8.05	123.73	118.90
85	5	2152	A	N1-C2-N3	8.05	133.33	129.30
85	5	2845	A	O5'-P-OP2	-8.05	98.45	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2985	C	C4-C5-C6	-8.05	113.37	117.40
85	5	2994	A	N7-C8-N9	8.05	117.83	113.80
85	5	3149	G	N1-C6-O6	8.05	124.73	119.90
85	5	3146	G	N1-C2-N2	-8.05	108.95	116.20
37	7	102	A	N3-C4-C5	8.05	132.44	126.80
1	2	1138	G	C8-N9-C4	8.05	109.62	106.40
36	1	973	A	C4-C5-N7	-8.05	106.67	110.70
36	1	1194	G	C8-N9-C4	-8.05	103.18	106.40
36	1	2838	A	N1-C2-N3	8.05	133.33	129.30
36	1	3171	U	O4'-C1'-N1	8.05	114.64	108.20
85	5	1184	A	C8-N9-C4	8.05	109.02	105.80
36	1	329	U	C2-N3-C4	-8.05	122.17	127.00
36	1	1101	G	N1-C2-N2	8.05	123.44	116.20
36	1	1308	A	N9-C4-C5	8.05	109.02	105.80
80	6	448	C	C4-C5-C6	8.05	121.43	117.40
36	1	2225	U	N3-C4-C5	-8.05	109.77	114.60
36	1	2364	G	N1-C6-O6	-8.05	115.07	119.90
37	3	23	A	C5-N7-C8	-8.05	99.88	103.90
80	6	1012	U	N3-C4-C5	8.05	119.43	114.60
80	6	1213	G	N9-C4-C5	-8.05	102.18	105.40
85	5	119	U	C2-N3-C4	-8.05	122.17	127.00
85	5	1157	G	C8-N9-C4	8.05	109.62	106.40
85	5	1661	G	O5'-P-OP1	8.05	120.36	110.70
85	5	3028	G	N3-C2-N2	8.05	125.54	119.90
85	5	3112	G	C4-C5-N7	8.05	114.02	110.80
37	7	93	C	O5'-P-OP2	-8.05	98.45	105.70
36	1	305	U	C5-C4-O4	8.05	130.73	125.90
36	1	324	A	C5-N7-C8	-8.05	99.88	103.90
36	1	1513	G	N3-C4-N9	8.05	130.83	126.00
36	1	2201	G	C5-C6-N1	-8.05	107.48	111.50
85	5	496	C	N3-C2-O2	-8.05	116.27	121.90
85	5	1606	U	N1-C2-N3	8.05	119.73	114.90
1	2	354	C	N3-C4-N4	8.05	123.63	118.00
36	1	206	G	C5-N7-C8	-8.05	100.28	104.30
36	1	369	A	C5-C6-N1	8.05	121.72	117.70
36	1	389	A	C8-N9-C4	-8.05	102.58	105.80
36	1	782	U	C4-C5-C6	-8.05	114.87	119.70
36	1	1025	A	C8-N9-C4	-8.05	102.58	105.80
36	1	1111	U	C5-C6-N1	-8.05	118.68	122.70
36	1	1318	A	OP1-P-OP2	8.05	131.67	119.60
36	1	1377	G	C5-N7-C8	-8.05	100.28	104.30
36	1	1394	A	C6-N1-C2	-8.05	113.77	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1480	G	N3-C4-C5	8.05	132.62	128.60
36	1	3139	A	C6-N1-C2	-8.05	113.77	118.60
36	1	2618	G	C2-N3-C4	-8.05	107.88	111.90
36	1	2699	G	C6-C5-N7	-8.05	125.57	130.40
36	1	3012	A	O5'-P-OP2	8.05	120.36	110.70
80	6	1645	G	N3-C4-N9	-8.05	121.17	126.00
85	5	207	U	OP1-P-O3'	8.05	122.91	105.20
85	5	266	A	C6-N1-C2	-8.05	113.77	118.60
85	5	641	C	N1-C2-O2	-8.05	114.07	118.90
85	5	1063	G	C5-N7-C8	-8.05	100.28	104.30
85	5	1833	G	N1-C2-N3	-8.05	119.07	123.90
85	5	1932	A	C8-N9-C4	8.05	109.02	105.80
85	5	2414	G	C4-C5-C6	-8.05	113.97	118.80
85	5	2549	G	N1-C2-N2	8.05	123.44	116.20
85	5	3254	G	N1-C6-O6	8.05	124.73	119.90
36	1	103	G	N3-C2-N2	-8.05	114.27	119.90
36	1	734	C	C6-N1-C2	-8.05	117.08	120.30
36	1	1000	C	N3-C4-N4	8.05	123.63	118.00
36	1	1396	C	C5-C4-N4	-8.05	114.57	120.20
1	2	1367	A	C8-N9-C4	8.04	109.02	105.80
36	1	1375	G	N3-C2-N2	-8.04	114.27	119.90
36	1	1634	G	N3-C4-C5	-8.04	124.58	128.60
38	4	29	U	C6-N1-C2	8.04	125.83	121.00
80	6	358	U	C2-N1-C1'	8.04	127.35	117.70
85	5	1130	A	C2-N3-C4	8.05	114.62	110.60
80	6	632	U	N3-C4-O4	-8.04	113.77	119.40
80	6	985	G	C6-C5-N7	-8.04	125.57	130.40
80	6	1267	G	C8-N9-C4	8.04	109.62	106.40
80	6	1632	C	C6-N1-C2	8.04	123.52	120.30
85	5	90	C	N3-C2-O2	8.04	127.53	121.90
85	5	811	U	N1-C2-N3	8.04	119.73	114.90
85	5	1433	A	C6-N1-C2	-8.04	113.77	118.60
38	8	121	U	N1-C2-O2	8.05	128.43	122.80
1	2	988	A	N1-C6-N6	-8.04	113.77	118.60
36	1	692	A	N9-C4-C5	8.04	109.02	105.80
36	1	1066	G	C6-C5-N7	-8.04	125.57	130.40
36	1	1915	A	C2-N3-C4	-8.04	106.58	110.60
36	1	2906	C	N1-C2-N3	8.04	124.83	119.20
80	6	1722	A	C5-C6-N6	8.04	130.13	123.70
85	5	386	A	N1-C6-N6	-8.04	113.77	118.60
38	8	85	G	O5'-P-OP2	8.04	120.35	110.70
36	1	2682	C	OP1-P-OP2	8.04	131.66	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2910	A	N1-C6-N6	-8.04	113.78	118.60
38	4	155	A	C5-C6-N1	-8.04	113.68	117.70
80	6	788	A	N1-C2-N3	8.04	133.32	129.30
80	6	1007	C	O5'-P-OP1	-8.04	98.46	105.70
80	6	1131	A	C5-N7-C8	-8.04	99.88	103.90
85	5	494	G	C4-C5-N7	8.04	114.02	110.80
85	5	1156	C	N3-C2-O2	8.04	127.53	121.90
85	5	1788	C	C4-C5-C6	8.04	121.42	117.40
1	2	538	A	C4-C5-N7	8.04	114.72	110.70
36	1	673	U	C5-C6-N1	8.04	126.72	122.70
80	6	984	G	C5-C6-O6	8.04	133.42	128.60
36	1	678	G	C5-C6-O6	-8.04	123.78	128.60
36	1	705	A	C5-C6-N6	-8.04	117.27	123.70
36	1	725	G	N1-C6-O6	8.04	124.72	119.90
36	1	1868	G	C8-N9-C4	-8.04	103.19	106.40
36	1	2890	A	C4-C5-N7	-8.04	106.68	110.70
80	6	540	G	N1-C2-N2	-8.04	108.97	116.20
80	6	624	G	N1-C6-O6	8.04	124.72	119.90
80	6	1199	G	C4-C5-N7	8.04	114.02	110.80
85	5	845	G	C8-N9-C4	8.04	109.62	106.40
85	5	978	G	C6-N1-C2	-8.04	120.28	125.10
36	1	1069	C	C2-N3-C4	-8.04	115.88	119.90
36	1	1305	U	O5'-P-OP1	-8.04	98.47	105.70
36	1	2925	C	C6-N1-C2	8.04	123.52	120.30
36	1	3279	A	C8-N9-C4	-8.04	102.58	105.80
37	3	30	G	C6-C5-N7	-8.04	125.58	130.40
85	5	383	G	C4-C5-C6	8.04	123.62	118.80
85	5	422	A	N1-C6-N6	-8.04	113.78	118.60
85	5	501	A	C5-N7-C8	8.04	107.92	103.90
85	5	1541	G	C6-N1-C2	8.04	129.92	125.10
85	5	2298	U	C6-N1-C2	-8.04	116.18	121.00
36	1	573	C	C5-C6-N1	-8.04	116.98	121.00
36	1	710	A	C5-N7-C8	-8.04	99.88	103.90
36	1	1454	A	N1-C2-N3	8.04	133.32	129.30
36	1	1493	G	C2-N3-C4	-8.04	107.88	111.90
36	1	2223	A	C5-C6-N1	-8.04	113.68	117.70
36	1	2310	U	C2-N3-C4	8.04	131.82	127.00
80	6	1730	A	N1-C6-N6	8.04	123.42	118.60
85	5	376	G	C8-N9-C4	-8.04	103.19	106.40
85	5	2733	A	N7-C8-N9	-8.04	109.78	113.80
36	1	771	A	C4-C5-N7	8.03	114.72	110.70
36	1	991	G	C5-C6-O6	8.03	133.42	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2425	G	N1-C6-O6	-8.04	115.08	119.90
36	1	3069	G	C2-N3-C4	8.03	115.92	111.90
85	5	1081	U	C6-N1-C2	-8.03	116.18	121.00
85	5	1388	U	C5-C6-N1	8.04	126.72	122.70
85	5	1475	A	O5'-P-OP1	8.04	120.34	110.70
85	5	3254	G	C8-N9-C4	-8.04	103.19	106.40
85	5	1631	C	C4-C5-C6	8.03	121.42	117.40
85	5	2660	G	O5'-P-OP1	8.03	120.34	110.70
85	5	2675	C	C6-N1-C2	-8.04	117.09	120.30
85	5	3149	G	N9-C4-C5	-8.03	102.19	105.40
1	2	1093	G	C5-C6-O6	8.03	133.42	128.60
37	3	39	C	N3-C4-N4	-8.03	112.38	118.00
80	6	464	A	N1-C2-N3	8.03	133.32	129.30
80	6	1108	G	N1-C2-N3	8.03	128.72	123.90
85	5	1850	A	N1-C2-N3	8.03	133.32	129.30
36	1	921	A	C5-N7-C8	8.03	107.92	103.90
36	1	1474	A	N7-C8-N9	8.03	117.81	113.80
36	1	1747	G	C8-N9-C4	-8.03	103.19	106.40
36	1	2964	G	C6-N1-C2	-8.03	120.28	125.10
80	6	833	U	N3-C4-O4	-8.03	113.78	119.40
80	6	834	G	N9-C4-C5	-8.03	102.19	105.40
80	6	1001	A	C5-N7-C8	-8.03	99.89	103.90
85	5	2738	A	N1-C6-N6	-8.03	113.78	118.60
38	8	86	U	C5-C4-O4	-8.03	121.08	125.90
1	2	419	G	N1-C2-N2	-8.03	108.97	116.20
1	2	1703	G	N9-C4-C5	-8.03	102.19	105.40
36	1	2151	C	N3-C4-C5	-8.03	118.69	121.90
85	5	3071	U	N3-C4-O4	8.03	125.02	119.40
36	1	517	G	N9-C4-C5	8.03	108.61	105.40
36	1	2222	A	N9-C4-C5	8.03	109.01	105.80
36	1	2628	A	N1-C6-N6	-8.03	113.78	118.60
36	1	2687	G	N1-C6-O6	-8.03	115.08	119.90
36	1	3028	G	C5-C6-N1	8.03	115.51	111.50
37	3	46	A	C8-N9-C4	-8.03	102.59	105.80
80	6	1145	U	C5-C4-O4	-8.03	121.08	125.90
85	5	298	U	C5-C4-O4	8.03	130.72	125.90
85	5	1407	A	N1-C2-N3	8.03	133.31	129.30
85	5	1502	C	OP1-P-OP2	-8.03	107.56	119.60
85	5	1574	C	C2-N3-C4	8.03	123.91	119.90
1	2	324	U	C4-C5-C6	8.03	124.52	119.70
1	2	1576	A	N1-C2-N3	8.03	133.31	129.30
36	1	1636	U	N3-C4-O4	8.03	125.02	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1618	C	C5-C6-N1	-8.03	116.99	121.00
85	5	1494	U	N1-C2-O2	-8.03	117.18	122.80
85	5	2732	G	N3-C2-N2	-8.03	114.28	119.90
36	1	610	G	N1-C6-O6	8.03	124.72	119.90
36	1	2138	A	C2-N3-C4	-8.03	106.59	110.60
80	6	635	A	C2-N3-C4	-8.03	106.59	110.60
80	6	1743	U	C4-C5-C6	8.03	124.52	119.70
85	5	136	G	C5-C6-O6	-8.03	123.78	128.60
85	5	569	A	C6-C5-N7	8.03	137.92	132.30
85	5	825	U	C5-C4-O4	8.03	130.72	125.90
85	5	2367	A	OP1-P-OP2	8.03	131.64	119.60
85	5	2925	C	C2-N3-C4	-8.03	115.89	119.90
1	2	341	A	C2-N3-C4	-8.02	106.59	110.60
36	1	64	G	C4-C5-N7	-8.02	107.59	110.80
36	1	110	G	C5-C6-N1	-8.02	107.49	111.50
36	1	797	U	OP1-P-O3'	8.02	122.85	105.20
36	1	909	G	C2-N3-C4	-8.02	107.89	111.90
36	1	2225	U	C4-C5-C6	8.02	124.51	119.70
36	1	849	C	O5'-P-OP2	-8.02	98.48	105.70
36	1	1356	U	C6-N1-C2	8.02	125.81	121.00
36	1	1722	U	C5-C6-N1	-8.02	118.69	122.70
36	1	1857	C	O5'-P-OP2	-8.02	98.48	105.70
36	1	2227	C	C5-C6-N1	-8.02	116.99	121.00
36	1	3366	G	N1-C2-N3	8.02	128.71	123.90
85	5	1656	A	N1-C2-N3	8.02	133.31	129.30
36	1	2160	G	C6-C5-N7	8.02	135.21	130.40
85	5	640	U	C4-C5-C6	8.02	124.51	119.70
85	5	669	U	C5-C6-N1	-8.02	118.69	122.70
85	5	851	C	N3-C4-C5	-8.02	118.69	121.90
85	5	3167	A	C4-C5-C6	8.02	121.01	117.00
1	2	379	U	N3-C4-C5	-8.02	109.79	114.60
38	4	79	A	C5-N7-C8	8.02	107.91	103.90
36	1	2253	G	N1-C6-O6	8.02	124.71	119.90
36	1	2718	U	C5-C4-O4	-8.02	121.09	125.90
36	1	3072	C	N3-C4-N4	-8.02	112.39	118.00
36	1	3148	U	N1-C2-O2	-8.02	117.19	122.80
36	1	3192	U	N1-C2-O2	-8.02	117.19	122.80
37	3	87	G	N7-C8-N9	8.02	117.11	113.10
85	5	39	A	N9-C4-C5	8.02	109.01	105.80
85	5	225	C	C5-C4-N4	-8.02	114.59	120.20
85	5	942	U	O5'-P-OP2	-8.02	98.48	105.70
85	5	26	A	C5-N7-C8	8.02	107.91	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	503	C	N3-C4-N4	8.02	123.61	118.00
85	5	1019	G	C6-C5-N7	8.02	135.21	130.40
85	5	1181	U	C4-C5-C6	8.02	124.51	119.70
85	5	1882	G	N7-C8-N9	8.02	117.11	113.10
85	5	2848	G	N1-C6-O6	-8.02	115.09	119.90
38	8	125	U	N1-C2-N3	-8.02	110.09	114.90
85	5	2096	A	C8-N9-C4	-8.02	102.59	105.80
85	5	2755	C	O5'-P-OP1	-8.02	98.48	105.70
36	1	93	C	C5-C6-N1	8.02	125.01	121.00
36	1	714	G	C6-N1-C2	-8.02	120.29	125.10
36	1	2921	U	C5-C6-N1	-8.02	118.69	122.70
80	6	681	U	C5-C4-O4	-8.02	121.09	125.90
80	6	1322	A	N7-C8-N9	-8.02	109.79	113.80
1	2	284	G	N3-C4-C5	8.02	132.61	128.60
1	2	1779	C	N3-C4-C5	-8.02	118.69	121.90
36	1	24	G	OP1-P-OP2	-8.02	107.58	119.60
36	1	811	U	C5-C6-N1	-8.02	118.69	122.70
36	1	3230	G	OP1-P-O3'	-8.02	87.57	105.20
37	3	109	G	C5-C6-N1	8.02	115.51	111.50
52	M6	41	LEU	CB-CG-CD2	-8.02	97.37	111.00
80	6	162	A	O4'-C1'-N9	-8.02	101.79	108.20
80	6	423	G	C5-C6-N1	8.02	115.51	111.50
85	5	358	G	C5-N7-C8	-8.02	100.29	104.30
85	5	639	G	OP1-P-OP2	-8.02	107.58	119.60
85	5	626	U	C4-C5-C6	8.02	124.51	119.70
85	5	901	G	N1-C2-N3	8.02	128.71	123.90
85	5	1468	A	C6-N1-C2	-8.02	113.79	118.60
85	5	2280	A	C2-N3-C4	-8.02	106.59	110.60
85	5	2908	G	C4-C5-C6	-8.02	113.99	118.80
37	7	68	C	O5'-P-OP1	8.02	120.32	110.70
38	8	82	U	C5-C4-O4	8.02	130.71	125.90
36	1	591	G	C8-N9-C4	-8.01	103.19	106.40
36	1	720	A	C2-N3-C4	8.01	114.61	110.60
36	1	927	C	C2-N3-C4	8.01	123.91	119.90
36	1	1009	A	N9-C4-C5	8.01	109.00	105.80
36	1	1428	A	C5-C6-N6	-8.01	117.29	123.70
36	1	1446	A	OP1-P-OP2	8.01	131.62	119.60
36	1	1469	C	N3-C2-O2	-8.01	116.29	121.90
36	1	1548	C	N3-C4-N4	8.01	123.61	118.00
85	5	2180	G	N1-C6-O6	8.01	124.71	119.90
36	1	1560	G	C5-C6-N1	8.01	115.51	111.50
36	1	1645	U	O5'-P-OP2	-8.01	98.49	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1700	G	C2-N3-C4	-8.01	107.89	111.90
38	4	17	A	C2-N3-C4	-8.01	106.59	110.60
60	N4	23	ARG	NE-CZ-NH2	-8.01	116.29	120.30
85	5	2243	A	C5-N7-C8	8.01	107.91	103.90
85	5	188	U	O5'-P-OP1	-8.01	98.49	105.70
85	5	1761	C	N1-C2-O2	8.01	123.71	118.90
85	5	1865	A	C4-C5-C6	8.01	121.01	117.00
1	2	1258	A	OP1-P-OP2	8.01	131.62	119.60
36	1	603	A	C2-N3-C4	-8.01	106.59	110.60
36	1	913	A	OP1-P-OP2	8.01	131.62	119.60
38	4	38	U	N3-C4-O4	8.01	125.01	119.40
80	6	142	G	C5-C6-O6	-8.01	123.79	128.60
85	5	522	A	OP1-P-OP2	-8.01	107.59	119.60
85	5	890	C	C5-C6-N1	8.01	125.00	121.00
85	5	1484	U	OP2-P-O3'	8.01	122.82	105.20
85	5	2152	A	C4-C5-N7	-8.01	106.69	110.70
85	5	2524	A	C8-N9-C4	-8.01	102.60	105.80
85	5	2584	G	N3-C4-C5	-8.01	124.60	128.60
85	5	3022	G	C2-N3-C4	8.01	115.91	111.90
36	1	1439	U	OP1-P-OP2	-8.01	107.59	119.60
36	1	1448	U	OP2-P-O3'	8.01	122.82	105.20
36	1	2364	G	N1-C2-N2	8.01	123.41	116.20
80	6	151	G	N3-C4-N9	-8.01	121.19	126.00
85	5	895	A	N1-C2-N3	8.01	133.30	129.30
1	2	186	C	N3-C2-O2	-8.01	116.30	121.90
1	2	1332	G	C5-C6-N1	-8.01	107.50	111.50
36	1	317	A	C5-N7-C8	-8.01	99.90	103.90
36	1	366	A	C5-N7-C8	8.01	107.90	103.90
36	1	749	C	N3-C4-C5	8.01	125.10	121.90
36	1	899	U	C2-N3-C4	-8.01	122.20	127.00
36	1	1120	A	C5-C6-N1	8.01	121.70	117.70
36	1	1948	G	N3-C4-C5	8.01	132.60	128.60
36	1	3231	U	N3-C2-O2	-8.01	116.59	122.20
37	3	49	G	C4-C5-C6	-8.01	114.00	118.80
80	6	755	A	N1-C6-N6	8.01	123.41	118.60
85	5	388	G	N9-C4-C5	-8.01	102.20	105.40
85	5	1447	G	N1-C6-O6	-8.01	115.09	119.90
85	5	1481	A	N7-C8-N9	8.01	117.80	113.80
85	5	1900	A	C2-N3-C4	8.01	114.60	110.60
85	5	2881	C	C4-C5-C6	8.01	121.40	117.40
85	5	3075	G	C2-N3-C4	-8.01	107.90	111.90
36	1	2193	U	N3-C4-O4	8.01	125.00	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3028	G	N3-C4-N9	8.01	130.80	126.00
36	1	3248	C	C5-C6-N1	8.01	125.00	121.00
80	6	709	C	N3-C2-O2	8.01	127.50	121.90
80	6	789	A	C4-C5-C6	8.01	121.00	117.00
80	6	1000	C	C5-C6-N1	-8.01	117.00	121.00
85	5	665	A	OP1-P-OP2	-8.01	107.59	119.60
85	5	1353	U	C5-C4-O4	8.01	130.70	125.90
85	5	2303	A	C5-C6-N1	-8.01	113.70	117.70
85	5	2312	A	N3-C4-C5	-8.01	121.20	126.80
85	5	3377	G	C8-N9-C4	-8.01	103.20	106.40
37	7	31	U	C4-C5-C6	-8.01	114.90	119.70
1	2	1276	U	O5'-P-OP2	-8.00	98.50	105.70
36	1	3314	A	N1-C6-N6	-8.00	113.80	118.60
80	6	1127	G	C5-C6-N1	-8.00	107.50	111.50
85	5	902	G	C8-N9-C4	8.00	109.60	106.40
1	2	1721	U	C6-N1-C2	-8.00	116.20	121.00
36	1	1120	A	C6-N1-C2	-8.00	113.80	118.60
36	1	1694	U	C2-N3-C4	-8.00	122.20	127.00
36	1	1751	G	N7-C8-N9	-8.00	109.10	113.10
36	1	1863	G	C5-C6-O6	8.00	133.40	128.60
36	1	2692	A	O5'-P-OP1	-8.00	98.50	105.70
49	M3	93	ILE	CG1-CB-CG2	-8.00	93.80	111.40
80	6	1131	A	N3-C4-C5	-8.00	121.20	126.80
85	5	28	C	N3-C4-C5	8.00	125.10	121.90
85	5	354	U	O5'-P-OP2	-8.00	98.50	105.70
85	5	668	G	C5-N7-C8	8.00	108.30	104.30
85	5	1143	A	C5-C6-N1	-8.00	113.70	117.70
85	5	1153	A	C5-N7-C8	8.00	107.90	103.90
85	5	1162	U	C5-C6-N1	8.00	126.70	122.70
85	5	1717	U	N3-C4-O4	8.00	125.00	119.40
1	2	1304	A	C6-N1-C2	-8.00	113.80	118.60
1	2	1481	G	C4-C5-N7	-8.00	107.60	110.80
1	2	1525	G	C8-N9-C4	-8.00	103.20	106.40
36	1	146	U	OP1-P-OP2	-8.00	107.60	119.60
36	1	742	G	C4-C5-N7	8.00	114.00	110.80
36	1	914	A	C4-C5-C6	8.00	121.00	117.00
37	3	42	A	C5-C6-N1	-8.00	113.70	117.70
80	6	297	U	C6-N1-C2	-8.00	116.20	121.00
80	6	466	U	C6-N1-C2	-8.00	116.20	121.00
85	5	890	C	N3-C4-C5	-8.00	118.70	121.90
85	5	1567	U	C5-C6-N1	8.00	126.70	122.70
85	5	2848	G	N3-C4-N9	-8.00	121.20	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2800	G	N1-C2-N3	8.00	128.70	123.90
36	1	2970	C	N3-C4-C5	8.00	125.10	121.90
37	3	91	G	C5-C6-O6	-8.00	123.80	128.60
80	6	896	U	N3-C2-O2	-8.00	116.60	122.20
80	6	1156	C	C6-N1-C2	-8.00	117.10	120.30
85	5	1009	A	C5-N7-C8	-8.00	99.90	103.90
85	5	1465	A	N1-C2-N3	8.00	133.30	129.30
85	5	2572	C	C2-N3-C4	8.00	123.90	119.90
85	5	2983	C	OP1-P-OP2	8.00	131.60	119.60
85	5	3232	G	N1-C6-O6	8.00	124.70	119.90
1	2	1185	A	C8-N9-C4	-8.00	102.60	105.80
36	1	538	G	C5-C6-N1	-8.00	107.50	111.50
36	1	1855	U	C5-C4-O4	8.00	130.70	125.90
36	1	2200	U	C5-C6-N1	-8.00	118.70	122.70
36	1	2291	A	N3-C4-C5	-8.00	121.20	126.80
36	1	2422	C	C2-N3-C4	8.00	123.90	119.90
36	1	2682	C	C6-N1-C2	8.00	123.50	120.30
36	1	3138	U	C5-C4-O4	-8.00	121.10	125.90
36	1	3177	G	O5'-P-OP2	-8.00	98.50	105.70
85	5	680	G	O5'-P-OP2	-8.00	98.50	105.70
85	5	870	G	C5-C6-O6	8.00	133.40	128.60
85	5	1928	G	N7-C8-N9	8.00	117.10	113.10
85	5	3127	A	C6-N1-C2	-8.00	113.80	118.60
80	6	206	A	N7-C8-N9	8.00	117.80	113.80
80	6	1638	G	C4-C5-N7	8.00	114.00	110.80
36	1	2807	U	C5-C4-O4	-7.99	121.10	125.90
80	6	523	G	N3-C4-N9	7.99	130.80	126.00
85	5	769	G	C5-C6-O6	-7.99	123.80	128.60
85	5	1202	A	N9-C4-C5	7.99	109.00	105.80
85	5	1582	C	O4'-C1'-N1	7.99	114.59	108.20
1	2	391	A	C4-C5-C6	-7.99	113.00	117.00
1	2	1593	G	C6-N1-C2	-7.99	120.31	125.10
36	1	644	G	N3-C4-N9	-7.99	121.20	126.00
36	1	934	G	C5-C6-O6	-7.99	123.81	128.60
36	1	1487	G	C5-C6-N1	7.99	115.50	111.50
36	1	3271	G	C4-C5-N7	-7.99	107.60	110.80
80	6	154	G	C2-N3-C4	7.99	115.90	111.90
80	6	777	C	C4-C5-C6	7.99	121.40	117.40
80	6	1112	G	N1-C2-N2	-7.99	109.01	116.20
80	6	1634	C	C2-N3-C4	7.99	123.90	119.90
85	5	343	U	C6-N1-C2	-7.99	116.20	121.00
85	5	968	G	N9-C4-C5	-7.99	102.20	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2685	C	OP2-P-O3'	7.99	122.78	105.20
1	2	962	A	N1-C6-N6	-7.99	113.81	118.60
1	2	1764	A	N9-C4-C5	7.99	109.00	105.80
36	1	510	G	C4-C5-C6	7.99	123.59	118.80
36	1	567	G	C8-N9-C4	-7.99	103.20	106.40
36	1	609	G	C6-N1-C2	-7.99	120.31	125.10
36	1	866	A	O5'-P-OP2	-7.99	98.51	105.70
36	1	971	G	OP2-P-O3'	7.99	122.78	105.20
38	4	58	G	C2-N3-C4	-7.99	107.91	111.90
80	6	1070	C	N1-C2-O2	-7.99	114.11	118.90
80	6	1743	U	N1-C2-N3	7.99	119.69	114.90
85	5	1628	C	N3-C2-O2	-7.99	116.31	121.90
85	5	1800	A	N1-C6-N6	-7.99	113.81	118.60
85	5	2315	G	C5-N7-C8	-7.99	100.30	104.30
37	7	21	G	N7-C8-N9	7.99	117.09	113.10
1	2	389	G	C5-C6-O6	7.99	133.39	128.60
1	2	981	A	C5-C6-N1	-7.99	113.71	117.70
36	1	57	A	C5-N7-C8	-7.99	99.91	103.90
36	1	500	C	O5'-P-OP1	-7.99	98.51	105.70
36	1	2914	G	C8-N9-C4	7.99	109.59	106.40
80	6	1617	U	N1-C2-O2	-7.99	117.21	122.80
85	5	1346	G	N7-C8-N9	7.99	117.09	113.10
85	5	1908	A	N3-C4-C5	-7.99	121.21	126.80
36	1	1196	C	O5'-P-OP2	7.99	120.28	110.70
80	6	426	G	C4-C5-N7	-7.99	107.61	110.80
85	5	916	G	N1-C2-N3	7.99	128.69	123.90
85	5	1404	G	C4-C5-C6	7.99	123.59	118.80
85	5	1788	C	N3-C4-N4	7.99	123.59	118.00
1	2	1065	C	C4-C5-C6	7.99	121.39	117.40
36	1	575	G	N9-C4-C5	7.99	108.59	105.40
36	1	638	C	N1-C2-O2	7.99	123.69	118.90
36	1	1826	C	OP1-P-OP2	-7.99	107.62	119.60
36	1	2613	U	O5'-P-OP1	-7.99	98.51	105.70
36	1	3259	U	OP1-P-OP2	7.99	131.58	119.60
80	6	995	A	O5'-P-OP1	-7.99	98.51	105.70
80	6	1028	C	N1-C2-O2	-7.99	114.11	118.90
80	6	1153	G	C2-N3-C4	-7.99	107.91	111.90
85	5	340	C	C5-C4-N4	-7.99	114.61	120.20
85	5	1381	A	C5-C6-N1	-7.99	113.71	117.70
85	5	1391	C	C2-N3-C4	-7.99	115.91	119.90
85	5	1598	G	C4-C5-C6	-7.99	114.01	118.80
85	5	1949	G	C2-N3-C4	7.99	115.89	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2856	G	OP1-P-OP2	7.99	131.58	119.60
85	5	3088	G	OP1-P-OP2	-7.99	107.62	119.60
38	8	77	A	N7-C8-N9	-7.99	109.81	113.80
36	1	2704	A	C4-C5-C6	7.98	120.99	117.00
80	6	651	G	N3-C4-C5	7.98	132.59	128.60
85	5	943	U	C6-N1-C2	-7.98	116.21	121.00
1	2	479	C	N3-C4-N4	-7.98	112.41	118.00
36	1	344	A	N1-C6-N6	-7.98	113.81	118.60
36	1	951	A	N1-C6-N6	7.98	123.39	118.60
80	6	1101	G	C5-C6-N1	-7.98	107.51	111.50
85	5	695	C	N3-C4-C5	-7.98	118.71	121.90
85	5	1546	A	C4-C5-N7	7.98	114.69	110.70
85	5	2964	G	C6-N1-C2	-7.98	120.31	125.10
36	1	395	A	OP1-P-OP2	7.98	131.57	119.60
36	1	2755	C	OP2-P-O3'	7.98	122.76	105.20
36	1	2853	A	C5-N7-C8	-7.98	99.91	103.90
36	1	3328	G	N7-C8-N9	7.98	117.09	113.10
41	L4	138	ARG	NE-CZ-NH1	-7.98	116.31	120.30
85	5	82	C	OP1-P-OP2	7.98	131.57	119.60
85	5	775	A	O5'-P-OP2	7.98	120.28	110.70
85	5	959	C	C5-C4-N4	7.98	125.79	120.20
85	5	2927	C	N3-C4-N4	7.98	123.59	118.00
85	5	2946	A	N1-C2-N3	7.98	133.29	129.30
85	5	3112	G	N7-C8-N9	7.98	117.09	113.10
37	7	88	G	C4-C5-N7	-7.98	107.61	110.80
36	1	2369	G	N9-C4-C5	7.98	108.59	105.40
36	1	2725	U	C4-C5-C6	7.98	124.49	119.70
85	5	1521	G	C5-C6-N1	7.98	115.49	111.50
36	1	354	U	C2-N1-C1'	7.98	127.27	117.70
36	1	365	A	N1-C6-N6	-7.98	113.81	118.60
36	1	2874	G	C6-C5-N7	-7.98	125.61	130.40
36	1	2911	A	C2-N3-C4	-7.98	106.61	110.60
80	6	402	C	N3-C2-O2	-7.98	116.32	121.90
80	6	1112	G	C5-C6-O6	7.98	133.39	128.60
80	6	1747	G	C5-C6-N1	7.98	115.49	111.50
85	5	1037	C	C2-N3-C4	-7.98	115.91	119.90
85	5	2234	G	C2-N3-C4	-7.98	107.91	111.90
85	5	2831	G	N1-C2-N3	7.98	128.69	123.90
85	5	2942	C	C2-N3-C4	7.98	123.89	119.90
85	5	3101	G	N7-C8-N9	-7.98	109.11	113.10
36	1	2896	A	N3-C4-C5	7.98	132.38	126.80
85	5	36	C	N1-C2-N3	7.98	124.78	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2576	G	N3-C4-C5	7.98	132.59	128.60
85	5	2638	C	N3-C4-N4	7.98	123.58	118.00
85	5	2796	G	C5-C6-N1	7.98	115.49	111.50
38	8	82	U	N1-C2-O2	-7.98	117.22	122.80
1	2	809	U	N3-C4-O4	7.97	124.98	119.40
1	2	1351	G	C5-C6-O6	-7.97	123.81	128.60
1	2	1771	G	C5-C6-O6	7.97	133.38	128.60
36	1	102	C	O5'-P-OP1	7.97	120.27	110.70
36	1	1169	A	C5-N7-C8	7.97	107.89	103.90
36	1	2428	U	N1-C2-O2	-7.97	117.22	122.80
36	1	2433	U	N1-C2-O2	7.97	128.38	122.80
36	1	2706	G	C5-N7-C8	-7.97	100.31	104.30
36	1	2758	A	O5'-P-OP1	-7.97	98.52	105.70
36	1	3037	U	N3-C4-C5	-7.97	109.81	114.60
38	4	79	A	C5-C6-N6	7.97	130.08	123.70
85	5	737	G	C5-C6-O6	7.97	133.38	128.60
85	5	1457	U	O5'-P-OP2	7.97	120.27	110.70
85	5	2607	G	O5'-P-OP2	-7.97	98.52	105.70
85	5	2985	C	C6-N1-C2	-7.97	117.11	120.30
38	8	142	C	N1-C2-O2	-7.97	114.11	118.90
36	1	319	A	C4-C5-N7	-7.97	106.71	110.70
36	1	963	G	O5'-P-OP1	7.97	120.27	110.70
80	6	136	C	C2-N3-C4	7.97	123.89	119.90
80	6	862	A	N1-C6-N6	7.97	123.38	118.60
85	5	152	U	OP1-P-OP2	-7.97	107.64	119.60
85	5	216	G	C8-N9-C4	7.97	109.59	106.40
85	5	631	U	N3-C4-C5	-7.97	109.82	114.60
85	5	945	C	O5'-P-OP1	-7.97	98.52	105.70
85	5	980	A	C2-N3-C4	7.97	114.59	110.60
85	5	1295	G	OP1-P-OP2	-7.97	107.64	119.60
85	5	2323	G	C8-N9-C4	-7.97	103.21	106.40
37	7	76	A	N3-C4-C5	7.97	132.38	126.80
36	1	964	G	N3-C2-N2	-7.97	114.32	119.90
36	1	2265	C	C6-N1-C2	-7.97	117.11	120.30
36	1	2391	G	O5'-P-OP1	7.97	120.27	110.70
85	5	1401	A	N1-C6-N6	7.97	123.38	118.60
85	5	1742	U	C2-N3-C4	7.97	131.78	127.00
1	2	47	A	C5-N7-C8	-7.97	99.92	103.90
1	2	1263	C	N1-C2-O2	-7.97	114.12	118.90
36	1	711	A	C6-C5-N7	7.97	137.88	132.30
36	1	1291	A	C5-N7-C8	-7.97	99.92	103.90
36	1	1683	A	C4-C5-N7	7.97	114.69	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2172	A	C5-N7-C8	-7.97	99.92	103.90
38	4	140	G	C4-C5-C6	7.97	123.58	118.80
80	6	763	G	C2-N3-C4	-7.97	107.92	111.90
85	5	131	C	N3-C2-O2	-7.97	116.32	121.90
85	5	1526	U	C4-C5-C6	7.97	124.48	119.70
38	8	88	A	N1-C2-N3	7.97	133.28	129.30
1	2	1169	U	OP1-P-OP2	7.97	131.55	119.60
36	1	1473	G	C5-C6-O6	-7.97	123.82	128.60
36	1	2824	G	N3-C2-N2	-7.97	114.32	119.90
38	4	2	A	N7-C8-N9	7.97	117.78	113.80
80	6	347	G	C6-N1-C2	7.97	129.88	125.10
80	6	530	C	C6-N1-C2	7.97	123.49	120.30
80	6	1299	G	N1-C6-O6	7.97	124.68	119.90
85	5	1661	G	N3-C4-N9	-7.97	121.22	126.00
85	5	2734	A	C5-C6-N1	-7.97	113.72	117.70
85	5	2889	C	OP1-P-OP2	-7.97	107.65	119.60
36	1	58	G	O5'-P-OP2	7.97	120.26	110.70
36	1	1904	C	N1-C2-N3	7.97	124.78	119.20
36	1	2388	U	OP1-P-OP2	-7.97	107.65	119.60
36	1	2710	C	C6-N1-C2	7.97	123.49	120.30
80	6	805	U	C6-N1-C2	-7.97	116.22	121.00
80	6	1317	C	C4-C5-C6	-7.97	113.42	117.40
85	5	39	A	N7-C8-N9	7.97	117.78	113.80
85	5	869	G	C5-C6-O6	7.97	133.38	128.60
85	5	1943	C	N3-C4-N4	7.97	123.58	118.00
85	5	3091	A	N9-C4-C5	7.97	108.99	105.80
85	5	3252	G	C2-N3-C4	-7.97	107.92	111.90
36	1	1311	G	C6-N1-C2	-7.96	120.32	125.10
36	1	1586	G	C6-C5-N7	-7.96	125.62	130.40
36	1	1905	G	O5'-P-OP2	-7.96	98.53	105.70
36	1	2730	G	N1-C2-N3	7.96	128.68	123.90
36	1	2787	G	C5-C6-O6	-7.96	123.82	128.60
36	1	3156	U	C6-N1-C2	7.96	125.78	121.00
80	6	364	G	N1-C2-N2	-7.96	109.03	116.20
85	5	230	U	C6-N1-C2	-7.96	116.22	121.00
85	5	708	G	C4-C5-C6	7.96	123.58	118.80
85	5	3307	A	O5'-P-OP2	-7.96	98.53	105.70
1	2	827	A	C4-C5-N7	7.96	114.68	110.70
36	1	1336	U	N1-C2-N3	7.96	119.68	114.90
36	1	2939	G	N1-C2-N2	-7.96	109.03	116.20
36	1	2954	U	C5-C4-O4	-7.96	121.12	125.90
85	5	3392	U	C5-C6-N1	-7.96	118.72	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	114	A	OP1-P-OP2	7.96	131.54	119.60
36	1	1624	G	OP1-P-OP2	7.96	131.54	119.60
80	6	475	A	N9-C4-C5	7.96	108.98	105.80
80	6	1749	A	N1-C2-N3	7.96	133.28	129.30
85	5	1251	A	N7-C8-N9	7.96	117.78	113.80
85	5	2099	A	N1-C2-N3	-7.96	125.32	129.30
85	5	2136	C	N3-C2-O2	-7.96	116.33	121.90
85	5	3140	G	N1-C6-O6	-7.96	115.12	119.90
80	6	1486	G	C5-C6-O6	-7.96	123.82	128.60
85	5	1829	G	C2-N3-C4	-7.96	107.92	111.90
85	5	3190	C	C2-N1-C1'	7.96	127.56	118.80
38	8	75	G	N9-C4-C5	7.96	108.58	105.40
36	1	232	G	N1-C2-N3	7.96	128.68	123.90
36	1	925	A	O5'-P-OP1	-7.96	98.54	105.70
36	1	1369	A	N1-C2-N3	7.96	133.28	129.30
36	1	2200	U	C2-N3-C4	-7.96	122.22	127.00
36	1	2877	G	C8-N9-C4	-7.96	103.22	106.40
1	2	1069	A	C8-N9-C4	-7.96	102.62	105.80
36	1	1783	U	C5-C4-O4	7.96	130.67	125.90
36	1	2117	A	C5-N7-C8	7.96	107.88	103.90
80	6	770	A	N7-C8-N9	-7.96	109.82	113.80
80	6	1328	G	N1-C6-O6	-7.96	115.13	119.90
85	5	388	G	N3-C4-C5	7.96	132.58	128.60
85	5	500	C	N3-C4-N4	-7.96	112.43	118.00
85	5	1035	G	C6-N1-C2	-7.96	120.33	125.10
85	5	1375	G	C5-C6-O6	7.96	133.37	128.60
85	5	2906	C	C6-N1-C2	7.96	123.48	120.30
85	5	3187	A	O4'-C1'-N9	-7.96	101.83	108.20
37	7	60	G	C2-N3-C4	7.96	115.88	111.90
37	7	82	G	N7-C8-N9	7.96	117.08	113.10
38	8	2	A	N7-C8-N9	7.96	117.78	113.80
38	8	95	G	C8-N9-C4	7.96	109.58	106.40
36	1	1482	A	N1-C6-N6	-7.96	113.83	118.60
85	5	1109	U	OP1-P-OP2	7.96	131.53	119.60
36	1	649	A	C5-C6-N1	7.95	121.68	117.70
36	1	1443	G	N1-C6-O6	7.95	124.67	119.90
36	1	1474	A	C2-N3-C4	-7.95	106.62	110.60
36	1	1879	A	N1-C2-N3	7.95	133.28	129.30
80	6	215	A	N7-C8-N9	7.95	117.78	113.80
85	5	916	G	C6-N1-C2	-7.95	120.33	125.10
85	5	1426	C	N3-C4-N4	7.95	123.57	118.00
85	5	1483	G	C8-N9-C4	-7.95	103.22	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1883	A	OP1-P-OP2	-7.95	107.67	119.60
38	8	15	G	C4-C5-N7	-7.95	107.62	110.80
36	1	1653	G	N1-C6-O6	7.95	124.67	119.90
36	1	2118	C	C5-C6-N1	-7.95	117.02	121.00
85	5	137	G	C5-C6-N1	-7.95	107.52	111.50
85	5	1100	U	O5'-P-OP2	-7.95	98.54	105.70
85	5	1373	A	C5-N7-C8	-7.95	99.92	103.90
36	1	339	C	N3-C4-N4	-7.95	112.44	118.00
36	1	555	U	N1-C2-N3	7.95	119.67	114.90
36	1	719	U	N3-C4-O4	7.95	124.97	119.40
36	1	892	U	O5'-P-OP2	-7.95	98.55	105.70
36	1	1905	G	C8-N9-C4	-7.95	103.22	106.40
36	1	2167	A	C5-C6-N1	-7.95	113.72	117.70
38	4	109	A	C5-N7-C8	-7.95	99.92	103.90
85	5	412	G	C4-C5-N7	-7.95	107.62	110.80
85	5	630	A	C4-C5-N7	-7.95	106.72	110.70
85	5	821	U	N1-C2-N3	7.95	119.67	114.90
85	5	1809	A	C4-C5-C6	7.95	120.97	117.00
85	5	2787	G	N1-C6-O6	7.95	124.67	119.90
38	8	42	G	N3-C4-C5	7.95	132.58	128.60
36	1	140	C	C4-C5-C6	-7.95	113.43	117.40
36	1	970	A	N9-C4-C5	7.95	108.98	105.80
36	1	1135	A	C8-N9-C4	-7.95	102.62	105.80
36	1	1678	G	C6-C5-N7	-7.95	125.63	130.40
37	3	13	A	N1-C6-N6	7.95	123.37	118.60
85	5	681	U	C4-C5-C6	7.95	124.47	119.70
85	5	2879	C	OP1-P-OP2	-7.95	107.68	119.60
85	5	3012	A	OP2-P-O3'	7.95	122.69	105.20
36	1	1366	A	N7-C8-N9	7.95	117.77	113.80
36	1	1639	C	N1-C2-O2	-7.95	114.13	118.90
36	1	2243	A	N1-C2-N3	7.95	133.27	129.30
85	5	1932	A	C2-N3-C4	-7.95	106.63	110.60
1	2	90	C	C4-C5-C6	7.95	121.37	117.40
1	2	445	A	N1-C2-N3	-7.95	125.33	129.30
36	1	2646	C	N1-C2-N3	7.95	124.76	119.20
38	4	31	G	N1-C6-O6	7.95	124.67	119.90
38	4	50	C	N1-C2-O2	-7.95	114.13	118.90
85	5	641	C	N3-C4-C5	-7.95	118.72	121.90
85	5	669	U	N3-C4-O4	-7.95	113.84	119.40
85	5	1246	G	C5-N7-C8	-7.95	100.33	104.30
85	5	1349	G	N9-C4-C5	-7.95	102.22	105.40
85	5	1657	C	C6-N1-C2	7.95	123.48	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1774	C	N3-C2-O2	-7.95	116.34	121.90
85	5	3195	U	N1-C2-O2	7.95	128.36	122.80
37	7	29	C	C5-C6-N1	-7.95	117.03	121.00
38	8	135	G	N1-C6-O6	-7.95	115.13	119.90
1	2	1121	A	N9-C4-C5	7.94	108.98	105.80
1	2	1409	C	C2-N3-C4	7.94	123.87	119.90
85	5	984	G	N1-C2-N3	7.94	128.67	123.90
36	1	1376	C	C6-N1-C2	-7.94	117.12	120.30
36	1	1696	A	N1-C2-N3	7.94	133.27	129.30
36	1	2332	A	O5'-P-OP1	-7.94	98.55	105.70
36	1	2697	A	C6-N1-C2	-7.94	113.83	118.60
36	1	3134	A	O5'-P-OP1	7.94	120.23	110.70
38	4	11	C	C4-C5-C6	-7.94	113.43	117.40
80	6	931	C	C5-C4-N4	-7.94	114.64	120.20
85	5	30	G	N9-C4-C5	-7.94	102.22	105.40
85	5	231	G	C8-N9-C4	-7.94	103.22	106.40
85	5	1447	G	C2-N3-C4	7.94	115.87	111.90
85	5	2173	U	N3-C2-O2	-7.94	116.64	122.20
85	5	2362	C	O5'-P-OP2	-7.94	98.55	105.70
85	5	2731	U	OP1-P-O3'	-7.94	87.73	105.20
1	2	16	G	N3-C4-N9	7.94	130.76	126.00
36	1	628	A	N1-C2-N3	7.94	133.27	129.30
36	1	986	U	C4-C5-C6	-7.94	114.94	119.70
36	1	989	A	C4-C5-C6	-7.94	113.03	117.00
36	1	1227	C	N3-C4-C5	7.94	125.08	121.90
36	1	1309	U	O5'-P-OP1	-7.94	98.55	105.70
36	1	1410	U	N3-C4-C5	7.94	119.36	114.60
36	1	3315	G	C5-C6-N1	-7.94	107.53	111.50
85	5	376	G	C5-N7-C8	-7.94	100.33	104.30
85	5	920	A	C5-C6-N1	7.94	121.67	117.70
85	5	1490	A	C5-N7-C8	-7.94	99.93	103.90
85	5	2154	U	OP1-P-OP2	7.94	131.51	119.60
85	5	2280	A	N9-C4-C5	7.94	108.98	105.80
85	5	3088	G	N3-C2-N2	-7.94	114.34	119.90
85	5	3302	U	C5-C6-N1	-7.94	118.73	122.70
36	1	1178	G	N1-C6-O6	-7.94	115.14	119.90
85	5	769	G	O5'-P-OP1	-7.94	98.56	105.70
85	5	1477	A	C8-N9-C4	-7.94	102.62	105.80
85	5	1496	C	C2-N1-C1'	7.94	127.53	118.80
85	5	1601	U	C6-N1-C2	-7.94	116.24	121.00
85	5	1924	U	N3-C4-C5	7.94	119.36	114.60
36	1	439	C	N1-C2-O2	7.94	123.66	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	925	A	C6-N1-C2	-7.94	113.84	118.60
36	1	946	U	C5-C6-N1	-7.94	118.73	122.70
36	1	1122	U	O5'-P-OP2	-7.94	98.56	105.70
36	1	2908	G	N1-C2-N2	-7.94	109.06	116.20
80	6	402	C	N3-C4-C5	7.94	125.08	121.90
80	6	638	U	C6-N1-C2	-7.94	116.24	121.00
80	6	757	A	C6-N1-C2	7.94	123.36	118.60
85	5	89	A	N1-C6-N6	7.94	123.36	118.60
85	5	816	A	C5-C6-N1	7.94	121.67	117.70
85	5	1442	U	OP1-P-O3'	7.94	122.66	105.20
85	5	2697	A	N1-C6-N6	-7.94	113.84	118.60
85	5	2759	U	N1-C2-O2	-7.94	117.24	122.80
36	1	1838	G	C5-C6-N1	7.94	115.47	111.50
36	1	2306	C	C4-C5-C6	-7.94	113.43	117.40
36	1	3249	C	C6-N1-C2	7.94	123.47	120.30
85	5	1840	U	OP1-P-OP2	7.94	131.50	119.60
85	5	1949	G	N1-C6-O6	7.94	124.66	119.90
85	5	2409	G	C5-C6-O6	7.94	133.36	128.60
36	1	881	C	O5'-P-OP1	-7.93	98.56	105.70
36	1	1860	G	N3-C2-N2	-7.93	114.35	119.90
36	1	2575	G	C5-C6-N1	-7.93	107.53	111.50
38	4	70	G	N3-C2-N2	7.93	125.45	119.90
80	6	800	U	C5-C6-N1	7.93	126.67	122.70
85	5	3384	U	N3-C4-C5	-7.93	109.84	114.60
36	1	159	A	N1-C2-N3	7.93	133.27	129.30
36	1	1769	G	N1-C6-O6	7.93	124.66	119.90
36	1	2781	U	C6-N1-C2	7.93	125.76	121.00
80	6	627	C	C6-N1-C2	-7.93	117.13	120.30
85	5	1183	C	N3-C4-C5	7.93	125.07	121.90
36	1	816	A	C2-N3-C4	7.93	114.56	110.60
36	1	2728	G	N1-C6-O6	-7.93	115.14	119.90
36	1	3021	A	C2-N3-C4	7.93	114.56	110.60
85	5	311	C	N3-C2-O2	-7.93	116.35	121.90
85	5	595	G	C5-C6-O6	7.93	133.36	128.60
85	5	759	U	N1-C2-O2	-7.93	117.25	122.80
85	5	872	U	C4-C5-C6	-7.93	114.94	119.70
36	1	48	A	C2-N3-C4	-7.93	106.64	110.60
36	1	673	U	C2-N3-C4	7.93	131.76	127.00
36	1	797	U	C5-C6-N1	-7.93	118.73	122.70
36	1	1350	A	O5'-P-OP2	7.93	120.22	110.70
36	1	1558	A	N1-C6-N6	-7.93	113.84	118.60
36	1	2729	U	N1-C2-N3	-7.93	110.14	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3143	C	N3-C4-N4	7.93	123.55	118.00
85	5	122	A	C5-C6-N6	7.93	130.04	123.70
85	5	1147	G	C4-C5-N7	-7.93	107.63	110.80
85	5	1539	A	OP1-P-O3'	7.93	122.64	105.20
85	5	1541	G	C2-N3-C4	7.93	115.86	111.90
85	5	1608	C	C2-N3-C4	7.93	123.86	119.90
85	5	1621	A	O5'-P-OP2	-7.93	98.56	105.70
85	5	1779	C	N3-C4-N4	-7.93	112.45	118.00
85	5	1793	C	C5-C6-N1	7.93	124.97	121.00
85	5	2112	U	N3-C4-C5	-7.93	109.84	114.60
1	2	1018	G	C5-C6-O6	7.93	133.36	128.60
36	1	984	G	C2-N3-C4	7.93	115.86	111.90
36	1	2174	G	C6-N1-C2	-7.93	120.34	125.10
56	N0	82	ASP	CB-CG-OD2	7.93	125.44	118.30
80	6	1164	G	N1-C6-O6	7.93	124.66	119.90
1	2	433	C	N3-C4-C5	-7.93	118.73	121.90
36	1	268	A	C8-N9-C4	-7.93	102.63	105.80
36	1	1318	A	N1-C6-N6	-7.93	113.84	118.60
36	1	1462	A	C8-N9-C4	-7.93	102.63	105.80
36	1	1593	A	N1-C6-N6	7.93	123.36	118.60
36	1	1808	G	N1-C6-O6	-7.93	115.14	119.90
36	1	1823	A	C5-C6-N1	-7.93	113.74	117.70
80	6	981	U	C4-C5-C6	7.93	124.46	119.70
85	5	1347	U	OP1-P-OP2	-7.93	107.71	119.60
85	5	1888	U	N1-C2-N3	7.93	119.66	114.90
85	5	2303	A	OP1-P-OP2	-7.93	107.71	119.60
85	5	2598	G	C6-C5-N7	-7.93	125.64	130.40
85	5	2751	G	C5-C6-O6	-7.93	123.84	128.60
85	5	2839	G	N1-C6-O6	7.93	124.66	119.90
85	5	3008	A	C5-C6-N6	7.93	130.04	123.70
37	7	93	C	C6-N1-C2	-7.93	117.13	120.30
36	1	606	C	N1-C2-O2	-7.92	114.14	118.90
36	1	622	A	C5-C6-N1	-7.92	113.74	117.70
36	1	1051	U	N3-C2-O2	7.92	127.75	122.20
36	1	1688	U	N3-C4-C5	-7.92	109.85	114.60
36	1	2847	A	C6-C5-N7	-7.92	126.75	132.30
80	6	462	G	C2-N3-C4	-7.92	107.94	111.90
80	6	465	G	C2-N3-C4	-7.92	107.94	111.90
80	6	478	A	N1-C6-N6	7.92	123.36	118.60
85	5	360	G	C4-C5-C6	7.92	123.55	118.80
85	5	416	A	C8-N9-C4	-7.92	102.63	105.80
85	5	421	G	N1-C2-N2	-7.92	109.07	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1393	A	N7-C8-N9	7.92	117.76	113.80
36	1	666	A	C5-C6-N1	7.92	121.66	117.70
36	1	2142	A	C4-C5-N7	-7.92	106.74	110.70
36	1	2297	U	C6-N1-C2	-7.92	116.25	121.00
36	1	2444	C	N1-C2-O2	7.92	123.65	118.90
36	1	2618	G	N9-C4-C5	7.92	108.57	105.40
1	2	347	G	N7-C8-N9	7.92	117.06	113.10
1	2	558	U	C5-C6-N1	7.92	126.66	122.70
36	1	380	U	C4-C5-C6	7.92	124.45	119.70
36	1	894	G	N1-C2-N2	-7.92	109.07	116.20
36	1	1162	U	C2-N3-C4	-7.92	122.25	127.00
36	1	1308	A	N3-C4-N9	-7.92	121.06	127.40
36	1	2207	A	O4'-C1'-N9	7.92	114.54	108.20
80	6	543	C	C6-N1-C2	-7.92	117.13	120.30
85	5	1350	A	OP1-P-OP2	7.92	131.48	119.60
85	5	1777	U	C6-N1-C2	-7.92	116.25	121.00
85	5	2104	A	N1-C2-N3	7.92	133.26	129.30
85	5	2116	G	C5-C6-O6	-7.92	123.85	128.60
85	5	2691	A	C8-N9-C4	-7.92	102.63	105.80
36	1	1612	A	N1-C6-N6	7.92	123.35	118.60
80	6	558	U	N1-C2-O2	7.92	128.34	122.80
85	5	903	U	N1-C2-N3	7.92	119.65	114.90
85	5	1492	G	N1-C6-O6	7.92	124.65	119.90
85	5	2177	G	C8-N9-C4	-7.92	103.23	106.40
85	5	3393	U	N1-C2-N3	7.92	119.65	114.90
38	8	70	G	C4-C5-C6	7.92	123.55	118.80
49	m3	101	ARG	NE-CZ-NH2	-7.92	116.34	120.30
1	2	845	A	N1-C6-N6	-7.92	113.85	118.60
36	1	209	A	C2-N3-C4	-7.92	106.64	110.60
36	1	345	G	N1-C2-N3	7.92	128.65	123.90
36	1	2937	G	C2-N3-C4	7.92	115.86	111.90
36	1	3188	G	N3-C4-N9	-7.92	121.25	126.00
85	5	1102	A	N7-C8-N9	7.92	117.76	113.80
85	5	2126	A	C2-N3-C4	-7.92	106.64	110.60
36	1	307	A	N3-C4-C5	-7.92	121.26	126.80
36	1	676	G	N9-C4-C5	7.92	108.57	105.40
36	1	2550	U	N1-C2-N3	7.92	119.65	114.90
36	1	2834	G	O5'-P-OP2	-7.92	98.58	105.70
36	1	2991	A	C6-N1-C2	7.92	123.35	118.60
38	4	52	A	C6-C5-N7	7.92	137.84	132.30
85	5	105	C	OP1-P-OP2	7.92	131.47	119.60
85	5	513	G	N1-C2-N3	7.92	128.65	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1152	G	N1-C2-N3	7.92	128.65	123.90
85	5	1204	A	OP2-P-O3'	7.92	122.61	105.20
1	2	836	G	C5-N7-C8	-7.92	100.34	104.30
1	2	981	A	C8-N9-C4	-7.92	102.63	105.80
36	1	884	A	C8-N9-C4	7.92	108.97	105.80
85	5	25	U	N1-C2-N3	7.92	119.65	114.90
85	5	911	C	N3-C4-N4	7.92	123.54	118.00
36	1	677	A	OP2-P-O3'	7.91	122.61	105.20
36	1	1309	U	C5-C6-N1	-7.91	118.74	122.70
36	1	1880	U	N3-C4-O4	7.91	124.94	119.40
36	1	2910	A	C8-N9-C4	7.91	108.97	105.80
36	1	3164	C	N3-C4-C5	7.91	125.06	121.90
80	6	1482	C	C6-N1-C2	7.91	123.47	120.30
85	5	60	A	C4-C5-C6	7.91	120.96	117.00
85	5	658	G	C5-C6-N1	-7.91	107.54	111.50
85	5	773	G	N3-C2-N2	-7.91	114.36	119.90
85	5	1111	U	C2-N3-C4	-7.91	122.25	127.00
85	5	1449	A	O5'-P-OP2	-7.91	98.58	105.70
85	5	1592	G	N3-C2-N2	-7.91	114.36	119.90
36	1	1441	G	N1-C2-N2	-7.91	109.08	116.20
80	6	801	G	C2-N3-C4	7.91	115.86	111.90
1	2	37	U	O5'-P-OP1	-7.91	98.58	105.70
1	2	299	A	N1-C2-N3	-7.91	125.34	129.30
1	2	388	G	N3-C2-N2	-7.91	114.36	119.90
1	2	441	A	N1-C6-N6	-7.91	113.85	118.60
1	2	1249	U	C6-N1-C2	-7.91	116.25	121.00
1	2	1331	A	C5-C6-N1	-7.91	113.75	117.70
36	1	1101	G	C5-N7-C8	7.91	108.25	104.30
36	1	1867	A	C2-N3-C4	-7.91	106.64	110.60
36	1	2308	C	N1-C2-O2	-7.91	114.15	118.90
36	1	2573	G	N1-C6-O6	-7.91	115.15	119.90
36	1	3136	G	OP1-P-OP2	-7.91	107.73	119.60
37	3	62	U	C5-C4-O4	-7.91	121.15	125.90
80	6	241	U	N3-C4-C5	-7.91	109.85	114.60
80	6	329	G	O5'-P-OP1	-7.91	98.58	105.70
80	6	1275	A	C8-N9-C4	7.91	108.96	105.80
85	5	197	G	N3-C4-N9	7.91	130.75	126.00
85	5	570	A	C6-N1-C2	-7.91	113.85	118.60
85	5	1167	U	C6-N1-C2	-7.91	116.25	121.00
85	5	3124	G	N1-C2-N3	7.91	128.65	123.90
1	2	1163	C	N3-C2-O2	-7.91	116.36	121.90
36	1	948	C	O5'-P-OP1	7.91	120.19	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3001	C	N3-C2-O2	7.91	127.44	121.90
80	6	996	U	C4-C5-C6	7.91	124.45	119.70
80	6	1300	A	C6-N1-C2	-7.91	113.86	118.60
80	6	1775	U	O5'-P-OP2	-7.91	98.58	105.70
85	5	2125	A	C5-N7-C8	-7.91	99.95	103.90
85	5	2157	G	C2-N3-C4	7.91	115.85	111.90
85	5	2750	U	N3-C4-O4	7.91	124.94	119.40
85	5	2812	C	C5-C6-N1	7.91	124.95	121.00
1	2	1109	G	C5-C6-O6	7.91	133.34	128.60
36	1	699	A	N1-C2-N3	7.91	133.25	129.30
36	1	920	A	C5-C6-N1	7.91	121.65	117.70
85	5	625	G	C4-C5-N7	-7.91	107.64	110.80
85	5	1757	A	N3-C4-C5	-7.91	121.27	126.80
85	5	2764	C	C5-C4-N4	-7.91	114.67	120.20
36	1	148	G	C5-N7-C8	7.91	108.25	104.30
36	1	367	A	C6-N1-C2	-7.91	113.86	118.60
36	1	2307	G	C5-C6-O6	7.91	133.34	128.60
36	1	2869	U	C5-C4-O4	-7.91	121.16	125.90
36	1	2960	C	C6-N1-C2	-7.91	117.14	120.30
36	1	2993	G	OP1-P-OP2	7.91	131.46	119.60
37	3	79	A	OP2-P-O3'	7.91	122.59	105.20
80	6	371	G	C6-C5-N7	-7.91	125.66	130.40
80	6	1704	U	C5-C6-N1	7.91	126.65	122.70
85	5	2286	U	N1-C2-N3	7.91	119.64	114.90
36	1	873	C	N1-C2-O2	-7.90	114.16	118.90
36	1	2730	G	C5-C6-N1	-7.90	107.55	111.50
85	5	3036	G	C2-N3-C4	-7.90	107.95	111.90
1	2	1203	C	C6-N1-C2	-7.90	117.14	120.30
1	2	1264	G	C5-C6-N1	-7.90	107.55	111.50
36	1	753	C	C4-C5-C6	-7.90	113.45	117.40
80	6	58	U	N1-C2-N3	7.90	119.64	114.90
80	6	1784	C	C2-N3-C4	-7.90	115.95	119.90
85	5	556	U	OP1-P-OP2	7.90	131.46	119.60
85	5	1206	G	C6-N1-C2	-7.90	120.36	125.10
85	5	2247	G	N3-C2-N2	-7.90	114.37	119.90
85	5	2951	G	C4-C5-N7	7.90	113.96	110.80
38	8	100	U	C5-C6-N1	7.90	126.65	122.70
36	1	143	G	N9-C4-C5	7.90	108.56	105.40
36	1	2132	C	N1-C2-O2	-7.90	114.16	118.90
36	1	2425	G	O5'-P-OP1	7.90	120.18	110.70
36	1	2738	A	N1-C2-N3	7.90	133.25	129.30
36	1	3096	C	C6-N1-C2	7.90	123.46	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1320	U	O5'-P-OP2	-7.90	98.59	105.70
80	6	1550	A	N7-C8-N9	7.90	117.75	113.80
80	6	1721	A	C8-N9-C4	-7.90	102.64	105.80
80	6	1795	U	N1-C2-O2	7.90	128.33	122.80
85	5	567	G	C5-C6-N1	-7.90	107.55	111.50
85	5	1423	C	OP1-P-OP2	7.90	131.45	119.60
85	5	1589	A	C5-C6-N6	-7.90	117.38	123.70
85	5	3222	U	C6-N1-C2	-7.90	116.26	121.00
36	1	1786	G	C5-C6-N1	7.90	115.45	111.50
36	1	3120	C	N3-C2-O2	7.90	127.43	121.90
38	4	51	G	C5-C6-O6	-7.90	123.86	128.60
80	6	1610	G	N1-C2-N2	-7.90	109.09	116.20
85	5	307	A	N1-C2-N3	7.90	133.25	129.30
36	1	2373	A	C8-N9-C4	-7.90	102.64	105.80
36	1	3106	A	N7-C8-N9	7.90	117.75	113.80
80	6	651	G	C8-N9-C4	7.90	109.56	106.40
80	6	781	U	N1-C2-N3	-7.90	110.16	114.90
85	5	634	C	C6-N1-C2	-7.90	117.14	120.30
85	5	685	G	C8-N9-C4	7.90	109.56	106.40
85	5	2705	A	C5-C6-N6	-7.90	117.38	123.70
85	5	2765	C	OP2-P-O3'	7.90	122.57	105.20
36	1	3129	A	C5-C6-N6	-7.90	117.38	123.70
36	1	3312	U	N3-C2-O2	7.90	127.73	122.20
37	3	48	U	N1-C2-O2	7.90	128.33	122.80
85	5	413	U	N3-C4-C5	-7.90	109.86	114.60
85	5	1558	A	N1-C6-N6	-7.90	113.86	118.60
85	5	3098	G	C5-C6-N1	7.90	115.45	111.50
85	5	3117	C	C6-N1-C2	7.90	123.46	120.30
36	1	317	A	N1-C6-N6	-7.89	113.86	118.60
36	1	570	A	C5-C6-N1	7.89	121.65	117.70
36	1	795	G	C5-C6-N1	-7.89	107.55	111.50
36	1	1515	A	C4-C5-C6	7.89	120.95	117.00
36	1	2175	U	OP2-P-O3'	7.89	122.57	105.20
85	5	319	A	C4-C5-C6	7.89	120.95	117.00
85	5	898	U	O5'-P-OP1	7.89	120.17	110.70
85	5	3182	G	N1-C2-N3	7.89	128.64	123.90
36	1	2302	G	C5-C6-N1	7.89	115.45	111.50
72	O6	70	ARG	NE-CZ-NH1	7.89	124.25	120.30
80	6	1209	C	C5-C6-N1	7.89	124.95	121.00
80	6	1751	C	C5-C6-N1	-7.89	117.05	121.00
85	5	89	A	C4-C5-N7	7.89	114.65	110.70
85	5	437	G	C6-C5-N7	7.89	135.13	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	667	C	OP1-P-OP2	-7.89	107.76	119.60
85	5	1167	U	C2-N3-C4	-7.89	122.26	127.00
85	5	2833	A	O5'-P-OP1	-7.89	98.60	105.70
85	5	3328	G	N3-C4-C5	-7.89	124.65	128.60
59	n3	88	ARG	NE-CZ-NH1	7.89	124.25	120.30
1	2	1719	G	C2-N3-C4	-7.89	107.95	111.90
36	1	98	G	C5-N7-C8	-7.89	100.36	104.30
37	3	34	C	N3-C2-O2	7.89	127.42	121.90
80	6	926	A	O5'-P-OP1	-7.89	98.60	105.70
85	5	2791	G	C5-C6-N1	7.89	115.45	111.50
38	8	94	C	C6-N1-C2	-7.89	117.14	120.30
1	2	940	G	N1-C6-O6	7.89	124.63	119.90
36	1	547	G	N1-C2-N3	-7.89	119.17	123.90
36	1	2407	C	N3-C4-N4	7.89	123.52	118.00
38	4	147	U	N3-C4-C5	-7.89	109.87	114.60
80	6	980	G	C5-C6-N1	7.89	115.44	111.50
80	6	1070	C	C5-C6-N1	7.89	124.94	121.00
85	5	182	U	O5'-P-OP1	7.89	120.17	110.70
85	5	282	G	N1-C2-N3	7.89	128.63	123.90
85	5	787	G	OP1-P-OP2	7.89	131.43	119.60
85	5	893	C	C4-C5-C6	7.89	121.34	117.40
37	7	49	G	C6-C5-N7	-7.89	125.67	130.40
36	1	26	A	OP1-P-OP2	-7.89	107.77	119.60
36	1	860	G	C5-C6-O6	-7.89	123.87	128.60
37	3	95	A	OP2-P-O3'	7.89	122.55	105.20
85	5	797	U	N1-C2-N3	7.89	119.63	114.90
85	5	3147	G	N1-C6-O6	7.89	124.63	119.90
85	5	3208	G	O5'-P-OP1	-7.89	98.60	105.70
36	1	228	U	N1-C2-O2	7.89	128.32	122.80
36	1	1930	A	N7-C8-N9	7.89	117.74	113.80
36	1	3170	A	N7-C8-N9	7.89	117.74	113.80
80	6	93	A	O5'-P-OP2	-7.89	98.60	105.70
80	6	453	U	C5-C6-N1	7.89	126.64	122.70
85	5	1176	C	C4-C5-C6	-7.89	113.46	117.40
85	5	1866	C	O5'-P-OP2	-7.89	98.60	105.70
85	5	2656	A	N3-C4-C5	7.89	132.32	126.80
85	5	3096	C	O5'-P-OP1	-7.89	98.60	105.70
85	5	3107	U	OP1-P-OP2	-7.89	107.77	119.60
85	5	3176	G	N1-C6-O6	-7.89	115.17	119.90
1	2	785	G	N7-C8-N9	7.88	117.04	113.10
1	2	1067	A	N1-C6-N6	7.88	123.33	118.60
36	1	180	C	N1-C2-N3	-7.88	113.68	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1132	C	N3-C2-O2	-7.88	116.38	121.90
36	1	2439	A	C5-C6-N1	-7.88	113.76	117.70
36	1	3378	C	C4-C5-C6	7.88	121.34	117.40
38	4	14	C	N3-C4-C5	7.88	125.05	121.90
80	6	97	C	N3-C4-C5	-7.88	118.75	121.90
85	5	91	G	C8-N9-C4	-7.88	103.25	106.40
85	5	119	U	N3-C4-O4	-7.88	113.88	119.40
85	5	679	U	N1-C2-O2	-7.88	117.28	122.80
85	5	1360	C	C6-N1-C2	7.88	123.45	120.30
85	5	1362	G	N3-C2-N2	7.88	125.42	119.90
85	5	1392	G	C6-N1-C2	-7.88	120.37	125.10
85	5	1718	G	N3-C4-C5	7.88	132.54	128.60
85	5	1920	U	O5'-P-OP1	-7.88	98.61	105.70
61	n5	57	LEU	CB-CG-CD2	-7.88	97.60	111.00
1	2	685	G	C6-C5-N7	-7.88	125.67	130.40
36	1	641	C	OP1-P-OP2	-7.88	107.78	119.60
36	1	2413	A	OP1-P-O3'	7.88	122.54	105.20
1	2	538	A	N1-C2-N3	-7.88	125.36	129.30
1	2	836	G	C6-C5-N7	-7.88	125.67	130.40
36	1	62	A	O5'-P-OP2	-7.88	98.61	105.70
36	1	1380	G	C8-N9-C4	7.88	109.55	106.40
36	1	1513	G	N3-C4-C5	-7.88	124.66	128.60
36	1	1583	A	OP1-P-OP2	-7.88	107.78	119.60
36	1	3365	U	C4-C5-C6	7.88	124.43	119.70
80	6	96	G	N7-C8-N9	7.88	117.04	113.10
85	5	49	A	C4-C5-N7	7.88	114.64	110.70
85	5	192	C	N3-C4-N4	7.88	123.52	118.00
85	5	840	C	N3-C4-N4	7.88	123.52	118.00
85	5	3019	U	C5-C6-N1	7.88	126.64	122.70
85	5	3044	G	N1-C6-O6	7.88	124.63	119.90
36	1	2238	G	C4-C5-N7	7.88	113.95	110.80
38	4	75	G	O5'-P-OP1	-7.88	98.61	105.70
85	5	3056	U	N1-C2-N3	7.88	119.63	114.90
1	2	199	G	C8-N9-C4	7.88	109.55	106.40
36	1	32	U	N1-C2-N3	7.88	119.63	114.90
36	1	387	A	N1-C2-N3	7.88	133.24	129.30
36	1	1610	G	N1-C2-N3	7.88	128.63	123.90
36	1	1742	U	N3-C4-O4	7.88	124.92	119.40
36	1	3300	U	C5-C4-O4	7.88	130.63	125.90
85	5	678	G	C4-C5-C6	7.88	123.53	118.80
85	5	963	G	N9-C4-C5	7.88	108.55	105.40
85	5	1042	U	OP2-P-O3'	7.88	122.53	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2222	A	C5-N7-C8	-7.88	99.96	103.90
36	1	2880	U	C4-C5-C6	7.88	124.43	119.70
85	5	889	U	O5'-P-OP1	7.88	120.15	110.70
85	5	2753	G	OP1-P-OP2	7.88	131.41	119.60
38	8	22	U	N3-C4-C5	7.88	119.33	114.60
38	8	66	A	N7-C8-N9	7.88	117.74	113.80
39	12	21	ARG	NE-CZ-NH1	-7.88	116.36	120.30
36	1	651	G	N7-C8-N9	-7.88	109.16	113.10
37	3	91	G	N9-C4-C5	7.88	108.55	105.40
80	6	437	A	N1-C2-N3	7.88	133.24	129.30
85	5	939	U	N3-C2-O2	7.88	127.71	122.20
85	5	955	U	N3-C4-C5	7.88	119.33	114.60
85	5	3258	U	C5-C4-O4	-7.88	121.17	125.90
36	1	1909	A	C5-C6-N6	7.87	130.00	123.70
36	1	2298	U	O4'-C1'-N1	7.87	114.50	108.20
80	6	388	G	N1-C2-N3	7.87	128.62	123.90
85	5	609	G	OP1-P-OP2	7.87	131.41	119.60
85	5	1184	A	O5'-P-OP2	-7.87	98.61	105.70
85	5	1429	G	C4-C5-N7	7.87	113.95	110.80
85	5	2242	A	C5-C6-N1	7.87	121.64	117.70
85	5	2863	G	OP2-P-O3'	-7.87	87.88	105.20
1	2	942	U	O5'-P-OP2	-7.87	98.62	105.70
1	2	1711	A	C8-N9-C4	7.87	108.95	105.80
36	1	720	A	N1-C6-N6	-7.87	113.88	118.60
36	1	1654	A	C4-C5-C6	7.87	120.94	117.00
36	1	2423	U	C5-C6-N1	-7.87	118.76	122.70
36	1	2881	C	OP2-P-O3'	7.87	122.52	105.20
36	1	3315	G	C8-N9-C4	7.87	109.55	106.40
38	4	64	U	C6-N1-C2	-7.87	116.28	121.00
80	6	211	U	N3-C4-O4	-7.87	113.89	119.40
80	6	872	G	C8-N9-C4	7.87	109.55	106.40
80	6	1630	U	O5'-P-OP2	-7.87	98.62	105.70
85	5	355	A	C4-C5-C6	7.87	120.94	117.00
85	5	612	U	OP2-P-O3'	7.87	122.52	105.20
85	5	1016	C	C4-C5-C6	-7.87	113.47	117.40
85	5	1186	G	O5'-P-OP1	7.87	120.15	110.70
85	5	1511	U	C5-C6-N1	-7.87	118.76	122.70
85	5	1846	C	C6-N1-C2	7.87	123.45	120.30
85	5	2618	G	O4'-C1'-N9	-7.87	101.90	108.20
85	5	2675	C	O5'-P-OP2	7.87	120.15	110.70
85	5	3019	U	N1-C2-N3	-7.87	110.18	114.90
36	1	1829	G	N1-C2-N3	7.87	128.62	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2968	G	C5-N7-C8	-7.87	100.36	104.30
80	6	1795	U	C5-C6-N1	-7.87	118.77	122.70
85	5	639	G	N3-C4-N9	-7.87	121.28	126.00
85	5	1813	A	C5-C6-N1	7.87	121.64	117.70
85	5	2153	U	O5'-P-OP1	-7.87	98.62	105.70
1	2	361	C	N3-C4-C5	-7.87	118.75	121.90
1	2	607	G	C5-N7-C8	-7.87	100.37	104.30
1	2	1337	G	C8-N9-C4	-7.87	103.25	106.40
1	2	1528	A	O5'-P-OP2	7.87	120.14	110.70
36	1	611	A	C8-N9-C4	-7.87	102.65	105.80
36	1	1730	G	N1-C6-O6	-7.87	115.18	119.90
36	1	2119	A	C5-N7-C8	-7.87	99.97	103.90
36	1	3119	U	N3-C2-O2	-7.87	116.69	122.20
40	L3	251	CYS	CA-CB-SG	-7.87	99.84	114.00
80	6	7	G	C6-C5-N7	-7.87	125.68	130.40
80	6	1109	G	N9-C4-C5	7.87	108.55	105.40
80	6	1353	U	N3-C4-O4	-7.87	113.89	119.40
80	6	1678	A	C5-N7-C8	-7.87	99.97	103.90
85	5	368	G	C5-C6-O6	7.87	133.32	128.60
85	5	576	C	C2-N3-C4	-7.87	115.97	119.90
85	5	878	G	N1-C2-N2	-7.87	109.12	116.20
85	5	907	G	C4-C5-N7	7.87	113.95	110.80
38	8	39	G	C4-C5-N7	-7.87	107.65	110.80
1	2	186	C	C6-N1-C2	-7.87	117.15	120.30
36	1	110	G	N3-C4-C5	7.87	132.53	128.60
36	1	800	G	C6-C5-N7	-7.87	125.68	130.40
36	1	1504	A	O5'-P-OP1	-7.87	98.62	105.70
36	1	2244	A	C6-N1-C2	-7.87	113.88	118.60
36	1	2852	C	C5-C6-N1	-7.87	117.07	121.00
85	5	63	A	N1-C6-N6	7.87	123.32	118.60
85	5	1884	A	C6-C5-N7	-7.87	126.79	132.30
85	5	3247	G	N7-C8-N9	-7.87	109.17	113.10
1	2	78	A	C5-C6-N1	7.87	121.63	117.70
1	2	849	G	C2-N3-C4	7.87	115.83	111.90
36	1	338	A	N7-C8-N9	7.87	117.73	113.80
36	1	879	U	C6-N1-C2	7.87	125.72	121.00
36	1	1474	A	C4-C5-C6	7.87	120.93	117.00
36	1	3013	U	N3-C4-C5	7.87	119.32	114.60
36	1	3229	G	N9-C4-C5	-7.87	102.25	105.40
37	3	120	C	N1-C2-N3	7.87	124.70	119.20
80	6	1104	U	C5-C4-O4	-7.87	121.18	125.90
85	5	1831	U	N3-C4-C5	-7.87	109.88	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2349	U	N3-C4-O4	7.87	124.91	119.40
38	8	51	G	C5-N7-C8	-7.87	100.37	104.30
1	2	1190	C	C2-N3-C4	-7.86	115.97	119.90
36	1	30	G	O5'-P-OP2	-7.86	98.62	105.70
36	1	1413	G	C5-C6-O6	-7.86	123.88	128.60
36	1	1703	U	N3-C4-O4	7.86	124.91	119.40
36	1	2855	U	N3-C4-C5	-7.86	109.88	114.60
36	1	3067	C	N3-C4-N4	-7.86	112.50	118.00
80	6	863	A	C5-C6-N6	-7.86	117.41	123.70
80	6	1677	C	N3-C2-O2	-7.86	116.39	121.90
85	5	404	G	OP1-P-OP2	7.86	131.40	119.60
85	5	700	C	O5'-P-OP2	-7.86	98.62	105.70
85	5	1156	C	N1-C2-N3	7.86	124.70	119.20
85	5	1164	G	OP1-P-OP2	7.86	131.40	119.60
85	5	1183	C	OP1-P-OP2	-7.86	107.81	119.60
85	5	1707	A	N1-C2-N3	7.86	133.23	129.30
1	2	427	C	C5-C6-N1	-7.86	117.07	121.00
1	2	568	G	N7-C8-N9	-7.86	109.17	113.10
1	2	1296	A	N9-C4-C5	-7.86	102.66	105.80
36	1	2744	U	N3-C4-C5	-7.86	109.88	114.60
85	5	1787	A	C6-N1-C2	7.86	123.32	118.60
36	1	710	A	C4-C5-N7	7.86	114.63	110.70
36	1	1103	A	N3-C4-C5	-7.86	121.30	126.80
36	1	1805	C	N3-C4-C5	7.86	125.04	121.90
36	1	2249	G	C6-N1-C2	-7.86	120.38	125.10
37	3	37	G	C8-N9-C4	-7.86	103.26	106.40
80	6	742	U	C2-N3-C4	7.86	131.72	127.00
80	6	1745	G	C4-C5-C6	7.86	123.52	118.80
85	5	511	G	O5'-P-OP1	-7.86	98.62	105.70
85	5	1285	G	C2-N3-C4	7.86	115.83	111.90
1	2	368	U	N3-C2-O2	-7.86	116.70	122.20
36	1	2900	A	C5-C6-N1	7.86	121.63	117.70
36	1	3256	G	C5-C6-N1	-7.86	107.57	111.50
80	6	1586	A	N7-C8-N9	-7.86	109.87	113.80
85	5	835	G	C5-C6-O6	-7.86	123.89	128.60
85	5	1867	A	C2-N3-C4	-7.86	106.67	110.60
85	5	2176	U	N3-C4-O4	7.86	124.90	119.40
37	7	71	G	N1-C6-O6	7.86	124.61	119.90
36	1	3332	U	N3-C4-C5	7.86	119.31	114.60
85	5	328	U	N1-C2-O2	7.86	128.30	122.80
85	5	352	A	N1-C2-N3	-7.86	125.37	129.30
85	5	1877	U	C5-C6-N1	-7.86	118.77	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3186	A	C2-N3-C4	-7.86	106.67	110.60
1	2	318	U	N3-C2-O2	7.86	127.70	122.20
36	1	201	A	N1-C6-N6	7.86	123.31	118.60
36	1	382	U	N1-C2-O2	-7.86	117.30	122.80
36	1	956	U	N3-C2-O2	7.86	127.70	122.20
36	1	2337	C	N3-C2-O2	7.86	127.40	121.90
36	1	2724	U	N3-C4-C5	-7.86	109.89	114.60
36	1	3032	A	N1-C2-N3	7.86	133.23	129.30
38	4	41	A	C5-N7-C8	7.86	107.83	103.90
41	L4	95	ARG	NE-CZ-NH2	7.86	124.23	120.30
85	5	535	G	N1-C2-N2	-7.86	109.13	116.20
36	1	1139	G	N1-C2-N2	7.85	123.27	116.20
36	1	2903	A	C5-N7-C8	7.85	107.83	103.90
37	3	96	U	N3-C4-C5	-7.85	109.89	114.60
80	6	252	U	N3-C2-O2	7.85	127.70	122.20
85	5	3078	U	C6-N1-C2	-7.85	116.29	121.00
36	1	891	G	N3-C4-C5	7.85	132.53	128.60
36	1	1368	U	O5'-P-OP1	-7.85	98.63	105.70
36	1	1521	G	C6-C5-N7	-7.85	125.69	130.40
36	1	1528	G	N3-C2-N2	7.85	125.40	119.90
36	1	1586	G	C4-C5-C6	7.85	123.51	118.80
36	1	2619	G	C4-C5-N7	7.85	113.94	110.80
36	1	3228	C	N3-C4-C5	7.85	125.04	121.90
36	1	3394	U	N3-C4-C5	7.85	119.31	114.60
85	5	441	U	C5-C6-N1	-7.85	118.77	122.70
85	5	884	A	O5'-P-OP2	-7.85	98.63	105.70
85	5	966	U	N1-C2-N3	7.85	119.61	114.90
85	5	1648	A	C5-C6-N1	-7.85	113.77	117.70
85	5	1876	U	O5'-P-OP2	-7.85	98.63	105.70
37	7	7	G	C4-C5-N7	-7.85	107.66	110.80
1	2	929	U	N3-C4-C5	-7.85	109.89	114.60
36	1	662	U	N3-C4-C5	7.85	119.31	114.60
36	1	2770	G	C8-N9-C4	-7.85	103.26	106.40
85	5	1378	U	O5'-P-OP1	7.85	120.12	110.70
85	5	1923	C	OP1-P-OP2	7.85	131.38	119.60
36	1	186	U	C5-C6-N1	7.85	126.62	122.70
36	1	506	U	N1-C2-O2	-7.85	117.31	122.80
36	1	2216	G	N3-C4-C5	-7.85	124.68	128.60
36	1	3176	G	OP1-P-OP2	-7.85	107.83	119.60
38	4	152	G	N3-C4-N9	-7.85	121.29	126.00
85	5	248	U	N1-C2-O2	7.85	128.29	122.80
85	5	998	A	C4-C5-C6	7.85	120.92	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1072	G	C5-C6-N1	-7.85	107.58	111.50
85	5	2303	A	N9-C4-C5	-7.85	102.66	105.80
85	5	2376	G	C5-C6-N1	-7.85	107.58	111.50
37	7	25	G	C5-C6-O6	7.85	133.31	128.60
37	7	102	A	N1-C2-N3	7.85	133.22	129.30
38	8	45	C	C4-C5-C6	7.85	121.33	117.40
36	1	2218	G	C5-C6-O6	7.85	133.31	128.60
36	1	2728	G	N3-C4-C5	-7.85	124.68	128.60
80	6	295	A	C5-N7-C8	7.85	107.82	103.90
80	6	540	G	C5-C6-O6	7.85	133.31	128.60
80	6	1093	A	C2-N3-C4	7.85	114.52	110.60
80	6	1102	G	C8-N9-C4	7.85	109.54	106.40
85	5	184	U	N3-C4-O4	-7.85	113.91	119.40
85	5	1140	G	OP2-P-O3'	7.85	122.46	105.20
85	5	1156	C	C5-C6-N1	7.85	124.92	121.00
85	5	1598	G	N3-C2-N2	7.85	125.39	119.90
85	5	1677	G	C6-C5-N7	7.85	135.11	130.40
85	5	1918	C	N3-C4-C5	-7.85	118.76	121.90
85	5	2240	G	O5'-P-OP1	-7.85	98.64	105.70
85	5	3149	G	C6-C5-N7	-7.85	125.69	130.40
38	8	89	A	C5-C6-N6	7.85	129.98	123.70
1	2	1574	C	N3-C4-C5	-7.85	118.76	121.90
36	1	318	A	C8-N9-C4	-7.85	102.66	105.80
36	1	2770	G	O5'-P-OP1	-7.85	98.64	105.70
36	1	3335	A	C6-N1-C2	-7.85	113.89	118.60
80	6	102	U	OP1-P-O3'	-7.85	87.94	105.20
80	6	1143	A	C2-N3-C4	7.85	114.52	110.60
85	5	2940	A	N1-C6-N6	-7.85	113.89	118.60
85	5	3158	G	N3-C2-N2	-7.85	114.41	119.90
36	1	154	U	C5-C4-O4	7.84	130.61	125.90
36	1	178	U	O5'-P-OP1	7.84	120.11	110.70
36	1	1375	G	C4-N9-C1'	7.84	136.70	126.50
36	1	1724	U	N3-C4-O4	7.84	124.89	119.40
36	1	1876	U	C2-N1-C1'	7.84	127.11	117.70
36	1	1894	U	OP1-P-OP2	-7.84	107.83	119.60
80	6	1728	A	N1-C2-N3	7.84	133.22	129.30
85	5	39	A	N3-C4-N9	-7.84	121.12	127.40
85	5	626	U	N3-C4-O4	7.84	124.89	119.40
1	2	740	A	C2-N3-C4	-7.84	106.68	110.60
1	2	988	A	C4-C5-N7	-7.84	106.78	110.70
36	1	1092	C	C5-C6-N1	7.84	124.92	121.00
36	1	1335	C	N1-C2-O2	7.84	123.61	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1929	G	O5'-P-OP1	7.84	120.11	110.70
37	3	62	U	N1-C2-O2	-7.84	117.31	122.80
85	5	636	C	O5'-P-OP1	7.84	120.11	110.70
85	5	649	A	N1-C6-N6	7.84	123.31	118.60
85	5	886	C	C4-C5-C6	7.84	121.32	117.40
85	5	1116	G	OP1-P-OP2	7.84	131.37	119.60
38	8	14	C	C6-N1-C2	7.84	123.44	120.30
38	8	14	C	N3-C4-C5	7.84	125.04	121.90
36	1	1536	G	N3-C2-N2	-7.84	114.41	119.90
36	1	1618	G	C5-C6-O6	7.84	133.31	128.60
36	1	2107	A	N9-C4-C5	7.84	108.94	105.80
37	3	82	G	C5-C6-O6	7.84	133.31	128.60
38	4	9	A	N7-C8-N9	-7.84	109.88	113.80
85	5	266	A	C8-N9-C4	-7.84	102.66	105.80
85	5	1246	G	C4-C5-N7	7.84	113.94	110.80
85	5	2902	A	O5'-P-OP1	-7.84	98.64	105.70
85	5	3365	U	N1-C2-O2	-7.84	117.31	122.80
1	2	1409	C	C5-C6-N1	7.84	124.92	121.00
1	2	1745	A	C8-N9-C4	7.84	108.94	105.80
36	1	392	G	C4-C5-N7	7.84	113.94	110.80
36	1	1174	G	C6-C5-N7	-7.84	125.70	130.40
36	1	1791	C	N3-C4-N4	7.84	123.49	118.00
36	1	2636	A	C6-N1-C2	-7.84	113.90	118.60
80	6	1590	G	C4-C5-N7	7.84	113.94	110.80
85	5	975	C	N3-C4-C5	-7.84	118.76	121.90
85	5	1534	A	C6-N1-C2	-7.84	113.90	118.60
85	5	1673	G	N1-C2-N3	7.84	128.60	123.90
85	5	1726	C	C5-C6-N1	-7.84	117.08	121.00
85	5	2418	G	N7-C8-N9	7.84	117.02	113.10
85	5	2730	G	C4-C5-N7	7.84	113.94	110.80
38	8	55	U	C2-N3-C4	7.84	131.70	127.00
36	1	878	G	N3-C4-N9	-7.84	121.30	126.00
36	1	906	A	N3-C4-C5	-7.84	121.31	126.80
36	1	2402	A	N1-C6-N6	7.84	123.30	118.60
38	4	74	U	O5'-P-OP2	7.84	120.11	110.70
85	5	500	C	C6-N1-C2	7.84	123.44	120.30
85	5	1205	A	OP1-P-O3'	-7.84	87.96	105.20
85	5	2096	A	N1-C6-N6	7.84	123.30	118.60
36	1	649	A	N1-C2-N3	7.84	133.22	129.30
36	1	2229	A	C8-N9-C4	7.84	108.94	105.80
36	1	3000	A	C5-C6-N1	-7.84	113.78	117.70
80	6	1362	U	N3-C2-O2	-7.84	116.71	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1679	A	C8-N9-C4	-7.84	102.67	105.80
85	5	1919	G	N1-C2-N3	7.84	128.60	123.90
85	5	2589	G	C8-N9-C4	-7.84	103.27	106.40
85	5	2675	C	OP1-P-OP2	-7.84	107.85	119.60
85	5	2793	G	C6-C5-N7	-7.84	125.70	130.40
36	1	2182	A	C4-C5-N7	-7.83	106.78	110.70
36	1	2793	G	O5'-P-OP2	7.83	120.10	110.70
36	1	3287	U	N1-C2-N3	-7.83	110.20	114.90
85	5	295	A	N1-C2-N3	7.83	133.22	129.30
85	5	649	A	C6-N1-C2	-7.83	113.90	118.60
85	5	2555	G	O5'-P-OP2	-7.83	98.65	105.70
85	5	2864	A	N7-C8-N9	7.83	117.72	113.80
1	2	1223	U	N1-C2-N3	7.83	119.60	114.90
36	1	232	G	C4-C5-N7	-7.83	107.67	110.80
36	1	1401	A	N7-C8-N9	-7.83	109.88	113.80
36	1	1520	G	N3-C4-C5	-7.83	124.68	128.60
36	1	1672	U	N3-C2-O2	7.83	127.68	122.20
36	1	2879	C	O5'-P-OP2	-7.83	98.65	105.70
80	6	576	G	N7-C8-N9	7.83	117.02	113.10
85	5	1325	U	C5-C6-N1	-7.83	118.78	122.70
85	5	1446	A	N7-C8-N9	-7.83	109.88	113.80
36	1	692	A	C8-N9-C4	-7.83	102.67	105.80
36	1	1349	G	C5-N7-C8	7.83	108.22	104.30
36	1	2254	U	N3-C4-C5	-7.83	109.90	114.60
36	1	3105	U	N3-C2-O2	-7.83	116.72	122.20
36	1	3393	U	N3-C4-O4	7.83	124.88	119.40
80	6	551	G	C2-N3-C4	-7.83	107.98	111.90
80	6	996	U	O5'-P-OP1	-7.83	98.65	105.70
80	6	1731	A	C8-N9-C4	-7.83	102.67	105.80
85	5	180	C	N3-C2-O2	-7.83	116.42	121.90
85	5	1007	U	C4-C5-C6	7.83	124.40	119.70
85	5	1301	A	C4-C5-C6	7.83	120.92	117.00
85	5	1332	A	OP1-P-O3'	7.83	122.43	105.20
85	5	2368	A	C5-N7-C8	-7.83	99.98	103.90
36	1	131	C	N3-C4-N4	-7.83	112.52	118.00
36	1	229	G	N7-C8-N9	7.83	117.02	113.10
36	1	336	A	C5-C6-N6	-7.83	117.44	123.70
36	1	893	C	C5-C4-N4	-7.83	114.72	120.20
36	1	1649	U	N3-C4-O4	7.83	124.88	119.40
80	6	833	U	C5-C4-O4	7.83	130.60	125.90
85	5	584	G	OP2-P-O3'	7.83	122.43	105.20
85	5	859	G	O5'-P-OP2	-7.83	98.65	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2371	G	N3-C4-C5	7.83	132.51	128.60
1	2	1732	A	N1-C2-N3	7.83	133.22	129.30
36	1	236	G	C2-N3-C4	7.83	115.81	111.90
36	1	1457	U	N3-C2-O2	7.83	127.68	122.20
36	1	2107	A	C5-C6-N6	7.83	129.96	123.70
80	6	1070	C	O4'-C1'-N1	7.83	114.46	108.20
85	5	293	C	N3-C4-C5	7.83	125.03	121.90
85	5	919	U	OP1-P-OP2	-7.83	107.86	119.60
85	5	1103	A	N3-C4-C5	-7.83	121.32	126.80
85	5	1206	G	N1-C2-N3	7.83	128.60	123.90
85	5	2669	G	N1-C6-O6	7.83	124.60	119.90
1	2	831	C	N3-C2-O2	-7.83	116.42	121.90
36	1	787	G	O5'-P-OP2	-7.83	98.66	105.70
36	1	972	A	N1-C2-N3	7.83	133.21	129.30
80	6	678	A	C2-N3-C4	7.83	114.51	110.60
85	5	963	G	C6-C5-N7	7.83	135.10	130.40
85	5	1495	U	OP2-P-O3'	-7.83	87.98	105.20
36	1	285	A	N1-C6-N6	-7.83	113.91	118.60
36	1	300	G	C5-C6-O6	7.83	133.29	128.60
36	1	315	C	OP1-P-OP2	7.83	131.34	119.60
36	1	743	C	C5-C6-N1	-7.83	117.09	121.00
36	1	2141	U	N3-C2-O2	-7.83	116.72	122.20
36	1	2192	C	C4-C5-C6	7.83	121.31	117.40
36	1	2785	A	N1-C2-N3	7.83	133.21	129.30
38	4	16	G	N3-C2-N2	-7.83	114.42	119.90
38	4	107	G	N1-C2-N3	7.83	128.59	123.90
70	O4	31	ARG	NE-CZ-NH1	7.83	124.21	120.30
80	6	619	A	C2-N3-C4	7.83	114.51	110.60
80	6	810	G	N1-C6-O6	7.83	124.60	119.90
85	5	422	A	O5'-P-OP1	-7.83	98.66	105.70
85	5	879	U	C6-N1-C2	7.83	125.69	121.00
85	5	1376	C	N1-C2-O2	7.83	123.60	118.90
85	5	2865	U	C2-N3-C4	7.83	131.69	127.00
85	5	3052	G	C6-N1-C2	-7.83	120.40	125.10
1	2	307	G	N1-C6-O6	-7.82	115.21	119.90
36	1	275	U	N3-C2-O2	7.82	127.68	122.20
36	1	350	C	C6-N1-C1'	-7.82	111.41	120.80
36	1	1046	A	C5-C6-N1	7.82	121.61	117.70
36	1	1346	G	C4-C5-N7	-7.82	107.67	110.80
36	1	2710	C	N3-C4-C5	7.82	125.03	121.90
36	1	2884	C	C5-C6-N1	7.82	124.91	121.00
80	6	215	A	C8-N9-C4	-7.82	102.67	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	760	G	C8-N9-C4	-7.82	103.27	106.40
85	5	994	G	C6-N1-C2	-7.82	120.41	125.10
85	5	1181	U	C5-C4-O4	7.82	130.59	125.90
85	5	2391	G	C5-N7-C8	7.82	108.21	104.30
85	5	1121	U	C2-N3-C4	-7.82	122.31	127.00
85	5	1172	G	N3-C4-N9	7.82	130.69	126.00
85	5	3299	A	C5-N7-C8	7.82	107.81	103.90
36	1	56	G	N3-C2-N2	-7.82	114.43	119.90
36	1	773	G	N9-C4-C5	7.82	108.53	105.40
36	1	999	G	N3-C4-N9	7.82	130.69	126.00
37	3	2	G	N3-C2-N2	-7.82	114.42	119.90
80	6	349	U	N1-C2-N3	7.82	119.59	114.90
80	6	522	U	C2-N3-C4	-7.82	122.31	127.00
80	6	972	G	OP1-P-OP2	7.82	131.33	119.60
85	5	722	G	C6-C5-N7	-7.82	125.71	130.40
85	5	984	G	C5-C6-N1	-7.82	107.59	111.50
85	5	2728	G	N1-C2-N3	7.82	128.59	123.90
85	5	2921	U	OP1-P-O3'	7.82	122.41	105.20
37	7	20	A	C8-N9-C4	7.82	108.93	105.80
37	7	49	G	C5-C6-O6	-7.82	123.91	128.60
38	8	87	G	C8-N9-C4	7.82	109.53	106.40
38	8	115	C	C5-C4-N4	-7.82	114.73	120.20
1	2	921	G	C5-N7-C8	-7.82	100.39	104.30
36	1	921	A	C6-C5-N7	7.82	137.77	132.30
36	1	2174	G	C6-C5-N7	-7.82	125.71	130.40
36	1	3366	G	OP1-P-O3'	7.82	122.40	105.20
80	6	426	G	C5-C6-N1	-7.82	107.59	111.50
80	6	1096	C	O5'-P-OP1	7.82	120.08	110.70
85	5	962	A	N1-C2-N3	7.82	133.21	129.30
85	5	2150	G	C6-C5-N7	-7.82	125.71	130.40
1	2	358	U	N1-C2-N3	7.82	119.59	114.90
1	2	1299	G	N9-C4-C5	7.82	108.53	105.40
36	1	1226	G	N1-C6-O6	7.82	124.59	119.90
36	1	1497	C	C4-C5-C6	7.82	121.31	117.40
36	1	3143	C	N3-C2-O2	7.82	127.37	121.90
80	6	136	C	C5-C6-N1	7.82	124.91	121.00
85	5	83	U	N3-C2-O2	-7.82	116.73	122.20
85	5	423	A	C4-C5-N7	7.82	114.61	110.70
85	5	548	G	C8-N9-C4	-7.82	103.27	106.40
85	5	889	U	O5'-P-OP2	-7.82	98.66	105.70
85	5	1295	G	N1-C2-N2	-7.82	109.16	116.20
85	5	1770	G	N1-C6-O6	-7.82	115.21	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1914	G	N3-C2-N2	-7.82	114.43	119.90
85	5	2324	A	C6-C5-N7	-7.82	126.83	132.30
85	5	2915	U	C6-N1-C2	7.82	125.69	121.00
85	5	3271	G	N1-C2-N2	-7.82	109.16	116.20
53	m7	131	ARG	NE-CZ-NH1	7.82	124.21	120.30
1	2	854	G	C8-N9-C4	-7.82	103.27	106.40
36	1	406	G	N1-C6-O6	-7.82	115.21	119.90
36	1	802	C	N3-C2-O2	-7.82	116.43	121.90
36	1	1100	U	C2-N3-C4	-7.82	122.31	127.00
36	1	2142	A	C2-N3-C4	7.82	114.51	110.60
36	1	3388	C	C5-C6-N1	-7.82	117.09	121.00
85	5	423	A	N9-C4-C5	-7.82	102.67	105.80
85	5	607	A	C4-C5-C6	7.82	120.91	117.00
85	5	643	U	C5-C6-N1	7.82	126.61	122.70
85	5	1434	G	C6-N1-C2	-7.82	120.41	125.10
85	5	1628	C	C5-C6-N1	7.82	124.91	121.00
62	n6	31	LEU	CB-CG-CD1	-7.82	97.71	111.00
36	1	3012	A	O5'-P-OP1	-7.81	98.67	105.70
1	2	150	U	N3-C4-C5	7.81	119.29	114.60
36	1	360	G	N1-C2-N3	7.81	128.59	123.90
36	1	606	C	C2-N3-C4	-7.81	115.99	119.90
36	1	2959	C	OP2-P-O3'	7.81	122.39	105.20
36	1	3129	A	N1-C2-N3	7.81	133.21	129.30
80	6	549	G	N3-C2-N2	-7.81	114.43	119.90
85	5	1063	G	C4-C5-N7	7.81	113.92	110.80
85	5	1178	G	N7-C8-N9	7.81	117.01	113.10
85	5	2130	G	N3-C4-C5	7.81	132.51	128.60
85	5	2363	A	N1-C2-N3	7.81	133.21	129.30
1	2	1434	C	C6-N1-C2	-7.81	117.18	120.30
36	1	1650	G	N1-C6-O6	-7.81	115.21	119.90
36	1	1897	G	N3-C4-C5	-7.81	124.69	128.60
36	1	2128	C	N1-C2-N3	7.81	124.67	119.20
36	1	2836	C	C5-C6-N1	-7.81	117.09	121.00
80	6	565	C	C6-N1-C1'	7.81	130.17	120.80
85	5	1072	G	N1-C6-O6	7.81	124.59	119.90
85	5	2305	G	O5'-P-OP2	7.81	120.07	110.70
38	8	142	C	N1-C2-N3	7.81	124.67	119.20
46	19	62	ARG	NE-CZ-NH2	-7.81	116.39	120.30
1	2	1029	G	C8-N9-C4	7.81	109.52	106.40
1	2	1338	C	N1-C2-O2	7.81	123.58	118.90
36	1	269	G	C4-C5-N7	7.81	113.92	110.80
36	1	2152	A	C5-N7-C8	-7.81	100.00	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	88	G	N3-C4-C5	-7.81	124.70	128.60
85	5	124	U	N1-C2-O2	7.81	128.27	122.80
85	5	2680	A	C8-N9-C4	-7.81	102.68	105.80
85	5	2731	U	N1-C2-O2	-7.81	117.33	122.80
36	1	1097	G	C8-N9-C4	-7.81	103.28	106.40
36	1	1349	G	N3-C4-C5	-7.81	124.70	128.60
36	1	1484	U	N1-C2-O2	-7.81	117.33	122.80
36	1	1519	G	O5'-P-OP1	7.81	120.07	110.70
36	1	3270	U	N1-C2-O2	7.81	128.26	122.80
80	6	445	A	C4-C5-C6	-7.81	113.10	117.00
85	5	567	G	N3-C4-C5	7.81	132.50	128.60
85	5	591	G	C2-N3-C4	-7.81	108.00	111.90
85	5	2951	G	C6-N1-C2	-7.81	120.42	125.10
85	5	3120	C	O5'-P-OP2	-7.81	98.67	105.70
40	l3	322	ILE	CG1-CB-CG2	-7.81	94.22	111.40
1	2	72	A	N1-C2-N3	-7.81	125.40	129.30
36	1	2984	C	C6-N1-C2	-7.81	117.18	120.30
1	2	449	C	N3-C2-O2	-7.80	116.44	121.90
36	1	963	G	C5-C6-N1	-7.80	107.60	111.50
36	1	1344	G	O5'-P-OP1	7.80	120.07	110.70
80	6	462	G	C5-C6-N1	-7.80	107.60	111.50
80	6	476	U	N1-C2-O2	-7.80	117.34	122.80
85	5	8	C	C4-C5-C6	7.80	121.30	117.40
85	5	656	A	C2-N3-C4	-7.80	106.70	110.60
85	5	1127	G	C5-C6-O6	7.80	133.28	128.60
85	5	2314	U	C5-C4-O4	-7.80	121.22	125.90
36	1	645	A	C6-C5-N7	7.80	137.76	132.30
36	1	1423	C	N1-C2-O2	-7.80	114.22	118.90
36	1	1612	A	N9-C4-C5	7.80	108.92	105.80
80	6	429	G	C6-C5-N7	-7.80	125.72	130.40
85	5	57	A	N7-C8-N9	-7.80	109.90	113.80
85	5	849	C	C2-N3-C4	-7.80	116.00	119.90
85	5	863	C	C6-N1-C2	7.80	123.42	120.30
85	5	1461	A	N1-C2-N3	7.80	133.20	129.30
85	5	2654	C	OP2-P-O3'	7.80	122.37	105.20
36	1	1379	G	C2-N3-C4	-7.80	108.00	111.90
36	1	1404	G	N1-C2-N2	-7.80	109.18	116.20
36	1	1498	A	N7-C8-N9	-7.80	109.90	113.80
36	1	2233	A	C5-C6-N1	-7.80	113.80	117.70
80	6	215	A	C5-N7-C8	-7.80	100.00	103.90
85	5	824	C	C6-N1-C2	-7.80	117.18	120.30
85	5	853	G	C6-C5-N7	-7.80	125.72	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1128	U	C2-N3-C4	-7.80	122.32	127.00
85	5	2622	C	C4-C5-C6	7.80	121.30	117.40
85	5	2936	A	N9-C4-C5	7.80	108.92	105.80
85	5	3126	C	N3-C2-O2	-7.80	116.44	121.90
37	7	44	C	OP2-P-O3'	7.80	122.36	105.20
36	1	1097	G	C4-C5-N7	7.80	113.92	110.80
36	1	1593	A	C5-C6-N1	-7.80	113.80	117.70
36	1	3355	U	N3-C4-C5	-7.80	109.92	114.60
80	6	1025	A	C2-N3-C4	-7.80	106.70	110.60
80	6	1662	G	O5'-P-OP1	7.80	120.06	110.70
25	d3	100	ASP	CB-CG-OD1	7.80	125.32	118.30
85	5	185	C	C5-C6-N1	-7.80	117.10	121.00
85	5	806	A	C6-C5-N7	-7.80	126.84	132.30
85	5	824	C	O5'-P-OP2	-7.80	98.68	105.70
85	5	2125	A	N1-C6-N6	7.80	123.28	118.60
85	5	2341	A	C8-N9-C4	7.80	108.92	105.80
85	5	2984	C	C5-C4-N4	7.80	125.66	120.20
85	5	3044	G	C2-N3-C4	-7.80	108.00	111.90
85	5	3146	G	N1-C2-N3	7.80	128.58	123.90
1	2	102	U	C6-N1-C2	-7.80	116.32	121.00
1	2	1265	U	N3-C4-O4	-7.80	113.94	119.40
36	1	707	U	N1-C2-O2	-7.80	117.34	122.80
36	1	2442	G	N1-C6-O6	7.80	124.58	119.90
80	6	1004	U	N3-C4-C5	-7.80	109.92	114.60
85	5	940	G	C5-C6-N1	7.80	115.40	111.50
85	5	2164	A	C4-C5-C6	7.80	120.90	117.00
1	2	1065	C	N1-C2-O2	7.80	123.58	118.90
36	1	287	G	N1-C6-O6	7.80	124.58	119.90
36	1	680	G	N1-C2-N2	-7.80	109.18	116.20
36	1	703	G	C5-C6-N1	7.80	115.40	111.50
36	1	771	A	N7-C8-N9	7.80	117.70	113.80
36	1	1121	U	O5'-P-OP1	7.80	120.06	110.70
36	1	2228	A	C5-C6-N6	-7.80	117.46	123.70
36	1	2515	A	N9-C4-C5	7.80	108.92	105.80
36	1	2828	G	N3-C4-N9	7.80	130.68	126.00
36	1	2980	U	C5-C4-O4	-7.80	121.22	125.90
36	1	3134	A	C5-C6-N6	-7.80	117.46	123.70
36	1	3367	C	N3-C4-N4	-7.80	112.54	118.00
37	3	100	C	O5'-P-OP2	-7.80	98.68	105.70
80	6	46	A	N7-C8-N9	7.80	117.70	113.80
85	5	289	A	N1-C6-N6	-7.80	113.92	118.60
85	5	658	G	N1-C6-O6	7.80	124.58	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	963	G	N1-C2-N3	7.80	128.58	123.90
85	5	1588	A	O5'-P-OP1	-7.80	98.68	105.70
85	5	2169	G	N3-C4-C5	-7.80	124.70	128.60
85	5	2369	G	N1-C2-N2	-7.80	109.18	116.20
85	5	2703	A	C5-C6-N6	-7.80	117.46	123.70
85	5	3022	G	C5-C6-O6	7.80	133.28	128.60
36	1	2384	A	OP1-P-OP2	7.79	131.29	119.60
36	1	2761	G	C2-N3-C4	-7.79	108.00	111.90
37	3	92	A	N7-C8-N9	-7.79	109.90	113.80
80	6	28	A	N7-C8-N9	7.79	117.70	113.80
80	6	651	G	N1-C6-O6	7.79	124.58	119.90
85	5	2199	G	C4-C5-C6	7.79	123.48	118.80
36	1	217	U	C6-N1-C2	-7.79	116.32	121.00
36	1	748	U	C5-C4-O4	-7.79	121.22	125.90
36	1	1140	G	C4-C5-N7	-7.79	107.68	110.80
36	1	1440	G	C8-N9-C4	7.79	109.52	106.40
36	1	2315	G	C8-N9-C4	-7.79	103.28	106.40
36	1	2430	A	C8-N9-C4	-7.79	102.68	105.80
36	1	3278	C	C6-N1-C2	-7.79	117.18	120.30
80	6	727	U	C5-C4-O4	7.79	130.58	125.90
80	6	1118	G	C4-C5-C6	7.79	123.48	118.80
85	5	195	U	C2-N3-C4	-7.79	122.32	127.00
85	5	666	A	N1-C2-N3	7.79	133.20	129.30
85	5	765	C	C5-C6-N1	-7.79	117.10	121.00
85	5	842	G	N1-C2-N3	7.79	128.58	123.90
85	5	889	U	C5-C6-N1	-7.79	118.80	122.70
85	5	1368	U	N3-C4-O4	7.79	124.86	119.40
85	5	1439	U	N1-C2-N3	-7.79	110.22	114.90
85	5	1495	U	N1-C2-O2	-7.79	117.34	122.80
85	5	1508	C	C2-N3-C4	-7.79	116.00	119.90
85	5	2946	A	C8-N9-C4	-7.79	102.68	105.80
85	5	3047	U	O5'-P-OP1	-7.79	98.69	105.70
36	1	2926	A	N1-C6-N6	7.79	123.28	118.60
36	1	3119	U	N1-C2-O2	7.79	128.25	122.80
36	1	3376	A	C8-N9-C4	-7.79	102.68	105.80
38	4	17	A	OP1-P-O3'	7.79	122.34	105.20
80	6	783	G	N7-C8-N9	-7.79	109.20	113.10
85	5	1167	U	N1-C2-O2	-7.79	117.35	122.80
85	5	1185	C	C2-N3-C4	-7.79	116.00	119.90
85	5	1407	A	C5-N7-C8	-7.79	100.00	103.90
85	5	2200	U	C5-C4-O4	7.79	130.57	125.90
85	5	2850	G	C2-N3-C4	-7.79	108.00	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	395	A	O5'-P-OP1	-7.79	98.69	105.70
36	1	653	A	N7-C8-N9	7.79	117.69	113.80
36	1	1876	U	N3-C4-C5	-7.79	109.93	114.60
85	5	213	A	N1-C2-N3	7.79	133.19	129.30
85	5	643	U	O5'-P-OP1	-7.79	98.69	105.70
85	5	812	G	N1-C2-N3	7.79	128.57	123.90
1	2	431	C	C2-N3-C4	7.79	123.79	119.90
1	2	1733	A	C6-N1-C2	-7.79	113.93	118.60
36	1	386	A	C6-C5-N7	-7.79	126.85	132.30
36	1	522	A	C5-C6-N6	-7.79	117.47	123.70
36	1	1113	G	OP2-P-O3'	7.79	122.33	105.20
37	3	8	G	N1-C2-N2	-7.79	109.19	116.20
80	6	932	U	N3-C4-C5	-7.79	109.93	114.60
80	6	1299	G	N1-C2-N3	7.79	128.57	123.90
85	5	511	G	C4-C5-C6	7.79	123.47	118.80
85	5	2290	C	C5-C6-N1	-7.79	117.11	121.00
85	5	3183	A	C6-N1-C2	-7.79	113.93	118.60
49	m3	101	ARG	NE-CZ-NH1	7.79	124.19	120.30
1	2	905	G	N7-C8-N9	-7.79	109.21	113.10
36	1	1710	C	N3-C4-C5	7.79	125.02	121.90
36	1	3315	G	N3-C2-N2	-7.79	114.45	119.90
80	6	1315	U	C2-N3-C4	-7.79	122.33	127.00
85	5	2299	A	C5-N7-C8	7.79	107.79	103.90
85	5	2877	G	C8-N9-C1'	7.79	137.12	127.00
36	1	221	A	OP1-P-OP2	7.79	131.28	119.60
36	1	618	C	C5-C6-N1	-7.79	117.11	121.00
36	1	1412	G	C6-C5-N7	-7.79	125.73	130.40
36	1	1838	G	C6-N1-C2	-7.79	120.43	125.10
36	1	2384	A	N7-C8-N9	7.79	117.69	113.80
36	1	2811	A	C5-C6-N1	7.79	121.59	117.70
36	1	3102	G	OP2-P-O3'	7.79	122.33	105.20
36	1	3197	G	C5-C6-N1	-7.79	107.61	111.50
37	3	109	G	C4-C5-N7	7.79	113.91	110.80
80	6	1004	U	C5-C4-O4	7.79	130.57	125.90
80	6	1771	U	N1-C2-N3	7.79	119.57	114.90
85	5	20	A	N1-C6-N6	-7.79	113.93	118.60
85	5	121	A	C4-C5-N7	7.79	114.59	110.70
85	5	856	G	C6-N1-C2	-7.79	120.43	125.10
85	5	2741	C	C4-C5-C6	7.79	121.29	117.40
36	1	826	G	C5-C6-N1	-7.78	107.61	111.50
36	1	1082	U	C6-N1-C2	-7.78	116.33	121.00
36	1	2168	A	N7-C8-N9	-7.78	109.91	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	11	A	C8-N9-C4	7.78	108.91	105.80
80	6	17	C	N3-C2-O2	-7.78	116.45	121.90
80	6	1640	C	N1-C2-O2	7.78	123.57	118.90
85	5	908	G	C5-C6-N1	7.78	115.39	111.50
85	5	1750	A	C4-C5-N7	7.78	114.59	110.70
38	8	87	G	O5'-P-OP1	-7.78	98.69	105.70
1	2	1773	A	C2-N3-C4	-7.78	106.71	110.60
36	1	2375	G	N3-C4-N9	7.78	130.67	126.00
85	5	282	G	C5-C6-N1	7.78	115.39	111.50
85	5	1473	G	C5-N7-C8	7.78	108.19	104.30
85	5	1619	A	O5'-P-OP2	-7.78	98.70	105.70
85	5	3078	U	N3-C2-O2	-7.78	116.75	122.20
36	1	252	U	N3-C2-O2	-7.78	116.75	122.20
36	1	1017	C	O5'-P-OP1	-7.78	98.70	105.70
36	1	1122	U	OP2-P-O3'	7.78	122.32	105.20
36	1	1586	G	N1-C2-N3	7.78	128.57	123.90
37	3	80	G	O5'-P-OP1	7.78	120.04	110.70
38	4	124	G	N1-C6-O6	7.78	124.57	119.90
80	6	33	U	O5'-P-OP2	7.78	120.04	110.70
85	5	395	A	C5-C6-N1	7.78	121.59	117.70
85	5	2621	G	N1-C6-O6	7.78	124.57	119.90
85	5	2680	A	OP2-P-O3'	7.78	122.32	105.20
85	5	3235	C	C5-C6-N1	7.78	124.89	121.00
38	8	132	G	N1-C2-N3	7.78	128.57	123.90
1	2	884	G	N7-C8-N9	7.78	116.99	113.10
80	6	787	G	N3-C2-N2	-7.78	114.45	119.90
80	6	1140	G	C8-N9-C4	-7.78	103.29	106.40
80	6	1145	U	OP1-P-OP2	-7.78	107.93	119.60
85	5	918	C	C6-N1-C2	7.78	123.41	120.30
1	2	1097	G	C8-N9-C4	7.78	109.51	106.40
36	1	79	U	C5-C6-N1	-7.78	118.81	122.70
36	1	96	G	N1-C6-O6	7.78	124.57	119.90
36	1	952	A	C2-N3-C4	-7.78	106.71	110.60
36	1	2333	C	C5-C6-N1	-7.78	117.11	121.00
36	1	3048	A	C8-N9-C4	-7.78	102.69	105.80
36	1	3099	C	O5'-P-OP2	-7.78	98.70	105.70
80	6	139	C	N3-C2-O2	-7.78	116.45	121.90
80	6	143	G	C2-N3-C4	-7.78	108.01	111.90
80	6	362	G	OP1-P-OP2	-7.78	107.93	119.60
80	6	1169	G	N9-C4-C5	7.78	108.51	105.40
85	5	83	U	N1-C2-N3	7.78	119.57	114.90
85	5	570	A	C5-C6-N1	7.78	121.59	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1047	A	C2-N3-C4	-7.78	106.71	110.60
85	5	1387	G	C4-C5-N7	7.78	113.91	110.80
85	5	1667	A	N9-C4-C5	-7.78	102.69	105.80
85	5	1886	A	C4-C5-N7	7.78	114.59	110.70
85	5	2894	C	N1-C2-O2	-7.78	114.23	118.90
85	5	3223	A	N9-C4-C5	7.78	108.91	105.80
36	1	1653	G	OP1-P-OP2	7.78	131.26	119.60
36	1	2324	A	C5-N7-C8	-7.78	100.01	103.90
80	6	144	U	O5'-P-OP2	-7.78	98.70	105.70
80	6	575	C	C5-C4-N4	-7.78	114.76	120.20
80	6	815	G	C8-N9-C4	-7.78	103.29	106.40
80	6	907	A	N9-C4-C5	7.78	108.91	105.80
85	5	3130	A	C4-C5-N7	-7.78	106.81	110.70
85	5	3172	A	N1-C2-N3	7.78	133.19	129.30
38	8	48	A	C8-N9-C4	-7.78	102.69	105.80
38	8	65	A	C5-C6-N1	7.78	121.59	117.70
36	1	262	U	N1-C2-N3	-7.77	110.24	114.90
36	1	1748	G	C4-C5-N7	-7.77	107.69	110.80
36	1	2095	G	N9-C4-C5	-7.77	102.29	105.40
80	6	936	G	C5-C6-O6	-7.77	123.94	128.60
85	5	1298	C	C5-C4-N4	-7.77	114.76	120.20
85	5	1346	G	C5-C6-N1	-7.77	107.61	111.50
85	5	1428	A	C6-N1-C2	-7.77	113.94	118.60
1	2	1469	G	N1-C2-N2	-7.77	109.20	116.20
36	1	156	G	C6-C5-N7	-7.77	125.74	130.40
36	1	158	G	C6-C5-N7	-7.77	125.74	130.40
36	1	557	A	C5-N7-C8	7.77	107.79	103.90
36	1	1324	U	C6-N1-C2	7.77	125.66	121.00
36	1	1907	C	O5'-P-OP2	-7.77	98.70	105.70
36	1	2147	A	N3-C4-C5	7.77	132.24	126.80
36	1	2398	A	N3-C4-C5	-7.77	121.36	126.80
36	1	3193	C	OP1-P-OP2	-7.77	107.94	119.60
38	4	52	A	N3-C4-C5	-7.77	121.36	126.80
80	6	403	G	N1-C2-N3	7.77	128.56	123.90
85	5	35	A	OP1-P-OP2	-7.77	107.94	119.60
85	5	45	A	O5'-P-OP2	-7.77	98.70	105.70
85	5	774	G	C8-N9-C4	7.77	109.51	106.40
85	5	2938	G	C5-N7-C8	-7.77	100.41	104.30
85	5	3394	U	C2-N3-C4	-7.77	122.34	127.00
38	8	112	U	N3-C4-C5	7.77	119.26	114.60
41	14	126	ILE	CG1-CB-CG2	-7.77	94.30	111.40
1	2	1061	C	N1-C2-O2	7.77	123.56	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1107	A	N1-C6-N6	7.77	123.26	118.60
1	2	1487	G	C8-N9-C4	-7.77	103.29	106.40
36	1	1182	A	N1-C2-N3	7.77	133.19	129.30
36	1	3274	A	C4-C5-C6	7.77	120.89	117.00
80	6	617	U	C4-C5-C6	7.77	124.36	119.70
85	5	1069	C	O5'-P-OP2	-7.77	98.71	105.70
1	2	1654	A	N1-C2-N3	7.77	133.19	129.30
36	1	838	G	C5-C6-N1	-7.77	107.61	111.50
36	1	3113	A	C4-C5-N7	-7.77	106.81	110.70
80	6	66	U	C5-C4-O4	-7.77	121.24	125.90
80	6	1449	U	N3-C4-O4	7.77	124.84	119.40
85	5	1927	G	C4-C5-N7	7.77	113.91	110.80
85	5	2855	U	C6-N1-C2	-7.77	116.34	121.00
1	2	1283	A	C4-C5-N7	-7.77	106.82	110.70
36	1	895	A	C8-N9-C4	-7.77	102.69	105.80
36	1	1345	G	N3-C4-N9	-7.77	121.34	126.00
36	1	2830	G	C5-C6-N1	-7.77	107.62	111.50
36	1	2938	G	O5'-P-OP2	-7.77	98.71	105.70
36	1	2953	U	N3-C4-C5	-7.77	109.94	114.60
85	5	136	G	N1-C6-O6	7.77	124.56	119.90
85	5	277	G	C4-C5-N7	-7.77	107.69	110.80
85	5	1775	G	O5'-P-OP2	7.77	120.02	110.70
85	5	2721	A	O5'-P-OP1	-7.77	98.71	105.70
85	5	2729	U	N1-C2-N3	-7.77	110.24	114.90
85	5	2919	A	N7-C8-N9	-7.77	109.92	113.80
1	2	1089	U	OP2-P-O3'	7.77	122.29	105.20
1	2	1250	G	C5-N7-C8	-7.77	100.42	104.30
80	6	46	A	C5-N7-C8	-7.77	100.02	103.90
85	5	2313	A	N7-C8-N9	7.77	117.68	113.80
85	5	2662	G	N7-C8-N9	7.77	116.98	113.10
1	2	254	A	C6-N1-C2	7.76	123.26	118.60
36	1	696	C	N1-C2-O2	7.76	123.56	118.90
36	1	797	U	N1-C2-N3	7.76	119.56	114.90
36	1	1132	C	C5-C6-N1	-7.76	117.12	121.00
36	1	1406	A	OP1-P-OP2	-7.76	107.95	119.60
36	1	2225	U	N3-C4-O4	7.76	124.83	119.40
36	1	2685	C	N3-C4-N4	7.76	123.44	118.00
36	1	2968	G	N3-C4-C5	7.76	132.48	128.60
80	6	235	G	C8-N9-C4	-7.76	103.29	106.40
80	6	526	A	C6-C5-N7	-7.76	126.86	132.30
85	5	25	U	C5-C6-N1	-7.76	118.82	122.70
85	5	1170	A	C5-C6-N1	-7.76	113.82	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1746	U	N1-C2-O2	-7.76	117.36	122.80
85	5	2425	G	C6-C5-N7	-7.76	125.74	130.40
85	5	2733	A	C8-N9-C4	7.76	108.91	105.80
85	5	2986	U	C6-N1-C2	-7.76	116.34	121.00
85	5	3210	A	C6-N1-C2	-7.76	113.94	118.60
85	5	3255	U	N1-C2-N3	-7.76	110.24	114.90
1	2	1114	A	O5'-P-OP2	-7.76	98.71	105.70
36	1	1854	C	N3-C2-O2	-7.76	116.47	121.90
36	1	2650	U	N3-C4-O4	-7.76	113.97	119.40
1	2	1740	G	N7-C8-N9	7.76	116.98	113.10
36	1	414	U	C5-C4-O4	-7.76	121.24	125.90
36	1	1194	G	OP1-P-OP2	7.76	131.24	119.60
36	1	3146	G	C8-N9-C4	7.76	109.50	106.40
36	1	3380	U	N3-C2-O2	7.76	127.63	122.20
37	3	94	C	N3-C2-O2	7.76	127.33	121.90
80	6	317	C	C2-N3-C4	-7.76	116.02	119.90
80	6	915	A	C8-N9-C4	-7.76	102.70	105.80
80	6	1553	G	C4-C5-N7	7.76	113.90	110.80
85	5	104	G	C5-C6-O6	-7.76	123.94	128.60
85	5	1057	A	N1-C6-N6	-7.76	113.94	118.60
85	5	1729	A	C4-C5-N7	7.76	114.58	110.70
85	5	1919	G	C2-N3-C4	-7.76	108.02	111.90
1	2	784	G	C8-N9-C4	-7.76	103.30	106.40
36	1	1093	A	N1-C2-N3	-7.76	125.42	129.30
36	1	2866	U	O4'-C1'-N1	-7.76	101.99	108.20
37	3	50	U	N3-C2-O2	7.76	127.63	122.20
37	3	103	A	C8-N9-C4	7.76	108.90	105.80
70	O4	60	ARG	NE-CZ-NH2	-7.76	116.42	120.30
80	6	486	G	C8-N9-C4	-7.76	103.30	106.40
80	6	1379	C	C6-N1-C2	-7.76	117.20	120.30
80	6	1474	G	O5'-P-OP1	-7.76	98.72	105.70
85	5	258	G	C5-C6-N1	-7.76	107.62	111.50
85	5	2246	G	C5-C6-N1	-7.76	107.62	111.50
85	5	2627	C	C5-C4-N4	7.76	125.63	120.20
85	5	3271	G	N7-C8-N9	-7.76	109.22	113.10
36	1	96	G	C5-C6-O6	-7.76	123.94	128.60
36	1	965	A	OP1-P-OP2	-7.76	107.96	119.60
36	1	2974	U	N1-C2-O2	-7.76	117.37	122.80
80	6	105	A	N9-C4-C5	-7.76	102.70	105.80
80	6	1775	U	C4-C5-C6	7.76	124.36	119.70
85	5	1139	G	C6-N1-C2	-7.76	120.44	125.10
85	5	1739	U	C6-N1-C2	-7.76	116.34	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	98	U	C5-C6-N1	7.76	126.58	122.70
1	2	278	U	N3-C4-O4	7.76	124.83	119.40
1	2	1445	G	N9-C4-C5	-7.76	102.30	105.40
36	1	87	U	N3-C4-C5	-7.76	109.95	114.60
36	1	854	G	C2-N3-C4	-7.76	108.02	111.90
36	1	1312	C	C6-N1-C2	-7.76	117.20	120.30
36	1	2385	G	N7-C8-N9	-7.76	109.22	113.10
80	6	334	G	C4-C5-N7	-7.76	107.70	110.80
80	6	1279	C	C6-N1-C2	-7.76	117.20	120.30
85	5	1348	U	O5'-P-OP2	7.76	120.01	110.70
85	5	1476	G	N9-C4-C5	-7.76	102.30	105.40
85	5	1611	G	C6-C5-N7	-7.76	125.75	130.40
85	5	2688	U	N3-C2-O2	7.76	127.63	122.20
85	5	3102	G	N3-C4-N9	-7.76	121.35	126.00
85	5	3279	A	N1-C2-N3	7.76	133.18	129.30
37	7	51	A	N7-C8-N9	7.76	117.68	113.80
38	8	62	C	N1-C2-N3	-7.76	113.77	119.20
1	2	1143	A	OP1-P-OP2	7.75	131.23	119.60
36	1	883	A	C6-N1-C2	-7.75	113.95	118.60
36	1	2383	C	C4-C5-C6	-7.75	113.52	117.40
36	1	2955	U	N3-C2-O2	-7.75	116.77	122.20
36	1	3224	G	C4-C5-N7	7.75	113.90	110.80
80	6	83	G	C5-C6-N1	-7.75	107.62	111.50
80	6	1317	C	C5-C4-N4	-7.75	114.77	120.20
85	5	192	C	C5-C4-N4	-7.75	114.77	120.20
85	5	1412	G	N3-C2-N2	-7.75	114.47	119.90
85	5	1439	U	O5'-P-OP1	7.75	120.01	110.70
36	1	712	G	C5-C6-O6	-7.75	123.95	128.60
36	1	2788	C	C6-N1-C2	7.75	123.40	120.30
80	6	92	A	O5'-P-OP2	-7.75	98.72	105.70
80	6	164	A	N1-C2-N3	7.75	133.18	129.30
80	6	1586	A	N1-C6-N6	7.75	123.25	118.60
85	5	30	G	N1-C2-N3	7.75	128.55	123.90
85	5	815	G	O4'-C1'-N9	-7.75	102.00	108.20
85	5	948	C	N3-C4-N4	7.75	123.43	118.00
85	5	1485	G	C5-C6-O6	-7.75	123.95	128.60
85	5	1712	G	C6-C5-N7	-7.75	125.75	130.40
85	5	1909	A	O5'-P-OP2	-7.75	98.72	105.70
85	5	2344	U	C6-N1-C2	-7.75	116.35	121.00
85	5	2590	A	C4-C5-N7	7.75	114.58	110.70
37	7	75	G	C8-N9-C4	7.75	109.50	106.40
36	1	259	C	N3-C4-C5	7.75	125.00	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	513	G	C4-C5-N7	-7.75	107.70	110.80
36	1	962	A	C8-N9-C4	-7.75	102.70	105.80
36	1	1160	C	C6-N1-C2	7.75	123.40	120.30
36	1	1345	G	C6-C5-N7	-7.75	125.75	130.40
36	1	2113	A	C5-C6-N1	7.75	121.58	117.70
36	1	3380	U	N3-C4-O4	7.75	124.83	119.40
38	4	135	G	C2-N3-C4	-7.75	108.02	111.90
85	5	4	U	N3-C2-O2	7.75	127.62	122.20
85	5	1390	A	C5-C6-N1	7.75	121.58	117.70
85	5	1703	U	N1-C2-N3	7.75	119.55	114.90
38	8	61	A	O5'-P-OP1	-7.75	98.72	105.70
36	1	600	G	C5-N7-C8	-7.75	100.42	104.30
36	1	2924	U	N3-C2-O2	7.75	127.62	122.20
36	1	2941	A	C6-N1-C2	7.75	123.25	118.60
85	5	1264	G	N3-C4-C5	-7.75	124.72	128.60
85	5	2309	A	OP1-P-OP2	-7.75	107.97	119.60
85	5	2794	G	OP1-P-OP2	7.75	131.22	119.60
85	5	2918	G	N9-C4-C5	7.75	108.50	105.40
1	2	813	U	C5-C4-O4	7.75	130.55	125.90
36	1	960	U	N3-C2-O2	7.75	127.62	122.20
36	1	1209	G	OP1-P-OP2	7.75	131.22	119.60
36	1	1518	U	N3-C2-O2	-7.75	116.78	122.20
36	1	3386	G	C6-C5-N7	-7.75	125.75	130.40
80	6	569	C	N1-C2-N3	7.75	124.62	119.20
80	6	625	C	C5-C4-N4	-7.75	114.78	120.20
80	6	989	U	N3-C4-O4	7.75	124.82	119.40
85	5	147	U	N1-C2-O2	-7.75	117.38	122.80
85	5	410	U	C4-C5-C6	7.75	124.35	119.70
85	5	1166	G	N7-C8-N9	-7.75	109.23	113.10
85	5	2247	G	N9-C4-C5	7.75	108.50	105.40
85	5	2395	G	C6-C5-N7	-7.75	125.75	130.40
1	2	598	U	C4-C5-C6	7.75	124.35	119.70
36	1	1415	U	O5'-P-OP1	-7.75	98.73	105.70
36	1	1643	A	N1-C6-N6	-7.75	113.95	118.60
36	1	2410	U	N3-C4-O4	7.75	124.82	119.40
36	1	3136	G	C5-C6-N1	7.75	115.37	111.50
38	4	113	U	N3-C2-O2	7.75	127.62	122.20
80	6	763	G	C5-C6-N1	-7.75	107.63	111.50
85	5	707	U	C5-C6-N1	-7.75	118.83	122.70
85	5	1205	A	N9-C4-C5	7.75	108.90	105.80
85	5	1863	G	C4-C5-C6	7.75	123.45	118.80
85	5	2302	G	N7-C8-N9	7.75	116.97	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	29	C	O5'-P-OP1	7.75	120.00	110.70
69	o3	18	ARG	NE-CZ-NH1	-7.75	116.43	120.30
36	1	426	G	C5-C6-N1	7.75	115.37	111.50
1	2	1006	A	N1-C6-N6	7.74	123.25	118.60
36	1	669	U	C5-C4-O4	-7.74	121.25	125.90
36	1	1410	U	C2-N3-C4	-7.74	122.35	127.00
36	1	2624	G	C6-C5-N7	-7.74	125.75	130.40
36	1	2906	C	C4-C5-C6	7.74	121.27	117.40
36	1	3121	U	N3-C4-C5	7.74	119.25	114.60
37	3	38	U	C5-C4-O4	-7.74	121.25	125.90
85	5	498	A	C8-N9-C4	-7.74	102.70	105.80
85	5	1309	U	C5-C4-O4	-7.74	121.25	125.90
85	5	2990	G	N1-C6-O6	7.74	124.55	119.90
1	2	586	G	C5-C6-N1	7.74	115.37	111.50
36	1	229	G	N9-C4-C5	7.74	108.50	105.40
36	1	2209	U	N3-C4-O4	7.74	124.82	119.40
85	5	1076	C	N3-C4-N4	-7.74	112.58	118.00
85	5	1939	G	C5-C6-O6	7.74	133.25	128.60
85	5	2240	G	C5-C6-O6	7.74	133.25	128.60
1	2	158	U	N1-C2-O2	-7.74	117.38	122.80
1	2	737	A	N7-C8-N9	-7.74	109.93	113.80
1	2	1101	G	C2-N3-C4	-7.74	108.03	111.90
36	1	1820	U	P-O3'-C3'	7.74	128.99	119.70
36	1	2181	C	C6-N1-C2	-7.74	117.20	120.30
36	1	3103	A	C5-C6-N6	7.74	129.89	123.70
38	4	107	G	C2-N3-C4	-7.74	108.03	111.90
80	6	551	G	N3-C2-N2	-7.74	114.48	119.90
85	5	653	A	C2-N3-C4	-7.74	106.73	110.60
85	5	3376	A	C4-C5-N7	-7.74	106.83	110.70
1	2	109	G	N1-C6-O6	7.74	124.54	119.90
1	2	859	G	C5-C6-O6	-7.74	123.96	128.60
36	1	534	U	N3-C2-O2	-7.74	116.78	122.20
36	1	1013	G	N7-C8-N9	7.74	116.97	113.10
36	1	2182	A	N9-C4-C5	7.74	108.89	105.80
36	1	2292	U	C5-C6-N1	7.74	126.57	122.70
36	1	2395	G	C5-N7-C8	-7.74	100.43	104.30
36	1	2817	A	C5-C6-N1	7.74	121.57	117.70
36	1	3213	A	C4-C5-C6	7.74	120.87	117.00
80	6	1722	A	C4-C5-N7	-7.74	106.83	110.70
85	5	209	A	N9-C4-C5	-7.74	102.70	105.80
85	5	343	U	C4-C5-C6	7.74	124.34	119.70
85	5	780	A	C8-N9-C4	-7.74	102.70	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	900	G	O4'-C1'-N9	7.74	114.39	108.20
85	5	2262	A	C2-N3-C4	7.74	114.47	110.60
36	1	216	G	N7-C8-N9	7.74	116.97	113.10
36	1	282	G	N1-C6-O6	-7.74	115.26	119.90
85	5	853	G	N1-C2-N2	-7.74	109.24	116.20
85	5	1434	G	C8-N9-C4	-7.74	103.31	106.40
36	1	1428	A	C4-C5-N7	7.74	114.57	110.70
36	1	2279	A	N7-C8-N9	7.74	117.67	113.80
85	5	1449	A	N7-C8-N9	-7.74	109.93	113.80
85	5	1889	G	N9-C4-C5	-7.74	102.31	105.40
85	5	3049	A	C5-C6-N6	7.74	129.89	123.70
85	5	3121	U	C5-C4-O4	7.74	130.54	125.90
37	7	91	G	C4-N9-C1'	7.74	136.56	126.50
1	2	1533	A	N1-C6-N6	-7.73	113.96	118.60
36	1	2564	G	O5'-P-OP2	-7.73	98.74	105.70
37	3	90	U	C5-C4-O4	7.73	130.54	125.90
80	6	16	G	C5-C6-N1	7.73	115.37	111.50
36	1	645	A	C5-N7-C8	7.73	107.77	103.90
36	1	709	A	C4-C5-N7	-7.73	106.83	110.70
36	1	1593	A	C2-N3-C4	-7.73	106.73	110.60
36	1	2632	G	C8-N9-C4	7.73	109.49	106.40
36	1	2949	U	OP1-P-O3'	7.73	122.21	105.20
36	1	3385	U	N3-C4-O4	-7.73	113.99	119.40
38	4	114	G	OP1-P-OP2	7.73	131.20	119.60
80	6	279	G	N3-C4-C5	7.73	132.47	128.60
80	6	632	U	N1-C2-O2	7.73	128.21	122.80
85	5	574	U	C5-C6-N1	7.73	126.57	122.70
85	5	1681	U	N3-C4-O4	-7.73	113.99	119.40
85	5	2152	A	N9-C4-C5	7.73	108.89	105.80
85	5	3246	G	O5'-P-OP1	7.73	119.98	110.70
1	2	1726	U	C5-C6-N1	7.73	126.56	122.70
36	1	82	C	C4-C5-C6	7.73	121.27	117.40
36	1	765	C	N1-C2-O2	7.73	123.54	118.90
36	1	2935	U	N3-C4-O4	7.73	124.81	119.40
38	4	71	A	C6-N1-C2	-7.73	113.96	118.60
80	6	263	C	N3-C4-C5	-7.73	118.81	121.90
80	6	607	G	C8-N9-C4	-7.73	103.31	106.40
80	6	634	G	C8-N9-C4	-7.73	103.31	106.40
85	5	793	C	C2-N1-C1'	7.73	127.30	118.80
85	5	1068	C	N1-C2-O2	-7.73	114.26	118.90
85	5	2218	G	N3-C2-N2	7.73	125.31	119.90
1	2	305	C	C4-C5-C6	7.73	121.27	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	878	G	C5-C6-N1	-7.73	107.64	111.50
36	1	52	A	N3-C4-C5	-7.73	121.39	126.80
36	1	805	G	C5-C6-N1	7.73	115.36	111.50
36	1	1935	G	C8-N9-C4	7.73	109.49	106.40
36	1	2426	U	C5-C4-O4	7.73	130.54	125.90
36	1	3044	G	O5'-P-OP1	7.73	119.97	110.70
85	5	351	A	O5'-P-OP2	-7.73	98.74	105.70
85	5	522	A	N1-C2-N3	7.73	133.16	129.30
85	5	1637	A	C6-N1-C2	-7.73	113.96	118.60
85	5	2368	A	N1-C6-N6	-7.73	113.96	118.60
85	5	3329	U	C4-C5-C6	7.73	124.34	119.70
85	5	3385	U	C5-C6-N1	7.73	126.56	122.70
36	1	44	U	N1-C2-O2	7.73	128.21	122.80
36	1	307	A	C6-C5-N7	7.73	137.71	132.30
36	1	817	A	N1-C2-N3	-7.73	125.44	129.30
36	1	1661	G	C4-C5-C6	7.73	123.44	118.80
36	1	2966	G	N1-C6-O6	7.73	124.54	119.90
85	5	367	A	C5-N7-C8	-7.73	100.04	103.90
85	5	380	U	C4-C5-C6	7.73	124.34	119.70
85	5	2907	G	C8-N9-C4	7.73	109.49	106.40
85	5	2978	U	C4-C5-C6	7.73	124.34	119.70
85	5	3025	C	C4-C5-C6	7.73	121.26	117.40
1	2	356	G	C4-C5-N7	7.73	113.89	110.80
1	2	908	G	C2-N3-C4	7.73	115.76	111.90
1	2	1781	U	OP1-P-OP2	-7.73	108.01	119.60
36	1	236	G	N1-C6-O6	-7.73	115.26	119.90
36	1	1341	U	C4-C5-C6	7.73	124.33	119.70
36	1	2896	A	N3-C4-N9	-7.73	121.22	127.40
80	6	542	A	C8-N9-C4	-7.73	102.71	105.80
85	5	1530	U	N3-C4-C5	7.73	119.24	114.60
85	5	1607	U	P-O3'-C3'	7.73	128.97	119.70
85	5	2877	G	C5-C6-N1	7.73	115.36	111.50
1	2	1137	G	C5-N7-C8	-7.72	100.44	104.30
36	1	1539	A	N1-C6-N6	-7.72	113.97	118.60
36	1	1927	G	OP1-P-OP2	7.72	131.19	119.60
36	1	2335	G	C5-C6-O6	7.72	133.24	128.60
38	4	147	U	N3-C4-O4	7.72	124.81	119.40
85	5	598	A	C2-N3-C4	7.72	114.46	110.60
85	5	2234	G	N1-C6-O6	7.72	124.53	119.90
85	5	2272	G	N3-C2-N2	-7.72	114.49	119.90
38	8	102	U	N3-C4-O4	7.72	124.81	119.40
1	2	897	G	C5-C6-N1	-7.72	107.64	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1496	C	N3-C4-C5	-7.72	118.81	121.90
80	6	481	A	N7-C8-N9	-7.72	109.94	113.80
85	5	1866	C	O4'-C1'-N1	-7.72	102.02	108.20
85	5	1876	U	C5-C6-N1	-7.72	118.84	122.70
85	5	3209	A	C4-C5-N7	-7.72	106.84	110.70
1	2	158	U	N3-C2-O2	7.72	127.61	122.20
36	1	2336	U	N1-C2-N3	-7.72	110.27	114.90
36	1	2638	C	C6-N1-C2	-7.72	117.21	120.30
37	3	103	A	O5'-P-OP2	-7.72	98.75	105.70
85	5	3112	G	C5-C6-O6	-7.72	123.97	128.60
36	1	810	A	C8-N9-C4	-7.72	102.71	105.80
36	1	2377	G	N1-C2-N3	7.72	128.53	123.90
37	3	67	G	C5-C6-N1	-7.72	107.64	111.50
85	5	783	A	N3-C4-C5	7.72	132.20	126.80
85	5	813	G	C2-N3-C4	-7.72	108.04	111.90
85	5	1938	U	N3-C4-O4	7.72	124.80	119.40
85	5	2675	C	C2-N3-C4	7.72	123.76	119.90
36	1	245	U	N1-C2-O2	7.72	128.20	122.80
36	1	1695	U	N3-C2-O2	-7.72	116.80	122.20
36	1	1704	A	C6-N1-C2	-7.72	113.97	118.60
85	5	971	G	C5-C6-N1	7.72	115.36	111.50
85	5	1090	G	OP1-P-OP2	-7.72	108.02	119.60
85	5	1214	U	C6-N1-C2	-7.72	116.37	121.00
85	5	2206	G	C2-N3-C4	7.72	115.76	111.90
1	2	93	A	N7-C8-N9	-7.72	109.94	113.80
36	1	678	G	C5-C6-N1	-7.72	107.64	111.50
36	1	1311	G	N1-C6-O6	7.72	124.53	119.90
36	1	1484	U	P-O3'-C3'	7.72	128.96	119.70
36	1	2415	C	N3-C4-N4	-7.72	112.60	118.00
36	1	2528	G	C5-C6-O6	-7.72	123.97	128.60
36	1	2851	A	C4-C5-N7	-7.72	106.84	110.70
38	4	53	A	N9-C4-C5	7.72	108.89	105.80
38	4	60	U	N1-C2-N3	-7.72	110.27	114.90
80	6	1649	G	C8-N9-C1'	7.72	137.03	127.00
85	5	503	C	C5-C4-N4	-7.72	114.80	120.20
85	5	511	G	N9-C4-C5	7.72	108.49	105.40
85	5	2099	A	N1-C6-N6	-7.72	113.97	118.60
85	5	3050	U	O5'-P-OP2	7.72	119.96	110.70
37	7	30	G	N1-C2-N3	7.72	128.53	123.90
1	2	1724	U	N3-C4-C5	-7.71	109.97	114.60
36	1	418	A	C5-C6-N6	7.71	129.87	123.70
80	6	1497	U	N1-C2-O2	-7.71	117.40	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	356	C	N3-C4-C5	7.71	124.99	121.90
85	5	740	G	O5'-P-OP1	-7.71	98.76	105.70
85	5	1439	U	N1-C2-O2	7.71	128.20	122.80
85	5	2125	A	C8-N9-C4	-7.71	102.72	105.80
85	5	3039	C	C5-C6-N1	-7.71	117.14	121.00
1	2	292	U	N1-C2-N3	7.71	119.53	114.90
36	1	642	U	OP1-P-OP2	-7.71	108.03	119.60
36	1	970	A	OP1-P-OP2	-7.71	108.03	119.60
80	6	1395	G	N1-C6-O6	7.71	124.53	119.90
85	5	711	A	C5-C6-N1	-7.71	113.84	117.70
85	5	1899	G	N1-C2-N3	7.71	128.53	123.90
85	5	3328	G	C5-C6-N1	7.71	115.36	111.50
1	2	1165	U	N1-C2-N3	7.71	119.53	114.90
36	1	794	U	C6-N1-C2	7.71	125.63	121.00
36	1	1662	G	N3-C4-N9	7.71	130.63	126.00
36	1	1740	U	N3-C2-O2	7.71	127.60	122.20
80	6	322	G	C5-C6-O6	-7.71	123.97	128.60
80	6	480	G	C5-C6-O6	7.71	133.23	128.60
80	6	924	A	C8-N9-C4	-7.71	102.72	105.80
80	6	1013	A	C5-N7-C8	-7.71	100.04	103.90
80	6	1618	C	C6-N1-C2	7.71	123.38	120.30
85	5	96	G	N3-C4-N9	-7.71	121.37	126.00
85	5	1867	A	N1-C2-N3	7.71	133.16	129.30
38	8	25	G	OP1-P-OP2	7.71	131.17	119.60
1	2	255	U	C6-N1-C2	-7.71	116.37	121.00
36	1	85	A	N1-C2-N3	7.71	133.16	129.30
36	1	672	A	C6-N1-C2	7.71	123.23	118.60
36	1	965	A	N7-C8-N9	7.71	117.66	113.80
36	1	1730	G	N3-C4-C5	-7.71	124.75	128.60
36	1	2918	G	N7-C8-N9	7.71	116.95	113.10
36	1	3332	U	C6-N1-C2	7.71	125.63	121.00
38	4	43	A	C6-N1-C2	-7.71	113.97	118.60
38	4	145	U	C5-C6-N1	-7.71	118.84	122.70
64	N8	63	LYS	CD-CE-NZ	7.71	129.43	111.70
80	6	1285	U	N3-C4-O4	-7.71	114.00	119.40
1	2	559	C	N1-C2-O2	7.71	123.53	118.90
36	1	946	U	C2-N3-C4	-7.71	122.38	127.00
36	1	1304	A	O5'-P-OP1	-7.71	98.76	105.70
36	1	2096	A	N7-C8-N9	7.71	117.65	113.80
36	1	2615	G	N3-C2-N2	-7.71	114.50	119.90
36	1	2656	A	N9-C4-C5	7.71	108.88	105.80
36	1	2818	U	C5-C6-N1	7.71	126.55	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	N8	91	LEU	CB-CG-CD2	-7.71	97.90	111.00
80	6	310	C	C5-C6-N1	-7.71	117.14	121.00
80	6	1718	G	C4-C5-N7	-7.71	107.72	110.80
85	5	202	G	N9-C4-C5	-7.71	102.32	105.40
85	5	499	G	C4-C5-C6	7.71	123.42	118.80
85	5	930	U	N3-C4-O4	-7.71	114.00	119.40
85	5	1113	G	OP2-P-O3'	7.71	122.16	105.20
85	5	2981	U	OP1-P-O3'	7.71	122.16	105.20
36	1	71	A	C8-N9-C4	-7.71	102.72	105.80
36	1	496	C	N3-C4-C5	7.71	124.98	121.90
36	1	500	C	N3-C4-C5	-7.71	118.82	121.90
36	1	771	A	OP1-P-OP2	-7.71	108.04	119.60
36	1	831	G	N3-C2-N2	-7.71	114.51	119.90
36	1	1039	U	C6-N1-C2	7.71	125.62	121.00
36	1	1136	A	C4-C5-C6	7.71	120.85	117.00
36	1	1164	G	C6-C5-N7	-7.71	125.78	130.40
36	1	2100	A	C2-N3-C4	7.71	114.45	110.60
36	1	3126	C	C4-C5-C6	-7.71	113.55	117.40
38	4	92	A	OP1-P-OP2	-7.71	108.04	119.60
80	6	344	A	N1-C2-N3	-7.71	125.45	129.30
80	6	1047	G	C5-N7-C8	-7.71	100.45	104.30
85	5	863	C	C5-C6-N1	-7.71	117.15	121.00
85	5	1539	A	N1-C6-N6	-7.71	113.98	118.60
85	5	2769	A	N7-C8-N9	-7.71	109.95	113.80
85	5	2886	U	N1-C2-O2	-7.71	117.41	122.80
85	5	3145	C	O5'-P-OP2	7.71	119.95	110.70
36	1	1697	A	C5-C6-N1	-7.71	113.85	117.70
36	1	1851	G	N3-C4-C5	7.71	132.45	128.60
36	1	1876	U	C4-C5-C6	7.71	124.32	119.70
36	1	2607	G	N7-C8-N9	-7.71	109.25	113.10
36	1	3239	G	C4-C5-N7	7.71	113.88	110.80
36	1	3337	G	N1-C2-N3	7.71	128.52	123.90
80	6	1172	G	N1-C6-O6	-7.71	115.28	119.90
80	6	1439	C	C5-C6-N1	7.71	124.85	121.00
85	5	1433	A	C5-C6-N1	7.71	121.55	117.70
85	5	2365	C	N3-C2-O2	7.71	127.29	121.90
1	2	1726	U	N3-C4-O4	7.70	124.79	119.40
36	1	805	G	N1-C2-N3	7.70	128.52	123.90
36	1	1346	G	C5-C6-N1	-7.70	107.65	111.50
36	1	2427	U	C5-C6-N1	-7.70	118.85	122.70
36	1	2732	G	N1-C2-N3	7.70	128.52	123.90
36	1	2983	C	C5-C4-N4	7.70	125.59	120.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3052	G	OP1-P-O3'	7.70	122.15	105.20
52	M6	128	ARG	NE-CZ-NH1	-7.70	116.45	120.30
80	6	1095	U	C4-C5-C6	7.70	124.32	119.70
80	6	1620	C	O5'-P-OP1	-7.70	98.77	105.70
85	5	239	G	C8-N9-C4	-7.70	103.32	106.40
85	5	419	G	N1-C2-N2	-7.70	109.27	116.20
85	5	2679	A	N1-C6-N6	7.70	123.22	118.60
1	2	553	G	N7-C8-N9	7.70	116.95	113.10
36	1	209	A	OP1-P-OP2	7.70	131.15	119.60
36	1	2376	G	N1-C6-O6	-7.70	115.28	119.90
80	6	1362	U	N1-C2-O2	7.70	128.19	122.80
85	5	2551	U	N3-C2-O2	-7.70	116.81	122.20
85	5	2831	G	C6-C5-N7	-7.70	125.78	130.40
85	5	3015	G	C4-C5-N7	-7.70	107.72	110.80
85	5	3381	U	N1-C2-N3	7.70	119.52	114.90
1	2	416	A	C4-C5-C6	-7.70	113.15	117.00
1	2	1056	G	C8-N9-C4	7.70	109.48	106.40
1	2	1115	A	C6-C5-N7	7.70	137.69	132.30
1	2	1150	G	C5-C6-O6	-7.70	123.98	128.60
1	2	1507	A	N9-C4-C5	7.70	108.88	105.80
36	1	56	G	C6-N1-C2	-7.70	120.48	125.10
36	1	204	A	C2-N3-C4	-7.70	106.75	110.60
36	1	404	G	N1-C6-O6	-7.70	115.28	119.90
36	1	1809	A	C8-N9-C4	7.70	108.88	105.80
36	1	2376	G	C4-C5-N7	7.70	113.88	110.80
85	5	120	G	O5'-P-OP1	-7.70	98.77	105.70
85	5	305	U	C4-C5-C6	7.70	124.32	119.70
85	5	346	C	C5-C6-N1	-7.70	117.15	121.00
85	5	753	C	C5-C4-N4	-7.70	114.81	120.20
85	5	1373	A	C5-C6-N6	-7.70	117.54	123.70
85	5	1477	A	N1-C2-N3	7.70	133.15	129.30
85	5	3151	U	C2-N3-C4	7.70	131.62	127.00
37	7	32	U	C2-N3-C4	-7.70	122.38	127.00
38	8	52	A	C6-N1-C2	-7.70	113.98	118.60
1	2	1115	A	C5-C6-N6	7.70	129.86	123.70
36	1	306	A	C2-N3-C4	-7.70	106.75	110.60
36	1	366	A	C4-C5-N7	-7.70	106.85	110.70
36	1	797	U	C4-C5-C6	7.70	124.32	119.70
36	1	1088	U	N1-C2-O2	-7.70	117.41	122.80
36	1	1529	A	C6-C5-N7	-7.70	126.91	132.30
36	1	1906	G	C5-N7-C8	-7.70	100.45	104.30
36	1	2140	U	C4-C5-C6	-7.70	115.08	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2609	A	N1-C6-N6	-7.70	113.98	118.60
85	5	79	U	C2-N3-C4	-7.70	122.38	127.00
85	5	216	G	C5-N7-C8	-7.70	100.45	104.30
85	5	400	G	C5-N7-C8	-7.70	100.45	104.30
85	5	953	G	C5-N7-C8	-7.70	100.45	104.30
85	5	1222	G	O5'-P-OP1	-7.70	98.77	105.70
85	5	1445	U	O5'-P-OP2	-7.70	98.77	105.70
85	5	1515	A	C4-C5-N7	7.70	114.55	110.70
85	5	2253	G	C5-C6-O6	-7.70	123.98	128.60
48	m1	143	ARG	NE-CZ-NH1	-7.70	116.45	120.30
36	1	580	C	N1-C2-N3	7.70	124.59	119.20
36	1	702	C	N3-C4-C5	-7.70	118.82	121.90
36	1	1393	A	OP2-P-O3'	7.70	122.13	105.20
36	1	2895	G	N9-C4-C5	-7.70	102.32	105.40
80	6	1293	U	C2-N1-C1'	-7.70	108.46	117.70
36	1	274	G	C5-C6-N1	-7.70	107.65	111.50
36	1	895	A	N3-C4-C5	7.70	132.19	126.80
37	3	66	A	C5-C6-N1	7.70	121.55	117.70
80	6	572	C	N3-C4-C5	7.70	124.98	121.90
80	6	1478	G	O5'-P-OP2	-7.70	98.77	105.70
85	5	1909	A	C5-C6-N1	7.70	121.55	117.70
85	5	2096	A	C2-N3-C4	-7.70	106.75	110.60
85	5	3262	U	N1-C2-N3	7.70	119.52	114.90
36	1	1521	G	OP1-P-OP2	-7.69	108.06	119.60
36	1	1906	G	N1-C6-O6	7.69	124.52	119.90
80	6	360	A	C4-C5-C6	-7.69	113.15	117.00
80	6	609	U	C4-C5-C6	7.69	124.32	119.70
85	5	1223	A	N1-C2-N3	7.69	133.15	129.30
85	5	2250	G	C6-C5-N7	7.69	135.02	130.40
1	2	319	U	C5-C6-N1	7.69	126.55	122.70
36	1	221	A	OP1-P-O3'	7.69	122.12	105.20
36	1	1139	G	N3-C4-N9	-7.69	121.39	126.00
36	1	2890	A	N7-C8-N9	7.69	117.65	113.80
38	4	32	C	C2-N3-C4	-7.69	116.05	119.90
52	M6	16	VAL	CG1-CB-CG2	-7.69	98.59	110.90
80	6	364	G	C6-N1-C2	-7.69	120.48	125.10
85	5	435	C	C6-N1-C2	-7.69	117.22	120.30
85	5	631	U	N1-C2-N3	7.69	119.52	114.90
85	5	735	A	C2-N3-C4	-7.69	106.75	110.60
85	5	1011	A	OP2-P-O3'	7.69	122.12	105.20
38	8	145	U	C5-C6-N1	7.69	126.55	122.70
1	2	432	G	O5'-P-OP2	-7.69	98.78	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	986	A	O5'-P-OP1	-7.69	98.78	105.70
1	2	1193	C	C5-C6-N1	7.69	124.84	121.00
36	1	1622	U	C2-N3-C4	-7.69	122.39	127.00
38	4	139	U	N3-C2-O2	-7.69	116.82	122.20
85	5	900	G	N1-C6-O6	-7.69	115.28	119.90
85	5	1133	A	C4-N9-C1'	7.69	140.14	126.30
85	5	2401	A	N1-C2-N3	-7.69	125.45	129.30
85	5	2548	C	N1-C2-O2	7.69	123.52	118.90
85	5	2769	A	C5-C6-N1	-7.69	113.86	117.70
36	1	698	U	C5-C6-N1	7.69	126.54	122.70
36	1	939	U	N1-C2-N3	7.69	119.51	114.90
36	1	3359	A	N1-C2-N3	-7.69	125.46	129.30
38	4	91	C	N3-C4-C5	7.69	124.98	121.90
80	6	249	U	N1-C2-N3	7.69	119.51	114.90
80	6	936	G	N3-C2-N2	-7.69	114.52	119.90
80	6	1547	A	C5-N7-C8	-7.69	100.06	103.90
85	5	1463	U	O4'-C1'-N1	-7.69	102.05	108.20
85	5	2239	G	N3-C4-N9	-7.69	121.39	126.00
85	5	2328	U	N1-C2-O2	-7.69	117.42	122.80
1	2	430	G	C4-C5-N7	-7.69	107.72	110.80
36	1	1205	A	N9-C4-C5	-7.69	102.72	105.80
36	1	1756	C	OP1-P-OP2	7.69	131.13	119.60
36	1	2639	G	C4-C5-C6	7.69	123.41	118.80
36	1	3187	A	C6-N1-C2	-7.69	113.99	118.60
80	6	1025	A	N1-C6-N6	7.69	123.21	118.60
85	5	91	G	N9-C4-C5	7.69	108.47	105.40
85	5	1494	U	C5-C4-O4	7.69	130.51	125.90
85	5	2382	G	C4-N9-C1'	-7.69	116.51	126.50
85	5	3381	U	O5'-P-OP1	7.69	119.93	110.70
36	1	912	G	C4-C5-N7	-7.69	107.73	110.80
36	1	993	G	C6-N1-C2	-7.69	120.49	125.10
36	1	1300	G	O5'-P-OP2	7.69	119.92	110.70
36	1	1362	G	OP1-P-OP2	-7.69	108.07	119.60
36	1	2351	U	C6-N1-C2	-7.69	116.39	121.00
36	1	3361	G	N1-C2-N2	-7.69	109.28	116.20
80	6	310	C	C4-C5-C6	7.69	121.24	117.40
80	6	1288	G	C8-N9-C4	7.69	109.47	106.40
85	5	76	G	C5-N7-C8	-7.69	100.46	104.30
85	5	2196	C	C5-C4-N4	7.69	125.58	120.20
85	5	2651	G	C8-N9-C4	7.69	109.47	106.40
1	2	47	A	C6-N1-C2	-7.68	113.99	118.60
1	2	93	A	N1-C6-N6	-7.68	113.99	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	335	G	N9-C4-C5	7.68	108.47	105.40
36	1	437	G	C2-N3-C4	7.68	115.74	111.90
36	1	567	G	C5-C6-N1	-7.68	107.66	111.50
36	1	942	U	C2-N1-C1'	7.68	126.92	117.70
36	1	2211	U	C5-C4-O4	7.68	130.51	125.90
36	1	3266	G	C5-N7-C8	7.68	108.14	104.30
85	5	815	G	C6-C5-N7	7.68	135.01	130.40
85	5	894	G	N7-C8-N9	7.68	116.94	113.10
85	5	932	U	C5-C6-N1	-7.68	118.86	122.70
38	8	148	G	N1-C6-O6	7.68	124.51	119.90
36	1	1899	G	C5-C6-N1	7.68	115.34	111.50
36	1	1925	U	OP1-P-OP2	7.68	131.12	119.60
38	4	152	G	C5-C6-O6	7.68	133.21	128.60
80	6	1656	U	O5'-P-OP2	-7.68	98.79	105.70
85	5	96	G	C4-C5-N7	7.68	113.87	110.80
85	5	2255	A	C5-C6-N1	7.68	121.54	117.70
85	5	2312	A	N1-C6-N6	-7.68	113.99	118.60
37	7	71	G	N9-C4-C5	-7.68	102.33	105.40
38	8	102	U	N3-C4-C5	-7.68	109.99	114.60
36	1	2561	A	C8-N9-C4	7.68	108.87	105.80
37	3	27	A	C8-N9-C4	-7.68	102.73	105.80
80	6	381	C	OP1-P-O3'	-7.68	88.30	105.20
80	6	561	G	C5-C6-N1	-7.68	107.66	111.50
80	6	788	A	O5'-P-OP1	7.68	119.92	110.70
85	5	1598	G	C8-N9-C4	7.68	109.47	106.40
85	5	1616	U	C4-C5-C6	7.68	124.31	119.70
85	5	2890	A	N1-C6-N6	-7.68	113.99	118.60
85	5	3328	G	N7-C8-N9	7.68	116.94	113.10
1	2	1121	A	C8-N9-C4	-7.68	102.73	105.80
36	1	210	U	N3-C4-O4	-7.68	114.03	119.40
36	1	668	G	N1-C6-O6	-7.68	115.29	119.90
36	1	820	A	C2-N3-C4	7.68	114.44	110.60
36	1	923	C	N3-C2-O2	-7.68	116.52	121.90
36	1	1716	U	O5'-P-OP2	-7.68	98.79	105.70
36	1	2549	G	C5-N7-C8	7.68	108.14	104.30
36	1	3202	G	N3-C2-N2	7.68	125.28	119.90
80	6	1670	G	N3-C2-N2	-7.68	114.52	119.90
85	5	60	A	N1-C2-N3	7.68	133.14	129.30
85	5	88	A	N3-C4-C5	7.68	132.18	126.80
85	5	1536	G	C4-C5-N7	7.68	113.87	110.80
85	5	2806	U	C5-C6-N1	-7.68	118.86	122.70
85	5	2850	G	N9-C4-C5	-7.68	102.33	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2941	A	C8-N9-C4	-7.68	102.73	105.80
85	5	3154	C	N1-C2-O2	7.68	123.51	118.90
85	5	3179	U	C6-N1-C2	-7.68	116.39	121.00
52	m6	53	LYS	CD-CE-NZ	7.68	129.36	111.70
36	1	3041	U	OP1-P-OP2	-7.68	108.08	119.60
85	5	607	A	C4-C5-N7	-7.68	106.86	110.70
85	5	2671	A	N1-C2-N3	7.68	133.14	129.30
1	2	322	G	N1-C2-N3	7.68	128.51	123.90
1	2	887	G	C5-C6-O6	7.68	133.21	128.60
36	1	2710	C	N3-C2-O2	7.68	127.27	121.90
38	4	122	U	OP1-P-OP2	-7.68	108.08	119.60
80	6	670	U	N1-C2-O2	7.68	128.17	122.80
80	6	1070	C	C6-N1-C1'	7.68	130.01	120.80
80	6	1154	G	C5-N7-C8	-7.68	100.46	104.30
80	6	1154	G	N1-C2-N3	7.68	128.51	123.90
85	5	1406	A	C4-C5-N7	7.68	114.54	110.70
85	5	1440	G	OP1-P-O3'	-7.68	88.31	105.20
85	5	1551	C	N1-C2-O2	-7.68	114.29	118.90
85	5	2750	U	N1-C2-N3	7.68	119.51	114.90
1	2	613	G	C2-N3-C4	7.67	115.74	111.90
1	2	625	C	N3-C2-O2	-7.67	116.53	121.90
36	1	27	C	N3-C2-O2	-7.67	116.53	121.90
36	1	889	U	C5-C4-O4	-7.67	121.30	125.90
36	1	2582	C	C5-C6-N1	7.67	124.84	121.00
36	1	2957	G	N1-C2-N3	7.67	128.50	123.90
36	1	3364	C	C5-C4-N4	7.67	125.57	120.20
80	6	33	U	N3-C4-O4	7.67	124.77	119.40
85	5	50	U	C6-N1-C2	-7.67	116.39	121.00
85	5	290	G	C8-N9-C4	7.67	109.47	106.40
85	5	1679	A	C2-N3-C4	7.67	114.44	110.60
85	5	2145	A	N7-C8-N9	7.67	117.64	113.80
85	5	2696	A	C4-C5-C6	-7.67	113.16	117.00
85	5	2946	A	C5-N7-C8	-7.67	100.06	103.90
1	2	1506	G	N1-C6-O6	-7.67	115.30	119.90
36	1	1129	A	C8-N9-C4	-7.67	102.73	105.80
36	1	2114	C	C2-N3-C4	-7.67	116.06	119.90
36	1	2416	U	N3-C4-O4	-7.67	114.03	119.40
36	1	3000	A	O4'-C1'-N9	-7.67	102.06	108.20
38	4	81	U	C5-C4-O4	7.67	130.50	125.90
80	6	1663	G	C4-C5-C6	7.67	123.40	118.80
85	5	3378	C	N3-C4-C5	7.67	124.97	121.90
1	2	356	G	N7-C8-N9	7.67	116.94	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1338	C	C4-C5-C6	-7.67	113.56	117.40
36	1	3324	C	C6-N1-C2	7.67	123.37	120.30
80	6	9	U	N1-C2-N3	7.67	119.50	114.90
80	6	58	U	C2-N3-C4	7.67	131.60	127.00
80	6	988	A	O5'-P-OP2	-7.67	98.80	105.70
80	6	1041	G	N9-C4-C5	7.67	108.47	105.40
85	5	327	A	N1-C2-N3	-7.67	125.46	129.30
85	5	407	A	C6-C5-N7	-7.67	126.93	132.30
85	5	950	G	N1-C2-N2	-7.67	109.30	116.20
85	5	2112	U	N3-C2-O2	7.67	127.57	122.20
85	5	2974	U	N1-C2-N3	7.67	119.50	114.90
1	2	598	U	C5-C6-N1	-7.67	118.86	122.70
85	5	404	G	N7-C8-N9	7.67	116.94	113.10
85	5	638	C	C4-C5-C6	7.67	121.23	117.40
85	5	1041	U	N3-C2-O2	7.67	127.57	122.20
85	5	1045	C	O5'-P-OP2	7.67	119.90	110.70
1	2	377	G	C6-C5-N7	7.67	135.00	130.40
1	2	1101	G	C5-C6-N1	-7.67	107.67	111.50
36	1	134	U	N3-C4-C5	7.67	119.20	114.60
36	1	189	G	N7-C8-N9	7.67	116.94	113.10
36	1	201	A	C4-C5-C6	7.67	120.83	117.00
36	1	1380	G	O5'-P-OP2	-7.67	98.80	105.70
36	1	1580	A	C2-N3-C4	7.67	114.43	110.60
36	1	2361	A	C6-N1-C2	-7.67	114.00	118.60
36	1	2838	A	O5'-P-OP1	7.67	119.90	110.70
38	4	53	A	C4-C5-N7	-7.67	106.87	110.70
80	6	578	U	C6-N1-C2	7.67	125.60	121.00
85	5	2139	A	N1-C2-N3	7.67	133.13	129.30
85	5	3325	G	O5'-P-OP2	-7.67	98.80	105.70
36	1	344	A	O5'-P-OP1	-7.67	98.80	105.70
36	1	696	C	N3-C2-O2	-7.67	116.53	121.90
36	1	1425	U	C4-C5-C6	7.67	124.30	119.70
36	1	1531	C	C6-N1-C2	-7.67	117.23	120.30
85	5	812	G	N9-C4-C5	7.67	108.47	105.40
85	5	849	C	O5'-P-OP2	-7.67	98.80	105.70
1	2	982	U	C6-N1-C2	-7.67	116.40	121.00
36	1	282	G	N1-C2-N3	7.67	128.50	123.90
36	1	705	A	N1-C6-N6	7.67	123.20	118.60
36	1	3098	G	N1-C2-N3	7.67	128.50	123.90
80	6	864	U	N1-C2-N3	7.67	119.50	114.90
36	1	8	C	C6-N1-C2	7.66	123.36	120.30
36	1	693	A	N1-C2-N3	7.66	133.13	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2218	G	N1-C6-O6	-7.66	115.30	119.90
36	1	2732	G	C2-N3-C4	-7.66	108.07	111.90
36	1	3325	G	C8-N9-C4	-7.66	103.33	106.40
80	6	859	A	O5'-P-OP2	-7.66	98.80	105.70
85	5	907	G	C5-C6-O6	-7.66	124.00	128.60
85	5	1280	C	N3-C4-C5	7.66	124.97	121.90
1	2	149	C	N3-C2-O2	-7.66	116.54	121.90
36	1	738	A	N1-C6-N6	-7.66	114.00	118.60
36	1	1393	A	C8-N9-C4	7.66	108.86	105.80
36	1	3197	G	N3-C4-C5	7.66	132.43	128.60
38	4	9	A	C6-N1-C2	-7.66	114.00	118.60
80	6	390	G	C5-N7-C8	-7.66	100.47	104.30
85	5	389	A	C2-N3-C4	-7.66	106.77	110.60
85	5	2321	A	N1-C6-N6	7.66	123.20	118.60
85	5	2810	C	C6-N1-C2	-7.66	117.23	120.30
36	1	560	G	N1-C6-O6	7.66	124.50	119.90
36	1	583	G	C6-N1-C2	-7.66	120.50	125.10
36	1	1723	A	C5-C6-N1	7.66	121.53	117.70
36	1	3246	G	N3-C2-N2	7.66	125.26	119.90
80	6	394	C	N3-C4-N4	7.66	123.36	118.00
85	5	244	G	N3-C2-N2	7.66	125.26	119.90
85	5	655	C	N1-C2-N3	7.66	124.56	119.20
85	5	2213	A	N1-C6-N6	-7.66	114.00	118.60
85	5	2223	A	C5-C6-N6	7.66	129.83	123.70
85	5	2576	G	C2-N3-C4	-7.66	108.07	111.90
38	8	3	A	C5-N7-C8	-7.66	100.07	103.90
36	1	272	G	C5-C6-O6	7.66	133.19	128.60
36	1	794	U	N1-C2-O2	-7.66	117.44	122.80
36	1	1138	U	N3-C4-O4	7.66	124.76	119.40
36	1	1215	U	C5-C4-O4	7.66	130.50	125.90
36	1	1373	A	O5'-P-OP1	7.66	119.89	110.70
36	1	1813	A	N3-C4-C5	-7.66	121.44	126.80
36	1	3005	A	O5'-P-OP1	-7.66	98.81	105.70
38	4	45	C	C6-N1-C2	7.66	123.36	120.30
38	4	51	G	C6-N1-C2	-7.66	120.50	125.10
80	6	358	U	C2-N3-C4	7.66	131.59	127.00
80	6	1035	G	N1-C6-O6	-7.66	115.31	119.90
85	5	24	G	C6-C5-N7	7.66	135.00	130.40
85	5	381	U	C4-C5-C6	7.66	124.30	119.70
85	5	1018	G	C2-N3-C4	7.66	115.73	111.90
85	5	1634	G	C6-C5-N7	-7.66	125.81	130.40
85	5	2648	G	N3-C4-C5	7.66	132.43	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1429	A	C8-N9-C4	-7.66	102.74	105.80
36	1	645	A	O5'-P-OP2	7.66	119.89	110.70
36	1	3002	C	N3-C4-N4	-7.66	112.64	118.00
85	5	1845	G	C6-N1-C2	-7.66	120.51	125.10
85	5	2839	G	C5-C6-O6	-7.66	124.01	128.60
85	5	2858	U	N3-C4-C5	-7.66	110.01	114.60
36	1	344	A	OP2-P-O3'	7.66	122.04	105.20
36	1	532	A	O5'-P-OP2	-7.66	98.81	105.70
36	1	937	G	C6-N1-C2	-7.66	120.51	125.10
36	1	1070	U	C5-C4-O4	7.66	130.49	125.90
36	1	2213	A	C6-N1-C2	-7.66	114.01	118.60
36	1	2761	G	C4-C5-C6	7.66	123.39	118.80
64	N8	133	LEU	CB-CG-CD1	-7.66	97.98	111.00
80	6	555	A	N7-C8-N9	7.66	117.63	113.80
80	6	571	G	N9-C4-C5	7.66	108.46	105.40
80	6	783	G	C5-N7-C8	7.66	108.13	104.30
80	6	1291	G	C5-C6-O6	7.66	133.19	128.60
85	5	379	C	N3-C4-N4	7.66	123.36	118.00
85	5	395	A	N1-C2-N3	7.66	133.13	129.30
85	5	999	G	C8-N9-C4	7.66	109.46	106.40
85	5	1032	C	C2-N3-C4	7.66	123.73	119.90
85	5	1687	U	OP1-P-OP2	7.66	131.08	119.60
36	1	57	A	O5'-P-OP1	7.65	119.89	110.70
36	1	1120	A	N3-C4-C5	-7.65	121.44	126.80
36	1	2180	G	C5-C6-O6	-7.65	124.01	128.60
85	5	93	C	C5-C4-N4	-7.65	114.84	120.20
85	5	645	A	O5'-P-OP2	-7.65	98.81	105.70
85	5	1119	C	N1-C2-O2	-7.65	114.31	118.90
85	5	1415	U	C2-N3-C4	7.65	131.59	127.00
1	2	1593	G	N1-C2-N2	-7.65	109.31	116.20
36	1	710	A	O5'-P-OP2	7.65	119.88	110.70
36	1	742	G	N3-C4-N9	-7.65	121.41	126.00
36	1	1128	U	N1-C2-O2	-7.65	117.44	122.80
36	1	2375	G	O5'-P-OP2	7.65	119.88	110.70
36	1	2424	A	C4-C5-N7	7.65	114.53	110.70
36	1	2977	G	N3-C2-N2	7.65	125.26	119.90
36	1	3150	A	N7-C8-N9	7.65	117.63	113.80
36	1	3390	G	O5'-P-OP1	-7.65	98.81	105.70
38	4	16	G	N9-C4-C5	7.65	108.46	105.40
49	M3	101	ARG	NE-CZ-NH1	7.65	124.13	120.30
85	5	330	G	N3-C2-N2	-7.65	114.54	119.90
85	5	359	U	C2-N3-C4	7.65	131.59	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	530	G	C6-C5-N7	-7.65	125.81	130.40
85	5	857	G	OP1-P-OP2	7.65	131.08	119.60
85	5	1438	U	C4-C5-C6	7.65	124.29	119.70
85	5	2430	A	C5-C6-N1	-7.65	113.87	117.70
38	8	110	C	N1-C2-O2	-7.65	114.31	118.90
36	1	326	U	N3-C4-C5	-7.65	110.01	114.60
36	1	679	U	C4-C5-C6	7.65	124.29	119.70
36	1	1663	C	C6-N1-C2	7.65	123.36	120.30
36	1	1748	G	N9-C4-C5	7.65	108.46	105.40
36	1	2737	C	N1-C2-O2	-7.65	114.31	118.90
36	1	3188	G	C4-C5-N7	7.65	113.86	110.80
37	3	22	A	OP1-P-OP2	-7.65	108.12	119.60
80	6	1346	A	C2-N3-C4	7.65	114.42	110.60
80	6	1723	U	C4-C5-C6	7.65	124.29	119.70
80	6	1740	A	N1-C6-N6	-7.65	114.01	118.60
85	5	282	G	C6-N1-C2	-7.65	120.51	125.10
85	5	523	A	C8-N9-C4	7.65	108.86	105.80
85	5	565	U	C5-C4-O4	-7.65	121.31	125.90
85	5	804	C	N3-C4-N4	7.65	123.36	118.00
85	5	1315	U	N1-C2-O2	7.65	128.16	122.80
85	5	1790	G	N1-C6-O6	7.65	124.49	119.90
85	5	2758	A	OP1-P-OP2	7.65	131.08	119.60
85	5	2934	A	C2-N3-C4	7.65	114.42	110.60
85	5	3023	U	N3-C4-C5	-7.65	110.01	114.60
85	5	3087	A	N1-C6-N6	7.65	123.19	118.60
85	5	3178	A	C5-N7-C8	7.65	107.72	103.90
38	4	1	A	N3-C4-C5	7.65	132.15	126.80
85	5	3305	A	N3-C4-C5	7.65	132.15	126.80
1	2	1299	G	C4-C5-N7	-7.65	107.74	110.80
36	1	508	U	O5'-P-OP2	7.65	119.88	110.70
36	1	1032	C	N1-C2-O2	7.65	123.49	118.90
36	1	1079	A	C8-N9-C4	-7.65	102.74	105.80
36	1	2895	G	N3-C4-C5	7.65	132.42	128.60
80	6	53	G	C2-N3-C4	-7.65	108.08	111.90
80	6	571	G	C8-N9-C4	-7.65	103.34	106.40
80	6	1574	G	C2-N3-C4	7.65	115.72	111.90
80	6	1654	G	N1-C6-O6	7.65	124.49	119.90
85	5	655	C	C2-N3-C4	-7.65	116.08	119.90
85	5	804	C	N1-C2-N3	-7.65	113.85	119.20
85	5	1592	G	C4-C5-N7	-7.65	107.74	110.80
85	5	1853	U	OP2-P-O3'	7.65	122.03	105.20
85	5	2215	A	C8-N9-C4	7.65	108.86	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	43	U	C5-C6-N1	-7.65	118.88	122.70
1	2	914	C	N3-C2-O2	7.65	127.25	121.90
36	1	948	C	C2-N1-C1'	-7.65	110.39	118.80
36	1	1409	G	N1-C2-N3	7.65	128.49	123.90
80	6	425	A	C5-C6-N6	-7.65	117.58	123.70
80	6	1582	U	C5-C4-O4	7.65	130.49	125.90
85	5	308	A	N1-C6-N6	7.65	123.19	118.60
85	5	397	A	C5-C6-N1	7.65	121.52	117.70
85	5	757	C	O5'-P-OP1	7.65	119.88	110.70
85	5	2294	U	OP1-P-O3'	7.65	122.02	105.20
85	5	2372	A	N1-C6-N6	-7.65	114.01	118.60
85	5	3171	U	N3-C4-O4	-7.65	114.05	119.40
37	7	99	G	N1-C2-N3	7.65	128.49	123.90
1	2	247	A	C2-N3-C4	-7.64	106.78	110.60
1	2	1102	G	N1-C2-N2	-7.64	109.32	116.20
36	1	54	C	OP1-P-OP2	7.64	131.07	119.60
36	1	779	G	C6-N1-C2	-7.64	120.51	125.10
36	1	2571	U	N1-C2-O2	7.64	128.15	122.80
80	6	1044	U	OP1-P-OP2	7.64	131.07	119.60
85	5	1462	A	OP1-P-OP2	-7.64	108.13	119.60
85	5	2158	A	N9-C4-C5	7.64	108.86	105.80
85	5	2402	A	C8-N9-C4	-7.64	102.74	105.80
1	2	356	G	C5-C6-O6	-7.64	124.02	128.60
1	2	632	U	C5-C6-N1	-7.64	118.88	122.70
36	1	2201	G	C5-C6-O6	-7.64	124.02	128.60
36	1	2203	U	C5-C6-N1	7.64	126.52	122.70
36	1	2771	U	N3-C4-C5	7.64	119.19	114.60
36	1	3265	C	N3-C2-O2	7.64	127.25	121.90
80	6	315	A	C5-N7-C8	-7.64	100.08	103.90
85	5	153	U	O5'-P-OP2	-7.64	98.82	105.70
85	5	504	A	C6-C5-N7	-7.64	126.95	132.30
85	5	715	A	N9-C4-C5	7.64	108.86	105.80
85	5	868	C	N3-C4-C5	-7.64	118.84	121.90
85	5	918	C	C2-N1-C1'	-7.64	110.39	118.80
36	1	37	U	N3-C4-O4	7.64	124.75	119.40
36	1	3368	U	C5-C4-O4	7.64	130.48	125.90
80	6	1634	C	N3-C2-O2	-7.64	116.55	121.90
85	5	606	C	O5'-P-OP2	-7.64	98.82	105.70
85	5	1176	C	C2-N3-C4	7.64	123.72	119.90
85	5	1602	A	C5-C6-N1	-7.64	113.88	117.70
85	5	2169	G	C2-N3-C4	7.64	115.72	111.90
36	1	675	C	N1-C2-O2	-7.64	114.32	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	864	G	C2-N3-C4	-7.64	108.08	111.90
36	1	951	A	N1-C2-N3	7.64	133.12	129.30
38	4	4	C	N1-C2-N3	7.64	124.55	119.20
38	4	125	U	O5'-P-OP1	-7.64	98.82	105.70
80	6	1020	A	C6-N1-C2	-7.64	114.02	118.60
80	6	1073	G	C5-C6-O6	7.64	133.18	128.60
85	5	49	A	C6-C5-N7	-7.64	126.95	132.30
85	5	982	C	C5-C6-N1	7.64	124.82	121.00
85	5	1581	C	N3-C4-N4	7.64	123.35	118.00
85	5	1660	C	N3-C4-C5	7.64	124.96	121.90
85	5	1879	A	C8-N9-C4	-7.64	102.74	105.80
85	5	2152	A	OP2-P-O3'	7.64	122.01	105.20
85	5	3031	G	OP1-P-OP2	-7.64	108.14	119.60
85	5	3113	A	N1-C6-N6	-7.64	114.02	118.60
37	7	26	C	C4-C5-C6	7.64	121.22	117.40
1	2	1250	G	C4-C5-N7	7.64	113.86	110.80
36	1	949	C	C2-N3-C4	-7.64	116.08	119.90
36	1	2845	A	O5'-P-OP2	-7.64	98.83	105.70
36	1	3021	A	N9-C4-C5	7.64	108.86	105.80
80	6	230	C	C2-N3-C4	7.64	123.72	119.90
85	5	392	G	C5-N7-C8	-7.64	100.48	104.30
36	1	340	C	C5-C6-N1	-7.64	117.18	121.00
36	1	347	G	C4-N9-C1'	7.64	136.43	126.50
36	1	755	A	C6-N1-C2	-7.64	114.02	118.60
36	1	947	G	C6-C5-N7	-7.64	125.82	130.40
36	1	960	U	C2-N1-C1'	-7.64	108.54	117.70
36	1	1595	U	N1-C2-O2	-7.64	117.45	122.80
36	1	1853	U	OP2-P-O3'	7.64	122.00	105.20
80	6	1723	U	N1-C2-N3	7.64	119.48	114.90
85	5	442	G	C2-N3-C4	7.64	115.72	111.90
85	5	1039	U	N3-C2-O2	7.64	127.55	122.20
85	5	1284	C	N3-C4-C5	7.64	124.95	121.90
37	7	46	A	N1-C2-N3	7.64	133.12	129.30
38	8	103	G	C8-N9-C4	-7.64	103.35	106.40
1	2	523	G	C2-N3-C4	-7.63	108.08	111.90
1	2	1094	G	C2-N3-C4	-7.63	108.08	111.90
1	2	1250	G	C6-C5-N7	-7.63	125.82	130.40
1	2	1454	A	C8-N9-C4	-7.63	102.75	105.80
36	1	1224	C	N3-C2-O2	-7.63	116.56	121.90
36	1	2813	A	C5-C6-N1	-7.63	113.88	117.70
85	5	192	C	OP1-P-O3'	7.63	122.00	105.20
85	5	591	G	C6-C5-N7	-7.63	125.82	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	736	A	C5-C6-N1	-7.63	113.88	117.70
85	5	878	G	C5-C6-N1	7.63	115.32	111.50
85	5	1094	U	N1-C2-O2	7.63	128.15	122.80
85	5	2195	C	C5-C6-N1	-7.63	117.18	121.00
85	5	2271	A	C5-C6-N1	7.63	121.52	117.70
85	5	2660	G	OP1-P-OP2	-7.63	108.15	119.60
85	5	2714	G	C5-N7-C8	-7.63	100.48	104.30
85	5	3103	A	C4-C5-N7	7.63	114.52	110.70
85	5	3130	A	N1-C2-N3	7.63	133.12	129.30
37	7	45	A	C2-N3-C4	7.63	114.42	110.60
36	1	277	G	C5-C6-N1	7.63	115.32	111.50
36	1	1799	A	C5-C6-N1	-7.63	113.88	117.70
36	1	2718	U	N1-C2-O2	7.63	128.14	122.80
36	1	2843	U	N1-C2-O2	7.63	128.14	122.80
80	6	390	G	N1-C6-O6	7.63	124.48	119.90
85	5	661	G	C8-N9-C4	-7.63	103.35	106.40
85	5	1691	U	N1-C2-O2	7.63	128.14	122.80
37	7	11	A	N1-C2-N3	7.63	133.12	129.30
1	2	1000	U	O5'-P-OP1	-7.63	98.83	105.70
36	1	61	A	N1-C2-N3	7.63	133.12	129.30
36	1	322	U	N1-C2-N3	7.63	119.48	114.90
36	1	1174	G	C4-C5-N7	7.63	113.85	110.80
36	1	1850	A	C2-N3-C4	-7.63	106.78	110.60
36	1	2170	U	C5-C6-N1	-7.63	118.88	122.70
36	1	2619	G	C5-N7-C8	-7.63	100.48	104.30
80	6	1653	C	N3-C4-C5	-7.63	118.85	121.90
85	5	105	C	N3-C2-O2	7.63	127.24	121.90
85	5	884	A	C2-N3-C4	-7.63	106.78	110.60
85	5	1124	U	O4'-C1'-N1	7.63	114.31	108.20
85	5	1388	U	N1-C2-O2	-7.63	117.46	122.80
85	5	2199	G	C8-N9-C4	-7.63	103.35	106.40
85	5	2850	G	N7-C8-N9	-7.63	109.28	113.10
85	5	2925	C	O5'-P-OP2	-7.63	98.83	105.70
36	1	1389	G	C4-C5-C6	-7.63	114.22	118.80
36	1	1552	G	C5-C6-N1	-7.63	107.69	111.50
85	5	321	C	C6-N1-C2	7.63	123.35	120.30
85	5	695	C	C6-N1-C1'	-7.63	111.64	120.80
85	5	833	G	C8-N9-C4	7.63	109.45	106.40
85	5	1922	A	N1-C2-N3	7.63	133.12	129.30
85	5	3118	C	C2-N3-C4	-7.63	116.08	119.90
38	8	5	U	N3-C4-O4	7.63	124.74	119.40
36	1	613	G	O5'-P-OP2	7.63	119.85	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1211	U	N1-C2-N3	7.63	119.48	114.90
36	1	1506	A	C8-N9-C4	-7.63	102.75	105.80
36	1	1512	U	OP2-P-O3'	7.63	121.98	105.20
36	1	2372	A	N1-C6-N6	7.63	123.18	118.60
80	6	456	A	N1-C2-N3	7.63	133.11	129.30
85	5	13	A	O5'-P-OP1	-7.63	98.83	105.70
85	5	28	C	N3-C2-O2	-7.63	116.56	121.90
85	5	2147	A	N3-C4-C5	-7.63	121.46	126.80
85	5	2703	A	N7-C8-N9	7.63	117.61	113.80
37	7	25	G	N1-C6-O6	-7.63	115.32	119.90
37	7	27	A	OP2-P-O3'	-7.63	88.42	105.20
1	2	433	C	C5-C6-N1	7.63	124.81	121.00
1	2	1172	A	N1-C6-N6	7.63	123.18	118.60
36	1	997	A	C8-N9-C4	-7.63	102.75	105.80
36	1	1679	A	O5'-P-OP2	7.63	119.85	110.70
36	1	2760	C	O5'-P-OP2	-7.63	98.84	105.70
36	1	3214	U	N3-C2-O2	-7.63	116.86	122.20
80	6	1280	C	N3-C4-N4	7.63	123.34	118.00
85	5	409	A	N3-C4-C5	-7.63	121.46	126.80
85	5	688	G	N3-C2-N2	-7.63	114.56	119.90
85	5	1196	C	C5-C6-N1	-7.63	117.19	121.00
85	5	1322	U	O5'-P-OP1	7.63	119.85	110.70
85	5	2794	G	C5-N7-C8	-7.63	100.49	104.30
85	5	2816	G	C5-C6-N1	-7.63	107.69	111.50
37	7	51	A	C2-N3-C4	-7.63	106.79	110.60
36	1	2192	C	C2-N3-C4	-7.62	116.09	119.90
36	1	2880	U	N1-C2-N3	7.62	119.47	114.90
80	6	459	G	N7-C8-N9	7.62	116.91	113.10
80	6	1738	U	C4-C5-C6	7.62	124.28	119.70
85	5	2306	C	C2-N3-C4	7.62	123.71	119.90
1	2	1153	G	N1-C6-O6	7.62	124.47	119.90
36	1	284	A	C4-C5-C6	7.62	120.81	117.00
36	1	1441	G	C5-C6-O6	7.62	133.18	128.60
38	4	103	G	N1-C2-N2	-7.62	109.34	116.20
80	6	1659	A	C6-C5-N7	-7.62	126.96	132.30
85	5	54	C	C5-C6-N1	-7.62	117.19	121.00
85	5	304	G	N1-C6-O6	7.62	124.47	119.90
85	5	2172	A	C6-C5-N7	-7.62	126.96	132.30
85	5	2595	A	N7-C8-N9	7.62	117.61	113.80
85	5	2623	G	N9-C4-C5	-7.62	102.35	105.40
85	5	2714	G	C5-C6-O6	-7.62	124.03	128.60
37	7	50	U	C2-N3-C4	7.62	131.57	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	833	A	N9-C4-C5	-7.62	102.75	105.80
1	2	1110	G	C5-N7-C8	7.62	108.11	104.30
1	2	1201	G	C5-C6-N1	-7.62	107.69	111.50
1	2	1643	A	N7-C8-N9	-7.62	109.99	113.80
36	1	368	G	N1-C2-N3	7.62	128.47	123.90
36	1	988	U	N1-C2-O2	-7.62	117.47	122.80
36	1	1181	U	C5-C6-N1	-7.62	118.89	122.70
36	1	2858	U	N1-C2-N3	7.62	119.47	114.90
38	4	89	A	C5-C6-N1	-7.62	113.89	117.70
80	6	622	A	O5'-P-OP1	-7.62	98.84	105.70
85	5	519	A	C5-N7-C8	-7.62	100.09	103.90
85	5	1540	U	C5-C6-N1	-7.62	118.89	122.70
85	5	1756	C	O5'-P-OP1	-7.62	98.84	105.70
85	5	1841	A	C4-C5-N7	7.62	114.51	110.70
85	5	2657	A	C8-N9-C4	-7.62	102.75	105.80
85	5	2972	G	C2-N3-C4	-7.62	108.09	111.90
85	5	3274	A	C5-C6-N6	7.62	129.80	123.70
36	1	626	U	N3-C4-C5	-7.62	110.03	114.60
36	1	1323	G	N7-C8-N9	-7.62	109.29	113.10
36	1	2805	G	N1-C2-N3	7.62	128.47	123.90
37	3	81	U	N3-C2-O2	-7.62	116.87	122.20
85	5	615	U	O5'-P-OP2	7.62	119.84	110.70
85	5	801	A	C4-C5-C6	7.62	120.81	117.00
85	5	1607	U	O5'-P-OP2	-7.62	98.84	105.70
85	5	1881	A	C8-N9-C4	-7.62	102.75	105.80
85	5	3315	G	N1-C2-N3	7.62	128.47	123.90
38	8	33	A	C6-N1-C2	-7.62	114.03	118.60
1	2	955	G	C4-C5-N7	7.62	113.85	110.80
36	1	435	C	N3-C4-C5	7.62	124.95	121.90
36	1	1287	A	C2-N3-C4	-7.62	106.79	110.60
36	1	1553	U	N3-C4-O4	7.62	124.73	119.40
36	1	2843	U	N3-C2-O2	-7.62	116.87	122.20
37	3	45	A	O5'-P-OP2	-7.62	98.84	105.70
80	6	482	U	C6-N1-C2	-7.62	116.43	121.00
80	6	1046	G	N1-C2-N2	-7.62	109.34	116.20
85	5	174	C	C6-N1-C2	7.62	123.35	120.30
85	5	539	C	OP1-P-OP2	-7.62	108.17	119.60
85	5	607	A	C2-N3-C4	-7.62	106.79	110.60
85	5	914	A	C6-C5-N7	-7.62	126.97	132.30
85	5	1157	G	N1-C6-O6	-7.62	115.33	119.90
85	5	1321	G	N3-C4-N9	-7.62	121.43	126.00
36	1	50	U	OP1-P-OP2	7.62	131.03	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	224	C	C6-N1-C2	-7.62	117.25	120.30
85	5	408	A	C5-N7-C8	7.62	107.71	103.90
85	5	1446	A	N3-C4-C5	-7.62	121.47	126.80
85	5	2228	A	OP1-P-OP2	7.62	131.03	119.60
1	2	569	C	C4-C5-C6	7.62	121.21	117.40
1	2	1292	C	C5-C6-N1	-7.62	117.19	121.00
36	1	155	G	C2-N3-C4	7.62	115.71	111.90
36	1	291	C	N1-C2-N3	7.62	124.53	119.20
36	1	2294	U	N3-C4-C5	-7.62	110.03	114.60
36	1	2355	G	N3-C4-C5	7.62	132.41	128.60
36	1	3124	G	N1-C6-O6	-7.62	115.33	119.90
80	6	110	U	C6-N1-C2	-7.62	116.43	121.00
80	6	568	G	C6-N1-C2	-7.62	120.53	125.10
85	5	77	A	OP2-P-O3'	7.62	121.95	105.20
85	5	1431	G	C4-C5-N7	7.62	113.85	110.80
85	5	1608	C	C5-C6-N1	7.62	124.81	121.00
85	5	2717	U	N1-C2-N3	7.62	119.47	114.90
85	5	3385	U	C5-C4-O4	-7.62	121.33	125.90
1	2	4	C	C5-C6-N1	7.61	124.81	121.00
1	2	866	C	N1-C2-O2	7.61	123.47	118.90
1	2	1012	U	O5'-P-OP1	-7.61	98.85	105.70
1	2	1101	G	N1-C2-N3	7.61	128.47	123.90
36	1	513	G	C6-N1-C2	-7.61	120.53	125.10
36	1	660	A	C5-C6-N1	7.61	121.51	117.70
36	1	708	G	N1-C6-O6	7.61	124.47	119.90
36	1	886	C	N3-C4-C5	7.61	124.94	121.90
36	1	895	A	C4-C5-N7	7.61	114.51	110.70
36	1	912	G	N3-C4-C5	-7.61	124.79	128.60
80	6	559	C	C5-C4-N4	7.61	125.53	120.20
80	6	1264	G	N3-C4-N9	-7.61	121.43	126.00
80	6	1513	G	N3-C4-C5	-7.61	124.79	128.60
85	5	511	G	C5-C6-O6	7.61	133.17	128.60
85	5	674	G	N1-C2-N2	7.61	123.05	116.20
85	5	1494	U	C5-C6-N1	-7.61	118.89	122.70
85	5	1634	G	C5-N7-C8	-7.61	100.49	104.30
85	5	2377	G	N1-C2-N3	7.61	128.47	123.90
85	5	2999	U	N3-C2-O2	7.61	127.53	122.20
85	5	3133	C	N1-C2-O2	-7.61	114.33	118.90
1	2	613	G	N3-C4-C5	-7.61	124.79	128.60
75	O9	45	ARG	NE-CZ-NH1	7.61	124.11	120.30
80	6	1293	U	N3-C4-O4	-7.61	114.07	119.40
1	2	464	A	N7-C8-N9	7.61	117.61	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	260	C	C2-N3-C4	7.61	123.70	119.90
36	1	815	G	N3-C4-N9	-7.61	121.43	126.00
36	1	2608	G	N3-C2-N2	-7.61	114.57	119.90
80	6	1123	C	O5'-P-OP1	7.61	119.83	110.70
85	5	726	G	N7-C8-N9	7.61	116.91	113.10
85	5	1518	U	C6-N1-C2	-7.61	116.43	121.00
85	5	1863	G	N9-C4-C5	7.61	108.44	105.40
85	5	2912	G	C4-N9-C1'	7.61	136.40	126.50
85	5	3315	G	N7-C8-N9	7.61	116.91	113.10
37	7	79	A	C8-N9-C4	7.61	108.84	105.80
1	2	1092	G	C2-N3-C4	-7.61	108.10	111.90
36	1	938	C	O5'-P-OP2	7.61	119.83	110.70
36	1	1855	U	N1-C2-N3	7.61	119.47	114.90
36	1	2389	C	C5-C4-N4	-7.61	114.87	120.20
38	4	77	A	N1-C6-N6	-7.61	114.03	118.60
85	5	1323	G	C6-N1-C2	-7.61	120.53	125.10
85	5	1519	G	N7-C8-N9	7.61	116.91	113.10
85	5	3106	A	C2-N3-C4	-7.61	106.80	110.60
85	5	3124	G	N3-C4-N9	-7.61	121.44	126.00
36	1	973	A	C5-N7-C8	7.61	107.70	103.90
36	1	1329	U	N1-C2-N3	7.61	119.46	114.90
36	1	1545	A	C2-N3-C4	7.61	114.40	110.60
36	1	1662	G	C8-N9-C4	7.61	109.44	106.40
36	1	2154	U	N3-C4-O4	7.61	124.72	119.40
36	1	2961	G	N9-C4-C5	7.61	108.44	105.40
36	1	3203	U	N3-C2-O2	7.61	127.53	122.20
80	6	473	A	N1-C2-N3	7.61	133.10	129.30
80	6	519	C	O5'-P-OP1	-7.61	98.85	105.70
80	6	1626	U	O5'-P-OP2	-7.61	98.85	105.70
85	5	197	G	N1-C6-O6	7.61	124.46	119.90
85	5	386	A	N1-C2-N3	7.61	133.10	129.30
85	5	1077	U	C5-C6-N1	-7.61	118.90	122.70
85	5	1159	A	OP1-P-O3'	7.61	121.94	105.20
85	5	1670	C	C2-N3-C4	7.61	123.70	119.90
85	5	1681	U	C5-C4-O4	7.61	130.46	125.90
85	5	1837	U	N3-C4-C5	-7.61	110.03	114.60
85	5	2127	U	N3-C4-O4	7.61	124.72	119.40
85	5	2364	G	C2-N3-C4	7.61	115.70	111.90
1	2	538	A	N3-C4-C5	7.61	132.12	126.80
1	2	775	U	N1-C2-N3	7.61	119.46	114.90
36	1	390	G	C6-C5-N7	-7.61	125.84	130.40
36	1	907	G	C5-C6-N1	7.61	115.30	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3364	C	N3-C4-N4	-7.61	112.68	118.00
41	L4	197	ARG	NE-CZ-NH1	-7.61	116.50	120.30
80	6	476	U	N1-C2-N3	7.61	119.46	114.90
80	6	1030	A	C5-C6-N1	-7.61	113.90	117.70
85	5	282	G	C4-C5-N7	7.61	113.84	110.80
85	5	1501	U	N3-C4-C5	-7.61	110.04	114.60
85	5	1652	G	N3-C2-N2	-7.61	114.58	119.90
85	5	1891	A	C6-N1-C2	-7.61	114.04	118.60
85	5	2558	U	OP1-P-OP2	7.61	131.01	119.60
85	5	3083	G	C2-N3-C4	-7.61	108.10	111.90
36	1	2232	A	O5'-P-OP2	-7.60	98.86	105.70
80	6	541	A	N7-C8-N9	7.60	117.60	113.80
80	6	801	G	N1-C6-O6	-7.60	115.34	119.90
85	5	590	G	C5-C6-N1	7.60	115.30	111.50
1	2	391	A	N1-C2-N3	-7.60	125.50	129.30
1	2	1271	G	N3-C4-C5	-7.60	124.80	128.60
1	2	1708	U	N3-C4-O4	7.60	124.72	119.40
36	1	198	A	C6-C5-N7	-7.60	126.98	132.30
36	1	1346	G	O5'-P-OP1	7.60	119.82	110.70
36	1	1574	C	C2-N3-C4	7.60	123.70	119.90
36	1	3022	G	C6-C5-N7	-7.60	125.84	130.40
85	5	530	G	N1-C2-N3	7.60	128.46	123.90
85	5	1464	G	N1-C6-O6	7.60	124.46	119.90
85	5	3216	G	N1-C6-O6	-7.60	115.34	119.90
1	2	1409	C	N3-C2-O2	7.60	127.22	121.90
36	1	319	A	O5'-P-OP1	-7.60	98.86	105.70
36	1	1100	U	N3-C4-C5	7.60	119.16	114.60
36	1	1170	A	C8-N9-C4	7.60	108.84	105.80
36	1	1343	A	C5-C6-N6	-7.60	117.62	123.70
36	1	3388	C	C6-N1-C2	7.60	123.34	120.30
85	5	638	C	C2-N3-C4	7.60	123.70	119.90
85	5	871	U	C6-N1-C2	-7.60	116.44	121.00
85	5	925	A	C5-C6-N6	-7.60	117.62	123.70
85	5	1882	G	C8-N9-C4	-7.60	103.36	106.40
76	q0	96	CYS	CA-CB-SG	7.60	127.68	114.00
1	2	1287	G	C4-C5-N7	-7.60	107.76	110.80
1	2	1773	A	C5-C6-N1	-7.60	113.90	117.70
36	1	319	A	C2-N3-C4	-7.60	106.80	110.60
36	1	751	A	C5-C6-N6	-7.60	117.62	123.70
36	1	971	G	C2-N3-C4	7.60	115.70	111.90
80	6	962	C	C4-C5-C6	7.60	121.20	117.40
80	6	1304	G	C4-C5-N7	-7.60	107.76	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	633	C	N3-C2-O2	7.60	127.22	121.90
85	5	820	A	N1-C6-N6	-7.60	114.04	118.60
85	5	1142	G	C5-C6-O6	-7.60	124.04	128.60
37	7	75	G	C6-N1-C2	7.60	129.66	125.10
38	8	23	U	C5-C6-N1	-7.60	118.90	122.70
1	2	844	U	C6-N1-C2	-7.60	116.44	121.00
1	2	1071	A	O5'-P-OP1	-7.60	98.86	105.70
36	1	351	A	C4-C5-N7	-7.60	106.90	110.70
36	1	638	C	C5-C4-N4	7.60	125.52	120.20
36	1	649	A	C6-N1-C2	-7.60	114.04	118.60
36	1	854	G	O5'-P-OP2	-7.60	98.86	105.70
36	1	961	C	N1-C2-O2	-7.60	114.34	118.90
36	1	1898	G	C5-C6-O6	-7.60	124.04	128.60
36	1	2295	A	C4-C5-N7	7.60	114.50	110.70
80	6	416	A	O5'-P-OP2	-7.60	98.86	105.70
85	5	371	G	OP1-P-OP2	7.60	131.00	119.60
85	5	1414	G	N1-C6-O6	7.60	124.46	119.90
85	5	1494	U	N3-C4-C5	-7.60	110.04	114.60
85	5	1773	C	C5-C6-N1	7.60	124.80	121.00
85	5	2396	G	N1-C2-N2	-7.60	109.36	116.20
85	5	2865	U	C5-C6-N1	7.60	126.50	122.70
85	5	3287	U	C5-C4-O4	-7.60	121.34	125.90
37	7	71	G	N7-C8-N9	-7.60	109.30	113.10
38	8	27	U	N3-C4-O4	7.60	124.72	119.40
36	1	169	U	N1-C2-N3	-7.60	110.34	114.90
36	1	596	C	C6-N1-C2	-7.60	117.26	120.30
36	1	3022	G	N3-C4-N9	7.60	130.56	126.00
85	5	1831	U	C5-C4-O4	7.60	130.46	125.90
85	5	2160	G	N7-C8-N9	-7.60	109.30	113.10
85	5	2511	A	N1-C6-N6	7.60	123.16	118.60
36	1	333	G	N3-C4-C5	7.59	132.40	128.60
36	1	2522	G	C8-N9-C4	-7.59	103.36	106.40
36	1	2907	G	N9-C4-C5	7.59	108.44	105.40
80	6	1455	G	C4-C5-N7	7.59	113.84	110.80
85	5	273	A	C5-C6-N1	-7.59	113.90	117.70
85	5	428	A	OP1-P-OP2	-7.59	108.21	119.60
85	5	1074	U	C6-N1-C2	7.59	125.56	121.00
85	5	2976	A	C6-N1-C2	-7.59	114.04	118.60
85	5	3383	G	N1-C6-O6	7.59	124.46	119.90
54	m8	111	ARG	NE-CZ-NH1	-7.59	116.50	120.30
38	4	56	G	C5-C6-O6	7.59	133.16	128.60
85	5	1868	G	C4-C5-C6	7.59	123.36	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2262	A	C5-C6-N1	7.59	121.50	117.70
85	5	2997	G	C4-C5-N7	7.59	113.84	110.80
1	2	377	G	N3-C2-N2	-7.59	114.59	119.90
1	2	551	G	C4-C5-N7	7.59	113.84	110.80
1	2	1764	A	C8-N9-C4	-7.59	102.76	105.80
36	1	214	G	N1-C2-N3	7.59	128.46	123.90
36	1	658	G	C4-C5-C6	7.59	123.35	118.80
36	1	1071	U	OP1-P-OP2	-7.59	108.21	119.60
36	1	1080	A	N1-C2-N3	7.59	133.10	129.30
85	5	32	U	C2-N3-C4	-7.59	122.44	127.00
85	5	845	G	C2-N3-C4	7.59	115.69	111.90
85	5	1330	A	C5-C6-N6	-7.59	117.63	123.70
85	5	1727	G	C5-C6-O6	7.59	133.16	128.60
85	5	2172	A	N1-C6-N6	7.59	123.16	118.60
85	5	2327	U	N1-C2-N3	-7.59	110.34	114.90
85	5	2573	G	N1-C6-O6	7.59	124.45	119.90
85	5	3067	C	N3-C4-C5	7.59	124.94	121.90
85	5	3390	G	C5-C6-O6	-7.59	124.05	128.60
38	8	48	A	C5-C6-N1	7.59	121.50	117.70
1	2	223	U	N3-C4-O4	7.59	124.71	119.40
36	1	1496	C	OP2-P-O3'	7.59	121.90	105.20
36	1	2616	C	N3-C2-O2	-7.59	116.59	121.90
67	O1	59	ILE	CG1-CB-CG2	-7.59	94.70	111.40
80	6	996	U	N1-C2-N3	7.59	119.45	114.90
80	6	1678	A	C4-C5-N7	7.59	114.50	110.70
85	5	673	U	N3-C2-O2	7.59	127.51	122.20
85	5	1406	A	O5'-P-OP2	-7.59	98.87	105.70
85	5	1520	G	N3-C4-C5	-7.59	124.81	128.60
85	5	1877	U	OP2-P-O3'	-7.59	88.50	105.20
85	5	1914	G	C4-C5-N7	-7.59	107.76	110.80
85	5	2172	A	C5-N7-C8	-7.59	100.11	103.90
85	5	2300	G	N3-C4-N9	7.59	130.55	126.00
85	5	3326	G	OP1-P-OP2	-7.59	108.22	119.60
36	1	2445	A	N1-C6-N6	-7.59	114.05	118.60
80	6	106	U	O5'-P-OP1	-7.59	98.87	105.70
80	6	1737	G	C4-C5-N7	7.59	113.83	110.80
85	5	668	G	O5'-P-OP1	7.59	119.81	110.70
1	2	1128	U	C2-N3-C4	7.59	131.55	127.00
36	1	169	U	C6-N1-C2	7.59	125.55	121.00
36	1	701	G	N3-C4-C5	-7.59	124.81	128.60
36	1	787	G	C5-N7-C8	-7.59	100.51	104.30
36	1	1128	U	C5-C6-N1	-7.59	118.91	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1201	C	C6-N1-C2	7.59	123.33	120.30
36	1	3232	G	C5-C6-O6	7.59	133.15	128.60
80	6	901	G	C5-N7-C8	-7.59	100.51	104.30
85	5	127	G	N7-C8-N9	-7.59	109.31	113.10
85	5	633	C	C4-C5-C6	7.59	121.19	117.40
85	5	873	C	N1-C2-O2	7.59	123.45	118.90
85	5	1258	U	C6-N1-C2	-7.59	116.45	121.00
85	5	1932	A	N1-C2-N3	7.59	133.09	129.30
85	5	3112	G	C8-N9-C4	-7.59	103.36	106.40
85	5	3314	A	C5-C6-N1	7.59	121.49	117.70
37	7	7	G	C5-C6-N1	-7.59	107.71	111.50
1	2	510	G	C8-N9-C4	-7.58	103.37	106.40
36	1	1092	C	C2-N3-C4	7.58	123.69	119.90
36	1	1931	U	N3-C4-C5	7.58	119.15	114.60
80	6	1719	A	O5'-P-OP2	7.58	119.80	110.70
85	5	230	U	N1-C2-O2	-7.58	117.49	122.80
85	5	503	C	N3-C2-O2	7.58	127.21	121.90
85	5	1600	U	O5'-P-OP2	7.58	119.80	110.70
85	5	2763	U	C5-C4-O4	-7.58	121.35	125.90
85	5	3020	U	N3-C2-O2	-7.58	116.89	122.20
1	2	251	A	O5'-P-OP2	7.58	119.80	110.70
1	2	1029	G	N1-C6-O6	-7.58	115.35	119.90
1	2	1548	C	N3-C4-C5	-7.58	118.87	121.90
36	1	20	A	N9-C4-C5	7.58	108.83	105.80
36	1	898	U	O5'-P-OP1	7.58	119.80	110.70
36	1	1164	G	N1-C2-N3	7.58	128.45	123.90
36	1	1884	A	C5-C6-N6	7.58	129.77	123.70
36	1	2395	G	N3-C2-N2	-7.58	114.59	119.90
36	1	2732	G	C5-N7-C8	-7.58	100.51	104.30
80	6	143	G	N7-C8-N9	7.58	116.89	113.10
80	6	336	G	O5'-P-OP2	-7.58	98.88	105.70
80	6	426	G	C8-N9-C1'	-7.58	117.14	127.00
80	6	1413	U	N3-C2-O2	7.58	127.51	122.20
85	5	704	U	O5'-P-OP1	-7.58	98.88	105.70
85	5	1464	G	C8-N9-C4	7.58	109.43	106.40
85	5	1662	G	C4-N9-C1'	7.58	136.36	126.50
85	5	1862	U	OP1-P-OP2	7.58	130.98	119.60
85	5	1934	G	C4-N9-C1'	7.58	136.36	126.50
85	5	2212	C	N1-C2-O2	7.58	123.45	118.90
85	5	2290	C	C4-C5-C6	7.58	121.19	117.40
85	5	2432	A	C4-C5-C6	7.58	120.79	117.00
85	5	2698	G	C6-C5-N7	7.58	134.95	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2904	U	N3-C2-O2	-7.58	116.89	122.20
85	5	3004	C	OP2-P-O3'	7.58	121.89	105.20
38	8	76	C	OP1-P-OP2	-7.58	108.22	119.60
1	2	1263	C	C6-N1-C2	-7.58	117.27	120.30
36	1	22	G	N3-C4-C5	-7.58	124.81	128.60
36	1	193	C	N3-C4-N4	7.58	123.31	118.00
36	1	603	A	O5'-P-OP1	-7.58	98.88	105.70
36	1	820	A	C4-C5-C6	-7.58	113.21	117.00
36	1	1079	A	C6-N1-C2	-7.58	114.05	118.60
36	1	1414	G	C6-C5-N7	-7.58	125.85	130.40
36	1	1933	A	C4-C5-C6	7.58	120.79	117.00
36	1	2401	A	N9-C4-C5	-7.58	102.77	105.80
36	1	2693	C	C2-N3-C4	-7.58	116.11	119.90
37	3	33	U	C4-C5-C6	7.58	124.25	119.70
80	6	18	C	C2-N3-C4	7.58	123.69	119.90
80	6	886	U	C5-C6-N1	7.58	126.49	122.70
80	6	1665	U	C6-N1-C2	7.58	125.55	121.00
85	5	37	U	N3-C2-O2	-7.58	116.89	122.20
85	5	670	C	N3-C4-C5	-7.58	118.87	121.90
85	5	929	A	C6-N1-C2	-7.58	114.05	118.60
85	5	1412	G	N1-C2-N3	7.58	128.45	123.90
85	5	1676	A	C8-N9-C4	-7.58	102.77	105.80
36	1	577	C	C4-C5-C6	7.58	121.19	117.40
36	1	1843	C	O5'-P-OP2	-7.58	98.88	105.70
36	1	2599	U	C4-C5-C6	7.58	124.25	119.70
80	6	185	U	C6-N1-C2	7.58	125.55	121.00
80	6	273	G	C5-N7-C8	-7.58	100.51	104.30
85	5	1897	G	C2-N3-C4	-7.58	108.11	111.90
85	5	2761	G	N9-C4-C5	-7.58	102.37	105.40
1	2	800	A	C2-N3-C4	-7.58	106.81	110.60
36	1	236	G	C5-C6-N1	7.58	115.29	111.50
36	1	510	G	C5-N7-C8	-7.58	100.51	104.30
36	1	2575	G	C6-N1-C2	7.58	129.65	125.10
38	4	97	A	C6-N1-C2	-7.58	114.05	118.60
85	5	222	A	C6-N1-C2	-7.58	114.05	118.60
85	5	1465	A	C2-N3-C4	-7.58	106.81	110.60
85	5	3319	U	C2-N3-C4	-7.58	122.45	127.00
37	7	4	U	N1-C2-O2	7.58	128.11	122.80
36	1	360	G	N3-C4-N9	7.58	130.55	126.00
36	1	3302	U	N3-C4-O4	-7.58	114.10	119.40
85	5	22	G	C5-C6-O6	-7.58	124.05	128.60
85	5	1303	A	C5-C6-N6	-7.58	117.64	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1407	A	C5-C6-N1	-7.58	113.91	117.70
37	7	116	C	OP1-P-OP2	-7.58	108.23	119.60
38	8	87	G	N1-C6-O6	-7.58	115.35	119.90
36	1	86	G	O5'-P-OP1	7.58	119.79	110.70
36	1	233	C	OP1-P-OP2	-7.58	108.24	119.60
36	1	327	A	C5-C6-N1	7.58	121.49	117.70
36	1	506	U	N3-C2-O2	7.58	127.50	122.20
36	1	1417	G	N9-C4-C5	-7.58	102.37	105.40
36	1	1486	G	C6-N1-C2	-7.58	120.55	125.10
36	1	1521	G	N1-C6-O6	7.58	124.45	119.90
36	1	2632	G	OP1-P-O3'	7.58	121.87	105.20
36	1	3192	U	N3-C4-C5	-7.58	110.06	114.60
36	1	3266	G	C5-C6-O6	7.58	133.15	128.60
80	6	1317	C	N3-C4-C5	7.58	124.93	121.90
80	6	1372	U	C4-C5-C6	7.58	124.25	119.70
80	6	1752	U	C6-N1-C2	-7.58	116.45	121.00
85	5	364	G	O5'-P-OP2	7.58	119.79	110.70
85	5	660	A	C5-C6-N6	7.58	129.76	123.70
85	5	2331	C	N1-C2-O2	-7.58	114.35	118.90
85	5	2656	A	N3-C4-N9	-7.58	121.34	127.40
85	5	2914	G	C4-C5-N7	7.58	113.83	110.80
52	m6	84	LEU	CB-CG-CD2	-7.58	98.12	111.00
1	2	216	U	N1-C2-O2	-7.57	117.50	122.80
1	2	447	U	C5-C6-N1	7.57	126.49	122.70
36	1	1323	G	N1-C2-N2	-7.57	109.38	116.20
36	1	2225	U	N1-C2-N3	7.57	119.44	114.90
85	5	812	G	C8-N9-C4	-7.57	103.37	106.40
85	5	1321	G	C5-N7-C8	-7.57	100.51	104.30
85	5	2608	G	C4-C5-C6	7.57	123.34	118.80
85	5	3060	C	C6-N1-C2	-7.57	117.27	120.30
37	7	51	A	N1-C2-N3	7.57	133.09	129.30
53	m7	48	LEU	CB-CG-CD2	-7.57	98.12	111.00
36	1	402	A	N1-C2-N3	7.57	133.09	129.30
36	1	2961	G	N7-C8-N9	7.57	116.89	113.10
80	6	94	U	N1-C2-N3	7.57	119.44	114.90
80	6	951	A	N1-C2-N3	7.57	133.09	129.30
47	m0	128	ARG	NE-CZ-NH1	-7.57	116.51	120.30
1	2	978	A	N1-C2-N3	7.57	133.09	129.30
36	1	148	G	N3-C4-C5	-7.57	124.81	128.60
36	1	2377	G	C5-N7-C8	-7.57	100.51	104.30
36	1	2688	U	C6-N1-C2	7.57	125.54	121.00
38	4	144	G	N1-C6-O6	-7.57	115.36	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	28	A	OP1-P-O3'	7.57	121.86	105.20
80	6	1064	G	C5-C6-O6	-7.57	124.06	128.60
85	5	594	U	N3-C4-O4	7.57	124.70	119.40
85	5	1379	G	N9-C4-C5	-7.57	102.37	105.40
85	5	1900	A	N1-C6-N6	7.57	123.14	118.60
85	5	1920	U	OP1-P-OP2	7.57	130.96	119.60
85	5	2124	G	C6-N1-C2	7.57	129.64	125.10
85	5	2395	G	OP1-P-OP2	-7.57	108.24	119.60
85	5	3053	G	N1-C6-O6	7.57	124.44	119.90
1	2	436	A	C8-N9-C4	-7.57	102.77	105.80
36	1	101	G	C2-N3-C4	-7.57	108.12	111.90
36	1	336	A	C4-C5-C6	-7.57	113.22	117.00
36	1	1019	G	C4-C5-N7	7.57	113.83	110.80
36	1	1501	U	O5'-P-OP1	7.57	119.78	110.70
37	3	67	G	C2-N3-C4	-7.57	108.11	111.90
80	6	1097	U	P-O3'-C3'	7.57	128.78	119.70
85	5	195	U	OP1-P-O3'	7.57	121.85	105.20
85	5	1542	G	C8-N9-C4	-7.57	103.37	106.40
85	5	1709	C	N3-C4-N4	-7.57	112.70	118.00
85	5	2353	G	OP1-P-OP2	-7.57	108.25	119.60
85	5	2778	G	C5-C6-N1	7.57	115.28	111.50
85	5	3374	U	O5'-P-OP2	-7.57	98.89	105.70
36	1	895	A	N1-C6-N6	7.57	123.14	118.60
36	1	1502	C	C4-C5-C6	7.57	121.18	117.40
36	1	2373	A	C5-C6-N6	7.57	129.75	123.70
36	1	3074	G	C6-N1-C2	7.57	129.64	125.10
38	4	82	U	N3-C2-O2	7.57	127.50	122.20
80	6	324	U	C2-N3-C4	7.57	131.54	127.00
80	6	425	A	N1-C2-N3	-7.57	125.52	129.30
80	6	761	G	N1-C2-N2	-7.57	109.39	116.20
85	5	98	G	C5-N7-C8	-7.57	100.52	104.30
85	5	652	G	O5'-P-OP2	7.57	119.78	110.70
85	5	1307	G	C5-C6-N1	7.57	115.28	111.50
85	5	1601	U	C5-C4-O4	7.57	130.44	125.90
85	5	2594	C	OP1-P-O3'	7.57	121.85	105.20
37	7	9	C	OP1-P-OP2	-7.57	108.25	119.60
1	2	64	U	N3-C2-O2	7.57	127.50	122.20
36	1	135	C	C6-N1-C2	-7.57	117.27	120.30
36	1	252	U	N1-C2-O2	7.57	128.10	122.80
36	1	281	G	N1-C2-N3	7.57	128.44	123.90
36	1	291	C	N1-C2-O2	-7.57	114.36	118.90
36	1	897	U	C5-C4-O4	7.57	130.44	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	957	C	OP1-P-OP2	7.57	130.95	119.60
36	1	1598	G	N1-C2-N3	7.57	128.44	123.90
36	1	1727	G	C8-N9-C4	-7.57	103.37	106.40
36	1	1921	A	N9-C4-C5	7.57	108.83	105.80
80	6	565	C	N1-C2-O2	-7.57	114.36	118.90
80	6	1649	G	C4-C5-C6	-7.57	114.26	118.80
85	5	781	G	OP1-P-O3'	7.57	121.84	105.20
85	5	841	A	N9-C4-C5	-7.57	102.77	105.80
36	1	2713	U	C5-C4-O4	-7.56	121.36	125.90
36	1	2943	G	C2-N3-C4	-7.56	108.12	111.90
85	5	1695	U	C6-N1-C2	-7.56	116.46	121.00
85	5	2673	A	C8-N9-C4	7.56	108.83	105.80
85	5	2734	A	N1-C2-N3	7.56	133.08	129.30
85	5	3331	U	C5-C4-O4	-7.56	121.36	125.90
37	7	48	U	N3-C4-C5	-7.56	110.06	114.60
1	2	848	A	C2-N3-C4	-7.56	106.82	110.60
36	1	1829	G	C4-C5-N7	-7.56	107.78	110.80
36	1	2293	C	C4-C5-C6	-7.56	113.62	117.40
36	1	2331	C	N3-C4-C5	7.56	124.92	121.90
36	1	2734	A	C8-N9-C4	-7.56	102.78	105.80
38	4	83	C	N3-C2-O2	7.56	127.19	121.90
80	6	1023	A	N1-C6-N6	7.56	123.14	118.60
85	5	398	A	C8-N9-C4	7.56	108.83	105.80
85	5	823	C	C6-N1-C2	7.56	123.33	120.30
85	5	1285	G	N3-C4-N9	7.56	130.54	126.00
85	5	3200	G	C2-N3-C4	-7.56	108.12	111.90
1	2	1789	A	C2-N3-C4	7.56	114.38	110.60
36	1	53	G	OP1-P-OP2	7.56	130.94	119.60
36	1	1426	C	N3-C4-N4	-7.56	112.71	118.00
36	1	2734	A	N1-C6-N6	-7.56	114.06	118.60
36	1	3011	A	C4-C5-N7	-7.56	106.92	110.70
80	6	627	C	N3-C4-N4	7.56	123.29	118.00
85	5	555	U	N3-C2-O2	7.56	127.49	122.20
85	5	943	U	O5'-P-OP1	-7.56	98.89	105.70
85	5	1465	A	C5-C6-N6	7.56	129.75	123.70
85	5	2795	U	C5-C6-N1	7.56	126.48	122.70
1	2	789	A	N9-C4-C5	7.56	108.82	105.80
36	1	212	G	C5-C6-N1	7.56	115.28	111.50
36	1	426	G	N1-C6-O6	-7.56	115.36	119.90
36	1	887	G	C4-C5-N7	-7.56	107.78	110.80
36	1	1207	G	N3-C2-N2	-7.56	114.61	119.90
36	1	1560	G	N1-C6-O6	-7.56	115.36	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2207	A	N1-C2-N3	-7.56	125.52	129.30
36	1	2580	A	C4-C5-N7	-7.56	106.92	110.70
36	1	3049	A	N1-C6-N6	7.56	123.14	118.60
80	6	465	G	C5-C6-N1	-7.56	107.72	111.50
85	5	59	G	C4-C5-N7	7.56	113.82	110.80
85	5	274	G	C8-N9-C4	7.56	109.42	106.40
85	5	1129	A	C6-C5-N7	-7.56	127.01	132.30
85	5	1749	A	C5-C6-N6	-7.56	117.65	123.70
85	5	2428	U	N3-C4-O4	7.56	124.69	119.40
85	5	3249	C	C5-C4-N4	-7.56	114.91	120.20
37	7	22	A	OP1-P-O3'	7.56	121.83	105.20
1	2	1302	A	C5-N7-C8	-7.56	100.12	103.90
1	2	1615	C	N3-C4-C5	-7.56	118.88	121.90
36	1	223	U	O5'-P-OP2	-7.56	98.90	105.70
36	1	1588	A	C8-N9-C4	7.56	108.82	105.80
80	6	522	U	N3-C4-C5	7.56	119.13	114.60
85	5	632	G	C5-C6-N1	7.56	115.28	111.50
85	5	1512	U	C4-C5-C6	7.56	124.23	119.70
85	5	3124	G	C5-N7-C8	-7.56	100.52	104.30
37	7	28	C	C2-N3-C4	-7.56	116.12	119.90
36	1	10	C	N3-C2-O2	7.56	127.19	121.90
36	1	2847	A	C5-N7-C8	-7.56	100.12	103.90
80	6	1120	U	C4-C5-C6	7.56	124.23	119.70
85	5	739	G	C8-N9-C4	7.56	109.42	106.40
85	5	1116	G	N3-C4-C5	-7.56	124.82	128.60
85	5	1837	U	N1-C2-O2	-7.56	117.51	122.80
1	2	594	A	C4-C5-N7	-7.55	106.92	110.70
1	2	594	A	C5-C6-N1	7.55	121.48	117.70
1	2	1516	C	C4-C5-C6	7.55	121.18	117.40
36	1	518	G	C2-N3-C4	-7.55	108.12	111.90
36	1	1432	C	N1-C2-O2	7.55	123.43	118.90
36	1	1871	U	C2-N3-C4	-7.55	122.47	127.00
36	1	2515	A	N1-C6-N6	-7.55	114.07	118.60
36	1	2590	A	C5-C6-N1	7.55	121.48	117.70
36	1	2725	U	N1-C2-O2	7.55	128.09	122.80
36	1	3187	A	OP1-P-O3'	7.55	121.82	105.20
80	6	548	G	C8-N9-C4	-7.55	103.38	106.40
85	5	2880	U	N3-C2-O2	-7.55	116.91	122.20
36	1	702	C	C5-C6-N1	7.55	124.78	121.00
36	1	2871	G	C4-C5-N7	7.55	113.82	110.80
36	1	3388	C	N3-C2-O2	-7.55	116.61	121.90
37	7	74	C	N1-C2-O2	7.55	123.43	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	401	A	C2-N3-C4	7.55	114.38	110.60
36	1	682	U	C5-C4-O4	7.55	130.43	125.90
36	1	693	A	C6-C5-N7	-7.55	127.01	132.30
36	1	2237	C	N3-C2-O2	-7.55	116.61	121.90
36	1	2663	G	N1-C2-N3	7.55	128.43	123.90
36	1	3084	C	C2-N3-C4	-7.55	116.12	119.90
36	1	3191	G	C5-C6-N1	-7.55	107.72	111.50
80	6	107	C	O5'-P-OP2	-7.55	98.90	105.70
85	5	354	U	N3-C2-O2	7.55	127.49	122.20
85	5	436	A	OP1-P-OP2	-7.55	108.27	119.60
85	5	499	G	N1-C2-N3	7.55	128.43	123.90
85	5	1070	U	N3-C4-O4	-7.55	114.11	119.40
85	5	1480	G	C5-C6-O6	-7.55	124.07	128.60
85	5	1495	U	C2-N3-C4	-7.55	122.47	127.00
85	5	1899	G	N3-C2-N2	-7.55	114.61	119.90
85	5	2147	A	OP1-P-OP2	-7.55	108.27	119.60
85	5	2520	A	C5-N7-C8	-7.55	100.12	103.90
85	5	2607	G	N1-C2-N2	7.55	123.00	116.20
38	8	19	C	C6-N1-C2	-7.55	117.28	120.30
1	2	1297	U	N1-C2-N3	7.55	119.43	114.90
36	1	2874	G	C4-C5-C6	7.55	123.33	118.80
36	1	3177	G	N1-C2-N3	-7.55	119.37	123.90
38	4	144	G	N3-C2-N2	-7.55	114.61	119.90
80	6	394	C	N3-C2-O2	7.55	127.19	121.90
85	5	188	U	C5-C4-O4	-7.55	121.37	125.90
85	5	1875	G	C6-N1-C2	-7.55	120.57	125.10
85	5	2255	A	O5'-P-OP1	-7.55	98.91	105.70
85	5	2793	G	C5-C6-N1	-7.55	107.72	111.50
85	5	3073	A	C5-C6-N6	-7.55	117.66	123.70
1	2	1116	A	N1-C6-N6	-7.55	114.07	118.60
1	2	1206	A	C8-N9-C4	7.55	108.82	105.80
36	1	1114	U	OP2-P-O3'	7.55	121.81	105.20
36	1	2223	A	N1-C2-N3	7.55	133.07	129.30
36	1	2670	G	N1-C2-N3	7.55	128.43	123.90
36	1	2955	U	OP2-P-O3'	7.55	121.81	105.20
85	5	2615	G	N1-C2-N2	7.55	122.99	116.20
85	5	3040	A	C8-N9-C4	7.55	108.82	105.80
38	8	48	A	C4-C5-C6	-7.55	113.23	117.00
1	2	339	C	N1-C2-O2	-7.55	114.37	118.90
1	2	390	G	C5-C6-O6	-7.55	124.07	128.60
36	1	547	G	C4-C5-N7	7.55	113.82	110.80
36	1	1150	A	C6-N1-C2	-7.55	114.07	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1318	A	N9-C4-C5	7.55	108.82	105.80
36	1	2413	A	C5-N7-C8	-7.55	100.13	103.90
80	6	461	G	C8-N9-C4	7.55	109.42	106.40
80	6	1075	C	N1-C2-O2	-7.55	114.37	118.90
80	6	1112	G	N1-C2-N3	7.55	128.43	123.90
85	5	979	U	N3-C2-O2	7.55	127.48	122.20
85	5	2196	C	C5-C6-N1	7.55	124.77	121.00
85	5	2944	U	OP1-P-OP2	-7.55	108.28	119.60
36	1	71	A	C4-C5-N7	-7.54	106.93	110.70
36	1	913	A	N7-C8-N9	7.54	117.57	113.80
36	1	1850	A	N1-C6-N6	-7.54	114.07	118.60
36	1	2291	A	C6-N1-C2	-7.54	114.07	118.60
36	1	2824	G	C6-N1-C2	7.54	129.63	125.10
80	6	312	A	N7-C8-N9	7.54	117.57	113.80
80	6	358	U	C4-C5-C6	7.54	124.23	119.70
85	5	60	A	O5'-P-OP1	-7.54	98.91	105.70
85	5	1590	G	C5-N7-C8	-7.54	100.53	104.30
85	5	1784	G	C4-C5-N7	-7.54	107.78	110.80
85	5	2330	C	O5'-P-OP2	-7.54	98.91	105.70
85	5	2600	C	N3-C2-O2	-7.54	116.62	121.90
85	5	2662	G	N9-C4-C5	7.54	108.42	105.40
85	5	2900	A	C5-C6-N6	7.54	129.74	123.70
38	8	114	G	N3-C4-C5	7.54	132.37	128.60
1	2	324	U	C5-C6-N1	-7.54	118.93	122.70
36	1	115	A	C5-C6-N1	7.54	121.47	117.70
36	1	1156	C	N3-C4-C5	7.54	124.92	121.90
36	1	2254	U	N1-C2-O2	-7.54	117.52	122.80
36	1	2667	A	C2-N3-C4	-7.54	106.83	110.60
37	3	17	A	C2-N3-C4	-7.54	106.83	110.60
80	6	651	G	N9-C4-C5	-7.54	102.38	105.40
85	5	1454	A	C4-C5-N7	7.54	114.47	110.70
85	5	2918	G	C4-C5-N7	-7.54	107.78	110.80
1	2	354	C	C6-N1-C2	-7.54	117.28	120.30
1	2	1099	A	C5-C6-N6	-7.54	117.67	123.70
1	2	1346	U	C5-C6-N1	7.54	126.47	122.70
36	1	32	U	OP1-P-OP2	-7.54	108.29	119.60
36	1	237	G	N9-C4-C5	-7.54	102.38	105.40
36	1	259	C	N1-C2-O2	7.54	123.42	118.90
36	1	650	C	C4-C5-C6	-7.54	113.63	117.40
36	1	1448	U	C5-C4-O4	7.54	130.43	125.90
36	1	1496	C	C6-N1-C2	-7.54	117.28	120.30
38	4	17	A	OP1-P-OP2	-7.54	108.29	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	206	A	OP1-P-OP2	-7.54	108.29	119.60
80	6	586	G	C5-N7-C8	7.54	108.07	104.30
80	6	1011	G	C8-N9-C4	-7.54	103.38	106.40
80	6	1765	A	N1-C2-N3	7.54	133.07	129.30
85	5	528	U	N3-C2-O2	-7.54	116.92	122.20
85	5	1120	A	C5-C6-N1	7.54	121.47	117.70
85	5	2566	C	C5-C6-N1	7.54	124.77	121.00
85	5	3154	C	C2-N3-C4	7.54	123.67	119.90
38	8	150	G	C5-C6-O6	7.54	133.12	128.60
1	2	1533	A	C2-N3-C4	7.54	114.37	110.60
36	1	330	G	C8-N9-C4	7.54	109.42	106.40
36	1	948	C	C4-C5-C6	7.54	121.17	117.40
36	1	1407	A	C6-N1-C2	-7.54	114.08	118.60
36	1	2963	C	C5-C6-N1	7.54	124.77	121.00
36	1	3177	G	N7-C8-N9	-7.54	109.33	113.10
85	5	117	U	N1-C2-N3	-7.54	110.38	114.90
85	5	751	A	C2-N3-C4	-7.54	106.83	110.60
85	5	1104	G	N9-C4-C5	7.54	108.42	105.40
85	5	1773	C	O5'-P-OP2	-7.54	98.91	105.70
1	2	536	C	C5-C6-N1	7.54	124.77	121.00
1	2	1506	G	C5-C6-N1	7.54	115.27	111.50
36	1	661	G	C2-N3-C4	-7.54	108.13	111.90
36	1	854	G	C4-C5-C6	7.54	123.32	118.80
80	6	1175	U	O5'-P-OP1	-7.54	98.92	105.70
85	5	174	C	N3-C4-N4	-7.54	112.72	118.00
85	5	2280	A	C6-N1-C2	-7.54	114.08	118.60
85	5	2945	G	C8-N9-C4	7.54	109.42	106.40
85	5	2952	G	C4-C5-N7	7.54	113.82	110.80
1	2	284	G	C8-N9-C4	7.54	109.42	106.40
36	1	660	A	OP1-P-OP2	7.54	130.91	119.60
36	1	2338	C	C6-N1-C2	7.54	123.31	120.30
85	5	376	G	N7-C8-N9	7.54	116.87	113.10
85	5	1146	C	N3-C4-N4	7.54	123.28	118.00
1	2	157	A	OP1-P-OP2	7.54	130.90	119.60
36	1	286	U	N3-C4-C5	-7.54	110.08	114.60
36	1	891	G	N9-C4-C5	-7.54	102.39	105.40
36	1	960	U	N3-C4-C5	7.54	119.12	114.60
80	6	34	G	O5'-P-OP2	-7.54	98.92	105.70
80	6	47	A	N1-C2-N3	-7.54	125.53	129.30
80	6	830	U	N3-C2-O2	-7.54	116.92	122.20
85	5	779	G	C5-C6-O6	-7.54	124.08	128.60
85	5	1727	G	N3-C2-N2	7.54	125.17	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	813	U	C6-N1-C2	-7.53	116.48	121.00
36	1	917	A	C6-C5-N7	7.53	137.57	132.30
36	1	1037	C	OP1-P-OP2	-7.53	108.30	119.60
36	1	2226	U	N3-C2-O2	7.53	127.47	122.20
36	1	2246	G	N1-C6-O6	-7.53	115.38	119.90
36	1	2771	U	N1-C2-O2	7.53	128.07	122.80
36	1	3004	C	N1-C2-N3	-7.53	113.93	119.20
36	1	3337	G	C2-N3-C4	-7.53	108.13	111.90
80	6	1781	A	N7-C8-N9	7.53	117.57	113.80
85	5	413	U	OP1-P-O3'	7.53	121.77	105.20
85	5	1673	G	N1-C6-O6	-7.53	115.38	119.90
85	5	1898	G	N9-C4-C5	7.53	108.41	105.40
85	5	2116	G	C4-C5-C6	7.53	123.32	118.80
85	5	2272	G	C6-N1-C2	-7.53	120.58	125.10
85	5	2973	G	C5-C6-O6	7.53	133.12	128.60
85	5	3070	A	N7-C8-N9	7.53	117.57	113.80
85	5	3177	G	N3-C4-N9	-7.53	121.48	126.00
37	7	5	G	N7-C8-N9	-7.53	109.33	113.10
37	7	91	G	C4-C5-C6	7.53	123.32	118.80
1	2	1761	G	C5-N7-C8	-7.53	100.53	104.30
80	6	1761	U	N1-C2-O2	-7.53	117.53	122.80
85	5	1823	A	C8-N9-C4	-7.53	102.79	105.80
85	5	2251	G	C8-N9-C4	-7.53	103.39	106.40
1	2	228	G	C4-C5-N7	7.53	113.81	110.80
36	1	2279	A	N9-C4-C5	7.53	108.81	105.80
36	1	2888	U	OP1-P-O3'	7.53	121.77	105.20
80	6	312	A	C5-N7-C8	-7.53	100.13	103.90
85	5	716	A	O5'-P-OP2	-7.53	98.92	105.70
85	5	1601	U	N3-C4-C5	-7.53	110.08	114.60
85	5	2337	C	C4-C5-C6	7.53	121.17	117.40
85	5	2643	A	C6-C5-N7	-7.53	127.03	132.30
85	5	2713	U	C5-C4-O4	-7.53	121.38	125.90
85	5	3080	G	C8-N9-C4	7.53	109.41	106.40
36	1	339	C	N3-C2-O2	7.53	127.17	121.90
36	1	826	G	O5'-P-OP1	-7.53	98.92	105.70
36	1	2141	U	N3-C4-O4	-7.53	114.13	119.40
37	3	63	A	N1-C6-N6	-7.53	114.08	118.60
85	5	2145	A	C4-C5-N7	7.53	114.46	110.70
85	5	2756	C	N1-C2-N3	7.53	124.47	119.20
38	8	135	G	C8-N9-C4	7.53	109.41	106.40
1	2	1636	C	N3-C4-C5	-7.53	118.89	121.90
36	1	878	G	N1-C2-N3	7.53	128.42	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2095	G	C2-N3-C4	7.53	115.66	111.90
36	1	3103	A	O5'-P-OP1	7.53	119.73	110.70
40	L3	150	ARG	NE-CZ-NH2	-7.53	116.54	120.30
80	6	357	G	C5-C6-N1	-7.53	107.74	111.50
80	6	402	C	C2-N3-C4	-7.53	116.14	119.90
80	6	588	U	N3-C4-O4	7.53	124.67	119.40
80	6	923	A	N3-C4-C5	7.53	132.07	126.80
85	5	49	A	C5-N7-C8	-7.53	100.14	103.90
85	5	360	G	C5-C6-N1	-7.53	107.74	111.50
85	5	1400	G	OP1-P-OP2	7.53	130.89	119.60
85	5	2791	G	N3-C2-N2	-7.53	114.63	119.90
85	5	3085	G	N3-C4-N9	-7.53	121.48	126.00
38	8	77	A	C2-N3-C4	-7.53	106.84	110.60
91	p	75	C	N1-C2-N3	-7.53	113.93	119.20
36	1	558	U	N3-C2-O2	-7.53	116.93	122.20
36	1	971	G	O5'-P-OP2	-7.53	98.93	105.70
36	1	3301	U	C4-C5-C6	7.53	124.22	119.70
36	1	3386	G	C5-C6-O6	-7.53	124.08	128.60
37	3	51	A	N1-C6-N6	7.53	123.11	118.60
80	6	33	U	N1-C2-N3	7.53	119.42	114.90
80	6	90	C	C2-N3-C4	-7.53	116.14	119.90
80	6	636	A	N7-C8-N9	-7.53	110.04	113.80
80	6	1073	G	C2-N3-C4	-7.53	108.14	111.90
80	6	1720	G	C4-C5-N7	7.53	113.81	110.80
85	5	64	G	OP2-P-O3'	7.53	121.76	105.20
85	5	741	U	C5-C4-O4	7.53	130.41	125.90
85	5	936	A	C8-N9-C4	-7.53	102.79	105.80
85	5	2262	A	O5'-P-OP2	-7.53	98.93	105.70
85	5	2773	C	N1-C2-O2	-7.53	114.39	118.90
85	5	2944	U	N3-C4-C5	-7.53	110.08	114.60
85	5	3025	C	C6-N1-C2	7.53	123.31	120.30
85	5	3050	U	C6-N1-C2	-7.53	116.48	121.00
85	5	3335	A	O5'-P-OP2	-7.53	98.93	105.70
38	8	108	C	N3-C4-C5	-7.53	118.89	121.90
1	2	78	A	C2-N3-C4	7.52	114.36	110.60
1	2	827	A	C5-N7-C8	-7.52	100.14	103.90
36	1	402	A	C4-C5-N7	-7.52	106.94	110.70
36	1	909	G	N1-C2-N3	7.52	128.41	123.90
36	1	2790	A	O5'-P-OP1	7.52	119.73	110.70
36	1	3389	U	N3-C2-O2	-7.52	116.93	122.20
85	5	1012	G	N3-C4-N9	-7.52	121.49	126.00
1	2	309	C	N3-C2-O2	-7.52	116.63	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	476	U	C6-N1-C2	-7.52	116.49	121.00
1	2	1710	G	C6-C5-N7	-7.52	125.89	130.40
36	1	196	G	OP1-P-O3'	7.52	121.75	105.20
38	4	17	A	OP2-P-O3'	-7.52	88.65	105.20
80	6	1040	G	C8-N9-C4	-7.52	103.39	106.40
85	5	283	G	N1-C2-N3	-7.52	119.39	123.90
85	5	808	A	C5-N7-C8	-7.52	100.14	103.90
85	5	1085	A	C5-N7-C8	-7.52	100.14	103.90
62	n6	6	LEU	O-C-N	7.52	134.74	122.70
1	2	573	C	C2-N3-C4	-7.52	116.14	119.90
36	1	1745	C	N1-C2-O2	-7.52	114.39	118.90
80	6	396	G	N3-C2-N2	7.52	125.17	119.90
85	5	668	G	N3-C4-C5	-7.52	124.84	128.60
70	o4	74	ARG	NE-CZ-NH1	-7.52	116.54	120.30
1	2	92	A	N1-C6-N6	-7.52	114.09	118.60
1	2	1404	A	N1-C6-N6	-7.52	114.09	118.60
36	1	85	A	C4-C5-C6	7.52	120.76	117.00
36	1	708	G	C5-C6-N1	-7.52	107.74	111.50
36	1	794	U	N3-C2-O2	7.52	127.46	122.20
36	1	1307	G	P-O3'-C3'	7.52	128.72	119.70
36	1	1829	G	C4-C5-C6	7.52	123.31	118.80
38	4	146	U	C5-C4-O4	7.52	130.41	125.90
62	N6	40	ARG	NE-CZ-NH2	-7.52	116.54	120.30
80	6	403	G	N1-C6-O6	7.52	124.41	119.90
85	5	1880	U	OP2-P-O3'	7.52	121.74	105.20
37	7	14	U	N1-C2-O2	-7.52	117.54	122.80
1	2	1005	C	C6-N1-C2	-7.52	117.29	120.30
36	1	272	G	OP1-P-OP2	7.52	130.88	119.60
36	1	933	A	N1-C2-N3	7.52	133.06	129.30
36	1	1480	G	OP2-P-O3'	7.52	121.74	105.20
36	1	2249	G	N1-C2-N2	-7.52	109.43	116.20
36	1	2623	G	OP1-P-OP2	-7.52	108.32	119.60
36	1	3101	G	C2-N3-C4	7.52	115.66	111.90
37	3	50	U	N1-C2-O2	-7.52	117.54	122.80
80	6	1008	G	C6-N1-C2	7.52	129.61	125.10
85	5	299	G	N1-C6-O6	-7.52	115.39	119.90
85	5	382	U	N1-C2-O2	-7.52	117.54	122.80
85	5	799	G	N1-C2-N3	-7.52	119.39	123.90
85	5	834	U	C5-C4-O4	7.52	130.41	125.90
85	5	1178	G	C4-N9-C1'	7.52	136.27	126.50
85	5	1413	G	C5-C6-N1	7.52	115.26	111.50
85	5	1883	A	C5-N7-C8	-7.52	100.14	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2592	G	C5-C6-O6	7.52	133.11	128.60
85	5	3071	U	N1-C2-O2	-7.52	117.54	122.80
85	5	3182	G	C5-N7-C8	7.52	108.06	104.30
37	7	18	C	C4-C5-C6	7.52	121.16	117.40
37	7	78	U	N1-C2-N3	7.52	119.41	114.90
36	1	881	C	N1-C2-O2	7.52	123.41	118.90
36	1	1200	A	C5-C6-N1	-7.52	113.94	117.70
36	1	1609	C	O5'-P-OP1	7.52	119.72	110.70
36	1	2230	C	C2-N3-C4	7.52	123.66	119.90
36	1	2927	C	C2-N3-C4	-7.52	116.14	119.90
85	5	1872	C	C5-C4-N4	7.52	125.46	120.20
85	5	1935	G	C5-C6-O6	-7.52	124.09	128.60
85	5	3263	G	C8-N9-C4	-7.52	103.39	106.40
38	8	89	A	N1-C6-N6	-7.52	114.09	118.60
36	1	142	C	OP1-P-O3'	-7.51	88.67	105.20
36	1	1524	A	OP1-P-OP2	-7.51	108.33	119.60
36	1	2218	G	N1-C2-N2	-7.51	109.44	116.20
36	1	2360	C	C2-N3-C4	-7.51	116.14	119.90
36	1	2551	U	N3-C4-O4	-7.51	114.14	119.40
36	1	2808	A	N9-C4-C5	-7.51	102.79	105.80
36	1	2965	U	OP1-P-O3'	7.51	121.73	105.20
36	1	3082	C	N3-C4-C5	-7.51	118.89	121.90
80	6	565	C	C2-N1-C1'	-7.51	110.53	118.80
80	6	932	U	N3-C2-O2	-7.51	116.94	122.20
85	5	20	A	C5-C6-N6	7.51	129.71	123.70
85	5	401	U	N3-C4-O4	7.51	124.66	119.40
85	5	1715	A	C4-C5-N7	7.51	114.46	110.70
85	5	1754	G	C6-N1-C2	-7.51	120.59	125.10
85	5	2669	G	C8-N9-C4	7.51	109.41	106.40
85	5	3319	U	C4-C5-C6	7.51	124.21	119.70
38	8	55	U	OP1-P-OP2	7.51	130.87	119.60
36	1	1410	U	OP2-P-O3'	7.51	121.73	105.20
36	1	2550	U	N3-C2-O2	-7.51	116.94	122.20
36	1	3283	U	N1-C2-O2	-7.51	117.54	122.80
80	6	422	G	C5-N7-C8	-7.51	100.54	104.30
85	5	652	G	N1-C2-N3	7.51	128.41	123.90
85	5	929	A	C5-N7-C8	7.51	107.66	103.90
85	5	1637	A	C5-C6-N1	7.51	121.46	117.70
1	2	16	G	N1-C2-N2	-7.51	109.44	116.20
1	2	187	G	C4-C5-N7	-7.51	107.80	110.80
36	1	776	U	O5'-P-OP2	7.51	119.71	110.70
36	1	978	G	C5-N7-C8	-7.51	100.54	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1004	U	N1-C2-O2	-7.51	117.54	122.80
36	1	1410	U	N1-C2-N3	7.51	119.41	114.90
36	1	2726	C	C2-N3-C4	-7.51	116.14	119.90
85	5	618	C	O5'-P-OP2	-7.51	98.94	105.70
85	5	714	G	O5'-P-OP2	-7.51	98.94	105.70
85	5	1754	G	N9-C4-C5	7.51	108.40	105.40
85	5	2250	G	N7-C8-N9	-7.51	109.34	113.10
36	1	2237	C	N1-C2-O2	7.51	123.41	118.90
36	1	2244	A	OP1-P-OP2	7.51	130.86	119.60
36	1	3104	U	C5-C4-O4	-7.51	121.39	125.90
80	6	58	U	C6-N1-C1'	7.51	131.71	121.20
85	5	222	A	C5-N7-C8	-7.51	100.14	103.90
85	5	366	A	N1-C6-N6	7.51	123.11	118.60
85	5	404	G	O5'-P-OP2	-7.51	98.94	105.70
85	5	630	A	C5-N7-C8	7.51	107.66	103.90
85	5	872	U	C2-N3-C4	-7.51	122.49	127.00
85	5	897	U	O5'-P-OP1	-7.51	98.94	105.70
1	2	8	U	O5'-P-OP2	-7.51	98.94	105.70
36	1	2758	A	OP2-P-O3'	7.51	121.72	105.20
85	5	88	A	C2-N3-C4	-7.51	106.85	110.60
85	5	1441	G	C4-C5-N7	7.51	113.80	110.80
59	n3	12	ARG	NE-CZ-NH1	7.51	124.05	120.30
1	2	87	C	C5-C6-N1	7.51	124.75	121.00
36	1	1150	A	N1-C2-N3	7.51	133.05	129.30
36	1	2370	G	C6-N1-C2	-7.51	120.60	125.10
80	6	280	U	N1-C2-O2	7.51	128.05	122.80
80	6	562	G	N3-C2-N2	-7.51	114.65	119.90
80	6	957	G	C4-C5-C6	7.51	123.30	118.80
85	5	789	A	N9-C4-C5	7.51	108.80	105.80
85	5	3305	A	C5-C6-N1	-7.51	113.95	117.70
36	1	739	G	C5-C6-O6	-7.50	124.10	128.60
36	1	1804	A	C5-C6-N1	-7.50	113.95	117.70
38	4	54	A	C4-C5-C6	7.50	120.75	117.00
80	6	464	A	C5-C6-N6	7.50	129.70	123.70
85	5	1590	G	C5-C6-O6	-7.50	124.10	128.60
85	5	2811	A	N3-C4-C5	-7.50	121.55	126.80
36	1	937	G	N9-C4-C5	7.50	108.40	105.40
36	1	2395	G	C5-C6-N1	-7.50	107.75	111.50
36	1	2714	G	O5'-P-OP1	-7.50	98.95	105.70
36	1	2858	U	C4-C5-C6	7.50	124.20	119.70
80	6	125	U	N3-C2-O2	7.50	127.45	122.20
80	6	269	G	N1-C6-O6	-7.50	115.40	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1344	G	OP2-P-O3'	7.50	121.71	105.20
85	5	1477	A	OP1-P-OP2	7.50	130.86	119.60
85	5	1916	U	C5-C4-O4	-7.50	121.40	125.90
85	5	2693	C	C4-C5-C6	7.50	121.15	117.40
85	5	2876	C	OP1-P-OP2	7.50	130.86	119.60
91	P	75	C	N1-C2-N3	-7.50	113.95	119.20
1	2	1130	A	C5-N7-C8	-7.50	100.15	103.90
36	1	1205	A	C2-N3-C4	-7.50	106.85	110.60
36	1	1472	U	N1-C2-O2	-7.50	117.55	122.80
36	1	1485	G	N3-C4-C5	7.50	132.35	128.60
36	1	1643	A	C6-N1-C2	-7.50	114.10	118.60
36	1	1755	C	C5-C6-N1	7.50	124.75	121.00
36	1	2665	U	N1-C2-O2	7.50	128.05	122.80
36	1	2779	A	N1-C2-N3	7.50	133.05	129.30
80	6	279	G	N1-C2-N2	7.50	122.95	116.20
80	6	886	U	C4-C5-C6	-7.50	115.20	119.70
80	6	1658	G	C2-N3-C4	-7.50	108.15	111.90
85	5	2920	U	N3-C4-C5	-7.50	110.10	114.60
37	7	23	A	C8-N9-C4	-7.50	102.80	105.80
36	1	719	U	O5'-P-OP2	-7.50	98.95	105.70
36	1	844	G	C8-N9-C4	7.50	109.40	106.40
36	1	1660	C	N3-C4-N4	7.50	123.25	118.00
85	5	2604	U	N3-C2-O2	7.50	127.45	122.20
37	7	63	A	N9-C4-C5	7.50	108.80	105.80
43	l6	40	LEU	CB-CG-CD1	-7.50	98.25	111.00
1	2	1496	G	C8-N9-C4	-7.50	103.40	106.40
36	1	80	G	C4-C5-N7	-7.50	107.80	110.80
36	1	639	G	C4-C5-C6	7.50	123.30	118.80
36	1	1472	U	C6-N1-C2	7.50	125.50	121.00
36	1	2309	A	C8-N9-C4	-7.50	102.80	105.80
36	1	2609	A	C6-N1-C2	-7.50	114.10	118.60
36	1	2694	A	O5'-P-OP1	-7.50	98.95	105.70
80	6	573	C	C2-N3-C4	-7.50	116.15	119.90
80	6	616	G	C6-N1-C2	-7.50	120.60	125.10
85	5	1085	A	C6-C5-N7	-7.50	127.05	132.30
85	5	2635	A	C5-N7-C8	-7.50	100.15	103.90
85	5	3339	A	N7-C8-N9	7.50	117.55	113.80
37	7	61	G	O5'-P-OP2	-7.50	98.95	105.70
1	2	1271	G	C4-C5-N7	-7.50	107.80	110.80
1	2	1309	A	C2-N3-C4	7.50	114.35	110.60
1	2	1492	C	C5-C6-N1	7.50	124.75	121.00
36	1	1118	C	N3-C4-C5	-7.50	118.90	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2662	G	O5'-P-OP2	-7.50	98.95	105.70
36	1	3244	A	N1-C6-N6	7.50	123.10	118.60
80	6	1154	G	N7-C8-N9	7.50	116.85	113.10
80	6	1450	U	N3-C2-O2	7.50	127.45	122.20
85	5	743	C	N1-C2-O2	-7.50	114.40	118.90
85	5	1042	U	OP1-P-O3'	-7.50	88.71	105.20
85	5	2726	C	OP1-P-OP2	-7.50	108.36	119.60
1	2	1708	U	C5-C4-O4	-7.50	121.40	125.90
36	1	2133	U	C5-C4-O4	7.50	130.40	125.90
36	1	2933	A	N7-C8-N9	7.50	117.55	113.80
85	5	283	G	N3-C4-N9	7.50	130.50	126.00
85	5	2737	C	O5'-P-OP2	-7.50	98.95	105.70
1	2	1368	G	N1-C2-N3	7.49	128.40	123.90
36	1	105	C	C2-N3-C4	-7.49	116.15	119.90
36	1	497	C	C4-C5-C6	7.49	121.15	117.40
36	1	880	G	N1-C6-O6	-7.49	115.40	119.90
36	1	2782	U	C4-C5-C6	7.49	124.20	119.70
36	1	2911	A	N1-C2-N3	7.49	133.05	129.30
80	6	575	C	N1-C2-N3	7.49	124.44	119.20
80	6	1511	U	C6-N1-C2	-7.49	116.50	121.00
80	6	1790	A	N1-C6-N6	-7.49	114.10	118.60
85	5	12	A	C6-N1-C2	-7.49	114.10	118.60
85	5	927	C	O5'-P-OP1	-7.49	98.96	105.70
85	5	2753	G	C2-N3-C4	-7.49	108.15	111.90
85	5	3271	G	C5-N7-C8	7.49	108.05	104.30
38	8	122	U	OP2-P-O3'	7.49	121.69	105.20
36	1	1136	A	C6-N1-C2	-7.49	114.11	118.60
37	3	84	A	C5-N7-C8	-7.49	100.15	103.90
85	5	1849	C	N3-C4-C5	-7.49	118.90	121.90
1	2	209	U	N1-C2-O2	-7.49	117.56	122.80
1	2	245	U	C2-N3-C4	-7.49	122.50	127.00
1	2	299	A	O5'-P-OP2	-7.49	98.96	105.70
1	2	821	G	N1-C2-N3	-7.49	119.41	123.90
1	2	1104	C	N3-C4-C5	-7.49	118.90	121.90
1	2	1255	U	O5'-P-OP2	7.49	119.69	110.70
36	1	51	A	C6-N1-C2	-7.49	114.11	118.60
36	1	192	C	C6-N1-C2	-7.49	117.30	120.30
36	1	786	A	N1-C2-N3	7.49	133.05	129.30
36	1	1197	A	C2-N3-C4	7.49	114.34	110.60
36	1	1329	U	C2-N1-C1'	7.49	126.69	117.70
36	1	1437	C	N1-C2-N3	7.49	124.44	119.20
36	1	2373	A	OP1-P-O3'	7.49	121.68	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2873	U	N3-C4-O4	-7.49	114.16	119.40
80	6	719	U	N3-C2-O2	7.49	127.44	122.20
80	6	935	U	C4-C5-C6	7.49	124.19	119.70
85	5	361	A	N7-C8-N9	-7.49	110.05	113.80
85	5	597	G	C5-C6-N1	7.49	115.25	111.50
85	5	1343	A	C6-N1-C2	7.49	123.09	118.60
85	5	2340	U	O5'-P-OP1	-7.49	98.96	105.70
85	5	3144	G	O5'-P-OP1	-7.49	98.96	105.70
36	1	421	G	C4-C5-C6	-7.49	114.31	118.80
36	1	1040	A	N1-C6-N6	-7.49	114.11	118.60
36	1	1371	G	C5-N7-C8	7.49	108.04	104.30
36	1	2853	A	C6-N1-C2	-7.49	114.11	118.60
80	6	1032	G	N9-C4-C5	-7.49	102.41	105.40
80	6	1718	G	OP2-P-O3'	7.49	121.67	105.20
85	5	241	G	N7-C8-N9	7.49	116.84	113.10
85	5	379	C	C5-C6-N1	7.49	124.74	121.00
85	5	626	U	N3-C4-C5	-7.49	110.11	114.60
85	5	947	G	N1-C2-N3	7.49	128.39	123.90
85	5	1140	G	N7-C8-N9	-7.49	109.36	113.10
85	5	1897	G	OP2-P-O3'	7.49	121.67	105.20
85	5	2386	A	C6-C5-N7	-7.49	127.06	132.30
85	5	3186	A	N1-C6-N6	-7.49	114.11	118.60
85	5	3262	U	OP1-P-OP2	-7.49	108.37	119.60
51	m5	159	ARG	NE-CZ-NH1	-7.49	116.56	120.30
36	1	1358	C	N3-C2-O2	7.49	127.14	121.90
36	1	1805	C	C5-C6-N1	-7.49	117.26	121.00
80	6	590	C	O5'-P-OP2	7.49	119.68	110.70
85	5	2397	A	OP1-P-OP2	7.49	130.83	119.60
1	2	93	A	O5'-P-OP2	-7.49	98.96	105.70
36	1	1423	C	N1-C2-N3	7.49	124.44	119.20
36	1	2740	A	C4-C5-N7	7.49	114.44	110.70
36	1	2787	G	N1-C6-O6	7.49	124.39	119.90
80	6	450	U	O5'-P-OP1	7.49	119.68	110.70
80	6	1404	C	C6-N1-C2	7.49	123.29	120.30
85	5	3278	C	N1-C2-O2	7.49	123.39	118.90
38	8	134	G	N7-C8-N9	-7.49	109.36	113.10
1	2	386	G	OP1-P-O3'	7.48	121.67	105.20
1	2	1482	G	OP1-P-OP2	-7.48	108.37	119.60
36	1	2193	U	N3-C2-O2	7.48	127.44	122.20
36	1	2379	U	C6-N1-C2	-7.48	116.51	121.00
36	1	2586	G	O5'-P-OP1	-7.48	98.97	105.70
36	1	2936	A	O5'-P-OP2	7.48	119.68	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3099	C	OP1-P-OP2	7.48	130.83	119.60
85	5	583	G	C6-C5-N7	-7.48	125.91	130.40
1	2	572	C	N1-C2-O2	-7.48	114.41	118.90
1	2	969	G	N9-C4-C5	7.48	108.39	105.40
36	1	2530	G	C5-C6-O6	-7.48	124.11	128.60
37	3	8	G	C2-N3-C4	-7.48	108.16	111.90
80	6	941	A	C4-C5-N7	-7.48	106.96	110.70
85	5	619	A	C8-N9-C4	7.48	108.79	105.80
85	5	1003	A	C4-C5-N7	7.48	114.44	110.70
85	5	2215	A	C6-C5-N7	-7.48	127.06	132.30
85	5	2228	A	N1-C6-N6	-7.48	114.11	118.60
85	5	2441	A	N1-C2-N3	-7.48	125.56	129.30
1	2	787	A	C2-N3-C4	-7.48	106.86	110.60
36	1	1450	G	N1-C6-O6	-7.48	115.41	119.90
36	1	1831	U	N1-C2-N3	7.48	119.39	114.90
36	1	2315	G	N3-C2-N2	-7.48	114.66	119.90
36	1	3187	A	N3-C4-C5	-7.48	121.56	126.80
80	6	431	C	O5'-P-OP1	-7.48	98.97	105.70
80	6	872	G	C6-C5-N7	-7.48	125.91	130.40
80	6	880	C	C6-N1-C2	-7.48	117.31	120.30
80	6	1774	G	C5-C6-O6	7.48	133.09	128.60
85	5	1554	U	O5'-P-OP1	7.48	119.68	110.70
36	1	422	A	C6-N1-C2	-7.48	114.11	118.60
80	6	102	U	N1-C2-N3	-7.48	110.41	114.90
85	5	1052	U	C5-C4-O4	-7.48	121.41	125.90
85	5	1186	G	N9-C4-C5	7.48	108.39	105.40
85	5	2643	A	N9-C4-C5	-7.48	102.81	105.80
1	2	1627	C	N3-C2-O2	-7.48	116.67	121.90
36	1	780	A	O5'-P-OP1	-7.48	98.97	105.70
36	1	1462	A	OP1-P-OP2	-7.48	108.38	119.60
36	1	1515	A	C5-C6-N1	-7.48	113.96	117.70
36	1	1798	A	C5-N7-C8	-7.48	100.16	103.90
36	1	2397	A	N1-C6-N6	7.48	123.09	118.60
36	1	3361	G	C6-N1-C2	-7.48	120.61	125.10
36	1	3375	A	C2-N3-C4	-7.48	106.86	110.60
38	4	140	G	C6-C5-N7	-7.48	125.91	130.40
80	6	613	G	C5-C6-N1	7.48	115.24	111.50
80	6	1353	U	C6-N1-C2	-7.48	116.51	121.00
80	6	1578	U	C5-C6-N1	-7.48	118.96	122.70
80	6	1797	A	C2-N3-C4	7.48	114.34	110.60
85	5	149	U	N1-C2-O2	-7.48	117.56	122.80
85	5	765	C	C4-C5-C6	7.48	121.14	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1913	A	C5-C6-N1	7.48	121.44	117.70
85	5	2373	A	C5-C6-N1	7.48	121.44	117.70
85	5	2984	C	C2-N3-C4	-7.48	116.16	119.90
37	7	75	G	N3-C2-N2	-7.48	114.67	119.90
1	2	91	G	N3-C2-N2	-7.48	114.67	119.90
80	6	11	A	C4-C5-N7	-7.48	106.96	110.70
85	5	2633	U	C5-C4-O4	7.48	130.39	125.90
85	5	3333	G	C5-C6-O6	7.48	133.09	128.60
38	8	40	A	C8-N9-C4	-7.48	102.81	105.80
36	1	78	U	OP1-P-O3'	-7.47	88.76	105.20
36	1	1097	G	N7-C8-N9	7.47	116.84	113.10
36	1	1778	G	N3-C2-N2	-7.47	114.67	119.90
36	1	2602	G	O5'-P-OP1	7.47	119.67	110.70
36	1	2745	G	C8-N9-C4	7.47	109.39	106.40
36	1	3207	U	C6-N1-C1'	7.47	131.66	121.20
38	4	147	U	N1-C2-N3	7.47	119.39	114.90
80	6	359	A	OP1-P-O3'	7.47	121.64	105.20
80	6	1604	U	N3-C4-O4	7.47	124.63	119.40
85	5	92	G	N1-C6-O6	-7.47	115.42	119.90
85	5	721	G	N3-C2-N2	-7.47	114.67	119.90
85	5	2106	A	C8-N9-C4	-7.47	102.81	105.80
36	1	1906	G	C4-C5-N7	7.47	113.79	110.80
36	1	3097	C	C4-C5-C6	-7.47	113.66	117.40
80	6	705	U	N3-C2-O2	-7.47	116.97	122.20
85	5	562	C	C5-C4-N4	-7.47	114.97	120.20
85	5	798	G	C5-C6-O6	-7.47	124.12	128.60
85	5	878	G	O5'-P-OP1	-7.47	98.97	105.70
85	5	1112	A	N3-C4-C5	-7.47	121.57	126.80
85	5	1207	G	C2-N3-C4	7.47	115.64	111.90
85	5	1805	C	N3-C2-O2	7.47	127.13	121.90
1	2	1079	C	N3-C4-C5	-7.47	118.91	121.90
36	1	5	G	N3-C4-C5	7.47	132.34	128.60
36	1	215	G	C8-N9-C4	-7.47	103.41	106.40
36	1	304	G	C8-N9-C4	-7.47	103.41	106.40
36	1	2330	C	N3-C4-C5	7.47	124.89	121.90
80	6	1117	U	N3-C2-O2	7.47	127.43	122.20
80	6	1678	A	C6-C5-N7	-7.47	127.07	132.30
85	5	1753	G	C4-C5-C6	7.47	123.28	118.80
85	5	2109	U	C5-C4-O4	7.47	130.38	125.90
38	8	36	G	N1-C2-N2	-7.47	109.48	116.20
38	8	87	G	N7-C8-N9	-7.47	109.36	113.10
36	1	845	G	N9-C4-C5	7.47	108.39	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1086	C	C2-N3-C4	-7.47	116.17	119.90
36	1	1510	G	N1-C6-O6	7.47	124.38	119.90
38	4	50	C	N3-C4-C5	-7.47	118.91	121.90
80	6	317	C	N1-C2-N3	7.47	124.43	119.20
80	6	1726	G	C2-N3-C4	-7.47	108.17	111.90
80	6	1729	C	N3-C4-N4	7.47	123.23	118.00
85	5	110	G	C2-N3-C4	7.47	115.63	111.90
85	5	1600	U	C5-C6-N1	-7.47	118.97	122.70
36	1	1942	U	C6-N1-C2	-7.47	116.52	121.00
80	6	1688	U	C6-N1-C2	-7.47	116.52	121.00
85	5	2792	A	C5-C6-N1	7.47	121.43	117.70
1	2	1109	G	C5-N7-C8	7.47	108.03	104.30
36	1	616	G	O5'-P-OP2	-7.47	98.98	105.70
36	1	786	A	C6-N1-C2	-7.47	114.12	118.60
36	1	1285	G	N3-C2-N2	7.47	125.13	119.90
38	4	114	G	C4-C5-N7	7.47	113.79	110.80
80	6	482	U	C2-N3-C4	7.47	131.48	127.00
85	5	778	U	N3-C2-O2	-7.47	116.97	122.20
85	5	1146	C	N1-C2-O2	-7.47	114.42	118.90
85	5	1499	C	OP1-P-OP2	-7.47	108.40	119.60
85	5	2368	A	C4-C5-C6	7.47	120.73	117.00
85	5	2870	C	N1-C2-O2	-7.47	114.42	118.90
37	7	53	U	C4-C5-C6	7.47	124.18	119.70
1	2	474	A	C5-C6-N1	-7.46	113.97	117.70
1	2	498	G	N1-C6-O6	-7.46	115.42	119.90
36	1	498	A	C5-N7-C8	7.46	107.63	103.90
36	1	611	A	O5'-P-OP1	7.46	119.66	110.70
36	1	963	G	C6-C5-N7	-7.46	125.92	130.40
36	1	1351	U	N3-C4-C5	-7.46	110.12	114.60
36	1	1673	G	C2-N3-C4	-7.46	108.17	111.90
36	1	2916	U	C2-N3-C4	7.46	131.48	127.00
36	1	3086	A	C6-N1-C2	-7.46	114.12	118.60
37	3	88	G	C4-C5-N7	-7.46	107.81	110.80
80	6	1090	C	N3-C2-O2	-7.46	116.67	121.90
85	5	344	A	C5-C6-N6	7.46	129.67	123.70
85	5	637	C	C5-C6-N1	7.46	124.73	121.00
85	5	733	G	N1-C6-O6	7.46	124.38	119.90
85	5	1102	A	OP1-P-O3'	7.46	121.62	105.20
85	5	1601	U	O5'-P-OP1	-7.46	98.98	105.70
85	5	2242	A	N1-C6-N6	-7.46	114.12	118.60
85	5	2337	C	C2-N3-C4	-7.46	116.17	119.90
36	1	924	G	C5-N7-C8	-7.46	100.57	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2571	U	N3-C2-O2	-7.46	116.98	122.20
36	1	3224	G	C5-C6-O6	-7.46	124.12	128.60
37	3	10	C	N3-C4-N4	7.46	123.22	118.00
80	6	1674	C	N3-C2-O2	7.46	127.12	121.90
85	5	197	G	O5'-P-OP1	7.46	119.66	110.70
37	7	1	G	N1-C2-N2	-7.46	109.48	116.20
36	1	706	A	C5-C6-N1	-7.46	113.97	117.70
36	1	2988	C	O5'-P-OP2	-7.46	98.98	105.70
36	1	3074	G	C5-C6-N1	-7.46	107.77	111.50
36	1	3245	A	C5-C6-N1	-7.46	113.97	117.70
85	5	1211	U	N3-C4-C5	7.46	119.08	114.60
85	5	2140	U	N1-C2-O2	7.46	128.02	122.80
1	2	858	G	N9-C4-C5	7.46	108.38	105.40
36	1	155	G	N3-C4-N9	7.46	130.48	126.00
36	1	1310	G	OP1-P-OP2	-7.46	108.41	119.60
51	M5	109	ARG	NE-CZ-NH1	-7.46	116.57	120.30
85	5	410	U	C5-C6-N1	7.46	126.43	122.70
85	5	1068	C	N3-C4-N4	-7.46	112.78	118.00
85	5	1735	G	N3-C4-C5	7.46	132.33	128.60
36	1	145	G	OP1-P-O3'	7.46	121.61	105.20
36	1	1057	A	C2-N3-C4	-7.46	106.87	110.60
36	1	1839	A	N1-C2-N3	7.46	133.03	129.30
36	1	2906	C	N1-C2-O2	-7.46	114.42	118.90
37	3	5	G	N7-C8-N9	-7.46	109.37	113.10
38	4	124	G	C5-C6-O6	-7.46	124.12	128.60
85	5	124	U	C4-C5-C6	7.46	124.17	119.70
85	5	683	U	N1-C2-O2	7.46	128.02	122.80
85	5	724	U	O5'-P-OP2	7.46	119.65	110.70
85	5	2185	G	C4-C5-C6	7.46	123.28	118.80
85	5	2396	G	C6-C5-N7	-7.46	125.92	130.40
85	5	3015	G	N7-C8-N9	-7.46	109.37	113.10
1	2	441	A	C5-C6-N1	7.46	121.43	117.70
1	2	755	G	C5-C6-N1	-7.46	107.77	111.50
36	1	2396	G	N7-C8-N9	7.46	116.83	113.10
38	4	101	U	N3-C4-O4	7.46	124.62	119.40
80	6	297	U	C5-C6-N1	7.46	126.43	122.70
85	5	703	G	C4-C5-N7	7.46	113.78	110.80
85	5	3183	A	N1-C6-N6	-7.46	114.13	118.60
38	8	111	A	C4-C5-C6	7.46	120.73	117.00
36	1	28	C	C5-C4-N4	-7.46	114.98	120.20
36	1	594	U	N3-C2-O2	7.46	127.42	122.20
36	1	2422	C	C5-C4-N4	7.46	125.42	120.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2851	A	N9-C4-C5	7.46	108.78	105.80
37	3	3	U	C5-C6-N1	-7.46	118.97	122.70
37	3	91	G	N3-C4-C5	-7.46	124.87	128.60
85	5	327	A	C8-N9-C4	-7.46	102.82	105.80
85	5	591	G	N9-C4-C5	-7.46	102.42	105.40
85	5	2213	A	N3-C4-C5	7.46	132.02	126.80
1	2	1650	A	C5-N7-C8	-7.45	100.17	103.90
36	1	90	C	N3-C4-C5	7.45	124.88	121.90
36	1	367	A	N1-C2-N3	7.45	133.03	129.30
36	1	884	A	OP1-P-O3'	7.45	121.60	105.20
36	1	1145	G	C2-N3-C4	-7.45	108.17	111.90
36	1	1169	A	C2-N3-C4	7.45	114.33	110.60
36	1	2648	G	C6-N1-C2	7.45	129.57	125.10
36	1	2919	A	C5-N7-C8	-7.45	100.17	103.90
80	6	329	G	C8-N9-C4	-7.45	103.42	106.40
80	6	427	C	C4-C5-C6	7.45	121.13	117.40
85	5	908	G	N1-C6-O6	7.45	124.37	119.90
85	5	1450	G	C4-C5-N7	7.45	113.78	110.80
85	5	1779	C	N1-C2-N3	7.45	124.42	119.20
85	5	2365	C	N3-C4-N4	7.45	123.22	118.00
85	5	2616	C	O5'-P-OP1	-7.45	98.99	105.70
85	5	2777	G	C8-N9-C4	-7.45	103.42	106.40
85	5	3074	G	N3-C2-N2	7.45	125.12	119.90
1	2	310	C	C6-N1-C2	-7.45	117.32	120.30
36	1	334	A	N7-C8-N9	7.45	117.53	113.80
36	1	895	A	C6-C5-N7	-7.45	127.08	132.30
36	1	901	G	C5-N7-C8	-7.45	100.57	104.30
36	1	1678	G	C5-C6-O6	-7.45	124.13	128.60
36	1	2362	C	O5'-P-OP1	-7.45	98.99	105.70
85	5	369	A	C4-C5-C6	7.45	120.73	117.00
85	5	1492	G	N1-C2-N3	7.45	128.37	123.90
36	1	314	U	O5'-P-OP2	-7.45	98.99	105.70
36	1	662	U	C5-C4-O4	-7.45	121.43	125.90
36	1	753	C	C5-C6-N1	7.45	124.72	121.00
36	1	1466	G	N1-C6-O6	7.45	124.37	119.90
36	1	1931	U	C5-C4-O4	7.45	130.37	125.90
36	1	2876	C	N3-C4-C5	-7.45	118.92	121.90
80	6	481	A	C4-C5-C6	-7.45	113.28	117.00
85	5	2187	G	N1-C2-N3	7.45	128.37	123.90
1	2	19	A	C4-C5-C6	7.45	120.72	117.00
1	2	351	C	O5'-P-OP2	-7.45	99.00	105.70
36	1	745	C	OP1-P-OP2	-7.45	108.43	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1909	A	C2-N3-C4	-7.45	106.88	110.60
36	1	2333	C	N3-C4-N4	-7.45	112.79	118.00
36	1	2736	A	N3-C4-N9	-7.45	121.44	127.40
80	6	755	A	C2-N3-C4	-7.45	106.88	110.60
85	5	304	G	N1-C2-N2	7.45	122.90	116.20
85	5	377	A	N1-C6-N6	7.45	123.07	118.60
85	5	1006	A	C5-C6-N6	7.45	129.66	123.70
85	5	1408	G	N1-C2-N3	7.45	128.37	123.90
85	5	1920	U	N3-C4-C5	-7.45	110.13	114.60
85	5	2541	U	N3-C2-O2	-7.45	116.99	122.20
85	5	2963	C	N3-C2-O2	7.45	127.11	121.90
85	5	3093	C	OP2-P-O3'	7.45	121.59	105.20
36	1	1185	C	C2-N3-C4	-7.45	116.18	119.90
36	1	2249	G	N1-C6-O6	-7.45	115.43	119.90
37	3	88	G	OP1-P-OP2	7.45	130.77	119.60
85	5	1555	U	N1-C2-O2	7.45	128.01	122.80
85	5	2438	A	C5-C6-N1	-7.45	113.98	117.70
85	5	2878	G	C5-C6-O6	-7.45	124.13	128.60
85	5	2977	G	OP2-P-O3'	7.45	121.58	105.20
36	1	1208	U	N3-C2-O2	-7.45	116.99	122.20
36	1	1436	U	N3-C2-O2	7.45	127.41	122.20
36	1	1778	G	C4-C5-N7	-7.45	107.82	110.80
36	1	1858	A	C8-N9-C4	-7.45	102.82	105.80
36	1	1887	A	C8-N9-C4	7.45	108.78	105.80
36	1	2147	A	C8-N9-C4	7.45	108.78	105.80
36	1	2916	U	N3-C2-O2	-7.45	116.99	122.20
36	1	3247	G	N1-C2-N2	-7.45	109.50	116.20
85	5	663	C	C6-N1-C2	-7.45	117.32	120.30
85	5	807	A	C4-C5-N7	7.45	114.42	110.70
85	5	975	C	C6-N1-C2	-7.45	117.32	120.30
85	5	2316	G	N1-C2-N2	-7.45	109.50	116.20
85	5	2392	C	OP2-P-O3'	7.45	121.58	105.20
1	2	1183	G	C5-C6-N1	-7.44	107.78	111.50
36	1	2597	U	N3-C4-O4	7.44	124.61	119.40
80	6	29	U	C5-C4-O4	7.44	130.37	125.90
80	6	307	G	C4-C5-N7	-7.44	107.82	110.80
85	5	1833	G	N1-C2-N2	7.44	122.90	116.20
85	5	2615	G	N9-C4-C5	-7.44	102.42	105.40
85	5	2620	G	C2-N3-C4	-7.44	108.18	111.90
37	7	81	U	OP1-P-O3'	-7.44	88.82	105.20
1	2	210	A	C5-C6-N1	-7.44	113.98	117.70
1	2	976	A	C8-N9-C4	-7.44	102.82	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	703	G	C6-N1-C2	-7.44	120.64	125.10
36	1	832	G	N1-C6-O6	-7.44	115.44	119.90
36	1	1675	G	C4-C5-C6	-7.44	114.33	118.80
36	1	2116	G	N1-C6-O6	-7.44	115.43	119.90
40	L3	270	ARG	NE-CZ-NH1	-7.44	116.58	120.30
80	6	932	U	O5'-P-OP2	-7.44	99.00	105.70
85	5	149	U	C5-C4-O4	-7.44	121.44	125.90
85	5	367	A	C6-C5-N7	-7.44	127.09	132.30
85	5	784	A	C8-N9-C4	-7.44	102.82	105.80
85	5	1264	G	N1-C6-O6	-7.44	115.44	119.90
85	5	1831	U	C6-N1-C2	-7.44	116.53	121.00
85	5	2611	U	N3-C4-C5	-7.44	110.13	114.60
85	5	3035	A	C5-C6-N1	7.44	121.42	117.70
36	1	591	G	C4-C5-N7	-7.44	107.82	110.80
36	1	1838	G	N3-C4-C5	-7.44	124.88	128.60
36	1	2131	A	C2-N3-C4	-7.44	106.88	110.60
36	1	2958	A	N1-C6-N6	-7.44	114.14	118.60
85	5	169	U	N3-C4-O4	-7.44	114.19	119.40
85	5	1371	G	N1-C2-N3	7.44	128.36	123.90
85	5	1681	U	N3-C2-O2	7.44	127.41	122.20
85	5	2790	A	N9-C4-C5	-7.44	102.82	105.80
85	5	2929	C	C5-C4-N4	-7.44	114.99	120.20
85	5	3009	G	C5-C6-N1	-7.44	107.78	111.50
85	5	3367	C	O5'-P-OP2	7.44	119.63	110.70
1	2	1527	U	C5-C6-N1	-7.44	118.98	122.70
36	1	857	G	N9-C4-C5	7.44	108.38	105.40
36	1	1891	A	C2-N3-C4	-7.44	106.88	110.60
36	1	2334	U	N1-C2-N3	7.44	119.36	114.90
80	6	526	A	N7-C8-N9	7.44	117.52	113.80
85	5	397	A	C6-C5-N7	7.44	137.51	132.30
85	5	1371	G	C2-N3-C4	-7.44	108.18	111.90
85	5	1418	A	C8-N9-C4	-7.44	102.82	105.80
85	5	1829	G	C5-C6-O6	-7.44	124.14	128.60
85	5	2328	U	C6-N1-C2	-7.44	116.54	121.00
85	5	2972	G	C6-C5-N7	-7.44	125.94	130.40
36	1	509	U	C5-C6-N1	-7.44	118.98	122.70
36	1	916	G	N3-C2-N2	7.44	125.11	119.90
36	1	1045	C	O5'-P-OP1	7.44	119.62	110.70
36	1	1375	G	C6-C5-N7	-7.44	125.94	130.40
36	1	1474	A	OP1-P-OP2	-7.44	108.44	119.60
36	1	1866	C	N3-C2-O2	-7.44	116.69	121.90
36	1	2424	A	C4-C5-C6	-7.44	113.28	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2951	G	C8-N9-C4	7.44	109.38	106.40
36	1	3144	G	C5-C6-N1	-7.44	107.78	111.50
36	1	3229	G	C5-N7-C8	-7.44	100.58	104.30
36	1	3335	A	O5'-P-OP2	-7.44	99.01	105.70
80	6	321	C	N3-C4-C5	7.44	124.88	121.90
80	6	533	U	N3-C2-O2	-7.44	116.99	122.20
80	6	610	G	N9-C4-C5	-7.44	102.42	105.40
80	6	1150	G	C4-C5-N7	7.44	113.78	110.80
85	5	656	A	N9-C4-C5	-7.44	102.83	105.80
85	5	985	U	N1-C2-O2	-7.44	117.59	122.80
85	5	1417	G	OP1-P-OP2	-7.44	108.44	119.60
85	5	2132	C	N3-C4-C5	7.44	124.88	121.90
85	5	2897	A	C5-C6-N6	-7.44	117.75	123.70
85	5	2918	G	N3-C2-N2	-7.44	114.69	119.90
38	8	2	A	C6-N1-C2	-7.44	114.14	118.60
1	2	90	C	N3-C4-C5	-7.44	118.92	121.90
36	1	53	G	C5-N7-C8	7.44	108.02	104.30
36	1	111	C	N3-C4-C5	7.44	124.87	121.90
36	1	1394	A	N9-C4-C5	-7.44	102.83	105.80
80	6	758	U	C5-C6-N1	-7.44	118.98	122.70
85	5	350	C	N3-C4-C5	-7.44	118.93	121.90
1	2	1590	G	C5-C6-N1	-7.43	107.78	111.50
36	1	785	G	C5-C6-O6	-7.43	124.14	128.60
36	1	1292	C	N1-C2-O2	-7.43	114.44	118.90
36	1	2095	G	C6-C5-N7	7.43	134.86	130.40
36	1	2122	G	C6-N1-C2	-7.43	120.64	125.10
36	1	2581	U	O5'-P-OP1	-7.43	99.01	105.70
36	1	2653	C	O5'-P-OP2	-7.43	99.01	105.70
36	1	2908	G	N3-C4-C5	-7.43	124.88	128.60
36	1	3255	U	C2-N3-C4	-7.43	122.54	127.00
49	M3	55	ARG	NE-CZ-NH1	-7.43	116.58	120.30
80	6	73	U	N1-C2-N3	-7.43	110.44	114.90
80	6	478	A	N1-C2-N3	7.43	133.02	129.30
85	5	96	G	O4'-C1'-N9	-7.43	102.25	108.20
85	5	1035	G	C8-N9-C4	-7.43	103.43	106.40
85	5	1674	G	OP1-P-OP2	7.43	130.75	119.60
85	5	1714	A	N1-C6-N6	7.43	123.06	118.60
85	5	1880	U	C2-N3-C4	-7.43	122.54	127.00
85	5	2506	U	C5-C6-N1	7.43	126.42	122.70
1	2	459	G	C5-C6-N1	-7.43	107.78	111.50
36	1	391	A	C5-C6-N1	7.43	121.42	117.70
36	1	1499	C	N1-C2-O2	-7.43	114.44	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1841	A	N7-C8-N9	-7.43	110.08	113.80
36	1	1872	C	C2-N3-C4	-7.43	116.18	119.90
36	1	2614	G	C5-N7-C8	7.43	108.02	104.30
37	3	40	C	C5-C6-N1	7.43	124.72	121.00
37	3	73	C	C4-C5-C6	-7.43	113.68	117.40
38	4	49	G	N9-C4-C5	-7.43	102.43	105.40
80	6	930	A	C2-N3-C4	-7.43	106.88	110.60
80	6	1086	A	N1-C2-N3	-7.43	125.58	129.30
85	5	8	C	C5-C4-N4	7.43	125.40	120.20
85	5	111	C	O5'-P-OP2	-7.43	99.01	105.70
85	5	628	A	C2-N3-C4	-7.43	106.88	110.60
85	5	1844	C	C6-N1-C2	-7.43	117.33	120.30
85	5	2848	G	C4-C5-N7	-7.43	107.83	110.80
85	5	2852	C	O5'-P-OP2	-7.43	99.01	105.70
85	5	2938	G	C4-C5-N7	7.43	113.77	110.80
1	2	1291	G	N1-C2-N3	7.43	128.36	123.90
36	1	324	A	N3-C4-N9	-7.43	121.45	127.40
36	1	582	G	C4-C5-C6	-7.43	114.34	118.80
36	1	619	A	N9-C4-C5	-7.43	102.83	105.80
36	1	1514	G	C5-C6-O6	-7.43	124.14	128.60
36	1	3108	G	C5-C6-N1	7.43	115.22	111.50
80	6	1722	A	C5-N7-C8	7.43	107.62	103.90
85	5	511	G	C8-N9-C4	-7.43	103.43	106.40
85	5	788	C	C5-C4-N4	7.43	125.40	120.20
1	2	71	A	C5-C6-N1	7.43	121.42	117.70
1	2	586	G	N1-C6-O6	-7.43	115.44	119.90
1	2	1263	C	O5'-P-OP1	-7.43	99.01	105.70
36	1	16	A	C8-N9-C4	7.43	108.77	105.80
85	5	45	A	N7-C8-N9	7.43	117.52	113.80
85	5	1383	G	C6-N1-C2	-7.43	120.64	125.10
85	5	2318	U	C2-N3-C4	7.43	131.46	127.00
85	5	2864	A	C8-N9-C4	-7.43	102.83	105.80
85	5	3028	G	C5-C6-O6	7.43	133.06	128.60
85	5	3318	G	C5-C6-N1	-7.43	107.78	111.50
36	1	636	C	N3-C2-O2	-7.43	116.70	121.90
36	1	2221	G	C6-N1-C2	7.43	129.56	125.10
36	1	2243	A	C5-N7-C8	7.43	107.61	103.90
36	1	3298	C	N3-C2-O2	7.43	127.10	121.90
85	5	1359	C	N3-C4-N4	7.43	123.20	118.00
1	2	434	G	C8-N9-C4	7.43	109.37	106.40
1	2	963	G	N1-C6-O6	-7.43	115.44	119.90
36	1	22	G	C8-N9-C4	-7.43	103.43	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1361	U	C5-C4-O4	-7.43	121.44	125.90
36	1	2369	G	C8-N9-C4	-7.43	103.43	106.40
36	1	2607	G	C6-C5-N7	-7.43	125.94	130.40
36	1	2730	G	N3-C4-N9	-7.43	121.54	126.00
80	6	1007	C	N1-C2-O2	-7.43	114.44	118.90
85	5	778	U	N1-C2-O2	7.43	128.00	122.80
85	5	1596	C	C5-C6-N1	-7.43	117.29	121.00
85	5	1878	G	N7-C8-N9	7.43	116.81	113.10
85	5	1879	A	O5'-P-OP2	-7.43	99.02	105.70
85	5	2624	G	C4-C5-N7	7.43	113.77	110.80
85	5	2837	A	C8-N9-C4	7.43	108.77	105.80
85	5	3305	A	C2-N3-C4	-7.43	106.89	110.60
37	7	60	G	N7-C8-N9	7.43	116.81	113.10
1	2	223	U	C2-N3-C4	7.42	131.46	127.00
1	2	854	G	C5-C6-O6	7.42	133.06	128.60
36	1	283	G	C5-C6-O6	-7.42	124.14	128.60
36	1	347	G	C4-C5-N7	7.42	113.77	110.80
36	1	2734	A	N7-C8-N9	7.42	117.51	113.80
36	1	3042	U	OP1-P-OP2	-7.42	108.46	119.60
36	1	3276	G	N9-C4-C5	-7.42	102.43	105.40
80	6	880	C	N3-C4-N4	7.42	123.20	118.00
80	6	896	U	N3-C4-O4	-7.42	114.20	119.40
80	6	1511	U	N3-C4-O4	7.42	124.60	119.40
85	5	32	U	N1-C2-N3	7.42	119.36	114.90
85	5	189	G	N1-C2-N3	7.42	128.35	123.90
85	5	412	G	C5-C6-O6	7.42	133.05	128.60
85	5	810	A	C6-C5-N7	-7.42	127.10	132.30
85	5	1179	A	C4-C5-N7	-7.42	106.99	110.70
85	5	1425	U	C4-C5-C6	7.42	124.16	119.70
85	5	1851	G	C6-C5-N7	-7.42	125.94	130.40
85	5	2268	U	OP1-P-OP2	-7.42	108.46	119.60
36	1	2125	A	N7-C8-N9	7.42	117.51	113.80
80	6	455	C	C5-C6-N1	7.42	124.71	121.00
85	5	3185	U	C2-N3-C4	-7.42	122.55	127.00
36	1	134	U	N3-C4-O4	-7.42	114.20	119.40
36	1	2421	U	C5-C6-N1	7.42	126.41	122.70
80	6	103	A	P-O3'-C3'	-7.42	110.79	119.70
85	5	370	U	N1-C2-N3	7.42	119.35	114.90
85	5	383	G	C4-C5-N7	-7.42	107.83	110.80
85	5	630	A	N1-C6-N6	-7.42	114.15	118.60
85	5	657	A	OP1-P-OP2	-7.42	108.47	119.60
85	5	726	G	OP1-P-O3'	7.42	121.53	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	983	A	N1-C6-N6	-7.42	114.15	118.60
85	5	1534	A	N1-C2-N3	7.42	133.01	129.30
85	5	1878	G	N3-C2-N2	7.42	125.09	119.90
85	5	3074	G	OP1-P-OP2	7.42	130.73	119.60
1	2	18	C	N3-C4-C5	-7.42	118.93	121.90
1	2	747	U	C5-C6-N1	7.42	126.41	122.70
36	1	256	G	N1-C6-O6	7.42	124.35	119.90
36	1	2950	G	OP1-P-OP2	-7.42	108.47	119.60
80	6	628	G	N1-C2-N2	-7.42	109.52	116.20
80	6	1668	G	N3-C4-C5	-7.42	124.89	128.60
85	5	690	A	C5-C6-N6	7.42	129.64	123.70
85	5	844	G	C2-N3-C4	-7.42	108.19	111.90
85	5	1105	A	O5'-P-OP2	-7.42	99.02	105.70
85	5	1418	A	OP1-P-OP2	7.42	130.73	119.60
37	7	42	A	N1-C2-N3	7.42	133.01	129.30
1	2	887	G	N7-C8-N9	-7.42	109.39	113.10
1	2	921	G	C5-C6-O6	-7.42	124.15	128.60
36	1	643	U	C5-C6-N1	7.42	126.41	122.70
36	1	757	C	C4-C5-C6	7.42	121.11	117.40
36	1	996	A	N1-C6-N6	-7.42	114.15	118.60
36	1	1389	G	N9-C4-C5	-7.42	102.43	105.40
36	1	1555	U	N3-C4-C5	-7.42	110.15	114.60
36	1	1610	G	C5-C6-N1	-7.42	107.79	111.50
80	6	264	G	N3-C4-C5	7.42	132.31	128.60
80	6	741	C	N1-C2-O2	7.42	123.35	118.90
80	6	1181	U	C6-N1-C2	-7.42	116.55	121.00
85	5	407	A	OP2-P-O3'	7.42	121.52	105.20
85	5	420	G	C6-N1-C2	-7.42	120.65	125.10
85	5	2832	C	C4-C5-C6	7.42	121.11	117.40
85	5	2882	U	OP1-P-O3'	7.42	121.52	105.20
1	2	93	A	C6-N1-C2	-7.42	114.15	118.60
1	2	835	C	N1-C2-N3	-7.42	114.01	119.20
1	2	1801	C	C6-N1-C2	-7.42	117.33	120.30
36	1	87	U	N1-C2-O2	-7.42	117.61	122.80
36	1	663	C	C5-C6-N1	7.42	124.71	121.00
36	1	1678	G	C4-C5-N7	7.42	113.77	110.80
36	1	3176	G	C5-C6-O6	-7.42	124.15	128.60
80	6	1795	U	N3-C2-O2	-7.42	117.01	122.20
85	5	684	G	C5-C6-N1	-7.42	107.79	111.50
85	5	748	U	OP1-P-O3'	7.42	121.52	105.20
85	5	2321	A	C5-C6-N1	-7.42	113.99	117.70
85	5	2784	G	C8-N9-C4	-7.42	103.43	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3102	G	N1-C2-N2	-7.42	109.52	116.20
85	5	3243	A	C8-N9-C4	7.42	108.77	105.80
38	8	70	G	C5-N7-C8	7.42	108.01	104.30
36	1	1734	G	C4-C5-N7	7.42	113.77	110.80
36	1	2620	G	C4-C5-N7	7.42	113.77	110.80
36	1	3202	G	C4-C5-N7	7.42	113.77	110.80
80	6	1128	C	C4-C5-C6	7.42	121.11	117.40
85	5	357	A	C5-N7-C8	7.42	107.61	103.90
36	1	353	G	C6-N1-C2	-7.41	120.65	125.10
36	1	500	C	C4-C5-C6	7.41	121.11	117.40
36	1	815	G	N7-C8-N9	7.41	116.81	113.10
36	1	2601	A	OP1-P-OP2	7.41	130.72	119.60
80	6	484	C	C5-C6-N1	7.41	124.71	121.00
85	5	615	U	N3-C4-O4	7.41	124.59	119.40
85	5	2893	C	C5-C6-N1	7.41	124.71	121.00
37	7	41	G	N1-C6-O6	7.41	124.35	119.90
1	2	687	C	N1-C2-O2	7.41	123.35	118.90
36	1	1145	G	N3-C2-N2	-7.41	114.71	119.90
36	1	1212	A	C5-C6-N1	7.41	121.41	117.70
46	L9	69	ARG	NE-CZ-NH2	-7.41	116.59	120.30
85	5	377	A	N7-C8-N9	7.41	117.51	113.80
85	5	2894	C	N3-C4-C5	-7.41	118.94	121.90
85	5	3085	G	C4-C5-N7	-7.41	107.83	110.80
1	2	1643	A	C2-N3-C4	7.41	114.31	110.60
36	1	165	A	C8-N9-C4	-7.41	102.83	105.80
36	1	1071	U	N3-C4-O4	7.41	124.59	119.40
36	1	2182	A	N1-C6-N6	-7.41	114.15	118.60
36	1	2602	G	O5'-P-OP2	-7.41	99.03	105.70
36	1	2643	A	OP1-P-OP2	-7.41	108.48	119.60
80	6	99	C	C2-N3-C4	-7.41	116.19	119.90
80	6	1521	G	C8-N9-C4	-7.41	103.44	106.40
80	6	1663	G	C2-N3-C4	-7.41	108.19	111.90
85	5	7	C	C6-N1-C2	7.41	123.26	120.30
85	5	61	A	C8-N9-C4	-7.41	102.84	105.80
85	5	1202	A	C5-C6-N1	-7.41	114.00	117.70
85	5	1331	U	C2-N3-C4	-7.41	122.55	127.00
85	5	2229	A	N9-C4-C5	7.41	108.76	105.80
1	2	390	G	C6-C5-N7	-7.41	125.95	130.40
1	2	776	A	C5-N7-C8	7.41	107.61	103.90
1	2	986	A	N9-C4-C5	7.41	108.76	105.80
36	1	353	G	C4-C5-N7	-7.41	107.84	110.80
36	1	1299	U	C2-N3-C4	7.41	131.44	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1370	G	C6-N1-C2	-7.41	120.66	125.10
36	1	1400	G	C8-N9-C1'	-7.41	117.37	127.00
36	1	2799	A	C4-C5-C6	7.41	120.70	117.00
36	1	3362	A	C8-N9-C4	-7.41	102.84	105.80
80	6	1100	G	C4-C5-C6	7.41	123.25	118.80
85	5	820	A	C6-N1-C2	-7.41	114.16	118.60
85	5	1940	G	C5-N7-C8	-7.41	100.60	104.30
85	5	2389	C	N1-C2-N3	7.41	124.39	119.20
85	5	3035	A	OP2-P-O3'	7.41	121.50	105.20
85	5	3179	U	N1-C2-N3	7.41	119.34	114.90
36	1	657	A	C4-C5-C6	-7.41	113.30	117.00
36	1	1897	G	C4-C5-N7	7.41	113.76	110.80
80	6	1161	C	N1-C2-N3	7.41	124.39	119.20
80	6	1461	C	N3-C2-O2	-7.41	116.72	121.90
85	5	957	C	OP1-P-O3'	7.41	121.50	105.20
85	5	1827	C	N1-C2-N3	-7.41	114.02	119.20
36	1	134	U	N3-C2-O2	7.41	127.38	122.20
36	1	1860	G	N1-C2-N3	7.41	128.34	123.90
36	1	1921	A	N1-C2-N3	-7.41	125.60	129.30
38	4	142	C	C5-C6-N1	7.41	124.70	121.00
80	6	87	C	C6-N1-C2	-7.41	117.34	120.30
80	6	991	G	N1-C6-O6	-7.41	115.46	119.90
80	6	1108	G	C6-C5-N7	-7.41	125.96	130.40
80	6	1294	G	N3-C4-N9	-7.41	121.56	126.00
85	5	818	C	C2-N3-C4	-7.41	116.20	119.90
85	5	2616	C	C5-C6-N1	7.41	124.70	121.00
85	5	2922	G	O5'-P-OP1	-7.41	99.03	105.70
85	5	3372	A	N3-C4-C5	-7.41	121.62	126.80
1	2	751	C	C5-C6-N1	7.40	124.70	121.00
36	1	2886	U	C5-C6-N1	7.40	126.40	122.70
38	4	13	A	N9-C4-C5	7.40	108.76	105.80
85	5	672	A	N7-C8-N9	7.40	117.50	113.80
85	5	856	G	N3-C4-C5	-7.40	124.90	128.60
85	5	2378	C	C2-N3-C4	-7.40	116.20	119.90
85	5	2766	U	C5-C6-N1	-7.40	119.00	122.70
36	1	249	U	N1-C2-O2	7.40	127.98	122.80
36	1	267	G	N3-C2-N2	-7.40	114.72	119.90
36	1	882	A	C4-C5-C6	7.40	120.70	117.00
36	1	2570	U	N3-C2-O2	-7.40	117.02	122.20
37	3	13	A	C5-N7-C8	-7.40	100.20	103.90
80	6	1240	U	C5-C6-N1	7.40	126.40	122.70
85	5	36	C	N3-C4-C5	7.40	124.86	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1185	C	N1-C2-O2	7.40	123.34	118.90
85	5	1295	G	O5'-P-OP2	7.40	119.58	110.70
85	5	2323	G	OP1-P-OP2	-7.40	108.50	119.60
85	5	3250	U	O5'-P-OP2	-7.40	99.04	105.70
38	8	42	G	O5'-P-OP2	-7.40	99.04	105.70
36	1	425	G	N3-C2-N2	7.40	125.08	119.90
36	1	1118	C	C5-C4-N4	7.40	125.38	120.20
36	1	2329	C	N3-C4-C5	7.40	124.86	121.90
36	1	3142	A	N9-C4-C5	7.40	108.76	105.80
36	1	3260	G	O5'-P-OP2	-7.40	99.04	105.70
80	6	926	A	C4-C5-N7	7.40	114.40	110.70
80	6	1025	A	N1-C2-N3	7.40	133.00	129.30
85	5	146	U	N3-C4-C5	7.40	119.04	114.60
85	5	620	U	N3-C4-O4	7.40	124.58	119.40
85	5	959	C	O5'-P-OP2	-7.40	99.04	105.70
85	5	961	C	N3-C2-O2	-7.40	116.72	121.90
85	5	1171	G	N1-C2-N3	7.40	128.34	123.90
85	5	2409	G	N9-C4-C5	7.40	108.36	105.40
85	5	2891	U	N3-C4-O4	-7.40	114.22	119.40
37	7	87	G	C5-C6-N1	-7.40	107.80	111.50
36	1	380	U	N3-C4-O4	7.40	124.58	119.40
36	1	437	G	C6-C5-N7	7.40	134.84	130.40
36	1	1640	G	C5-C6-N1	7.40	115.20	111.50
36	1	2685	C	C2-N1-C1'	7.40	126.94	118.80
85	5	1396	C	C5-C4-N4	-7.40	115.02	120.20
1	2	560	U	C6-N1-C2	-7.40	116.56	121.00
36	1	1065	A	C2-N3-C4	-7.40	106.90	110.60
36	1	2728	G	C6-N1-C2	-7.40	120.66	125.10
80	6	738	G	N1-C6-O6	-7.40	115.46	119.90
80	6	871	G	C6-N1-C2	7.40	129.54	125.10
85	5	584	G	N9-C4-C5	7.40	108.36	105.40
85	5	1460	A	C8-N9-C4	7.40	108.76	105.80
85	5	2814	G	N1-C2-N3	7.40	128.34	123.90
85	5	3151	U	C6-N1-C2	7.40	125.44	121.00
85	5	3370	A	C6-N1-C2	-7.40	114.16	118.60
1	2	278	U	N3-C2-O2	7.40	127.38	122.20
1	2	1432	U	C5-C6-N1	7.40	126.40	122.70
1	2	1479	U	O5'-P-OP2	-7.40	99.04	105.70
36	1	1113	G	O5'-P-OP2	-7.40	99.04	105.70
85	5	87	U	OP1-P-OP2	7.40	130.69	119.60
1	2	858	G	C4-C5-N7	-7.39	107.84	110.80
1	2	1351	G	C4-C5-N7	7.39	113.76	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	114	A	O5'-P-OP2	-7.39	99.05	105.70
36	1	611	A	OP1-P-OP2	-7.39	108.51	119.60
36	1	2337	C	C4-C5-C6	-7.39	113.70	117.40
36	1	2354	C	N1-C2-O2	-7.39	114.46	118.90
36	1	2661	G	N1-C2-N3	7.39	128.34	123.90
79	Q3	49	ARG	NE-CZ-NH1	-7.39	116.60	120.30
80	6	127	G	C6-C5-N7	-7.39	125.96	130.40
80	6	902	G	N3-C4-C5	-7.39	124.90	128.60
80	6	1144	U	N3-C4-C5	-7.39	110.16	114.60
80	6	1322	A	C6-N1-C2	-7.39	114.16	118.60
85	5	517	G	C6-N1-C2	-7.39	120.66	125.10
85	5	2939	G	N1-C2-N2	-7.39	109.55	116.20
85	5	3335	A	C6-C5-N7	-7.39	127.12	132.30
85	5	3392	U	C5-C4-O4	7.39	130.34	125.90
36	1	2941	A	C4-C5-N7	7.39	114.40	110.70
80	6	583	C	C6-N1-C2	-7.39	117.34	120.30
80	6	919	A	N1-C2-N3	7.39	133.00	129.30
85	5	2144	A	N1-C6-N6	-7.39	114.17	118.60
85	5	2288	G	C4-C5-C6	7.39	123.24	118.80
85	5	3135	U	OP1-P-O3'	7.39	121.46	105.20
85	5	3139	A	C2-N3-C4	-7.39	106.90	110.60
36	1	350	C	N3-C4-C5	7.39	124.86	121.90
36	1	1053	A	O5'-P-OP1	7.39	119.57	110.70
36	1	2191	U	C5-C6-N1	7.39	126.40	122.70
36	1	3083	G	C5-C6-O6	-7.39	124.17	128.60
80	6	96	G	OP1-P-OP2	-7.39	108.51	119.60
85	5	560	G	C5-C6-O6	-7.39	124.17	128.60
1	2	407	A	N9-C4-C5	7.39	108.76	105.80
1	2	908	G	C4-C5-N7	7.39	113.76	110.80
36	1	229	G	O5'-P-OP2	7.39	119.57	110.70
36	1	2981	U	N1-C2-N3	7.39	119.33	114.90
36	1	3075	G	C5-C6-N1	-7.39	107.81	111.50
38	4	15	G	N1-C2-N2	-7.39	109.55	116.20
80	6	678	A	P-O3'-C3'	7.39	128.57	119.70
80	6	913	G	C5-C6-N1	-7.39	107.81	111.50
85	5	554	A	C5-C6-N1	-7.39	114.01	117.70
85	5	1351	U	N3-C4-O4	-7.39	114.23	119.40
85	5	1364	C	OP2-P-O3'	7.39	121.46	105.20
85	5	1402	C	C4-C5-C6	7.39	121.09	117.40
85	5	1712	G	C4-C5-N7	7.39	113.75	110.80
85	5	2881	C	C5-C6-N1	-7.39	117.31	121.00
37	7	101	G	N1-C6-O6	7.39	124.33	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	4	C	OP1-P-O3'	7.39	121.46	105.20
36	1	1784	G	N3-C4-N9	-7.39	121.57	126.00
36	1	1896	A	C6-N1-C2	-7.39	114.17	118.60
36	1	2608	G	N3-C4-N9	-7.39	121.57	126.00
53	M7	23	ARG	NE-CZ-NH1	7.39	123.99	120.30
80	6	1030	A	C5-C6-N6	7.39	129.61	123.70
85	5	2249	G	C6-N1-C2	-7.39	120.67	125.10
85	5	2313	A	N1-C2-N3	7.39	132.99	129.30
37	7	60	G	C6-N1-C2	-7.39	120.67	125.10
1	2	281	G	N1-C6-O6	-7.39	115.47	119.90
36	1	194	U	C6-N1-C2	-7.39	116.57	121.00
36	1	359	U	C6-N1-C2	-7.39	116.57	121.00
36	1	615	U	N1-C2-N3	7.39	119.33	114.90
36	1	1067	U	C4-C5-C6	7.39	124.13	119.70
36	1	2431	C	N3-C2-O2	-7.39	116.73	121.90
85	5	586	C	N3-C4-C5	7.39	124.85	121.90
85	5	760	G	C5-C6-N1	-7.39	107.81	111.50
85	5	1873	U	C2-N1-C1'	7.39	126.56	117.70
85	5	2701	U	N3-C4-O4	7.39	124.57	119.40
85	5	2905	U	OP1-P-O3'	7.39	121.45	105.20
85	5	2959	C	N1-C2-N3	7.39	124.37	119.20
36	1	72	C	C6-N1-C2	7.38	123.25	120.30
36	1	1102	A	OP1-P-O3'	7.38	121.45	105.20
36	1	1323	G	C5-C6-N1	7.38	115.19	111.50
36	1	1734	G	N3-C4-C5	7.38	132.29	128.60
36	1	2249	G	C5-C6-N1	7.38	115.19	111.50
36	1	2287	C	C2-N3-C4	7.38	123.59	119.90
80	6	113	U	N1-C2-N3	-7.38	110.47	114.90
80	6	954	G	O5'-P-OP1	-7.38	99.05	105.70
85	5	985	U	C5-C4-O4	7.38	130.33	125.90
85	5	2778	G	N3-C4-N9	7.38	130.43	126.00
85	5	3131	U	C5-C6-N1	-7.38	119.01	122.70
38	8	32	C	O5'-P-OP1	-7.38	99.05	105.70
52	m6	16	VAL	CG1-CB-CG2	-7.38	99.08	110.90
36	1	120	G	N3-C2-N2	7.38	125.07	119.90
36	1	1807	G	C8-N9-C4	-7.38	103.45	106.40
80	6	1402	G	N3-C2-N2	7.38	125.07	119.90
85	5	513	G	C6-N1-C2	-7.38	120.67	125.10
85	5	782	U	C6-N1-C2	-7.38	116.57	121.00
85	5	2783	U	C5-C6-N1	-7.38	119.01	122.70
36	1	249	U	N1-C2-N3	7.38	119.33	114.90
36	1	574	U	N3-C2-O2	-7.38	117.03	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1118	C	OP2-P-O3'	7.38	121.44	105.20
36	1	2734	A	C5-C6-N1	7.38	121.39	117.70
80	6	470	A	C4-C5-C6	7.38	120.69	117.00
80	6	572	C	C2-N3-C4	-7.38	116.21	119.90
85	5	104	G	OP1-P-O3'	-7.38	88.96	105.20
85	5	321	C	O5'-P-OP1	-7.38	99.06	105.70
85	5	2372	A	C6-N1-C2	-7.38	114.17	118.60
85	5	2803	A	O5'-P-OP1	7.38	119.56	110.70
85	5	3312	U	O5'-P-OP2	-7.38	99.06	105.70
37	7	49	G	C5-C6-N1	-7.38	107.81	111.50
1	2	1279	A	C8-N9-C4	-7.38	102.85	105.80
36	1	1586	G	N1-C6-O6	7.38	124.33	119.90
80	6	87	C	N3-C2-O2	-7.38	116.73	121.90
85	5	823	C	N3-C2-O2	7.38	127.07	121.90
85	5	1709	C	O5'-P-OP2	-7.38	99.06	105.70
85	5	2271	A	C8-N9-C4	7.38	108.75	105.80
85	5	2762	A	O5'-P-OP1	-7.38	99.06	105.70
37	7	42	A	O5'-P-OP2	7.38	119.56	110.70
1	2	467	G	N1-C6-O6	-7.38	115.47	119.90
1	2	1016	C	O5'-P-OP2	-7.38	99.06	105.70
36	1	362	U	OP1-P-O3'	7.38	121.43	105.20
36	1	1693	C	N3-C4-N4	7.38	123.17	118.00
36	1	2748	A	C5-C6-N1	-7.38	114.01	117.70
36	1	3375	A	C5-C6-N6	7.38	129.60	123.70
80	6	121	U	C5-C4-O4	7.38	130.33	125.90
80	6	475	A	C2-N3-C4	7.38	114.29	110.60
80	6	557	G	N1-C6-O6	-7.38	115.47	119.90
85	5	168	U	C5-C6-N1	-7.38	119.01	122.70
85	5	425	G	O5'-P-OP1	7.38	119.56	110.70
85	5	1153	A	N1-C2-N3	7.38	132.99	129.30
85	5	2964	G	N3-C4-C5	-7.38	124.91	128.60
85	5	3304	U	C2-N1-C1'	7.38	126.55	117.70
38	8	79	A	C4-C5-C6	7.38	120.69	117.00
1	2	185	U	N3-C2-O2	-7.38	117.04	122.20
1	2	567	A	O5'-P-OP2	-7.38	99.06	105.70
1	2	1064	A	N1-C6-N6	-7.38	114.17	118.60
36	1	162	G	O5'-P-OP1	7.38	119.55	110.70
36	1	255	A	N1-C6-N6	-7.38	114.17	118.60
36	1	281	G	C6-N1-C2	-7.38	120.67	125.10
36	1	364	G	OP1-P-OP2	-7.38	108.54	119.60
36	1	848	A	C5-N7-C8	7.38	107.59	103.90
36	1	861	C	N1-C2-O2	-7.38	114.47	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2733	A	C5-N7-C8	7.38	107.59	103.90
73	O7	73	ARG	NE-CZ-NH2	7.38	123.99	120.30
85	5	968	G	O5'-P-OP1	-7.38	99.06	105.70
85	5	1113	G	N1-C6-O6	7.38	124.33	119.90
85	5	2576	G	N3-C2-N2	-7.38	114.74	119.90
37	7	25	G	N3-C4-C5	-7.38	124.91	128.60
36	1	274	G	N3-C2-N2	-7.38	114.74	119.90
36	1	702	C	OP1-P-OP2	-7.38	108.54	119.60
38	4	48	A	OP1-P-O3'	7.38	121.42	105.20
80	6	441	A	C4-C5-C6	7.38	120.69	117.00
80	6	1782	A	N9-C4-C5	7.38	108.75	105.80
85	5	702	C	OP1-P-OP2	-7.38	108.54	119.60
85	5	1041	U	C2-N3-C4	-7.38	122.58	127.00
85	5	1060	U	C2-N3-C4	-7.38	122.58	127.00
85	5	1876	U	C2-N3-C4	-7.38	122.58	127.00
85	5	2704	A	OP1-P-OP2	7.38	130.66	119.60
85	5	3043	C	O5'-P-OP2	7.38	119.55	110.70
85	5	3258	U	C5-C6-N1	-7.38	119.01	122.70
36	1	158	G	C4-C5-C6	7.37	123.22	118.80
36	1	616	G	N1-C6-O6	7.37	124.32	119.90
36	1	1380	G	N1-C6-O6	7.37	124.32	119.90
36	1	2102	U	N3-C2-O2	7.37	127.36	122.20
36	1	2208	A	O5'-P-OP2	-7.37	99.06	105.70
36	1	2969	A	C5-C6-N1	-7.37	114.01	117.70
36	1	3086	A	N1-C2-N3	7.37	132.99	129.30
80	6	1322	A	N1-C6-N6	-7.37	114.17	118.60
85	5	511	G	C4-C5-N7	-7.37	107.85	110.80
85	5	747	A	C2-N3-C4	-7.37	106.91	110.60
85	5	799	G	N1-C2-N2	7.37	122.83	116.20
85	5	1372	C	O5'-P-OP2	-7.37	99.06	105.70
85	5	1599	G	N9-C4-C5	-7.37	102.45	105.40
85	5	2505	U	C6-N1-C2	-7.37	116.58	121.00
85	5	3258	U	C6-N1-C2	7.37	125.42	121.00
37	7	81	U	C5-C6-N1	-7.37	119.01	122.70
38	8	95	G	N3-C4-N9	7.37	130.42	126.00
1	2	119	A	C8-N9-C4	7.37	108.75	105.80
1	2	299	A	C5-C6-N1	7.37	121.39	117.70
36	1	558	U	N1-C2-O2	7.37	127.96	122.80
36	1	2851	A	C5-C6-N1	-7.37	114.01	117.70
36	1	3052	G	C4-C5-C6	7.37	123.22	118.80
36	1	3295	A	O5'-P-OP1	-7.37	99.07	105.70
80	6	163	G	C5-C6-O6	7.37	133.02	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	107	A	C5-C6-N1	7.37	121.39	117.70
85	5	693	A	O4'-C1'-N9	7.37	114.10	108.20
85	5	927	C	N1-C2-O2	-7.37	114.48	118.90
85	5	1113	G	N3-C4-N9	-7.37	121.58	126.00
85	5	1538	G	N9-C4-C5	7.37	108.35	105.40
85	5	1656	A	C5-C6-N1	7.37	121.39	117.70
85	5	2962	U	O5'-P-OP2	-7.37	99.07	105.70
38	8	3	A	N1-C6-N6	7.37	123.02	118.60
36	1	538	G	O5'-P-OP2	-7.37	99.07	105.70
36	1	2721	A	C5-C6-N1	-7.37	114.02	117.70
85	5	1505	C	C5-C4-N4	7.37	125.36	120.20
85	5	3000	A	C5-N7-C8	-7.37	100.22	103.90
1	2	407	A	C5-N7-C8	7.37	107.58	103.90
36	1	332	C	OP2-P-O3'	7.37	121.41	105.20
36	1	914	A	N7-C8-N9	-7.37	110.12	113.80
36	1	1006	A	N9-C4-C5	7.37	108.75	105.80
36	1	3064	U	N3-C4-O4	7.37	124.56	119.40
68	O2	111	ARG	NE-CZ-NH1	-7.37	116.62	120.30
85	5	217	U	N3-C4-O4	7.37	124.56	119.40
85	5	402	A	N3-C4-N9	7.37	133.29	127.40
85	5	631	U	C6-N1-C2	-7.37	116.58	121.00
85	5	947	G	C5-N7-C8	-7.37	100.62	104.30
85	5	2095	G	N9-C4-C5	-7.37	102.45	105.40
85	5	2541	U	N1-C2-O2	7.37	127.96	122.80
85	5	2801	A	N3-C4-N9	7.37	133.29	127.40
36	1	338	A	C6-N1-C2	-7.37	114.18	118.60
36	1	1111	U	N3-C2-O2	7.37	127.36	122.20
36	1	2526	C	C5-C6-N1	7.37	124.68	121.00
36	1	2605	G	OP1-P-O3'	7.37	121.41	105.20
80	6	534	A	C4-C5-N7	-7.37	107.02	110.70
85	5	1050	U	OP1-P-OP2	-7.37	108.55	119.60
37	7	12	U	N3-C2-O2	7.37	127.36	122.20
1	2	149	C	N1-C2-O2	7.37	123.32	118.90
1	2	228	G	C8-N9-C4	7.37	109.35	106.40
1	2	341	A	N7-C8-N9	7.37	117.48	113.80
1	2	368	U	N1-C2-O2	7.37	127.96	122.80
1	2	1005	C	N1-C2-N3	7.37	124.36	119.20
36	1	395	A	C5-N7-C8	-7.37	100.22	103.90
36	1	717	C	N1-C2-N3	7.37	124.36	119.20
36	1	1179	A	OP2-P-O3'	7.37	121.40	105.20
36	1	1447	G	O5'-P-OP1	-7.37	99.07	105.70
36	1	1758	G	C4-C5-N7	-7.37	107.85	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2760	C	C5-C4-N4	-7.37	115.05	120.20
36	1	2961	G	C5-C6-N1	-7.37	107.82	111.50
36	1	3273	A	N1-C2-N3	7.37	132.98	129.30
37	3	73	C	N1-C2-N3	-7.37	114.05	119.20
85	5	377	A	O4'-C1'-N9	7.37	114.09	108.20
85	5	916	G	C8-N9-C4	-7.37	103.45	106.40
85	5	950	G	N3-C4-N9	7.37	130.42	126.00
85	5	1222	G	N1-C6-O6	7.37	124.32	119.90
85	5	2579	G	N7-C8-N9	7.37	116.78	113.10
1	2	847	U	C5-C4-O4	7.36	130.32	125.90
36	1	898	U	C4-C5-C6	-7.36	115.28	119.70
36	1	1157	G	OP2-P-O3'	7.36	121.40	105.20
36	1	1779	C	C2-N3-C4	7.36	123.58	119.90
36	1	1883	A	C6-N1-C2	-7.36	114.18	118.60
36	1	2634	U	OP1-P-OP2	-7.36	108.56	119.60
36	1	3033	A	OP1-P-OP2	-7.36	108.56	119.60
80	6	359	A	C5-C6-N1	-7.36	114.02	117.70
80	6	586	G	C4-C5-N7	-7.36	107.86	110.80
80	6	1133	A	C4-C5-N7	7.36	114.38	110.70
85	5	235	A	N1-C2-N3	7.36	132.98	129.30
85	5	304	G	N1-C2-N3	7.36	128.32	123.90
85	5	653	A	C6-N1-C2	-7.36	114.18	118.60
85	5	1065	A	O5'-P-OP2	7.36	119.54	110.70
85	5	1120	A	O5'-P-OP1	7.36	119.54	110.70
85	5	1604	G	C6-N1-C2	-7.36	120.68	125.10
85	5	2405	C	O5'-P-OP1	7.36	119.54	110.70
85	5	2519	A	N7-C8-N9	7.36	117.48	113.80
85	5	2693	C	OP1-P-OP2	7.36	130.65	119.60
85	5	2799	A	N3-C4-C5	-7.36	121.65	126.80
85	5	3101	G	C6-C5-N7	7.36	134.82	130.40
36	1	3256	G	C6-N1-C2	7.36	129.52	125.10
78	Q2	17	CYS	CA-CB-SG	7.36	127.25	114.00
80	6	413	U	C5-C6-N1	-7.36	119.02	122.70
85	5	1390	A	C8-N9-C4	-7.36	102.86	105.80
1	2	931	G	OP1-P-OP2	-7.36	108.56	119.60
1	2	1400	A	C4-C5-C6	7.36	120.68	117.00
36	1	578	A	N7-C8-N9	-7.36	110.12	113.80
36	1	2411	U	N1-C2-O2	-7.36	117.65	122.80
36	1	2864	A	N9-C4-C5	7.36	108.74	105.80
38	4	22	U	C5-C6-N1	-7.36	119.02	122.70
80	6	1788	G	C5-C6-N1	-7.36	107.82	111.50
85	5	602	A	C5-C6-N1	-7.36	114.02	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1208	U	N3-C4-O4	-7.36	114.25	119.40
85	5	2958	A	N1-C2-N3	7.36	132.98	129.30
85	5	3211	C	N1-C2-O2	-7.36	114.48	118.90
36	1	1402	C	N1-C2-O2	-7.36	114.48	118.90
36	1	1405	U	OP1-P-O3'	7.36	121.39	105.20
36	1	3028	G	N3-C2-N2	7.36	125.05	119.90
80	6	1063	U	N3-C4-O4	7.36	124.55	119.40
85	5	600	G	O5'-P-OP2	-7.36	99.08	105.70
85	5	1219	C	C6-N1-C2	7.36	123.24	120.30
85	5	3292	A	C8-N9-C4	7.36	108.74	105.80
85	5	3310	A	C6-N1-C2	-7.36	114.18	118.60
1	2	500	C	C6-N1-C2	-7.36	117.36	120.30
1	2	536	C	C2-N3-C4	7.36	123.58	119.90
1	2	553	G	C4-C5-N7	7.36	113.74	110.80
36	1	946	U	N3-C2-O2	-7.36	117.05	122.20
36	1	1392	G	N3-C4-N9	7.36	130.41	126.00
36	1	1508	C	C4-C5-C6	7.36	121.08	117.40
36	1	1513	G	N1-C6-O6	-7.36	115.49	119.90
36	1	2150	G	C6-C5-N7	-7.36	125.98	130.40
36	1	2273	G	N7-C8-N9	-7.36	109.42	113.10
80	6	146	U	C5-C6-N1	7.36	126.38	122.70
80	6	757	A	C5-C6-N6	7.36	129.59	123.70
80	6	977	A	N1-C6-N6	7.36	123.02	118.60
85	5	852	U	N1-C2-N3	7.36	119.31	114.90
85	5	1198	C	N3-C4-N4	-7.36	112.85	118.00
85	5	1703	U	C6-N1-C2	-7.36	116.58	121.00
85	5	2305	G	N3-C4-C5	-7.36	124.92	128.60
85	5	2882	U	N1-C2-O2	-7.36	117.65	122.80
85	5	2945	G	C5-C6-N1	-7.36	107.82	111.50
85	5	3348	G	N9-C4-C5	-7.36	102.46	105.40
37	7	17	A	N9-C4-C5	-7.36	102.86	105.80
1	2	427	C	C2-N3-C4	-7.36	116.22	119.90
1	2	884	G	C8-N9-C4	-7.36	103.46	106.40
1	2	1469	G	OP1-P-OP2	7.36	130.63	119.60
36	1	390	G	C5-N7-C8	-7.36	100.62	104.30
36	1	785	G	C4-C5-C6	-7.36	114.39	118.80
36	1	1508	C	N1-C2-N3	7.36	124.35	119.20
36	1	2877	G	N1-C2-N2	-7.36	109.58	116.20
36	1	3303	G	O5'-P-OP1	7.36	119.53	110.70
85	5	680	G	N1-C2-N2	-7.36	109.58	116.20
85	5	1173	U	N3-C2-O2	-7.36	117.05	122.20
85	5	1534	A	N3-C4-C5	-7.36	121.65	126.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2622	C	N3-C4-C5	-7.36	118.96	121.90
85	5	2808	A	O5'-P-OP2	-7.36	99.08	105.70
1	2	617	U	C5-C4-O4	-7.35	121.49	125.90
1	2	1507	A	N7-C8-N9	7.35	117.48	113.80
36	1	2938	G	N1-C2-N3	7.35	128.31	123.90
85	5	1323	G	OP2-P-O3'	7.35	121.38	105.20
85	5	2124	G	C6-C5-N7	-7.35	125.99	130.40
1	2	25	C	C5-C4-N4	-7.35	115.05	120.20
1	2	90	C	N3-C2-O2	-7.35	116.75	121.90
36	1	813	G	OP1-P-OP2	-7.35	108.57	119.60
36	1	1648	A	C5-C6-N6	7.35	129.58	123.70
36	1	2191	U	C6-N1-C2	-7.35	116.59	121.00
80	6	778	G	C6-C5-N7	7.35	134.81	130.40
80	6	978	A	C6-N1-C2	-7.35	114.19	118.60
80	6	1099	U	O5'-P-OP1	-7.35	99.08	105.70
80	6	1100	G	OP1-P-OP2	-7.35	108.57	119.60
80	6	1137	A	N3-C4-N9	-7.35	121.52	127.40
85	5	756	U	N3-C2-O2	7.35	127.35	122.20
85	5	806	A	C5-C6-N6	-7.35	117.82	123.70
85	5	892	U	O5'-P-OP1	7.35	119.52	110.70
85	5	1112	A	C2-N3-C4	7.35	114.28	110.60
85	5	1211	U	N3-C2-O2	7.35	127.35	122.20
85	5	1841	A	C8-N9-C4	-7.35	102.86	105.80
85	5	2117	A	C4-C5-N7	-7.35	107.02	110.70
85	5	2989	U	C4-C5-C6	-7.35	115.29	119.70
85	5	3044	G	C5-N7-C8	-7.35	100.62	104.30
1	2	624	G	N1-C6-O6	-7.35	115.49	119.90
36	1	143	G	C5-C6-N1	7.35	115.17	111.50
36	1	1375	G	N3-C4-N9	-7.35	121.59	126.00
36	1	3150	A	C8-N9-C4	-7.35	102.86	105.80
36	1	3310	A	C5-C6-N1	-7.35	114.03	117.70
38	4	59	A	C8-N9-C4	-7.35	102.86	105.80
85	5	596	C	N3-C4-N4	7.35	123.15	118.00
85	5	629	U	C5-C6-N1	7.35	126.38	122.70
85	5	1382	G	O5'-P-OP2	-7.35	99.08	105.70
85	5	1497	C	N3-C2-O2	7.35	127.05	121.90
85	5	2514	U	N1-C2-O2	-7.35	117.65	122.80
1	2	435	C	C5-C4-N4	7.35	125.34	120.20
1	2	1372	C	N3-C2-O2	-7.35	116.75	121.90
36	1	42	C	N3-C2-O2	-7.35	116.76	121.90
36	1	325	A	C5-C6-N1	7.35	121.38	117.70
36	1	608	A	C5-N7-C8	-7.35	100.22	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1028	U	C2-N3-C4	7.35	131.41	127.00
36	1	3340	G	N9-C4-C5	7.35	108.34	105.40
80	6	1050	G	C5-C6-O6	-7.35	124.19	128.60
80	6	1395	G	C2-N3-C4	-7.35	108.22	111.90
80	6	1461	C	N1-C2-O2	7.35	123.31	118.90
85	5	203	G	C5-C6-O6	-7.35	124.19	128.60
85	5	1180	A	N1-C2-N3	7.35	132.97	129.30
1	2	1126	A	OP1-P-OP2	-7.35	108.58	119.60
1	2	1497	U	N1-C2-O2	7.35	127.94	122.80
36	1	1529	A	C4-C5-N7	7.35	114.37	110.70
36	1	2864	A	C6-N1-C2	-7.35	114.19	118.60
36	1	2939	G	C5-N7-C8	7.35	107.97	104.30
80	6	1772	C	N3-C4-C5	-7.35	118.96	121.90
85	5	3251	U	C5-C6-N1	-7.35	119.03	122.70
85	5	3331	U	C4-C5-C6	-7.35	115.29	119.70
1	2	191	C	N1-C2-O2	7.35	123.31	118.90
36	1	277	G	N1-C2-N2	7.35	122.81	116.20
36	1	335	G	N1-C2-N2	7.35	122.81	116.20
36	1	1864	A	C5-N7-C8	-7.35	100.23	103.90
85	5	1039	U	N1-C2-N3	-7.35	110.49	114.90
85	5	1263	A	C5-C6-N1	-7.35	114.03	117.70
85	5	1410	U	C5-C6-N1	-7.35	119.03	122.70
85	5	1635	G	OP1-P-OP2	7.35	130.62	119.60
36	1	681	U	N3-C4-O4	7.34	124.54	119.40
36	1	777	U	OP1-P-O3'	7.34	121.36	105.20
36	1	1201	C	N1-C2-N3	-7.34	114.06	119.20
36	1	1583	A	N1-C2-N3	7.34	132.97	129.30
36	1	2156	C	C4-C5-C6	7.34	121.07	117.40
80	6	1012	U	C2-N3-C4	-7.34	122.59	127.00
85	5	1160	C	N1-C2-O2	-7.34	114.49	118.90
85	5	1176	C	N3-C2-O2	7.34	127.04	121.90
85	5	1285	G	C6-N1-C2	-7.34	120.69	125.10
85	5	1329	U	N1-C2-N3	7.34	119.31	114.90
85	5	1403	C	N1-C2-N3	7.34	124.34	119.20
85	5	1690	C	N3-C4-C5	-7.34	118.96	121.90
85	5	2305	G	N1-C2-N2	-7.34	109.59	116.20
85	5	3213	A	C5-C6-N1	7.34	121.37	117.70
1	2	607	G	N7-C8-N9	7.34	116.77	113.10
1	2	1003	A	N1-C2-N3	7.34	132.97	129.30
1	2	1761	G	N7-C8-N9	7.34	116.77	113.10
36	1	693	A	C2-N3-C4	-7.34	106.93	110.60
36	1	917	A	C6-N1-C2	-7.34	114.19	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1082	U	N3-C2-O2	-7.34	117.06	122.20
36	1	1697	A	O5'-P-OP2	7.34	119.51	110.70
85	5	1290	A	C5-C6-N1	-7.34	114.03	117.70
85	5	3130	A	C5-C6-N1	7.34	121.37	117.70
1	2	404	G	O5'-P-OP1	-7.34	99.09	105.70
1	2	1508	A	C8-N9-C4	-7.34	102.86	105.80
36	1	559	A	C6-C5-N7	-7.34	127.16	132.30
36	1	2134	G	C6-C5-N7	7.34	134.81	130.40
36	1	2161	G	N1-C2-N3	-7.34	119.50	123.90
36	1	2725	U	OP1-P-OP2	-7.34	108.59	119.60
36	1	2934	A	C6-N1-C2	-7.34	114.19	118.60
36	1	2945	G	N9-C4-C5	-7.34	102.46	105.40
37	3	8	G	N3-C4-C5	7.34	132.27	128.60
80	6	985	G	N3-C4-C5	7.34	132.27	128.60
85	5	377	A	C4-C5-N7	7.34	114.37	110.70
85	5	964	G	N7-C8-N9	7.34	116.77	113.10
85	5	1506	A	C6-N1-C2	7.34	123.00	118.60
85	5	1601	U	C2-N3-C4	7.34	131.41	127.00
85	5	2282	U	O5'-P-OP2	7.34	119.51	110.70
85	5	2304	C	N3-C4-C5	-7.34	118.96	121.90
85	5	2718	U	C2-N3-C4	-7.34	122.59	127.00
85	5	2736	A	N1-C2-N3	7.34	132.97	129.30
85	5	3198	U	N3-C2-O2	7.34	127.34	122.20
37	7	109	G	N3-C4-N9	-7.34	121.59	126.00
1	2	477	A	OP1-P-OP2	-7.34	108.59	119.60
1	2	1351	G	N1-C6-O6	7.34	124.30	119.90
36	1	870	G	C6-N1-C2	-7.34	120.70	125.10
36	1	1379	G	O4'-C1'-N9	-7.34	102.33	108.20
36	1	2364	G	C6-C5-N7	7.34	134.80	130.40
36	1	2880	U	OP1-P-OP2	7.34	130.61	119.60
36	1	3159	C	C4-C5-C6	7.34	121.07	117.40
49	M3	39	ARG	NE-CZ-NH2	-7.34	116.63	120.30
80	6	327	U	C5-C4-O4	-7.34	121.50	125.90
80	6	849	C	C6-N1-C2	7.34	123.24	120.30
85	5	57	A	C5-C6-N1	-7.34	114.03	117.70
85	5	182	U	N1-C2-O2	-7.34	117.66	122.80
85	5	336	A	C8-N9-C4	7.34	108.74	105.80
85	5	979	U	N1-C2-O2	-7.34	117.66	122.80
85	5	1541	G	N3-C4-C5	7.34	132.27	128.60
85	5	2136	C	C5-C6-N1	-7.34	117.33	121.00
85	5	2376	G	C4-C5-C6	7.34	123.20	118.80
36	1	1052	U	C6-N1-C2	7.34	125.40	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	562	G	C5-C6-O6	-7.34	124.20	128.60
85	5	1924	U	N1-C2-N3	7.34	119.30	114.90
38	8	114	G	C4-C5-N7	7.34	113.73	110.80
1	2	226	A	N1-C2-N3	7.34	132.97	129.30
1	2	1549	U	N3-C4-O4	7.34	124.54	119.40
36	1	3101	G	C5-C6-O6	7.34	133.00	128.60
37	3	110	G	C8-N9-C4	7.34	109.33	106.40
80	6	469	C	N3-C4-C5	7.34	124.83	121.90
80	6	677	G	C5-C6-N1	-7.34	107.83	111.50
80	6	1216	C	N3-C2-O2	-7.34	116.76	121.90
85	5	3089	C	OP1-P-O3'	7.34	121.34	105.20
1	2	1634	A	C5-C6-N1	-7.33	114.03	117.70
36	1	275	U	C2-N3-C4	7.33	131.40	127.00
36	1	2360	C	N3-C4-C5	-7.33	118.97	121.90
36	1	2662	G	C2-N3-C4	-7.33	108.23	111.90
80	6	1105	C	OP1-P-OP2	-7.33	108.60	119.60
85	5	719	U	C5-C4-O4	7.33	130.30	125.90
85	5	1055	A	N1-C2-N3	7.33	132.97	129.30
85	5	1561	G	OP1-P-OP2	-7.33	108.60	119.60
85	5	2106	A	C5-N7-C8	-7.33	100.23	103.90
85	5	2778	G	C8-N9-C4	7.33	109.33	106.40
85	5	3217	C	C6-N1-C2	7.33	123.23	120.30
85	5	3388	C	C4-C5-C6	7.33	121.07	117.40
1	2	1079	C	C2-N3-C4	7.33	123.57	119.90
36	1	1334	U	C5-C6-N1	-7.33	119.03	122.70
36	1	1600	U	O5'-P-OP1	7.33	119.50	110.70
36	1	1908	A	C8-N9-C4	7.33	108.73	105.80
36	1	2575	G	N1-C6-O6	7.33	124.30	119.90
36	1	2853	A	C5-C6-N1	7.33	121.37	117.70
36	1	3135	U	N1-C2-O2	-7.33	117.67	122.80
36	1	3216	G	C6-N1-C2	-7.33	120.70	125.10
85	5	1192	C	C6-N1-C1'	-7.33	112.00	120.80
85	5	1581	C	N3-C2-O2	7.33	127.03	121.90
85	5	2363	A	C2-N3-C4	-7.33	106.93	110.60
85	5	2642	A	N1-C2-N3	7.33	132.97	129.30
85	5	2841	G	N3-C2-N2	7.33	125.03	119.90
85	5	3343	G	C4-C5-C6	7.33	123.20	118.80
36	1	636	C	C2-N1-C1'	7.33	126.86	118.80
36	1	1727	G	C5-N7-C8	-7.33	100.63	104.30
36	1	2333	C	N1-C2-N3	7.33	124.33	119.20
36	1	3273	A	N1-C6-N6	-7.33	114.20	118.60
38	4	30	C	O5'-P-OP1	-7.33	99.10	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1498	G	C4-N9-C1'	-7.33	116.97	126.50
80	6	1772	C	N1-C2-N3	7.33	124.33	119.20
85	5	616	G	C5-C6-N1	-7.33	107.83	111.50
85	5	718	G	N3-C4-C5	-7.33	124.94	128.60
85	5	1044	U	N3-C4-C5	-7.33	110.20	114.60
85	5	1377	G	N1-C2-N2	-7.33	109.60	116.20
85	5	1588	A	C5-N7-C8	7.33	107.57	103.90
85	5	1597	C	N3-C4-N4	7.33	123.13	118.00
85	5	1899	G	C8-N9-C4	-7.33	103.47	106.40
85	5	2233	A	N9-C4-C5	7.33	108.73	105.80
85	5	2600	C	C2-N3-C4	-7.33	116.23	119.90
37	7	110	G	N3-C4-C5	7.33	132.27	128.60
36	1	324	A	C5-C6-N6	7.33	129.56	123.70
36	1	1954	G	C8-N9-C4	7.33	109.33	106.40
36	1	2946	A	OP2-P-O3'	7.33	121.33	105.20
80	6	1291	G	N1-C6-O6	-7.33	115.50	119.90
80	6	1577	A	C5-C6-N1	-7.33	114.03	117.70
80	6	1649	G	C2-N3-C4	-7.33	108.23	111.90
37	7	10	C	N3-C2-O2	-7.33	116.77	121.90
1	2	952	C	C5-C4-N4	-7.33	115.07	120.20
1	2	1639	U	N3-C2-O2	7.33	127.33	122.20
36	1	79	U	C5-C4-O4	7.33	130.30	125.90
36	1	424	G	O5'-P-OP2	-7.33	99.11	105.70
36	1	864	G	C5-C6-N1	-7.33	107.84	111.50
36	1	1774	C	N3-C4-N4	-7.33	112.87	118.00
36	1	2584	G	N1-C2-N3	7.33	128.30	123.90
36	1	2651	G	C2-N3-C4	-7.33	108.24	111.90
36	1	2945	G	N3-C4-C5	7.33	132.26	128.60
36	1	3309	G	C5-C6-N1	-7.33	107.83	111.50
37	3	2	G	N9-C4-C5	7.33	108.33	105.40
80	6	590	C	N3-C4-N4	7.33	123.13	118.00
80	6	750	U	N1-C2-O2	-7.33	117.67	122.80
80	6	1726	G	N1-C2-N2	-7.33	109.60	116.20
85	5	515	C	O4'-C1'-N1	-7.33	102.34	108.20
85	5	911	C	C2-N3-C4	7.33	123.56	119.90
1	2	728	U	N3-C4-C5	-7.33	110.20	114.60
36	1	53	G	N7-C8-N9	-7.33	109.44	113.10
36	1	2519	A	C5-N7-C8	-7.33	100.24	103.90
85	5	1180	A	C5-N7-C8	7.33	107.56	103.90
85	5	3342	A	C6-N1-C2	-7.33	114.20	118.60
36	1	579	G	OP2-P-O3'	7.33	121.32	105.20
36	1	1377	G	C4-C5-N7	7.33	113.73	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2158	A	O5'-P-OP2	-7.33	99.11	105.70
36	1	2877	G	N9-C4-C5	7.33	108.33	105.40
80	6	412	A	OP1-P-OP2	7.33	130.59	119.60
80	6	860	U	N3-C2-O2	-7.33	117.07	122.20
80	6	1135	U	C5-C4-O4	-7.33	121.50	125.90
85	5	355	A	N9-C4-C5	7.33	108.73	105.80
36	1	64	G	N3-C4-C5	-7.32	124.94	128.60
36	1	893	C	N3-C4-N4	7.32	123.13	118.00
36	1	1373	A	O5'-P-OP2	-7.32	99.11	105.70
36	1	1395	G	C4-C5-N7	7.32	113.73	110.80
36	1	3207	U	N3-C4-C5	-7.32	110.21	114.60
85	5	729	C	OP1-P-OP2	-7.32	108.61	119.60
85	5	2340	U	O5'-P-OP2	7.32	119.49	110.70
85	5	2815	G	C8-N9-C4	-7.32	103.47	106.40
85	5	3105	U	N3-C4-O4	-7.32	114.27	119.40
85	5	3183	A	N9-C4-C5	7.32	108.73	105.80
1	2	975	A	C5-N7-C8	-7.32	100.24	103.90
36	1	363	G	N3-C4-C5	-7.32	124.94	128.60
36	1	390	G	N1-C6-O6	7.32	124.29	119.90
36	1	2359	C	N3-C4-N4	7.32	123.12	118.00
36	1	2412	G	C6-N1-C2	-7.32	120.71	125.10
85	5	164	A	C4-C5-N7	7.32	114.36	110.70
1	2	831	C	N1-C2-O2	7.32	123.29	118.90
36	1	854	G	C6-N1-C2	-7.32	120.71	125.10
36	1	882	A	N1-C6-N6	7.32	122.99	118.60
36	1	1415	U	N1-C2-N3	7.32	119.29	114.90
36	1	2438	A	OP1-P-OP2	-7.32	108.62	119.60
36	1	2974	U	C5-C6-N1	7.32	126.36	122.70
36	1	3338	C	N1-C2-O2	7.32	123.29	118.90
36	1	3387	U	C5-C6-N1	-7.32	119.04	122.70
80	6	863	A	C4-C5-N7	7.32	114.36	110.70
80	6	1649	G	O5'-P-OP2	-7.32	99.11	105.70
85	5	2106	A	C4-C5-N7	7.32	114.36	110.70
85	5	2269	U	N3-C4-C5	-7.32	110.21	114.60
85	5	2600	C	N1-C2-N3	7.32	124.32	119.20
85	5	3073	A	OP1-P-OP2	-7.32	108.62	119.60
38	8	28	C	N3-C2-O2	7.32	127.02	121.90
50	m4	68	LEU	CB-CG-CD2	-7.32	98.55	111.00
1	2	1485	G	N1-C6-O6	-7.32	115.51	119.90
36	1	679	U	C5-C6-N1	-7.32	119.04	122.70
36	1	885	U	N1-C2-N3	7.32	119.29	114.90
36	1	2734	A	C5-N7-C8	-7.32	100.24	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2778	G	N3-C4-C5	7.32	132.26	128.60
1	2	271	A	C5-C6-N1	-7.32	114.04	117.70
1	2	316	A	C2-N3-C4	7.32	114.26	110.60
36	1	38	U	C2-N3-C4	7.32	131.39	127.00
36	1	875	G	N1-C2-N3	7.32	128.29	123.90
36	1	1905	G	N9-C4-C5	7.32	108.33	105.40
36	1	3092	C	C6-N1-C2	-7.32	117.37	120.30
85	5	1008	U	C5-C6-N1	-7.32	119.04	122.70
85	5	1661	G	C8-N9-C1'	7.32	136.51	127.00
85	5	2142	A	C4-C5-N7	-7.32	107.04	110.70
85	5	2428	U	N3-C4-C5	-7.32	110.21	114.60
85	5	2756	C	N3-C2-O2	7.32	127.02	121.90
85	5	2908	G	N3-C4-N9	-7.32	121.61	126.00
85	5	2973	G	N9-C4-C5	7.32	108.33	105.40
1	2	718	C	C6-N1-C2	-7.32	117.37	120.30
1	2	1530	A	C8-N9-C4	-7.32	102.87	105.80
36	1	501	A	OP1-P-O3'	7.32	121.30	105.20
36	1	742	G	O5'-P-OP2	-7.32	99.12	105.70
36	1	1699	A	OP1-P-OP2	7.32	130.57	119.60
85	5	319	A	C2-N3-C4	-7.32	106.94	110.60
85	5	668	G	N1-C2-N2	-7.32	109.62	116.20
85	5	997	A	C8-N9-C4	-7.32	102.87	105.80
85	5	1422	G	O5'-P-OP1	-7.32	99.11	105.70
85	5	1829	G	C4-C5-N7	7.32	113.73	110.80
85	5	1912	U	N3-C2-O2	7.32	127.32	122.20
37	7	27	A	N7-C8-N9	7.32	117.46	113.80
52	m6	194	LEU	CA-CB-CG	7.32	132.13	115.30
88	n4	23	ARG	NE-CZ-NH1	-7.32	116.64	120.30
1	2	797	A	C5-N7-C8	-7.31	100.24	103.90
36	1	45	A	C5-C6-N1	-7.31	114.04	117.70
47	M0	35	ASP	CB-CG-OD2	7.31	124.88	118.30
80	6	1638	G	N1-C2-N3	7.31	128.29	123.90
85	5	751	A	N1-C2-N3	7.31	132.96	129.30
1	2	1750	G	C5-C6-N1	7.31	115.16	111.50
36	1	494	G	N1-C2-N3	-7.31	119.51	123.90
36	1	1140	G	N1-C2-N2	-7.31	109.62	116.20
36	1	1185	C	O5'-P-OP1	7.31	119.47	110.70
36	1	1304	A	C5-C6-N6	7.31	129.55	123.70
36	1	2601	A	C2-N3-C4	7.31	114.26	110.60
36	1	3278	C	C2-N1-C1'	7.31	126.84	118.80
80	6	783	G	N3-C4-C5	-7.31	124.94	128.60
85	5	1152	G	N3-C4-N9	-7.31	121.61	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1161	G	OP1-P-OP2	-7.31	108.63	119.60
85	5	1753	G	C8-N9-C4	7.31	109.33	106.40
85	5	1919	G	C5-C6-N1	-7.31	107.84	111.50
85	5	2189	U	C6-N1-C2	-7.31	116.61	121.00
85	5	2311	G	N1-C6-O6	-7.31	115.51	119.90
85	5	2739	A	C2-N3-C4	7.31	114.26	110.60
85	5	3377	G	O5'-P-OP2	-7.31	99.12	105.70
38	8	70	G	C5-C6-O6	7.31	132.99	128.60
36	1	1436	U	C4-C5-C6	-7.31	115.31	119.70
36	1	1695	U	C5-C6-N1	-7.31	119.04	122.70
38	4	157	U	N3-C2-O2	-7.31	117.08	122.20
85	5	388	G	C4-C5-N7	7.31	113.72	110.80
85	5	1385	C	C2-N3-C4	7.31	123.56	119.90
85	5	1419	A	N9-C4-C5	-7.31	102.88	105.80
85	5	3093	C	C5-C6-N1	-7.31	117.34	121.00
36	1	249	U	C5-C4-O4	7.31	130.29	125.90
36	1	286	U	C2-N1-C1'	7.31	126.47	117.70
36	1	393	U	O4'-C1'-N1	7.31	114.05	108.20
36	1	2715	A	C5-N7-C8	7.31	107.56	103.90
80	6	173	A	C6-C5-N7	-7.31	127.18	132.30
85	5	883	A	C5-C6-N6	7.31	129.55	123.70
85	5	1187	C	C2-N3-C4	-7.31	116.25	119.90
85	5	1541	G	C4-C5-N7	7.31	113.72	110.80
85	5	2230	C	N1-C2-O2	-7.31	114.51	118.90
37	7	94	C	C4-C5-C6	-7.31	113.75	117.40
1	2	1468	C	C6-N1-C2	7.31	123.22	120.30
1	2	1578	U	C5-C6-N1	-7.31	119.05	122.70
1	2	1733	A	N1-C2-N3	7.31	132.95	129.30
36	1	497	C	N3-C4-C5	7.31	124.82	121.90
36	1	615	U	C6-N1-C2	-7.31	116.61	121.00
36	1	1673	G	N1-C6-O6	7.31	124.28	119.90
36	1	2689	A	O5'-P-OP2	7.31	119.47	110.70
36	1	3231	U	C4-C5-C6	7.31	124.08	119.70
80	6	524	U	N3-C2-O2	-7.31	117.08	122.20
80	6	926	A	C2-N3-C4	-7.31	106.95	110.60
85	5	853	G	C2-N3-C4	-7.31	108.25	111.90
85	5	880	G	N1-C6-O6	-7.31	115.52	119.90
37	7	114	U	N3-C4-O4	7.31	124.52	119.40
1	2	502	U	N1-C2-N3	-7.31	110.52	114.90
1	2	1605	G	C8-N9-C4	7.31	109.32	106.40
36	1	3040	A	N1-C2-N3	7.31	132.95	129.30
80	6	892	A	C5-C6-N1	-7.31	114.05	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1659	A	N7-C8-N9	7.31	117.45	113.80
85	5	814	U	C4-C5-C6	-7.31	115.32	119.70
37	7	90	U	C6-N1-C2	-7.31	116.62	121.00
1	2	338	C	N1-C2-N3	7.30	124.31	119.20
1	2	459	G	C4-C5-N7	7.30	113.72	110.80
1	2	747	U	N3-C4-C5	-7.30	110.22	114.60
1	2	1744	U	N3-C4-C5	-7.30	110.22	114.60
36	1	845	G	N1-C2-N3	7.30	128.28	123.90
36	1	936	A	N3-C4-C5	7.30	131.91	126.80
36	1	1409	G	C5-C6-O6	7.30	132.98	128.60
36	1	1436	U	C5-C6-N1	7.30	126.35	122.70
36	1	2727	A	C6-N1-C2	-7.30	114.22	118.60
36	1	2739	A	C4-C5-N7	7.30	114.35	110.70
36	1	2771	U	N1-C2-N3	-7.30	110.52	114.90
36	1	3301	U	N3-C4-O4	-7.30	114.29	119.40
85	5	134	U	C5-C6-N1	-7.30	119.05	122.70
85	5	604	G	C8-N9-C4	-7.30	103.48	106.40
85	5	1718	G	C6-C5-N7	-7.30	126.02	130.40
85	5	2761	G	N1-C2-N3	7.30	128.28	123.90
85	5	3246	G	N1-C6-O6	7.30	124.28	119.90
85	5	3384	U	N3-C4-O4	7.30	124.51	119.40
37	7	73	C	C2-N3-C4	7.30	123.55	119.90
36	1	18	G	N1-C2-N3	7.30	128.28	123.90
36	1	564	G	C5-C6-N1	7.30	115.15	111.50
38	4	142	C	C5-C4-N4	-7.30	115.09	120.20
80	6	1666	U	OP2-P-O3'	7.30	121.27	105.20
85	5	612	U	OP1-P-O3'	-7.30	89.13	105.20
85	5	945	C	C4-C5-C6	7.30	121.05	117.40
37	7	30	G	C6-N1-C2	-7.30	120.72	125.10
1	2	1178	C	N3-C4-C5	7.30	124.82	121.90
36	1	427	C	O4'-C1'-N1	-7.30	102.36	108.20
36	1	494	G	OP1-P-OP2	7.30	130.55	119.60
36	1	2198	A	C5-C6-N6	7.30	129.54	123.70
36	1	2533	G	N9-C4-C5	-7.30	102.48	105.40
36	1	2941	A	C5-N7-C8	-7.30	100.25	103.90
38	4	84	C	N1-C2-N3	7.30	124.31	119.20
80	6	180	A	C8-N9-C4	7.30	108.72	105.80
80	6	1645	G	N1-C2-N2	7.30	122.77	116.20
85	5	41	G	C4-C5-N7	7.30	113.72	110.80
85	5	1902	G	O5'-P-OP1	-7.30	99.13	105.70
85	5	2935	U	N3-C2-O2	7.30	127.31	122.20
85	5	3339	A	N1-C6-N6	7.30	122.98	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	115	C	N1-C2-O2	-7.30	114.52	118.90
1	2	338	C	N1-C2-O2	-7.30	114.52	118.90
1	2	1284	U	C5-C6-N1	7.30	126.35	122.70
1	2	1612	G	N3-C4-C5	-7.30	124.95	128.60
36	1	1503	A	N1-C2-N3	7.30	132.95	129.30
36	1	2392	C	O5'-P-OP2	-7.30	99.13	105.70
36	1	2597	U	N3-C4-C5	-7.30	110.22	114.60
36	1	2621	G	C4-C5-C6	7.30	123.18	118.80
80	6	230	C	C5-C6-N1	7.30	124.65	121.00
80	6	419	G	N3-C2-N2	7.30	125.01	119.90
80	6	1299	G	C2-N3-C4	-7.30	108.25	111.90
85	5	679	U	C4-C5-C6	7.30	124.08	119.70
85	5	1605	A	C8-N9-C4	7.30	108.72	105.80
85	5	1902	G	C5-C6-N1	7.30	115.15	111.50
36	1	330	G	N9-C4-C5	-7.30	102.48	105.40
36	1	918	C	O5'-P-OP2	-7.30	99.13	105.70
36	1	1660	C	N3-C4-C5	-7.30	118.98	121.90
36	1	2343	C	C2-N3-C4	-7.30	116.25	119.90
38	4	45	C	N3-C2-O2	7.30	127.01	121.90
38	4	57	C	O5'-P-OP1	7.30	119.46	110.70
80	6	1119	G	C4-C5-N7	7.30	113.72	110.80
85	5	34	A	N1-C6-N6	-7.30	114.22	118.60
85	5	2506	U	N1-C2-O2	7.30	127.91	122.80
85	5	3043	C	N3-C4-N4	7.30	123.11	118.00
85	5	3129	A	C6-N1-C2	-7.30	114.22	118.60
85	5	3180	A	C6-N1-C2	-7.30	114.22	118.60
1	2	1708	U	C5-C6-N1	7.30	126.35	122.70
1	2	1732	A	C2-N3-C4	-7.30	106.95	110.60
1	2	1780	A	N1-C6-N6	7.30	122.98	118.60
36	1	434	U	C6-N1-C2	7.30	125.38	121.00
36	1	1140	G	C2-N3-C4	-7.30	108.25	111.90
36	1	1884	A	N1-C2-N3	7.30	132.95	129.30
36	1	1943	C	C6-N1-C2	-7.30	117.38	120.30
36	1	2362	C	OP1-P-OP2	7.30	130.55	119.60
36	1	2859	U	C2-N1-C1'	-7.30	108.94	117.70
38	4	102	U	N3-C4-O4	7.30	124.51	119.40
80	6	43	A	N9-C4-C5	7.30	108.72	105.80
85	5	1118	C	C5-C4-N4	-7.30	115.09	120.20
85	5	1909	A	O5'-P-OP1	7.30	119.46	110.70
85	5	2870	C	C6-N1-C1'	7.30	129.56	120.80
1	2	1257	C	C5-C4-N4	7.29	125.31	120.20
36	1	76	G	N3-C4-N9	7.29	130.38	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	423	A	C2-N3-C4	-7.29	106.95	110.60
36	1	667	C	O5'-P-OP2	-7.29	99.14	105.70
36	1	1013	G	C4-C5-N7	7.29	113.72	110.80
80	6	103	A	C6-C5-N7	-7.29	127.19	132.30
85	5	857	G	N3-C2-N2	-7.29	114.79	119.90
85	5	2095	G	C5-N7-C8	7.29	107.95	104.30
37	7	3	U	C2-N3-C4	-7.29	122.62	127.00
1	2	747	U	C6-N1-C2	-7.29	116.62	121.00
1	2	1130	A	C2-N3-C4	-7.29	106.95	110.60
36	1	93	C	N1-C2-O2	7.29	123.28	118.90
36	1	694	C	OP1-P-OP2	7.29	130.54	119.60
38	4	143	U	C5-C4-O4	-7.29	121.52	125.90
80	6	337	G	N1-C2-N3	-7.29	119.52	123.90
80	6	932	U	C4-C5-C6	7.29	124.08	119.70
85	5	3045	G	O5'-P-OP1	7.29	119.45	110.70
1	2	1073	C	C6-N1-C2	-7.29	117.38	120.30
36	1	232	G	C5-C6-O6	7.29	132.97	128.60
36	1	266	A	N1-C6-N6	-7.29	114.22	118.60
36	1	974	G	C8-N9-C4	7.29	109.32	106.40
36	1	1637	A	N1-C6-N6	-7.29	114.22	118.60
36	1	1696	A	C2-N3-C4	-7.29	106.95	110.60
36	1	2241	U	C4-C5-C6	7.29	124.08	119.70
36	1	2331	C	C2-N3-C4	-7.29	116.25	119.90
36	1	2400	G	C6-C5-N7	-7.29	126.03	130.40
80	6	265	A	C6-C5-N7	-7.29	127.20	132.30
80	6	619	A	N9-C4-C5	7.29	108.72	105.80
85	5	309	U	N3-C2-O2	7.29	127.30	122.20
85	5	360	G	N3-C4-C5	-7.29	124.95	128.60
85	5	1382	G	C5-C6-N1	7.29	115.14	111.50
85	5	1844	C	C4-C5-C6	7.29	121.05	117.40
1	2	424	C	C5-C6-N1	7.29	124.64	121.00
1	2	1124	G	C8-N9-C4	-7.29	103.48	106.40
36	1	284	A	N7-C8-N9	7.29	117.44	113.80
36	1	1334	U	N1-C2-N3	7.29	119.27	114.90
85	5	72	C	O5'-P-OP2	7.29	119.45	110.70
85	5	521	A	OP1-P-OP2	7.29	130.53	119.60
36	1	1121	U	OP2-P-O3'	7.29	121.23	105.20
36	1	1644	C	N3-C4-N4	7.29	123.10	118.00
36	1	2208	A	C2-N3-C4	7.29	114.24	110.60
36	1	2406	C	N3-C4-N4	7.29	123.10	118.00
36	1	3074	G	C2-N3-C4	-7.29	108.26	111.90
36	1	3181	C	C2-N3-C4	-7.29	116.26	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3266	G	N3-C4-C5	-7.29	124.96	128.60
38	4	18	U	OP1-P-OP2	7.29	130.53	119.60
38	4	146	U	C5-C6-N1	-7.29	119.06	122.70
80	6	379	U	N3-C4-O4	7.29	124.50	119.40
80	6	1218	G	C8-N9-C4	7.29	109.31	106.40
85	5	722	G	C8-N9-C1'	-7.29	117.53	127.00
85	5	2174	G	C5-C6-N1	-7.29	107.86	111.50
38	8	51	G	N9-C4-C5	7.29	108.31	105.40
38	8	103	G	N7-C8-N9	7.29	116.74	113.10
36	1	678	G	OP1-P-OP2	-7.29	108.67	119.60
36	1	1721	U	N3-C4-O4	-7.29	114.30	119.40
79	Q3	23	ARG	NE-CZ-NH2	7.29	123.94	120.30
80	6	1584	G	N1-C2-N3	7.29	128.27	123.90
85	5	2136	C	OP1-P-O3'	7.29	121.23	105.20
85	5	2296	A	C6-C5-N7	7.29	137.40	132.30
85	5	2811	A	N1-C2-N3	7.29	132.94	129.30
85	5	2966	G	C5-C6-N1	-7.29	107.86	111.50
1	2	1244	G	C4-C5-N7	-7.29	107.89	110.80
1	2	1629	C	O5'-P-OP1	-7.29	99.14	105.70
36	1	9	U	C5-C6-N1	-7.29	119.06	122.70
36	1	133	U	C5-C4-O4	-7.29	121.53	125.90
36	1	685	G	C6-N1-C2	-7.29	120.73	125.10
36	1	1895	A	OP1-P-OP2	-7.29	108.67	119.60
36	1	2743	A	C8-N9-C4	7.29	108.71	105.80
36	1	2791	G	C2-N3-C4	-7.29	108.26	111.90
36	1	3197	G	N1-C2-N3	7.29	128.27	123.90
85	5	1181	U	N3-C2-O2	-7.29	117.10	122.20
85	5	1487	G	C8-N9-C4	-7.29	103.49	106.40
38	8	24	G	C4-C5-N7	-7.29	107.89	110.80
36	1	351	A	C5-C6-N6	7.28	129.53	123.70
36	1	1418	A	C5-N7-C8	-7.28	100.26	103.90
36	1	1543	G	N1-C2-N2	7.28	122.75	116.20
36	1	1634	G	C6-N1-C2	-7.28	120.73	125.10
36	1	2227	C	N3-C2-O2	-7.28	116.80	121.90
36	1	2403	G	N9-C4-C5	7.28	108.31	105.40
36	1	3097	C	O5'-P-OP2	-7.28	99.14	105.70
36	1	3108	G	C6-C5-N7	7.28	134.77	130.40
80	6	440	U	N1-C2-N3	7.28	119.27	114.90
85	5	690	A	N1-C2-N3	7.28	132.94	129.30
85	5	1338	C	N1-C2-O2	-7.28	114.53	118.90
85	5	1441	G	C4-N9-C1'	-7.28	117.03	126.50
85	5	1526	U	C6-N1-C2	-7.28	116.63	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1737	U	C5-C6-N1	-7.28	119.06	122.70
85	5	1867	A	OP1-P-OP2	-7.28	108.67	119.60
85	5	1869	C	N1-C2-O2	-7.28	114.53	118.90
85	5	2288	G	C4-N9-C1'	7.28	135.97	126.50
85	5	2954	U	C4-C5-C6	7.28	124.07	119.70
85	5	3011	A	C8-N9-C4	7.28	108.71	105.80
85	5	3103	A	C5-C6-N6	-7.28	117.87	123.70
37	7	72	A	C5-N7-C8	7.28	107.54	103.90
36	1	564	G	C6-N1-C2	-7.28	120.73	125.10
36	1	1288	U	C2-N3-C4	-7.28	122.63	127.00
36	1	2635	A	C4-C5-N7	-7.28	107.06	110.70
36	1	3323	A	N1-C2-N3	7.28	132.94	129.30
80	6	1401	A	N1-C6-N6	-7.28	114.23	118.60
85	5	803	C	OP2-P-O3'	7.28	121.22	105.20
85	5	1834	U	C2-N3-C4	7.28	131.37	127.00
85	5	2665	U	N3-C4-O4	7.28	124.50	119.40
1	2	994	G	N1-C2-N3	-7.28	119.53	123.90
1	2	1558	G	C5-C6-N1	7.28	115.14	111.50
36	1	48	A	N1-C2-N3	7.28	132.94	129.30
36	1	393	U	N1-C2-N3	7.28	119.27	114.90
36	1	2288	G	C6-N1-C2	-7.28	120.73	125.10
38	4	3	A	C8-N9-C4	7.28	108.71	105.80
70	O4	10	ARG	NE-CZ-NH1	-7.28	116.66	120.30
85	5	67	A	N7-C8-N9	-7.28	110.16	113.80
85	5	76	G	C5-C6-N1	-7.28	107.86	111.50
85	5	1303	A	C5-N7-C8	-7.28	100.26	103.90
85	5	2169	G	N3-C4-N9	7.28	130.37	126.00
85	5	2313	A	C2-N3-C4	-7.28	106.96	110.60
85	5	2638	C	N3-C4-C5	-7.28	118.99	121.90
1	2	1343	A	C2-N3-C4	-7.28	106.96	110.60
36	1	924	G	C2-N3-C4	-7.28	108.26	111.90
37	3	114	U	N3-C4-O4	-7.28	114.31	119.40
37	3	121	U	N1-C2-O2	-7.28	117.70	122.80
80	6	1423	U	C2-N3-C4	-7.28	122.63	127.00
85	5	153	U	N1-C2-N3	7.28	119.27	114.90
85	5	2271	A	C5-N7-C8	7.28	107.54	103.90
36	1	16	A	C5-C6-N1	-7.28	114.06	117.70
36	1	374	A	O5'-P-OP1	7.28	119.43	110.70
36	1	788	C	OP1-P-OP2	-7.28	108.69	119.60
36	1	879	U	N1-C2-N3	-7.28	110.53	114.90
36	1	2372	A	N3-C4-C5	-7.28	121.71	126.80
36	1	2919	A	C8-N9-C4	-7.28	102.89	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3016	A	OP2-P-O3'	7.28	121.21	105.20
80	6	1656	U	C4-C5-C6	-7.28	115.33	119.70
85	5	1753	G	N3-C4-N9	7.28	130.37	126.00
85	5	2643	A	C2-N3-C4	-7.28	106.96	110.60
85	5	2800	G	C6-C5-N7	7.28	134.77	130.40
85	5	3364	C	O5'-P-OP1	7.28	119.43	110.70
47	m0	24	ARG	NE-CZ-NH1	7.28	123.94	120.30
1	2	309	C	C6-N1-C2	-7.28	117.39	120.30
1	2	361	C	N3-C4-N4	7.28	123.09	118.00
1	2	572	C	C6-N1-C2	-7.28	117.39	120.30
1	2	1162	G	C2-N3-C4	-7.28	108.26	111.90
36	1	1002	A	C4-C5-C6	-7.28	113.36	117.00
36	1	1226	G	N3-C2-N2	-7.28	114.81	119.90
36	1	1354	G	C5-C6-O6	-7.28	124.23	128.60
36	1	1927	G	O5'-P-OP2	-7.28	99.15	105.70
36	1	2784	G	N7-C8-N9	-7.28	109.46	113.10
36	1	3287	U	C5-C4-O4	-7.28	121.53	125.90
38	4	89	A	N3-C4-C5	7.28	131.89	126.80
68	O2	125	ARG	NE-CZ-NH2	7.28	123.94	120.30
80	6	595	G	C5-C6-O6	7.28	132.97	128.60
80	6	1060	U	N3-C2-O2	-7.28	117.11	122.20
80	6	1145	U	C5-C6-N1	7.28	126.34	122.70
80	6	1635	A	N1-C6-N6	7.28	122.97	118.60
85	5	95	A	C4-C5-C6	-7.28	113.36	117.00
85	5	755	A	C6-C5-N7	-7.28	127.21	132.30
85	5	1449	A	C4-C5-N7	-7.28	107.06	110.70
85	5	2388	U	C4-C5-C6	7.28	124.06	119.70
36	1	810	A	C5-C6-N1	7.27	121.34	117.70
36	1	1621	A	N7-C8-N9	-7.27	110.16	113.80
85	5	3249	C	N3-C2-O2	7.27	126.99	121.90
1	2	411	C	N1-C2-N3	7.27	124.29	119.20
1	2	527	A	N7-C8-N9	7.27	117.44	113.80
36	1	211	A	N7-C8-N9	7.27	117.44	113.80
36	1	300	G	N1-C2-N3	7.27	128.26	123.90
36	1	559	A	N1-C2-N3	7.27	132.94	129.30
36	1	716	A	N1-C2-N3	-7.27	125.66	129.30
36	1	829	U	N1-C2-O2	-7.27	117.71	122.80
36	1	1154	A	C4-C5-N7	-7.27	107.06	110.70
36	1	1357	G	N1-C6-O6	7.27	124.26	119.90
36	1	1813	A	N9-C4-C5	7.27	108.71	105.80
36	1	2280	A	N9-C4-C5	7.27	108.71	105.80
36	1	2419	A	N1-C6-N6	-7.27	114.24	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	27	A	C4-C5-N7	7.27	114.34	110.70
80	6	677	G	C6-N1-C2	7.27	129.46	125.10
80	6	905	A	N1-C6-N6	-7.27	114.24	118.60
80	6	1029	U	N1-C2-N3	7.27	119.26	114.90
85	5	1076	C	N1-C2-O2	-7.27	114.54	118.90
85	5	1405	U	N1-C2-O2	-7.27	117.71	122.80
85	5	1749	A	O5'-P-OP1	-7.27	99.15	105.70
85	5	2422	C	O5'-P-OP2	-7.27	99.16	105.70
85	5	2632	G	OP1-P-O3'	7.27	121.20	105.20
55	m9	9	ARG	NE-CZ-NH1	7.27	123.94	120.30
36	1	685	G	C4-C5-N7	-7.27	107.89	110.80
36	1	2958	A	N1-C2-N3	7.27	132.94	129.30
38	4	56	G	O5'-P-OP2	-7.27	99.16	105.70
80	6	526	A	C4-C5-C6	7.27	120.64	117.00
80	6	563	U	O5'-P-OP1	7.27	119.42	110.70
85	5	910	G	N7-C8-N9	7.27	116.74	113.10
85	5	1695	U	N1-C2-N3	7.27	119.26	114.90
85	5	3311	C	O4'-C1'-N1	-7.27	102.38	108.20
1	2	391	A	N9-C4-C5	-7.27	102.89	105.80
36	1	203	G	N1-C2-N3	7.27	128.26	123.90
36	1	1384	U	C4-C5-C6	7.27	124.06	119.70
28	d6	5	ARG	NE-CZ-NH1	-7.27	116.67	120.30
85	5	686	G	N3-C2-N2	-7.27	114.81	119.90
85	5	3084	C	C6-N1-C2	7.27	123.21	120.30
38	8	72	A	OP1-P-OP2	7.27	130.50	119.60
1	2	1126	A	N1-C6-N6	7.27	122.96	118.60
1	2	1224	G	C5-N7-C8	-7.27	100.67	104.30
1	2	1637	G	O5'-P-OP2	-7.27	99.16	105.70
1	2	1713	A	OP1-P-OP2	-7.27	108.70	119.60
36	1	376	G	C5-C6-N1	-7.27	107.87	111.50
36	1	392	G	N3-C4-C5	7.27	132.23	128.60
36	1	602	A	C5-N7-C8	7.27	107.53	103.90
80	6	96	G	N3-C2-N2	-7.27	114.81	119.90
80	6	128	U	C4-C5-C6	7.27	124.06	119.70
80	6	333	A	N1-C2-N3	7.27	132.93	129.30
80	6	536	C	C6-N1-C2	-7.27	117.39	120.30
80	6	584	C	N1-C2-O2	7.27	123.26	118.90
80	6	757	A	N3-C4-N9	-7.27	121.59	127.40
80	6	1316	G	O5'-P-OP1	-7.27	99.16	105.70
85	5	351	A	C6-N1-C2	-7.27	114.24	118.60
85	5	562	C	N1-C2-O2	-7.27	114.54	118.90
85	5	710	A	C4-C5-N7	7.27	114.33	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	849	C	O5'-P-OP1	7.27	119.42	110.70
85	5	1153	A	N3-C4-C5	-7.27	121.71	126.80
85	5	1306	G	C5-C6-O6	-7.27	124.24	128.60
85	5	2336	U	C4-C5-C6	-7.27	115.34	119.70
36	1	952	A	N7-C8-N9	7.27	117.43	113.80
36	1	1151	U	O5'-P-OP2	7.27	119.42	110.70
80	6	638	U	N3-C2-O2	-7.27	117.11	122.20
85	5	3263	G	N7-C8-N9	7.27	116.73	113.10
62	n6	39	LEU	CA-CB-CG	7.27	132.01	115.30
36	1	440	A	N9-C4-C5	-7.26	102.89	105.80
36	1	2131	A	C5-C6-N1	-7.26	114.07	117.70
36	1	2187	G	N1-C2-N3	7.26	128.26	123.90
36	1	2961	G	C5-C6-O6	7.26	132.96	128.60
80	6	1097	U	N3-C4-O4	-7.26	114.31	119.40
85	5	2613	U	C6-N1-C1'	7.26	131.37	121.20
85	5	2912	G	O5'-P-OP1	-7.26	99.16	105.70
38	8	98	U	N3-C4-C5	-7.26	110.24	114.60
36	1	387	A	N7-C8-N9	7.26	117.43	113.80
36	1	896	A	OP1-P-OP2	-7.26	108.71	119.60
36	1	2690	G	C4-C5-N7	7.26	113.70	110.80
36	1	3200	G	OP1-P-O3'	7.26	121.18	105.20
37	3	113	C	O5'-P-OP1	-7.26	99.16	105.70
38	4	76	C	N3-C4-C5	7.26	124.81	121.90
80	6	709	C	C2-N3-C4	7.26	123.53	119.90
85	5	964	G	N1-C2-N3	7.26	128.26	123.90
85	5	1887	A	C6-C5-N7	-7.26	127.22	132.30
85	5	3036	G	N1-C2-N2	-7.26	109.66	116.20
38	8	11	C	C5-C4-N4	7.26	125.28	120.20
1	2	63	G	C5-C6-N1	-7.26	107.87	111.50
1	2	1563	C	N3-C4-C5	7.26	124.80	121.90
36	1	79	U	C6-N1-C2	-7.26	116.64	121.00
36	1	345	G	C8-N9-C1'	-7.26	117.56	127.00
36	1	2783	U	O5'-P-OP2	-7.26	99.17	105.70
36	1	2836	C	OP2-P-O3'	7.26	121.18	105.20
46	L9	173	ARG	NE-CZ-NH1	-7.26	116.67	120.30
80	6	741	C	C6-N1-C2	7.26	123.20	120.30
85	5	512	U	N1-C2-N3	7.26	119.26	114.90
85	5	1132	C	C4-C5-C6	-7.26	113.77	117.40
85	5	3114	A	C8-N9-C4	7.26	108.70	105.80
37	7	44	C	O5'-P-OP2	-7.26	99.16	105.70
36	1	139	G	C8-N9-C4	7.26	109.30	106.40
36	1	1661	G	N1-C2-N3	7.26	128.25	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2863	G	C4-C5-C6	7.26	123.16	118.80
36	1	3391	A	C6-N1-C2	-7.26	114.25	118.60
85	5	197	G	C4-C5-C6	7.26	123.16	118.80
85	5	222	A	N1-C2-N3	7.26	132.93	129.30
85	5	1167	U	OP2-P-O3'	7.26	121.17	105.20
85	5	1389	G	O5'-P-OP2	-7.26	99.17	105.70
85	5	2161	G	N3-C4-N9	7.26	130.36	126.00
37	7	73	C	C5-C6-N1	7.26	124.63	121.00
36	1	520	U	N3-C4-C5	-7.26	110.25	114.60
36	1	1501	U	O5'-P-OP2	-7.26	99.17	105.70
36	1	2163	C	O5'-P-OP1	-7.26	99.17	105.70
85	5	849	C	N1-C2-O2	-7.26	114.55	118.90
85	5	2629	U	N3-C4-O4	7.26	124.48	119.40
85	5	2732	G	N3-C4-C5	7.26	132.23	128.60
1	2	196	G	C5-C6-O6	-7.26	124.25	128.60
36	1	222	A	C4-C5-N7	7.26	114.33	110.70
36	1	696	C	N3-C4-C5	7.26	124.80	121.90
36	1	821	U	OP1-P-OP2	-7.26	108.71	119.60
36	1	877	C	C6-N1-C2	-7.26	117.40	120.30
36	1	971	G	C5-C6-O6	-7.26	124.25	128.60
36	1	1414	G	N7-C8-N9	7.26	116.73	113.10
36	1	1641	U	N1-C2-O2	-7.26	117.72	122.80
36	1	2428	U	C5-C6-N1	-7.26	119.07	122.70
36	1	2661	G	C2-N3-C4	-7.26	108.27	111.90
80	6	359	A	C2-N3-C4	-7.26	106.97	110.60
80	6	605	A	C5-C6-N1	7.26	121.33	117.70
80	6	1590	G	C4-C5-C6	-7.26	114.45	118.80
80	6	1719	A	C6-N1-C2	-7.26	114.25	118.60
80	6	1739	C	N1-C2-N3	7.26	124.28	119.20
85	5	561	C	C2-N3-C4	-7.26	116.27	119.90
85	5	918	C	OP1-P-OP2	-7.26	108.72	119.60
85	5	1190	A	C6-N1-C2	-7.26	114.25	118.60
85	5	1547	G	N1-C6-O6	-7.26	115.55	119.90
85	5	1771	C	OP1-P-OP2	-7.26	108.72	119.60
85	5	1910	A	C5-C6-N6	7.26	129.50	123.70
85	5	2745	G	C6-N1-C2	7.26	129.45	125.10
1	2	594	A	N3-C4-C5	-7.25	121.72	126.80
1	2	1703	G	C5-C6-N1	7.25	115.13	111.50
36	1	128	G	O5'-P-OP2	7.25	119.41	110.70
36	1	317	A	N7-C8-N9	7.25	117.43	113.80
36	1	634	C	OP2-P-O3'	7.25	121.16	105.20
36	1	764	U	N3-C4-C5	-7.25	110.25	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1326	A	N1-C2-N3	7.25	132.93	129.30
36	1	3185	U	O5'-P-OP1	-7.25	99.17	105.70
80	6	305	C	N3-C4-C5	-7.25	119.00	121.90
80	6	384	G	C4-C5-N7	7.25	113.70	110.80
85	5	210	U	C5-C4-O4	7.25	130.25	125.90
85	5	819	U	C5-C6-N1	-7.25	119.07	122.70
85	5	1499	C	O5'-P-OP1	7.25	119.41	110.70
1	2	380	U	O5'-P-OP1	-7.25	99.17	105.70
36	1	23	A	C8-N9-C4	7.25	108.70	105.80
36	1	2243	A	OP1-P-OP2	7.25	130.48	119.60
36	1	2565	U	N3-C2-O2	-7.25	117.12	122.20
36	1	3005	A	C4-C5-N7	7.25	114.33	110.70
37	3	79	A	C5-C6-N1	-7.25	114.07	117.70
80	6	353	A	O5'-P-OP1	-7.25	99.17	105.70
80	6	1021	C	C4-C5-C6	7.25	121.03	117.40
85	5	1409	G	N1-C2-N3	7.25	128.25	123.90
85	5	1938	U	O5'-P-OP1	7.25	119.40	110.70
85	5	2645	G	C5-C6-N1	7.25	115.13	111.50
85	5	3015	G	C5-C6-N1	7.25	115.13	111.50
85	5	3024	A	C5-C6-N1	-7.25	114.07	117.70
85	5	3141	A	N9-C4-C5	7.25	108.70	105.80
36	1	173	G	N3-C4-C5	-7.25	124.97	128.60
36	1	716	A	N7-C8-N9	-7.25	110.17	113.80
36	1	2871	G	OP1-P-OP2	-7.25	108.72	119.60
80	6	1629	G	N1-C2-N3	7.25	128.25	123.90
80	6	1741	U	C6-N1-C2	-7.25	116.65	121.00
85	5	556	U	C6-N1-C2	-7.25	116.65	121.00
85	5	988	U	N1-C2-O2	-7.25	117.72	122.80
85	5	1194	G	C5-C6-N1	7.25	115.12	111.50
85	5	1251	A	N9-C4-C5	7.25	108.70	105.80
85	5	1435	A	P-O3'-C3'	7.25	128.40	119.70
85	5	1489	A	C5-C6-N6	-7.25	117.90	123.70
85	5	2193	U	N3-C4-O4	-7.25	114.32	119.40
85	5	3105	U	C4-C5-C6	7.25	124.05	119.70
36	1	164	A	C5-C6-N6	-7.25	117.90	123.70
36	1	187	A	C6-C5-N7	-7.25	127.22	132.30
36	1	728	G	C5-C6-N1	7.25	115.12	111.50
36	1	2372	A	C6-N1-C2	-7.25	114.25	118.60
36	1	2799	A	N1-C6-N6	-7.25	114.25	118.60
40	L3	275	ARG	NE-CZ-NH1	-7.25	116.67	120.30
80	6	1486	G	N1-C6-O6	7.25	124.25	119.90
85	5	293	C	C6-N1-C2	7.25	123.20	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	718	G	N1-C2-N3	7.25	128.25	123.90
85	5	841	A	C8-N9-C4	7.25	108.70	105.80
85	5	3196	U	N3-C4-O4	-7.25	114.33	119.40
1	2	737	A	C5-N7-C8	7.25	107.53	103.90
36	1	435	C	C5-C6-N1	-7.25	117.38	121.00
36	1	625	G	C4-C5-N7	-7.25	107.90	110.80
36	1	1371	G	N3-C4-N9	-7.25	121.65	126.00
36	1	1375	G	N7-C8-N9	7.25	116.72	113.10
36	1	1576	G	C5-C6-O6	-7.25	124.25	128.60
36	1	2445	A	C5-C6-N1	7.25	121.32	117.70
36	1	2628	A	C6-N1-C2	-7.25	114.25	118.60
36	1	3248	C	O5'-P-OP2	7.25	119.40	110.70
80	6	1196	A	N1-C6-N6	-7.25	114.25	118.60
85	5	342	A	N9-C4-C5	7.25	108.70	105.80
85	5	745	C	N1-C2-N3	7.25	124.27	119.20
85	5	922	U	C5-C4-O4	7.25	130.25	125.90
85	5	1053	A	C4-C5-N7	7.25	114.32	110.70
85	5	1881	A	N9-C4-C5	7.25	108.70	105.80
85	5	2126	A	N1-C6-N6	7.25	122.95	118.60
85	5	2162	U	N1-C2-O2	-7.25	117.72	122.80
85	5	2640	A	C6-C5-N7	-7.25	127.23	132.30
85	5	3054	U	C5-C6-N1	7.25	126.33	122.70
85	5	3211	C	OP2-P-O3'	7.25	121.14	105.20
85	5	3238	G	N1-C2-N3	-7.25	119.55	123.90
67	o1	84	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	2	299	A	C4-C5-C6	-7.25	113.38	117.00
1	2	459	G	N7-C8-N9	7.25	116.72	113.10
1	2	1064	A	C2-N3-C4	7.25	114.22	110.60
1	2	1588	G	C4-C5-N7	7.25	113.70	110.80
36	1	918	C	C2-N1-C1'	-7.25	110.83	118.80
36	1	1305	U	N1-C2-N3	7.25	119.25	114.90
36	1	1879	A	C6-N1-C2	-7.25	114.25	118.60
36	1	1893	A	C6-C5-N7	-7.25	127.23	132.30
36	1	2644	C	C5-C4-N4	7.25	125.27	120.20
36	1	2689	A	C4-C5-C6	7.25	120.62	117.00
41	L4	182	LEU	CA-CB-CG	7.25	131.97	115.30
80	6	1285	U	C5-C4-O4	7.25	130.25	125.90
85	5	1919	G	N9-C4-C5	7.25	108.30	105.40
85	5	2343	C	N1-C2-O2	-7.25	114.55	118.90
85	5	3048	A	C4-C5-C6	7.25	120.62	117.00
37	7	117	A	C5-C6-N1	-7.25	114.08	117.70
1	2	341	A	C8-N9-C4	-7.25	102.90	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	C6	40	GLU	C-N-CD	-7.25	104.66	120.60
36	1	903	U	N3-C4-O4	7.25	124.47	119.40
1	2	837	U	C5-C6-N1	7.24	126.32	122.70
36	1	508	U	N1-C2-N3	7.24	119.25	114.90
36	1	2405	C	C2-N1-C1'	7.24	126.77	118.80
36	1	3366	G	C2-N3-C4	-7.24	108.28	111.90
80	6	141	U	N1-C2-O2	-7.24	117.73	122.80
80	6	1148	C	C4-C5-C6	7.24	121.02	117.40
80	6	1601	G	C2-N3-C4	7.24	115.52	111.90
85	5	1176	C	N1-C2-N3	-7.24	114.13	119.20
85	5	2206	G	C4-C5-N7	7.24	113.70	110.80
85	5	2895	G	C2-N3-C4	-7.24	108.28	111.90
41	14	195	ARG	NE-CZ-NH1	-7.24	116.68	120.30
36	1	1197	A	C5-C6-N1	7.24	121.32	117.70
36	1	1653	G	C2-N3-C4	-7.24	108.28	111.90
36	1	2908	G	C4-C5-N7	7.24	113.70	110.80
36	1	2956	A	C6-C5-N7	-7.24	127.23	132.30
80	6	534	A	OP1-P-OP2	-7.24	108.74	119.60
80	6	1607	G	N1-C2-N3	7.24	128.25	123.90
85	5	330	G	C4-C5-C6	-7.24	114.45	118.80
85	5	880	G	N3-C4-C5	-7.24	124.98	128.60
85	5	3000	A	N9-C4-C5	-7.24	102.90	105.80
1	2	1081	U	OP1-P-OP2	7.24	130.46	119.60
1	2	1542	A	C4-C5-N7	7.24	114.32	110.70
36	1	199	A	N9-C4-C5	7.24	108.70	105.80
36	1	921	A	N1-C2-N3	7.24	132.92	129.30
36	1	1222	G	C5-C6-O6	7.24	132.94	128.60
36	1	1356	U	N3-C4-C5	7.24	118.94	114.60
36	1	1602	A	C8-N9-C4	7.24	108.70	105.80
36	1	2375	G	N7-C8-N9	-7.24	109.48	113.10
36	1	2657	A	N1-C2-N3	7.24	132.92	129.30
80	6	60	U	N1-C2-N3	-7.24	110.56	114.90
85	5	655	C	O5'-P-OP2	-7.24	99.18	105.70
85	5	1838	G	N1-C6-O6	7.24	124.25	119.90
85	5	1887	A	C4-C5-N7	7.24	114.32	110.70
1	2	1019	A	N1-C2-N3	7.24	132.92	129.30
1	2	1168	U	N3-C2-O2	-7.24	117.13	122.20
1	2	1403	C	OP1-P-OP2	7.24	130.46	119.60
36	1	287	G	C6-C5-N7	-7.24	126.06	130.40
36	1	686	G	C2-N3-C4	-7.24	108.28	111.90
36	1	2396	G	N9-C4-C5	7.24	108.30	105.40
36	1	2607	G	C5-C6-O6	-7.24	124.26	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2794	G	C2-N3-C4	-7.24	108.28	111.90
80	6	1727	G	N9-C4-C5	7.24	108.30	105.40
85	5	102	C	N1-C2-O2	7.24	123.24	118.90
85	5	343	U	O5'-P-OP1	-7.24	99.19	105.70
85	5	648	C	OP1-P-O3'	7.24	121.12	105.20
85	5	1329	U	C2-N3-C4	-7.24	122.66	127.00
85	5	2295	A	C2-N3-C4	-7.24	106.98	110.60
85	5	2404	A	C5-C6-N6	-7.24	117.91	123.70
85	5	3073	A	C2-N3-C4	7.24	114.22	110.60
37	7	108	A	C5-C6-N1	-7.24	114.08	117.70
1	2	741	U	C6-N1-C2	-7.24	116.66	121.00
1	2	917	C	C6-N1-C2	-7.24	117.41	120.30
36	1	202	G	O4'-C1'-N9	-7.24	102.41	108.20
36	1	439	C	C6-N1-C2	-7.24	117.41	120.30
36	1	757	C	C2-N3-C4	-7.24	116.28	119.90
80	6	61	A	C8-N9-C4	7.24	108.69	105.80
85	5	674	G	N9-C4-C5	7.24	108.30	105.40
85	5	2159	U	C5-C6-N1	-7.24	119.08	122.70
85	5	2717	U	C5-C6-N1	-7.24	119.08	122.70
38	8	108	C	N1-C2-O2	7.24	123.24	118.90
36	1	393	U	N3-C4-O4	7.24	124.47	119.40
36	1	2362	C	N1-C2-N3	-7.24	114.13	119.20
36	1	3177	G	C2-N3-C4	7.24	115.52	111.90
36	1	3260	G	N1-C2-N3	7.24	128.24	123.90
38	4	72	A	N1-C2-N3	7.24	132.92	129.30
38	4	118	C	C2-N3-C4	-7.24	116.28	119.90
80	6	50	C	N3-C4-C5	-7.24	119.01	121.90
80	6	694	U	N1-C2-N3	-7.24	110.56	114.90
85	5	375	A	C2-N3-C4	-7.24	106.98	110.60
85	5	726	G	C4-C5-N7	7.24	113.69	110.80
85	5	764	U	C5-C4-O4	-7.24	121.56	125.90
85	5	1154	A	N1-C2-N3	-7.24	125.68	129.30
85	5	1357	G	C2-N3-C4	-7.24	108.28	111.90
85	5	2335	G	N3-C4-N9	7.24	130.34	126.00
85	5	2754	G	N3-C4-C5	-7.24	124.98	128.60
85	5	2975	U	C4-C5-C6	-7.24	115.36	119.70
85	5	3229	G	C8-N9-C4	7.24	109.30	106.40
85	5	3386	G	OP1-P-OP2	7.24	130.45	119.60
38	8	105	A	OP1-P-OP2	-7.24	108.75	119.60
36	1	535	G	C4-C5-C6	7.23	123.14	118.80
36	1	828	A	C5-C6-N1	-7.23	114.08	117.70
36	1	2299	A	O5'-P-OP1	7.23	119.38	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2633	U	C4-C5-C6	7.23	124.04	119.70
80	6	253	A	N9-C4-C5	-7.23	102.91	105.80
85	5	246	U	N1-C2-O2	7.23	127.86	122.80
85	5	1161	G	C6-C5-N7	7.23	134.74	130.40
85	5	2839	G	C4-C5-N7	7.23	113.69	110.80
1	2	421	A	N9-C4-C5	-7.23	102.91	105.80
1	2	1090	G	C8-N9-C4	-7.23	103.51	106.40
1	2	1098	U	C6-N1-C2	7.23	125.34	121.00
36	1	349	A	OP2-P-O3'	7.23	121.11	105.20
36	1	1205	A	N3-C4-C5	7.23	131.86	126.80
36	1	1476	G	C5-C6-N1	7.23	115.12	111.50
85	5	573	C	N3-C4-C5	7.23	124.79	121.90
85	5	660	A	N3-C4-C5	-7.23	121.74	126.80
85	5	2711	C	OP1-P-OP2	-7.23	108.75	119.60
85	5	3274	A	N1-C6-N6	-7.23	114.26	118.60
36	1	304	G	C4-C5-N7	-7.23	107.91	110.80
36	1	327	A	N1-C6-N6	-7.23	114.26	118.60
36	1	1039	U	N3-C2-O2	7.23	127.26	122.20
36	1	1169	A	N7-C8-N9	-7.23	110.18	113.80
36	1	1449	A	C2-N3-C4	7.23	114.22	110.60
36	1	1591	G	C8-N9-C4	-7.23	103.51	106.40
36	1	2669	G	C5-C6-N1	-7.23	107.89	111.50
85	5	1887	A	C5-C6-N6	-7.23	117.92	123.70
85	5	2133	U	N1-C2-O2	-7.23	117.74	122.80
85	5	2892	A	C6-C5-N7	-7.23	127.24	132.30
85	5	3181	C	OP1-P-OP2	-7.23	108.75	119.60
36	1	1196	C	C4-C5-C6	-7.23	113.79	117.40
36	1	1420	C	C5-C6-N1	-7.23	117.39	121.00
36	1	1505	C	C4-C5-C6	-7.23	113.78	117.40
37	3	95	A	C2-N3-C4	-7.23	106.99	110.60
80	6	1641	C	N3-C4-N4	7.23	123.06	118.00
85	5	197	G	N3-C2-N2	7.23	124.96	119.90
85	5	2409	G	N7-C8-N9	7.23	116.71	113.10
85	5	2548	C	C6-N1-C2	-7.23	117.41	120.30
85	5	2613	U	N3-C4-C5	-7.23	110.26	114.60
1	2	81	G	C4-C5-N7	7.23	113.69	110.80
1	2	884	G	C4-C5-N7	7.23	113.69	110.80
36	1	196	G	O5'-P-OP2	-7.23	99.19	105.70
36	1	1476	G	C5-N7-C8	7.23	107.91	104.30
36	1	1895	A	O5'-P-OP2	7.23	119.37	110.70
36	1	2291	A	N1-C6-N6	-7.23	114.26	118.60
80	6	139	C	N3-C4-C5	7.23	124.79	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1420	C	C5-C6-N1	-7.23	117.39	121.00
85	5	1458	U	O5'-P-OP1	-7.23	99.19	105.70
85	5	2325	G	C4-C5-N7	7.23	113.69	110.80
85	5	2726	C	O4'-C1'-N1	7.23	113.98	108.20
85	5	3044	G	N7-C8-N9	7.23	116.71	113.10
38	8	66	A	N1-C2-N3	7.23	132.91	129.30
1	2	608	U	N1-C2-N3	7.23	119.24	114.90
1	2	1042	U	N3-C2-O2	-7.23	117.14	122.20
36	1	197	G	OP1-P-OP2	-7.23	108.76	119.60
36	1	1313	G	N7-C8-N9	7.23	116.71	113.10
36	1	2423	U	C4-C5-C6	7.23	124.03	119.70
36	1	2968	G	N3-C4-N9	-7.23	121.66	126.00
36	1	3077	A	C5-C6-N1	7.23	121.31	117.70
80	6	306	U	C2-N3-C4	-7.23	122.66	127.00
80	6	1401	A	C5-C6-N1	7.23	121.31	117.70
80	6	1777	G	N3-C4-C5	7.23	132.21	128.60
85	5	835	G	C5-C6-N1	7.23	115.11	111.50
85	5	1217	A	C8-N9-C4	-7.23	102.91	105.80
85	5	1221	A	C8-N9-C4	7.23	108.69	105.80
85	5	1271	A	N1-C6-N6	7.23	122.94	118.60
85	5	3336	A	C2-N3-C4	-7.23	106.99	110.60
1	2	67	A	C5-N7-C8	7.22	107.51	103.90
1	2	1731	G	N1-C2-N3	7.22	128.24	123.90
36	1	1468	A	C6-C5-N7	-7.22	127.24	132.30
36	1	2523	A	C4-C5-C6	7.22	120.61	117.00
36	1	2741	C	C2-N3-C4	-7.22	116.29	119.90
80	6	1082	C	C6-N1-C2	-7.22	117.41	120.30
80	6	1095	U	N1-C2-O2	-7.22	117.74	122.80
80	6	1111	G	C5-C6-O6	7.22	132.94	128.60
85	5	2330	C	C6-N1-C2	7.22	123.19	120.30
85	5	2977	G	C8-N9-C4	-7.22	103.51	106.40
37	7	4	U	C2-N3-C4	-7.22	122.67	127.00
1	2	977	G	N1-C2-N3	7.22	128.23	123.90
1	2	1315	C	N3-C4-C5	-7.22	119.01	121.90
1	2	1502	U	N1-C2-O2	-7.22	117.74	122.80
36	1	300	G	N1-C2-N2	-7.22	109.70	116.20
36	1	324	A	OP2-P-O3'	7.22	121.09	105.20
36	1	3345	G	N7-C8-N9	-7.22	109.49	113.10
39	L2	42	ARG	NE-CZ-NH1	-7.22	116.69	120.30
80	6	66	U	C6-N1-C2	7.22	125.33	121.00
85	5	299	G	OP1-P-OP2	7.22	130.44	119.60
85	5	418	A	O5'-P-OP2	-7.22	99.20	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1391	C	C6-N1-C2	7.22	123.19	120.30
85	5	1802	C	C6-N1-C2	7.22	123.19	120.30
85	5	2347	U	N1-C2-O2	-7.22	117.74	122.80
85	5	2753	G	C4-C5-N7	7.22	113.69	110.80
37	7	115	G	N1-C6-O6	7.22	124.23	119.90
1	2	102	U	N1-C2-N3	7.22	119.23	114.90
36	1	3009	G	OP1-P-OP2	-7.22	108.77	119.60
38	4	2	A	C8-N9-C4	-7.22	102.91	105.80
1	2	551	G	C5-N7-C8	-7.22	100.69	104.30
1	2	1274	G	C5-N7-C8	-7.22	100.69	104.30
36	1	417	A	C5-N7-C8	-7.22	100.29	103.90
36	1	2437	G	N3-C4-C5	-7.22	124.99	128.60
36	1	2513	U	N3-C4-O4	-7.22	114.35	119.40
36	1	3378	C	OP1-P-OP2	-7.22	108.77	119.60
38	4	29	U	N3-C2-O2	-7.22	117.15	122.20
38	4	61	A	C6-N1-C2	-7.22	114.27	118.60
80	6	291	G	C8-N9-C4	-7.22	103.51	106.40
80	6	293	U	C5-C6-N1	-7.22	119.09	122.70
80	6	768	C	C6-N1-C1'	-7.22	112.14	120.80
85	5	1179	A	C6-N1-C2	-7.22	114.27	118.60
85	5	1585	C	C6-N1-C2	7.22	123.19	120.30
85	5	1848	G	O5'-P-OP2	-7.22	99.20	105.70
85	5	2280	A	N7-C8-N9	7.22	117.41	113.80
85	5	2950	G	C4-C5-N7	7.22	113.69	110.80
38	8	116	G	N9-C4-C5	-7.22	102.51	105.40
1	2	1427	A	C2-N3-C4	-7.22	106.99	110.60
36	1	3076	C	N1-C2-O2	-7.22	114.57	118.90
80	6	55	A	C8-N9-C4	-7.22	102.91	105.80
80	6	512	A	C8-N9-C4	-7.22	102.91	105.80
80	6	1658	G	C8-N9-C4	7.22	109.29	106.40
80	6	1732	A	N1-C2-N3	7.22	132.91	129.30
85	5	189	G	C8-N9-C4	-7.22	103.51	106.40
85	5	1350	A	C5-C6-N6	7.22	129.47	123.70
85	5	1515	A	N7-C8-N9	7.22	117.41	113.80
85	5	2238	G	OP2-P-O3'	7.22	121.08	105.20
85	5	2547	A	C2-N3-C4	7.22	114.21	110.60
1	2	50	C	N3-C4-C5	-7.22	119.01	121.90
1	2	878	G	C8-N9-C4	-7.22	103.51	106.40
1	2	1184	G	N3-C4-C5	7.22	132.21	128.60
36	1	81	C	O5'-P-OP2	-7.22	99.20	105.70
36	1	388	G	C4-C5-N7	7.22	113.69	110.80
36	1	1406	A	C5-N7-C8	-7.22	100.29	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1429	G	N3-C4-N9	7.22	130.33	126.00
36	1	1724	U	C5-C6-N1	7.22	126.31	122.70
36	1	1871	U	C4-C5-C6	7.22	124.03	119.70
36	1	1887	A	C4-C5-C6	7.22	120.61	117.00
36	1	2835	U	C2-N3-C4	-7.22	122.67	127.00
36	1	2896	A	C4-C5-C6	7.22	120.61	117.00
38	4	134	G	C5-C6-O6	-7.22	124.27	128.60
80	6	1016	C	C5-C6-N1	7.22	124.61	121.00
80	6	1032	G	C5-C6-O6	-7.22	124.27	128.60
85	5	83	U	OP1-P-OP2	7.22	130.42	119.60
85	5	894	G	C5-C6-N1	-7.22	107.89	111.50
85	5	1311	G	O5'-P-OP1	-7.22	99.21	105.70
85	5	1745	C	O5'-P-OP2	-7.22	99.20	105.70
36	1	612	U	C5-C6-N1	-7.21	119.09	122.70
36	1	1409	G	N1-C6-O6	-7.21	115.57	119.90
36	1	1578	C	N3-C2-O2	7.21	126.95	121.90
36	1	1888	U	N3-C4-O4	-7.21	114.35	119.40
36	1	2691	A	C6-N1-C2	-7.21	114.27	118.60
37	3	24	A	O5'-P-OP1	-7.21	99.21	105.70
80	6	248	U	O5'-P-OP1	-7.21	99.21	105.70
80	6	268	C	N3-C4-C5	7.21	124.78	121.90
80	6	388	G	C4-C5-C6	7.21	123.13	118.80
80	6	952	A	N1-C6-N6	-7.21	114.27	118.60
85	5	376	G	C5-C6-O6	-7.21	124.27	128.60
85	5	1709	C	C2-N3-C4	-7.21	116.29	119.90
85	5	2240	G	N9-C4-C5	-7.21	102.51	105.40
38	8	130	C	N1-C2-N3	7.21	124.25	119.20
36	1	2120	A	OP1-P-OP2	7.21	130.42	119.60
36	1	2179	C	N3-C2-O2	-7.21	116.85	121.90
36	1	2259	A	N1-C2-N3	7.21	132.91	129.30
80	6	1019	A	N7-C8-N9	-7.21	110.19	113.80
85	5	241	G	C4-C5-N7	7.21	113.69	110.80
85	5	260	C	O5'-P-OP1	-7.21	99.21	105.70
85	5	783	A	C8-N9-C4	7.21	108.69	105.80
85	5	1006	A	C4-C5-N7	-7.21	107.09	110.70
85	5	1161	G	C6-N1-C2	-7.21	120.77	125.10
85	5	2341	A	C6-N1-C2	-7.21	114.27	118.60
1	2	608	U	C2-N3-C4	-7.21	122.67	127.00
1	2	955	G	N7-C8-N9	7.21	116.71	113.10
36	1	155	G	N1-C6-O6	-7.21	115.57	119.90
36	1	697	A	N3-C4-C5	7.21	131.85	126.80
36	1	954	U	N1-C2-N3	7.21	119.23	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1520	G	N1-C2-N3	-7.21	119.57	123.90
36	1	1654	A	N3-C4-C5	-7.21	121.75	126.80
36	1	1789	G	C8-N9-C4	7.21	109.28	106.40
36	1	2601	A	N1-C6-N6	-7.21	114.27	118.60
36	1	2609	A	N7-C8-N9	-7.21	110.19	113.80
85	5	588	G	N7-C8-N9	-7.21	109.49	113.10
85	5	866	A	N7-C8-N9	-7.21	110.19	113.80
85	5	1142	G	C6-C5-N7	-7.21	126.07	130.40
85	5	1299	U	N3-C2-O2	-7.21	117.15	122.20
85	5	2152	A	C5-C6-N6	7.21	129.47	123.70
85	5	2262	A	OP1-P-O3'	7.21	121.06	105.20
85	5	3073	A	C4-C5-N7	7.21	114.31	110.70
85	5	3156	U	N1-C2-O2	7.21	127.85	122.80
37	7	18	C	OP1-P-OP2	7.21	130.42	119.60
1	2	635	A	C5-C6-N1	-7.21	114.09	117.70
1	2	844	U	N3-C2-O2	-7.21	117.15	122.20
1	2	1541	U	C4-C5-C6	-7.21	115.37	119.70
36	1	157	A	C5-C6-N1	7.21	121.31	117.70
36	1	803	C	C5-C6-N1	7.21	124.61	121.00
36	1	1925	U	C5-C4-O4	-7.21	121.57	125.90
36	1	2195	C	C5-C6-N1	7.21	124.61	121.00
37	3	29	C	N1-C2-N3	7.21	124.25	119.20
38	4	27	U	N3-C4-C5	7.21	118.93	114.60
80	6	55	A	OP1-P-OP2	-7.21	108.78	119.60
85	5	1175	C	N1-C2-O2	7.21	123.23	118.90
85	5	1544	G	N7-C8-N9	-7.21	109.50	113.10
85	5	2661	G	C2-N3-C4	7.21	115.50	111.90
46	19	166	ARG	NE-CZ-NH1	7.21	123.91	120.30
1	2	1080	U	OP1-P-OP2	-7.21	108.79	119.60
36	1	1162	U	N1-C2-O2	-7.21	117.75	122.80
36	1	1786	G	C8-N9-C4	-7.21	103.52	106.40
80	6	395	U	C4-C5-C6	7.21	124.03	119.70
80	6	1475	A	C5-C6-N1	-7.21	114.10	117.70
85	5	595	G	N1-C2-N2	-7.21	109.71	116.20
85	5	980	A	C5-N7-C8	7.21	107.50	103.90
85	5	1102	A	N1-C6-N6	-7.21	114.27	118.60
85	5	1157	G	C6-C5-N7	7.21	134.72	130.40
37	7	12	U	N1-C2-N3	-7.21	110.57	114.90
1	2	630	A	C2-N3-C4	-7.21	107.00	110.60
1	2	971	A	C4-C5-N7	7.21	114.30	110.70
36	1	383	G	C2-N3-C4	7.21	115.50	111.90
36	1	522	A	N9-C4-C5	-7.21	102.92	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	673	U	O5'-P-OP1	7.21	119.35	110.70
36	1	962	A	C5-N7-C8	-7.21	100.30	103.90
36	1	2520	A	N7-C8-N9	-7.21	110.20	113.80
36	1	2758	A	OP1-P-OP2	7.21	130.41	119.60
36	1	2811	A	N3-C4-C5	-7.21	121.75	126.80
36	1	3336	A	C8-N9-C4	-7.21	102.92	105.80
80	6	151	G	C4-C5-N7	-7.21	107.92	110.80
85	5	54	C	N1-C2-N3	7.21	124.25	119.20
85	5	505	G	N3-C2-N2	-7.21	114.86	119.90
85	5	1362	G	N1-C2-N3	7.21	128.22	123.90
85	5	1399	A	N3-C4-N9	-7.21	121.63	127.40
85	5	2426	U	N3-C4-C5	-7.21	110.28	114.60
85	5	3214	U	C2-N3-C4	-7.21	122.68	127.00
36	1	1699	A	C2-N3-C4	-7.21	107.00	110.60
36	1	2113	A	C2-N3-C4	7.21	114.20	110.60
36	1	2761	G	N7-C8-N9	-7.21	109.50	113.10
80	6	761	G	N3-C4-C5	-7.21	125.00	128.60
85	5	2704	A	C5'-C4'-O4'	-7.21	100.45	109.10
85	5	2898	G	N1-C6-O6	7.21	124.22	119.90
36	1	353	G	C8-N9-C4	-7.20	103.52	106.40
36	1	355	A	OP2-P-O3'	7.20	121.05	105.20
36	1	758	C	C2-N3-C4	-7.20	116.30	119.90
36	1	1847	A	C5-C6-N1	-7.20	114.10	117.70
80	6	950	C	O5'-P-OP2	-7.20	99.22	105.70
85	5	932	U	O5'-P-OP1	7.20	119.34	110.70
85	5	1107	C	N1-C2-N3	7.20	124.24	119.20
85	5	1485	G	C5-N7-C8	-7.20	100.70	104.30
85	5	2714	G	C8-N9-C4	-7.20	103.52	106.40
85	5	2825	C	N3-C2-O2	7.20	126.94	121.90
38	8	24	G	N9-C4-C5	7.20	108.28	105.40
36	1	856	G	N1-C6-O6	-7.20	115.58	119.90
80	6	93	A	C5-N7-C8	7.20	107.50	103.90
80	6	1535	U	C2-N3-C4	-7.20	122.68	127.00
85	5	956	U	N3-C2-O2	7.20	127.24	122.20
85	5	2772	C	C6-N1-C2	-7.20	117.42	120.30
85	5	2868	U	C6-N1-C2	-7.20	116.68	121.00
85	5	3149	G	C2-N3-C4	-7.20	108.30	111.90
38	8	49	G	O5'-P-OP1	-7.20	99.22	105.70
38	8	116	G	C4-C5-N7	7.20	113.68	110.80
1	2	1109	G	N7-C8-N9	-7.20	109.50	113.10
36	1	640	U	N3-C2-O2	-7.20	117.16	122.20
36	1	1121	U	N3-C4-O4	-7.20	114.36	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1378	U	OP1-P-O3'	7.20	121.04	105.20
36	1	2715	A	N3-C4-C5	-7.20	121.76	126.80
36	1	3065	G	N1-C6-O6	7.20	124.22	119.90
80	6	190	C	C5-C6-N1	7.20	124.60	121.00
80	6	1114	G	N3-C4-C5	-7.20	125.00	128.60
85	5	220	G	C2-N3-C4	-7.20	108.30	111.90
85	5	746	A	N1-C6-N6	-7.20	114.28	118.60
85	5	1001	G	C6-C5-N7	7.20	134.72	130.40
85	5	2995	A	C4-C5-N7	-7.20	107.10	110.70
85	5	3375	A	C2-N3-C4	-7.20	107.00	110.60
1	2	459	G	C6-C5-N7	-7.20	126.08	130.40
36	1	151	A	N7-C8-N9	7.20	117.40	113.80
36	1	1121	U	OP1-P-O3'	-7.20	89.36	105.20
36	1	1405	U	O5'-P-OP2	-7.20	99.22	105.70
36	1	3053	G	OP2-P-O3'	7.20	121.04	105.20
37	3	54	U	N3-C2-O2	-7.20	117.16	122.20
37	3	90	U	N3-C4-O4	-7.20	114.36	119.40
38	4	94	C	C4-C5-C6	7.20	121.00	117.40
80	6	936	G	N1-C6-O6	7.20	124.22	119.90
80	6	1198	G	N1-C2-N2	7.20	122.68	116.20
80	6	1517	U	N1-C2-N3	7.20	119.22	114.90
85	5	145	G	O5'-P-OP1	7.20	119.34	110.70
85	5	643	U	OP1-P-OP2	7.20	130.40	119.60
85	5	676	G	C5-C6-O6	7.20	132.92	128.60
85	5	935	U	OP2-P-O3'	7.20	121.04	105.20
85	5	1216	C	OP1-P-OP2	-7.20	108.80	119.60
85	5	1617	G	C6-C5-N7	-7.20	126.08	130.40
85	5	1796	G	O5'-P-OP2	-7.20	99.22	105.70
85	5	2348	A	N1-C2-N3	7.20	132.90	129.30
85	5	3026	G	C6-C5-N7	-7.20	126.08	130.40
85	5	3314	A	N9-C4-C5	7.20	108.68	105.80
41	14	244	LEU	CB-CG-CD1	-7.20	98.76	111.00
1	2	282	C	N1-C2-O2	7.20	123.22	118.90
36	1	246	U	C5-C6-N1	7.20	126.30	122.70
36	1	1463	U	N1-C2-N3	7.20	119.22	114.90
85	5	1419	A	C4-C5-N7	7.20	114.30	110.70
85	5	2180	G	O5'-P-OP1	7.20	119.34	110.70
85	5	2357	A	OP1-P-O3'	-7.20	89.37	105.20
36	1	558	U	O5'-P-OP1	-7.20	99.22	105.70
36	1	1189	C	C5-C6-N1	-7.20	117.40	121.00
36	1	1534	A	C4-C5-C6	-7.20	113.40	117.00
36	1	1864	A	C4-C5-N7	7.20	114.30	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2618	G	N3-C2-N2	7.20	124.94	119.90
85	5	913	A	OP1-P-O3'	7.20	121.03	105.20
85	5	1188	U	N1-C2-N3	7.20	119.22	114.90
85	5	1280	C	N1-C2-O2	7.20	123.22	118.90
85	5	2787	G	N7-C8-N9	7.20	116.70	113.10
69	o3	102	LEU	CA-CB-CG	-7.20	98.75	115.30
36	1	2727	A	N1-C6-N6	-7.19	114.28	118.60
36	1	2877	G	O5'-P-OP2	-7.19	99.22	105.70
85	5	516	A	C8-N9-C4	7.19	108.68	105.80
37	7	66	A	C8-N9-C4	7.19	108.68	105.80
1	2	263	C	N1-C2-O2	-7.19	114.58	118.90
36	1	79	U	C4-C5-C6	7.19	124.02	119.70
36	1	351	A	C8-N9-C4	7.19	108.68	105.80
36	1	2113	A	N3-C4-C5	-7.19	121.77	126.80
36	1	2979	U	C4-C5-C6	7.19	124.02	119.70
80	6	875	G	N9-C4-C5	7.19	108.28	105.40
85	5	78	U	C5-C6-N1	-7.19	119.10	122.70
85	5	241	G	C8-N9-C4	-7.19	103.52	106.40
85	5	1594	A	N7-C8-N9	7.19	117.40	113.80
85	5	1718	G	C2-N3-C4	-7.19	108.30	111.90
85	5	2587	U	C5-C4-O4	-7.19	121.58	125.90
85	5	3131	U	C6-N1-C2	7.19	125.31	121.00
36	1	186	U	N3-C4-C5	-7.19	110.29	114.60
36	1	625	G	N1-C2-N2	-7.19	109.73	116.20
36	1	1477	A	C8-N9-C4	-7.19	102.92	105.80
36	1	1713	G	N7-C8-N9	7.19	116.70	113.10
36	1	2851	A	N1-C2-N3	7.19	132.90	129.30
36	1	3275	U	C6-N1-C2	-7.19	116.69	121.00
80	6	448	C	C5-C6-N1	-7.19	117.41	121.00
80	6	558	U	C2-N1-C1'	7.19	126.33	117.70
80	6	1422	A	C8-N9-C4	-7.19	102.92	105.80
80	6	1777	G	C5-C6-N1	-7.19	107.90	111.50
85	5	232	G	N1-C6-O6	-7.19	115.58	119.90
85	5	666	A	N1-C6-N6	-7.19	114.28	118.60
85	5	937	G	C2-N3-C4	-7.19	108.30	111.90
85	5	1805	C	C2-N3-C4	-7.19	116.31	119.90
47	m0	177	ASP	CB-CG-OD1	-7.19	111.83	118.30
36	1	809	G	N1-C2-N3	7.19	128.21	123.90
36	1	2180	G	C4-C5-C6	7.19	123.11	118.80
80	6	947	U	N3-C4-O4	7.19	124.43	119.40
85	5	2204	C	OP1-P-O3'	7.19	121.02	105.20
85	5	2807	U	N3-C4-O4	7.19	124.43	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2431	C	C4-C5-C6	7.19	120.99	117.40
36	1	2810	C	O5'-P-OP2	7.19	119.33	110.70
36	1	2940	A	C5-C6-N6	-7.19	117.95	123.70
38	4	36	G	O5'-P-OP2	7.19	119.33	110.70
40	L3	216	ASP	CB-CG-OD1	7.19	124.77	118.30
80	6	374	U	N1-C2-O2	-7.19	117.77	122.80
80	6	467	G	N1-C6-O6	-7.19	115.59	119.90
85	5	25	U	O5'-P-OP1	7.19	119.32	110.70
85	5	997	A	C5-N7-C8	-7.19	100.31	103.90
85	5	1771	C	N3-C2-O2	-7.19	116.87	121.90
85	5	1888	U	C2-N3-C4	-7.19	122.69	127.00
85	5	2204	C	N3-C4-C5	7.19	124.78	121.90
85	5	2316	G	C6-N1-C2	-7.19	120.79	125.10
85	5	2653	C	C5-C6-N1	7.19	124.59	121.00
85	5	3375	A	N7-C8-N9	7.19	117.39	113.80
1	2	93	A	N9-C4-C5	7.19	108.67	105.80
36	1	947	G	N1-C2-N2	-7.19	109.73	116.20
36	1	2608	G	N1-C2-N2	7.19	122.67	116.20
36	1	3184	A	C5-N7-C8	-7.19	100.31	103.90
80	6	418	G	N1-C2-N2	-7.19	109.73	116.20
80	6	1027	A	C8-N9-C4	7.19	108.67	105.80
85	5	769	G	N7-C8-N9	-7.19	109.51	113.10
85	5	1554	U	C5-C6-N1	7.19	126.29	122.70
1	2	752	A	C2-N3-C4	7.18	114.19	110.60
1	2	955	G	C8-N9-C4	-7.18	103.53	106.40
1	2	1043	U	N1-C2-O2	7.18	127.83	122.80
36	1	628	A	C2-N3-C4	-7.18	107.01	110.60
36	1	1310	G	C5-N7-C8	-7.18	100.71	104.30
36	1	1420	C	N3-C4-C5	-7.18	119.03	121.90
36	1	1654	A	C5-C6-N6	-7.18	117.95	123.70
36	1	2143	A	OP1-P-OP2	-7.18	108.82	119.60
36	1	2697	A	C5-C6-N1	7.18	121.29	117.70
36	1	3299	A	N1-C6-N6	7.18	122.91	118.60
80	6	207	U	N1-C2-N3	-7.18	110.59	114.90
80	6	798	C	C6-N1-C2	-7.18	117.43	120.30
80	6	1737	G	C5-N7-C8	-7.18	100.71	104.30
85	5	283	G	C6-C5-N7	-7.18	126.09	130.40
85	5	370	U	N1-C2-O2	-7.18	117.77	122.80
85	5	904	A	N1-C6-N6	-7.18	114.29	118.60
85	5	1224	C	C6-N1-C2	-7.18	117.43	120.30
85	5	1474	A	C6-C5-N7	-7.18	127.27	132.30
85	5	1496	C	C6-N1-C1'	-7.18	112.18	120.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	103	G	C4-C5-N7	7.18	113.67	110.80
1	2	540	G	C2-N3-C4	7.18	115.49	111.90
36	1	791	A	N9-C4-C5	7.18	108.67	105.80
36	1	931	C	C2-N3-C4	-7.18	116.31	119.90
36	1	2128	C	C2-N3-C4	-7.18	116.31	119.90
36	1	2552	C	N3-C4-N4	-7.18	112.97	118.00
36	1	2902	A	C2-N3-C4	-7.18	107.01	110.60
36	1	2903	A	N7-C8-N9	-7.18	110.21	113.80
36	1	2943	G	N1-C2-N3	7.18	128.21	123.90
38	4	92	A	N3-C4-C5	7.18	131.83	126.80
85	5	1479	U	N3-C2-O2	-7.18	117.17	122.20
85	5	3305	A	N3-C4-N9	-7.18	121.65	127.40
36	1	1741	A	N1-C2-N3	7.18	132.89	129.30
36	1	3103	A	C4-C5-C6	7.18	120.59	117.00
36	1	3199	G	N1-C6-O6	-7.18	115.59	119.90
80	6	370	A	C4-C5-N7	-7.18	107.11	110.70
80	6	898	A	N1-C6-N6	-7.18	114.29	118.60
85	5	1058	U	N3-C4-C5	-7.18	110.29	114.60
36	1	552	G	N1-C2-N3	7.18	128.21	123.90
36	1	1661	G	OP1-P-OP2	-7.18	108.83	119.60
36	1	2412	G	N3-C4-N9	7.18	130.31	126.00
36	1	2699	G	C5-N7-C8	-7.18	100.71	104.30
36	1	2831	G	O5'-P-OP2	7.18	119.32	110.70
36	1	3093	C	OP1-P-O3'	7.18	121.00	105.20
37	3	56	A	O5'-P-OP1	7.18	119.31	110.70
38	4	138	A	C4-C5-N7	7.18	114.29	110.70
85	5	1636	U	C6-N1-C2	7.18	125.31	121.00
85	5	2361	A	C2-N3-C4	7.18	114.19	110.60
85	5	2665	U	N1-C2-O2	-7.18	117.77	122.80
36	1	649	A	N9-C4-C5	-7.18	102.93	105.80
36	1	1388	U	O5'-P-OP2	-7.18	99.24	105.70
85	5	767	U	N3-C2-O2	-7.18	117.18	122.20
85	5	910	G	C5-C6-N1	-7.18	107.91	111.50
85	5	1072	G	N7-C8-N9	7.18	116.69	113.10
85	5	1815	U	N1-C2-N3	-7.18	110.59	114.90
85	5	2347	U	OP1-P-O3'	-7.18	89.41	105.20
1	2	989	C	N1-C2-O2	-7.17	114.60	118.90
1	2	1276	U	N3-C2-O2	7.17	127.22	122.20
36	1	109	A	N1-C2-N3	-7.17	125.71	129.30
36	1	430	U	C6-N1-C2	-7.17	116.69	121.00
36	1	846	A	N1-C2-N3	7.17	132.89	129.30
36	1	1112	A	N7-C8-N9	-7.17	110.21	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1393	A	N7-C8-N9	-7.17	110.21	113.80
85	5	82	C	C5-C6-N1	-7.17	117.41	121.00
85	5	394	G	OP1-P-OP2	7.17	130.36	119.60
85	5	1276	U	N3-C2-O2	-7.17	117.18	122.20
85	5	1323	G	C5-C6-N1	7.17	115.09	111.50
85	5	1600	U	C6-N1-C2	7.17	125.31	121.00
85	5	2728	G	C2-N3-C4	-7.17	108.31	111.90
1	2	977	G	N7-C8-N9	-7.17	109.51	113.10
36	1	199	A	N3-C4-C5	-7.17	121.78	126.80
36	1	1043	C	N3-C4-N4	-7.17	112.98	118.00
36	1	1133	A	N1-C2-N3	7.17	132.89	129.30
36	1	1166	G	C5-C6-N1	-7.17	107.91	111.50
80	6	1155	G	N3-C4-C5	7.17	132.19	128.60
1	2	78	A	N3-C4-C5	-7.17	121.78	126.80
1	2	325	G	C4-C5-C6	7.17	123.10	118.80
1	2	980	G	C8-N9-C4	-7.17	103.53	106.40
36	1	195	U	C6-N1-C2	7.17	125.30	121.00
36	1	262	U	OP1-P-OP2	-7.17	108.84	119.60
36	1	621	A	C2-N3-C4	7.17	114.19	110.60
36	1	858	A	C6-N1-C2	-7.17	114.30	118.60
36	1	2289	U	OP1-P-OP2	-7.17	108.84	119.60
36	1	2946	A	N1-C6-N6	-7.17	114.30	118.60
36	1	3063	C	C2-N3-C4	-7.17	116.31	119.90
36	1	3130	A	N7-C8-N9	7.17	117.39	113.80
36	1	3318	G	C5-C6-O6	7.17	132.90	128.60
47	M0	88	ARG	NE-CZ-NH1	-7.17	116.71	120.30
80	6	259	U	C5-C6-N1	-7.17	119.11	122.70
85	5	188	U	O5'-P-OP2	7.17	119.31	110.70
85	5	252	U	C5-C6-N1	7.17	126.29	122.70
85	5	368	G	C8-N9-C4	-7.17	103.53	106.40
85	5	400	G	C6-C5-N7	-7.17	126.10	130.40
85	5	416	A	N9-C4-C5	7.17	108.67	105.80
85	5	989	A	C5-C6-N1	7.17	121.28	117.70
85	5	1019	G	C4-C5-N7	-7.17	107.93	110.80
85	5	1054	A	OP1-P-O3'	7.17	120.98	105.20
85	5	1613	A	C2-N3-C4	-7.17	107.01	110.60
85	5	2556	C	N1-C2-O2	7.17	123.20	118.90
37	7	8	G	N1-C2-N3	7.17	128.20	123.90
36	1	1153	A	C2-N3-C4	-7.17	107.02	110.60
36	1	2206	G	N9-C4-C5	-7.17	102.53	105.40
85	5	708	G	C2-N3-C4	-7.17	108.31	111.90
85	5	882	A	O5'-P-OP1	-7.17	99.25	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	947	G	OP1-P-OP2	7.17	130.35	119.60
1	2	439	U	N1-C2-N3	7.17	119.20	114.90
1	2	801	C	C2-N3-C4	7.17	123.48	119.90
36	1	547	G	C6-N1-C2	7.17	129.40	125.10
36	1	578	A	C8-N9-C4	7.17	108.67	105.80
36	1	1697	A	C5-C6-N6	7.17	129.44	123.70
36	1	1774	C	N3-C4-C5	7.17	124.77	121.90
80	6	580	A	N1-C6-N6	-7.17	114.30	118.60
80	6	1456	C	N3-C2-O2	-7.17	116.88	121.90
85	5	98	G	N1-C2-N3	7.17	128.20	123.90
85	5	367	A	N1-C2-N3	7.17	132.88	129.30
85	5	531	G	N7-C8-N9	7.17	116.68	113.10
85	5	792	G	N3-C4-C5	7.17	132.18	128.60
85	5	1465	A	C4-C5-C6	7.17	120.58	117.00
85	5	1720	U	N3-C4-C5	-7.17	110.30	114.60
85	5	3345	G	C5-C6-N1	-7.17	107.92	111.50
37	7	12	U	OP2-P-O3'	7.17	120.97	105.20
37	7	90	U	C2-N3-C4	-7.17	122.70	127.00
1	2	153	G	N1-C6-O6	-7.17	115.60	119.90
1	2	981	A	N7-C8-N9	7.17	117.38	113.80
1	2	1115	A	C5-N7-C8	7.17	107.48	103.90
1	2	1714	A	N9-C4-C5	-7.17	102.93	105.80
36	1	757	C	O5'-P-OP2	-7.17	99.25	105.70
36	1	802	C	C2-N1-C1'	7.17	126.68	118.80
36	1	1035	G	N3-C4-C5	-7.17	125.02	128.60
36	1	3216	G	N9-C4-C5	7.17	108.27	105.40
80	6	415	C	N3-C2-O2	-7.17	116.88	121.90
80	6	570	A	C4-C5-N7	7.17	114.28	110.70
85	5	555	U	N3-C4-O4	7.17	124.42	119.40
85	5	1180	A	N7-C8-N9	-7.17	110.22	113.80
85	5	1339	C	C5-C4-N4	-7.17	115.18	120.20
85	5	2414	G	O4'-C1'-N9	-7.17	102.47	108.20
80	6	1759	C	N1-C2-O2	-7.17	114.60	118.90
85	5	1722	U	N3-C2-O2	-7.17	117.19	122.20
85	5	1935	G	C8-N9-C1'	7.17	136.31	127.00
37	7	16	U	C6-N1-C2	7.17	125.30	121.00
1	2	1018	G	N1-C2-N2	-7.16	109.75	116.20
1	2	1226	G	O5'-P-OP2	-7.16	99.25	105.70
36	1	38	U	OP1-P-O3'	7.16	120.96	105.20
36	1	1216	C	O5'-P-OP2	-7.16	99.25	105.70
36	1	1593	A	C4-C5-C6	7.16	120.58	117.00
36	1	1673	G	N1-C2-N3	7.16	128.20	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	M8	138	LEU	CA-CB-CG	7.16	131.78	115.30
80	6	294	C	C2-N3-C4	-7.16	116.32	119.90
80	6	1449	U	C2-N3-C4	7.16	131.30	127.00
85	5	514	G	N3-C2-N2	-7.16	114.89	119.90
85	5	1063	G	C6-C5-N7	-7.16	126.10	130.40
85	5	1512	U	N1-C2-N3	7.16	119.20	114.90
85	5	1515	A	O5'-P-OP1	7.16	119.30	110.70
37	7	118	A	N9-C4-C5	7.16	108.67	105.80
38	8	80	A	P-O3'-C3'	7.16	128.29	119.70
36	1	53	G	C8-N9-C1'	-7.16	117.69	127.00
36	1	906	A	N3-C4-N9	7.16	133.13	127.40
36	1	935	U	O5'-P-OP1	-7.16	99.25	105.70
80	6	369	A	OP1-P-OP2	-7.16	108.86	119.60
80	6	1649	G	C6-N1-C2	7.16	129.40	125.10
85	5	706	A	N1-C2-N3	7.16	132.88	129.30
85	5	2125	A	C4-C5-N7	7.16	114.28	110.70
85	5	2299	A	N1-C6-N6	7.16	122.90	118.60
37	7	33	U	C6-N1-C2	7.16	125.30	121.00
1	2	217	A	C5-C6-N1	-7.16	114.12	117.70
36	1	53	G	C2-N3-C4	-7.16	108.32	111.90
36	1	421	G	O5'-P-OP1	-7.16	99.26	105.70
36	1	1103	A	C5-C6-N1	7.16	121.28	117.70
36	1	2510	U	O5'-P-OP2	-7.16	99.26	105.70
36	1	2828	G	N3-C2-N2	7.16	124.91	119.90
36	1	2875	U	C5-C6-N1	7.16	126.28	122.70
36	1	3232	G	N7-C8-N9	7.16	116.68	113.10
37	3	116	C	C4-C5-C6	-7.16	113.82	117.40
38	4	34	U	OP1-P-O3'	7.16	120.95	105.20
38	4	116	G	N9-C4-C5	-7.16	102.53	105.40
80	6	86	A	C6-N1-C2	-7.16	114.30	118.60
85	5	761	A	C2-N3-C4	7.16	114.18	110.60
85	5	1591	G	C4-C5-N7	-7.16	107.94	110.80
85	5	2093	A	C4-C5-C6	-7.16	113.42	117.00
85	5	2312	A	OP1-P-O3'	7.16	120.95	105.20
85	5	3207	U	C6-N1-C2	-7.16	116.70	121.00
36	1	292	U	N3-C4-O4	7.16	124.41	119.40
36	1	2730	G	O5'-P-OP1	-7.16	99.26	105.70
38	4	1	A	OP1-P-OP2	-7.16	108.86	119.60
38	4	52	A	O5'-P-OP1	-7.16	99.26	105.70
80	6	317	C	C5-C4-N4	-7.16	115.19	120.20
80	6	561	G	C6-C5-N7	-7.16	126.11	130.40
85	5	30	G	C6-C5-N7	-7.16	126.11	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	537	A	OP2-P-O3'	7.16	120.95	105.20
85	5	1838	G	C5-N7-C8	-7.16	100.72	104.30
1	2	705	G	C8-N9-C4	-7.16	103.54	106.40
36	1	742	G	N3-C2-N2	-7.16	114.89	119.90
36	1	1287	A	N7-C8-N9	7.16	117.38	113.80
36	1	1315	U	O5'-P-OP2	-7.16	99.26	105.70
36	1	1949	G	C2-N3-C4	7.16	115.48	111.90
36	1	2852	C	C2-N3-C4	-7.16	116.32	119.90
36	1	3289	G	C5-C6-N1	7.16	115.08	111.50
37	3	75	G	C8-N9-C4	7.16	109.26	106.40
36	1	364	G	C8-N9-C4	7.16	109.26	106.40
36	1	535	G	N1-C6-O6	7.16	124.19	119.90
36	1	637	C	C6-N1-C2	7.16	123.16	120.30
36	1	1070	U	OP1-P-OP2	-7.16	108.87	119.60
36	1	1203	A	C4-C5-C6	-7.16	113.42	117.00
36	1	1832	C	C5-C6-N1	7.16	124.58	121.00
36	1	2434	U	C5-C6-N1	-7.16	119.12	122.70
80	6	863	A	N1-C6-N6	7.16	122.89	118.60
80	6	934	C	C2-N1-C1'	7.16	126.67	118.80
85	5	24	G	C2-N3-C4	7.16	115.48	111.90
85	5	395	A	O5'-P-OP2	-7.16	99.26	105.70
85	5	1080	A	C5-C6-N1	-7.16	114.12	117.70
85	5	1715	A	C5-N7-C8	-7.16	100.32	103.90
85	5	2620	G	N3-C4-N9	-7.16	121.71	126.00
85	5	3065	G	N3-C4-N9	-7.16	121.71	126.00
1	2	1599	G	C5-C6-O6	-7.15	124.31	128.60
36	1	527	A	OP1-P-OP2	-7.15	108.87	119.60
36	1	1323	G	N3-C4-C5	-7.15	125.02	128.60
36	1	2639	G	N1-C6-O6	7.15	124.19	119.90
36	1	3222	U	N1-C2-O2	-7.15	117.79	122.80
80	6	953	G	N7-C8-N9	-7.15	109.52	113.10
85	5	1166	G	N1-C2-N3	7.15	128.19	123.90
85	5	2630	C	C5-C6-N1	7.15	124.58	121.00
1	2	635	A	C2-N3-C4	-7.15	107.02	110.60
1	2	752	A	C5-C6-N1	7.15	121.28	117.70
1	2	1094	G	N3-C4-C5	7.15	132.18	128.60
1	2	1556	A	P-O3'-C3'	7.15	128.28	119.70
36	1	154	U	N3-C4-C5	-7.15	110.31	114.60
36	1	299	G	N1-C2-N3	-7.15	119.61	123.90
36	1	1748	G	N3-C2-N2	-7.15	114.89	119.90
36	1	1892	G	C5-C6-N1	7.15	115.08	111.50
36	1	2174	G	C5-N7-C8	-7.15	100.72	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	2	A	C5-C6-N6	7.15	129.42	123.70
80	6	366	A	C8-N9-C4	7.15	108.66	105.80
80	6	471	A	C4-C5-C6	7.15	120.58	117.00
80	6	1046	G	C8-N9-C4	7.15	109.26	106.40
80	6	1209	C	N1-C2-O2	-7.15	114.61	118.90
85	5	341	G	C2-N3-C4	-7.15	108.32	111.90
85	5	425	G	N3-C2-N2	-7.15	114.89	119.90
85	5	1929	G	C4-C5-N7	7.15	113.66	110.80
1	2	596	C	N3-C4-N4	7.15	123.01	118.00
1	2	1369	G	C5-C6-N1	-7.15	107.92	111.50
1	2	1572	C	C5-C4-N4	7.15	125.20	120.20
36	1	17	G	C4-C5-C6	-7.15	114.51	118.80
36	1	787	G	OP1-P-O3'	7.15	120.93	105.20
36	1	1303	A	C5-C6-N1	7.15	121.28	117.70
36	1	1307	G	N7-C8-N9	-7.15	109.53	113.10
36	1	1740	U	C5-C6-N1	-7.15	119.12	122.70
36	1	2407	C	C2-N3-C4	-7.15	116.33	119.90
37	3	99	G	N7-C8-N9	7.15	116.68	113.10
38	4	50	C	N3-C4-N4	7.15	123.00	118.00
38	4	114	G	C6-N1-C2	7.15	129.39	125.10
80	6	1000	C	C6-N1-C1'	-7.15	112.22	120.80
80	6	1081	A	N1-C6-N6	7.15	122.89	118.60
80	6	1155	G	C5-C6-N1	7.15	115.08	111.50
80	6	1198	G	N3-C4-C5	7.15	132.18	128.60
85	5	294	U	N3-C2-O2	7.15	127.20	122.20
85	5	635	G	N3-C4-C5	7.15	132.18	128.60
85	5	812	G	C4-C5-N7	-7.15	107.94	110.80
85	5	911	C	N3-C2-O2	7.15	126.91	121.90
85	5	1510	G	OP2-P-O3'	7.15	120.93	105.20
85	5	1707	A	N9-C4-C5	7.15	108.66	105.80
85	5	1777	U	N3-C2-O2	-7.15	117.19	122.20
85	5	1920	U	C5-C4-O4	7.15	130.19	125.90
85	5	2738	A	O5'-P-OP1	7.15	119.28	110.70
1	2	999	C	C6-N1-C2	-7.15	117.44	120.30
1	2	1585	C	N3-C4-C5	7.15	124.76	121.90
1	2	1596	U	C6-N1-C2	7.15	125.29	121.00
36	1	437	G	C4-C5-C6	-7.15	114.51	118.80
36	1	869	G	O5'-P-OP1	7.15	119.28	110.70
36	1	1871	U	C6-N1-C2	-7.15	116.71	121.00
36	1	2381	G	C5-N7-C8	-7.15	100.72	104.30
36	1	3300	U	N1-C2-O2	-7.15	117.80	122.80
85	5	742	G	C5-C6-N1	7.15	115.07	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1405	U	C5-C6-N1	-7.15	119.12	122.70
85	5	1541	G	C8-N9-C4	7.15	109.26	106.40
85	5	2525	G	N1-C6-O6	-7.15	115.61	119.90
85	5	3375	A	N1-C2-N3	7.15	132.87	129.30
42	15	21	ARG	NE-CZ-NH1	-7.15	116.73	120.30
36	1	824	C	N1-C2-O2	7.15	123.19	118.90
36	1	1041	U	O5'-P-OP2	-7.15	99.27	105.70
36	1	1706	C	C4-C5-C6	7.15	120.97	117.40
36	1	3041	U	C5-C4-O4	7.15	130.19	125.90
37	3	64	A	C2-N3-C4	7.15	114.17	110.60
80	6	15	U	C2-N3-C4	-7.15	122.71	127.00
80	6	1142	A	N9-C4-C5	7.15	108.66	105.80
85	5	328	U	OP1-P-OP2	-7.15	108.88	119.60
85	5	1702	U	C6-N1-C2	-7.15	116.71	121.00
1	2	884	G	C5-N7-C8	-7.15	100.73	104.30
36	1	1089	G	C5-N7-C8	7.15	107.87	104.30
85	5	2260	U	N1-C2-O2	-7.15	117.80	122.80
85	5	3172	A	OP1-P-OP2	7.15	130.32	119.60
85	5	3314	A	OP2-P-O3'	7.15	120.92	105.20
36	1	1161	G	N7-C8-N9	7.14	116.67	113.10
36	1	1385	C	O5'-P-OP2	-7.14	99.27	105.70
36	1	1416	C	N1-C2-O2	7.14	123.19	118.90
38	4	153	U	C5-C6-N1	-7.14	119.13	122.70
80	6	1513	G	N9-C4-C5	7.14	108.26	105.40
85	5	1281	G	C5-C6-N1	7.14	115.07	111.50
85	5	1307	G	N3-C4-C5	-7.14	125.03	128.60
85	5	1874	A	OP2-P-O3'	7.14	120.92	105.20
85	5	2411	U	C5-C6-N1	-7.14	119.13	122.70
85	5	2519	A	N1-C2-N3	7.14	132.87	129.30
85	5	3234	A	C5-N7-C8	7.14	107.47	103.90
1	2	18	C	C5-C6-N1	7.14	124.57	121.00
1	2	411	C	O5'-P-OP1	-7.14	99.27	105.70
36	1	108	A	OP2-P-O3'	7.14	120.92	105.20
36	1	340	C	N3-C2-O2	-7.14	116.90	121.90
36	1	1588	A	N7-C8-N9	-7.14	110.23	113.80
36	1	3210	A	N1-C2-N3	7.14	132.87	129.30
85	5	26	A	C8-N9-C4	7.14	108.66	105.80
85	5	1613	A	N1-C6-N6	7.14	122.89	118.60
85	5	2506	U	N1-C2-N3	-7.14	110.61	114.90
85	5	2624	G	C5-C6-O6	-7.14	124.31	128.60
1	2	350	U	C5-C6-N1	-7.14	119.13	122.70
36	1	1748	G	C2-N3-C4	-7.14	108.33	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2971	A	N1-C2-N3	7.14	132.87	129.30
36	1	3370	A	N7-C8-N9	7.14	117.37	113.80
80	6	243	G	C4-C5-N7	7.14	113.66	110.80
80	6	758	U	N1-C2-O2	7.14	127.80	122.80
85	5	773	G	C4-C5-C6	7.14	123.08	118.80
85	5	917	A	C6-C5-N7	-7.14	127.30	132.30
85	5	1531	C	C6-N1-C2	-7.14	117.44	120.30
85	5	2320	A	N3-C4-N9	-7.14	121.69	127.40
1	2	1110	G	N9-C4-C5	7.14	108.26	105.40
36	1	846	A	N1-C6-N6	7.14	122.88	118.60
36	1	1412	G	N1-C2-N3	7.14	128.18	123.90
36	1	1753	G	C5-N7-C8	-7.14	100.73	104.30
36	1	1892	G	N1-C6-O6	-7.14	115.62	119.90
36	1	2733	A	N1-C6-N6	7.14	122.88	118.60
80	6	431	C	C5-C4-N4	7.14	125.20	120.20
85	5	852	U	N1-C2-O2	-7.14	117.80	122.80
85	5	1032	C	N1-C2-N3	-7.14	114.20	119.20
85	5	1473	G	C2-N3-C4	-7.14	108.33	111.90
85	5	1929	G	C6-C5-N7	-7.14	126.12	130.40
1	2	1091	G	C8-N9-C4	-7.14	103.55	106.40
36	1	639	G	N1-C6-O6	7.14	124.18	119.90
36	1	1209	G	OP2-P-O3'	7.14	120.90	105.20
36	1	3197	G	N3-C4-N9	-7.14	121.72	126.00
38	4	92	A	C6-C5-N7	-7.14	127.30	132.30
80	6	467	G	N1-C2-N3	7.14	128.18	123.90
80	6	1732	A	O5'-P-OP1	-7.14	99.28	105.70
85	5	2976	A	C8-N9-C4	-7.14	102.94	105.80
1	2	635	A	C5-N7-C8	-7.14	100.33	103.90
1	2	1769	G	N3-C2-N2	-7.14	114.91	119.90
36	1	206	G	N1-C6-O6	7.14	124.18	119.90
36	1	354	U	N3-C2-O2	-7.14	117.20	122.20
36	1	528	U	N1-C2-N3	-7.14	110.62	114.90
36	1	720	A	C5-C6-N1	7.14	121.27	117.70
36	1	984	G	C6-N1-C2	-7.14	120.82	125.10
36	1	3348	G	C8-N9-C4	7.14	109.25	106.40
38	4	64	U	C4-C5-C6	7.14	123.98	119.70
85	5	2353	G	N3-C4-N9	7.14	130.28	126.00
85	5	2797	C	N3-C2-O2	7.14	126.90	121.90
1	2	1583	A	C6-C5-N7	-7.13	127.31	132.30
36	1	1002	A	N1-C6-N6	7.13	122.88	118.60
36	1	1013	G	C5-N7-C8	-7.13	100.73	104.30
36	1	1191	U	C6-N1-C2	7.13	125.28	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1319	G	C5-N7-C8	-7.13	100.73	104.30
36	1	2314	U	C5-C6-N1	7.13	126.27	122.70
36	1	2511	A	N1-C2-N3	7.13	132.87	129.30
36	1	3144	G	N1-C6-O6	7.13	124.18	119.90
36	1	3286	G	N3-C4-C5	-7.13	125.03	128.60
80	6	1136	U	OP1-P-OP2	-7.13	108.90	119.60
80	6	1261	G	C8-N9-C4	7.13	109.25	106.40
85	5	1170	A	C8-N9-C1'	-7.13	114.86	127.70
85	5	2153	U	N3-C2-O2	7.13	127.19	122.20
85	5	2355	G	C4-C5-C6	7.13	123.08	118.80
85	5	2648	G	N1-C2-N3	7.13	128.18	123.90
37	7	95	A	N9-C4-C5	7.13	108.65	105.80
36	1	408	A	C5-C6-N6	7.13	129.41	123.70
69	O3	29	LEU	CB-CG-CD2	-7.13	98.87	111.00
80	6	103	A	OP2-P-O3'	7.13	120.89	105.20
85	5	660	A	OP1-P-OP2	7.13	130.30	119.60
85	5	664	U	OP2-P-O3'	7.13	120.89	105.20
85	5	718	G	C4-C5-N7	7.13	113.65	110.80
85	5	3308	C	O5'-P-OP1	7.13	119.26	110.70
1	2	267	U	N3-C2-O2	-7.13	117.21	122.20
1	2	700	C	C2-N3-C4	7.13	123.47	119.90
1	2	929	U	C4-C5-C6	7.13	123.98	119.70
36	1	1001	G	N1-C6-O6	-7.13	115.62	119.90
36	1	2273	G	N9-C4-C5	-7.13	102.55	105.40
36	1	2714	G	N7-C8-N9	7.13	116.67	113.10
36	1	2809	C	OP2-P-O3'	7.13	120.89	105.20
36	1	2896	A	N1-C6-N6	7.13	122.88	118.60
36	1	3047	U	C5-C4-O4	7.13	130.18	125.90
36	1	3156	U	N3-C2-O2	7.13	127.19	122.20
36	1	3200	G	C5-C6-N1	-7.13	107.93	111.50
80	6	420	A	N9-C4-C5	7.13	108.65	105.80
85	5	7	C	N1-C2-O2	-7.13	114.62	118.90
85	5	105	C	C6-N1-C2	7.13	123.15	120.30
85	5	415	G	OP1-P-OP2	-7.13	108.90	119.60
85	5	1154	A	N1-C6-N6	-7.13	114.32	118.60
85	5	2843	U	C5-C6-N1	-7.13	119.13	122.70
85	5	3198	U	N1-C2-N3	-7.13	110.62	114.90
85	5	3221	C	C4-C5-C6	7.13	120.97	117.40
36	1	194	U	C5-C4-O4	-7.13	121.62	125.90
36	1	1835	A	N1-C6-N6	-7.13	114.32	118.60
36	1	1870	C	N3-C4-C5	-7.13	119.05	121.90
36	1	2232	A	OP1-P-OP2	7.13	130.30	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3047	U	O5'-P-OP1	-7.13	99.28	105.70
85	5	982	C	C5-C4-N4	-7.13	115.21	120.20
1	2	103	A	N1-C6-N6	7.13	122.88	118.60
36	1	107	A	C5-C6-N6	-7.13	118.00	123.70
36	1	346	C	C6-N1-C2	7.13	123.15	120.30
36	1	776	U	C5-C4-O4	7.13	130.18	125.90
38	4	34	U	C2-N3-C4	-7.13	122.72	127.00
85	5	845	G	C5-C6-O6	-7.13	124.32	128.60
85	5	1100	U	N1-C2-N3	7.13	119.18	114.90
85	5	1604	G	OP2-P-O3'	7.13	120.88	105.20
85	5	2161	G	C2-N3-C4	7.13	115.46	111.90
85	5	2655	U	N1-C2-O2	7.13	127.79	122.80
85	5	2784	G	C5-C6-O6	7.13	132.88	128.60
85	5	3303	G	C5-C6-N1	7.13	115.06	111.50
85	5	3307	A	C4-C5-C6	7.13	120.56	117.00
37	7	116	C	C4-C5-C6	-7.13	113.84	117.40
1	2	404	G	N7-C8-N9	-7.13	109.54	113.10
1	2	1464	C	C6-N1-C2	-7.13	117.45	120.30
36	1	89	A	N3-C4-C5	-7.13	121.81	126.80
36	1	156	G	C6-N1-C2	-7.13	120.82	125.10
36	1	241	G	N7-C8-N9	-7.13	109.54	113.10
36	1	680	G	N7-C8-N9	-7.13	109.54	113.10
36	1	1682	U	O5'-P-OP1	-7.13	99.28	105.70
36	1	2512	C	OP1-P-OP2	-7.13	108.91	119.60
36	1	3004	C	OP1-P-O3'	7.13	120.88	105.20
36	1	3140	G	N3-C4-C5	-7.13	125.04	128.60
36	1	3230	G	C5-N7-C8	-7.13	100.74	104.30
85	5	402	A	C2-N3-C4	7.13	114.16	110.60
85	5	2279	A	C6-N1-C2	-7.13	114.32	118.60
85	5	2995	A	N3-C4-C5	-7.13	121.81	126.80
85	5	3179	U	C4-C5-C6	7.13	123.98	119.70
1	2	356	G	C5-N7-C8	-7.12	100.74	104.30
1	2	1764	A	N1-C2-N3	7.12	132.86	129.30
36	1	2137	U	C2-N1-C1'	7.12	126.25	117.70
36	1	2272	G	OP1-P-O3'	7.12	120.88	105.20
36	1	2374	C	O5'-P-OP2	-7.12	99.29	105.70
85	5	1771	C	C2-N3-C4	-7.12	116.34	119.90
36	1	374	A	C5-C6-N6	7.12	129.40	123.70
36	1	408	A	N3-C4-C5	-7.12	121.81	126.80
38	4	45	C	O5'-P-OP2	-7.12	99.29	105.70
85	5	726	G	C5-C6-O6	-7.12	124.33	128.60
85	5	2631	U	OP1-P-O3'	7.12	120.87	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2938	G	N1-C6-O6	-7.12	115.63	119.90
85	5	3269	U	C5-C6-N1	-7.12	119.14	122.70
37	7	76	A	N1-C6-N6	7.12	122.87	118.60
36	1	613	G	C5-C6-N1	-7.12	107.94	111.50
36	1	756	U	C4-C5-C6	7.12	123.97	119.70
36	1	844	G	C2-N3-C4	-7.12	108.34	111.90
36	1	1400	G	C4-C5-C6	7.12	123.07	118.80
36	1	1702	U	C5-C6-N1	7.12	126.26	122.70
36	1	2157	G	N3-C4-N9	7.12	130.27	126.00
36	1	2199	G	C5-C6-N1	-7.12	107.94	111.50
36	1	2898	G	C4-C5-C6	7.12	123.07	118.80
36	1	3239	G	N3-C2-N2	-7.12	114.91	119.90
85	5	1178	G	N3-C4-N9	7.12	130.27	126.00
85	5	1758	G	N3-C4-C5	7.12	132.16	128.60
85	5	2324	A	C4-C5-N7	7.12	114.26	110.70
85	5	2432	A	N1-C2-N3	7.12	132.86	129.30
85	5	3123	A	N1-C2-N3	7.12	132.86	129.30
85	5	3140	G	C5-C6-O6	7.12	132.87	128.60
36	1	124	U	C6-N1-C2	-7.12	116.73	121.00
36	1	1350	A	C2-N3-C4	7.12	114.16	110.60
36	1	3338	C	OP2-P-O3'	7.12	120.86	105.20
85	5	317	A	OP1-P-OP2	7.12	130.28	119.60
85	5	722	G	C5-C6-N1	-7.12	107.94	111.50
85	5	905	U	N3-C4-C5	-7.12	110.33	114.60
85	5	2590	A	C6-C5-N7	-7.12	127.32	132.30
85	5	2981	U	C2-N1-C1'	7.12	126.24	117.70
1	2	1091	G	N1-C2-N3	7.12	128.17	123.90
36	1	511	G	N1-C2-N3	7.12	128.17	123.90
36	1	848	A	N7-C8-N9	-7.12	110.24	113.80
36	1	1547	G	C5-N7-C8	7.12	107.86	104.30
36	1	1698	C	C4-C5-C6	7.12	120.96	117.40
36	1	1945	A	N7-C8-N9	7.12	117.36	113.80
36	1	3030	G	C4-C5-C6	7.12	123.07	118.80
39	L2	37	ARG	NE-CZ-NH2	-7.12	116.74	120.30
80	6	190	C	N1-C2-N3	-7.12	114.22	119.20
85	5	304	G	N3-C4-C5	-7.12	125.04	128.60
85	5	2631	U	N1-C2-N3	7.12	119.17	114.90
85	5	2671	A	C2-N3-C4	-7.12	107.04	110.60
85	5	2687	G	O5'-P-OP1	7.12	119.24	110.70
85	5	3288	G	O5'-P-OP2	-7.12	99.29	105.70
1	2	1521	U	N1-C2-N3	7.12	119.17	114.90
36	1	2240	G	C4-C5-N7	7.12	113.65	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2697	A	OP1-P-OP2	7.12	130.28	119.60
36	1	3316	A	C2-N3-C4	-7.12	107.04	110.60
80	6	760	A	C2-N3-C4	-7.12	107.04	110.60
85	5	1313	G	N3-C2-N2	-7.12	114.92	119.90
85	5	2602	G	N1-C2-N2	-7.12	109.80	116.20
1	2	1007	U	OP2-P-O3'	7.12	120.86	105.20
1	2	1417	U	C6-N1-C2	-7.12	116.73	121.00
1	2	1571	G	C8-N9-C4	7.12	109.25	106.40
36	1	89	A	C6-N1-C2	-7.12	114.33	118.60
36	1	1431	G	OP1-P-OP2	7.12	130.27	119.60
36	1	1543	G	N1-C6-O6	7.12	124.17	119.90
36	1	2932	U	C5-C4-O4	7.12	130.17	125.90
37	3	116	C	C5-C4-N4	-7.12	115.22	120.20
80	6	1745	G	N1-C2-N3	7.12	128.17	123.90
85	5	432	G	C4-C5-N7	-7.12	107.95	110.80
85	5	718	G	C4-N9-C1'	7.12	135.75	126.50
85	5	907	G	N3-C4-N9	7.12	130.27	126.00
85	5	1009	A	N7-C8-N9	7.12	117.36	113.80
85	5	1107	C	C2-N3-C4	-7.12	116.34	119.90
85	5	2518	C	C6-N1-C2	-7.12	117.45	120.30
85	5	3076	C	C2-N3-C4	-7.12	116.34	119.90
1	2	1035	U	N1-C2-O2	7.11	127.78	122.80
36	1	268	A	C6-N1-C2	-7.11	114.33	118.60
36	1	2097	U	C5-C6-N1	7.11	126.26	122.70
36	1	2414	G	O5'-P-OP2	-7.11	99.30	105.70
80	6	1488	G	C5-C6-N1	7.11	115.06	111.50
85	5	574	U	C2-N3-C4	7.11	131.27	127.00
85	5	695	C	OP1-P-OP2	-7.11	108.93	119.60
85	5	1141	C	C2-N3-C4	-7.11	116.34	119.90
85	5	2721	A	N1-C6-N6	-7.11	114.33	118.60
36	1	112	U	O5'-P-OP2	7.11	119.23	110.70
36	1	719	U	N1-C2-N3	-7.11	110.63	114.90
36	1	1400	G	C2-N3-C4	-7.11	108.34	111.90
36	1	2956	A	C4-C5-C6	7.11	120.56	117.00
37	3	103	A	C6-N1-C2	-7.11	114.33	118.60
80	6	152	U	N1-C2-O2	7.11	127.78	122.80
85	5	1117	G	C5-C6-N1	7.11	115.06	111.50
85	5	1152	G	C5-C6-O6	-7.11	124.33	128.60
85	5	1215	U	N3-C2-O2	7.11	127.18	122.20
85	5	2663	G	C4-C5-N7	7.11	113.64	110.80
85	5	3300	U	OP1-P-OP2	7.11	130.27	119.60
1	2	372	G	C4-C5-N7	-7.11	107.96	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	398	A	C8-N9-C4	7.11	108.64	105.80
36	1	2376	G	OP1-P-OP2	7.11	130.27	119.60
85	5	402	A	C5-N7-C8	7.11	107.45	103.90
85	5	703	G	C6-C5-N7	-7.11	126.13	130.40
85	5	1842	A	C5-N7-C8	-7.11	100.34	103.90
85	5	1851	G	N3-C4-C5	7.11	132.16	128.60
85	5	2874	G	C8-N9-C4	-7.11	103.56	106.40
85	5	3372	A	C6-N1-C2	-7.11	114.33	118.60
1	2	826	U	C5-C6-N1	7.11	126.25	122.70
36	1	1672	U	C2-N3-C4	7.11	131.26	127.00
38	4	95	G	N9-C4-C5	-7.11	102.56	105.40
80	6	1199	G	C5-C6-O6	-7.11	124.33	128.60
85	5	94	G	N3-C4-C5	7.11	132.16	128.60
85	5	179	C	N3-C2-O2	-7.11	116.92	121.90
85	5	1402	C	N1-C2-O2	-7.11	114.63	118.90
85	5	1891	A	N9-C4-C5	7.11	108.64	105.80
85	5	2123	G	O4'-C1'-N9	-7.11	102.51	108.20
36	1	606	C	C5-C6-N1	-7.11	117.45	121.00
36	1	1059	G	N3-C4-C5	7.11	132.15	128.60
36	1	1129	A	C5-C6-N1	7.11	121.25	117.70
36	1	1412	G	N3-C2-N2	-7.11	114.92	119.90
36	1	1466	G	N1-C2-N3	7.11	128.16	123.90
36	1	1776	G	C4-C5-N7	7.11	113.64	110.80
36	1	1881	A	N9-C4-C5	-7.11	102.96	105.80
38	4	95	G	O5'-P-OP2	-7.11	99.30	105.70
80	6	1030	A	O4'-C1'-N9	-7.11	102.51	108.20
85	5	933	A	N7-C8-N9	-7.11	110.25	113.80
85	5	1143	A	N9-C4-C5	-7.11	102.96	105.80
85	5	1915	A	OP2-P-O3'	7.11	120.83	105.20
85	5	2231	C	O4'-C1'-N1	7.11	113.89	108.20
85	5	2751	G	C8-N9-C1'	7.11	136.24	127.00
85	5	2777	G	C4-C5-C6	7.11	123.06	118.80
85	5	2959	C	N3-C2-O2	-7.11	116.92	121.90
85	5	2967	A	C2-N3-C4	7.11	114.15	110.60
36	1	125	C	C6-N1-C2	7.11	123.14	120.30
36	1	935	U	C6-N1-C2	-7.11	116.74	121.00
36	1	956	U	N1-C2-N3	7.11	119.16	114.90
36	1	2296	A	C8-N9-C4	7.11	108.64	105.80
37	3	46	A	N1-C6-N6	-7.11	114.34	118.60
80	6	21	U	N3-C4-O4	7.11	124.37	119.40
82	c7	87	GLU	O-C-N	7.11	134.07	122.70
85	5	49	A	C6-N1-C2	-7.11	114.34	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3012	A	OP1-P-OP2	-7.11	108.94	119.60
85	5	3126	C	N3-C4-C5	7.11	124.74	121.90
37	7	76	A	N9-C4-C5	-7.11	102.96	105.80
36	1	46	U	O5'-P-OP2	-7.10	99.31	105.70
36	1	755	A	C2-N3-C4	7.10	114.15	110.60
36	1	1297	C	N1-C2-N3	7.10	124.17	119.20
36	1	1640	G	C6-N1-C2	-7.10	120.84	125.10
36	1	2827	U	N3-C2-O2	-7.10	117.23	122.20
80	6	157	A	C5-C6-N1	7.10	121.25	117.70
85	5	606	C	OP1-P-OP2	7.10	130.25	119.60
85	5	878	G	C6-N1-C2	-7.10	120.84	125.10
85	5	2528	G	C8-N9-C4	-7.10	103.56	106.40
1	2	34	G	N1-C6-O6	-7.10	115.64	119.90
1	2	54	C	N3-C2-O2	-7.10	116.93	121.90
1	2	1107	A	C6-N1-C2	7.10	122.86	118.60
36	1	1704	A	N1-C6-N6	-7.10	114.34	118.60
36	1	2241	U	O5'-P-OP1	-7.10	99.31	105.70
36	1	2591	A	C5-N7-C8	-7.10	100.35	103.90
36	1	2948	C	N3-C4-C5	7.10	124.74	121.90
38	4	79	A	N7-C8-N9	-7.10	110.25	113.80
80	6	861	U	C5-C4-O4	-7.10	121.64	125.90
80	6	1735	U	C5-C6-N1	-7.10	119.15	122.70
85	5	154	U	C2-N3-C4	7.10	131.26	127.00
85	5	1162	U	N3-C4-C5	-7.10	110.34	114.60
85	5	1862	U	N1-C1'-C2'	7.10	123.23	114.00
85	5	2135	U	N1-C2-N3	7.10	119.16	114.90
85	5	3183	A	O5'-P-OP2	-7.10	99.31	105.70
65	n9	13	THR	CA-CB-CG2	-7.10	102.46	112.40
41	L4	179	LEU	CB-CG-CD2	-7.10	98.93	111.00
85	5	129	U	C5-C6-N1	7.10	126.25	122.70
85	5	534	U	OP1-P-OP2	7.10	130.25	119.60
85	5	679	U	N3-C4-C5	-7.10	110.34	114.60
85	5	2205	U	O4'-C1'-N1	7.10	113.88	108.20
85	5	2610	G	O5'-P-OP1	7.10	119.22	110.70
85	5	2715	A	N1-C2-N3	7.10	132.85	129.30
1	2	1076	A	C2-N3-C4	-7.10	107.05	110.60
36	1	269	G	N3-C4-N9	-7.10	121.74	126.00
36	1	664	U	OP2-P-O3'	7.10	120.82	105.20
36	1	1675	G	N9-C4-C5	-7.10	102.56	105.40
36	1	2596	U	N3-C4-O4	7.10	124.37	119.40
36	1	2818	U	OP2-P-O3'	7.10	120.82	105.20
36	1	3150	A	C5-N7-C8	-7.10	100.35	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3182	G	C8-N9-C4	7.10	109.24	106.40
80	6	373	G	O4'-C1'-N9	-7.10	102.52	108.20
80	6	816	G	C5-C6-O6	-7.10	124.34	128.60
80	6	1410	A	C5-C6-N1	-7.10	114.15	117.70
85	5	382	U	O5'-P-OP1	7.10	119.22	110.70
85	5	1775	G	N1-C2-N3	-7.10	119.64	123.90
85	5	2662	G	OP1-P-O3'	-7.10	89.58	105.20
36	1	39	A	OP2-P-O3'	7.10	120.81	105.20
36	1	92	G	N3-C2-N2	7.10	124.87	119.90
36	1	232	G	N1-C2-N2	-7.10	109.81	116.20
36	1	1355	A	C5-N7-C8	7.10	107.45	103.90
36	1	1708	C	C4-C5-C6	7.10	120.95	117.40
36	1	2285	C	C5-C4-N4	7.10	125.17	120.20
36	1	2319	U	N1-C2-N3	7.10	119.16	114.90
36	1	2403	G	N7-C8-N9	7.10	116.65	113.10
36	1	2422	C	C6-N1-C2	-7.10	117.46	120.30
36	1	2443	A	N9-C4-C5	-7.10	102.96	105.80
36	1	2516	U	N3-C2-O2	7.10	127.17	122.20
36	1	2692	A	O5'-P-OP2	7.10	119.22	110.70
36	1	2700	G	C5-C6-O6	-7.10	124.34	128.60
36	1	2708	C	N1-C2-O2	7.10	123.16	118.90
85	5	59	G	C8-N9-C4	-7.10	103.56	106.40
85	5	303	G	OP1-P-O3'	7.10	120.81	105.20
85	5	884	A	N9-C4-C5	-7.10	102.96	105.80
85	5	907	G	C8-N9-C4	7.10	109.24	106.40
85	5	1106	G	C5-C6-O6	-7.10	124.34	128.60
85	5	1605	A	C5-C6-N1	7.10	121.25	117.70
85	5	1640	G	C6-N1-C2	-7.10	120.84	125.10
85	5	2185	G	C4-C5-N7	-7.10	107.96	110.80
85	5	2700	G	O4'-C1'-N9	-7.10	102.52	108.20
85	5	2864	A	C6-N1-C2	-7.10	114.34	118.60
85	5	2991	A	N1-C2-N3	7.10	132.85	129.30
1	2	426	G	N1-C2-N3	7.10	128.16	123.90
1	2	553	G	C5-N7-C8	-7.10	100.75	104.30
36	1	3372	A	N1-C6-N6	-7.10	114.34	118.60
85	5	364	G	C5-N7-C8	-7.10	100.75	104.30
85	5	1016	C	C5-C6-N1	7.10	124.55	121.00
85	5	3028	G	OP1-P-O3'	7.10	120.81	105.20
1	2	334	G	O5'-P-OP2	-7.09	99.31	105.70
36	1	373	A	C6-N1-C2	-7.09	114.34	118.60
36	1	423	A	N7-C8-N9	7.09	117.35	113.80
36	1	804	C	N1-C2-N3	-7.09	114.23	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1582	C	N3-C2-O2	-7.09	116.93	121.90
36	1	3324	C	C2-N3-C4	-7.09	116.35	119.90
38	4	144	G	C6-C5-N7	7.09	134.66	130.40
85	5	1207	G	N1-C6-O6	-7.09	115.64	119.90
38	8	25	G	C6-N1-C2	-7.09	120.84	125.10
1	2	1567	G	N1-C2-N2	-7.09	109.82	116.20
36	1	376	G	N3-C4-C5	7.09	132.15	128.60
36	1	3186	A	N1-C6-N6	-7.09	114.34	118.60
36	1	3237	U	N3-C2-O2	-7.09	117.23	122.20
80	6	104	A	C8-N9-C4	-7.09	102.96	105.80
85	5	304	G	C4-C5-C6	7.09	123.06	118.80
85	5	1126	G	N3-C4-N9	-7.09	121.74	126.00
1	2	1255	U	OP1-P-OP2	-7.09	108.96	119.60
36	1	1263	A	C2-N3-C4	7.09	114.15	110.60
36	1	1447	G	C5-C6-O6	7.09	132.85	128.60
36	1	1525	G	C6-N1-C2	-7.09	120.84	125.10
36	1	1730	G	C4-C5-N7	-7.09	107.96	110.80
36	1	2417	U	C2-N3-C4	-7.09	122.75	127.00
36	1	3134	A	C8-N9-C4	7.09	108.64	105.80
36	1	3230	G	C4-C5-N7	7.09	113.64	110.80
38	4	139	U	C4-C5-C6	7.09	123.95	119.70
42	L5	35	ARG	NE-CZ-NH2	-7.09	116.75	120.30
80	6	55	A	N7-C8-N9	7.09	117.34	113.80
80	6	204	G	C8-N9-C1'	7.09	136.22	127.00
80	6	307	G	OP2-P-O3'	7.09	120.80	105.20
80	6	404	G	N1-C6-O6	-7.09	115.64	119.90
85	5	207	U	N3-C4-C5	7.09	118.85	114.60
85	5	828	A	O5'-P-OP2	-7.09	99.32	105.70
85	5	1348	U	N1-C2-N3	-7.09	110.64	114.90
85	5	1492	G	C5-N7-C8	-7.09	100.75	104.30
85	5	1788	C	C2-N1-C1'	7.09	126.60	118.80
85	5	1848	G	C5-C6-N1	7.09	115.05	111.50
85	5	2637	A	N7-C8-N9	7.09	117.35	113.80
1	2	1311	G	N9-C4-C5	-7.09	102.56	105.40
36	1	1226	G	C5-C6-N1	-7.09	107.95	111.50
36	1	1269	U	C2-N1-C1'	7.09	126.21	117.70
36	1	1348	U	C5-C4-O4	-7.09	121.65	125.90
36	1	1727	G	N7-C8-N9	7.09	116.64	113.10
40	L3	327	CYS	CA-CB-SG	-7.09	101.24	114.00
42	L5	108	ARG	NE-CZ-NH2	-7.09	116.75	120.30
42	L5	108	ARG	NE-CZ-NH1	7.09	123.84	120.30
85	5	9	U	N1-C2-O2	-7.09	117.84	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	519	A	C6-C5-N7	-7.09	127.34	132.30
85	5	841	A	N1-C6-N6	7.09	122.85	118.60
85	5	951	A	C4-C5-C6	7.09	120.55	117.00
85	5	1326	A	C8-N9-C4	-7.09	102.96	105.80
36	1	3016	A	N3-C4-C5	7.09	131.76	126.80
37	3	97	A	C6-N1-C2	-7.09	114.35	118.60
38	4	101	U	C4-C5-C6	7.09	123.95	119.70
85	5	703	G	C6-N1-C2	-7.09	120.85	125.10
85	5	1744	G	C5-C6-O6	-7.09	124.35	128.60
85	5	2777	G	C5-C6-N1	-7.09	107.96	111.50
38	8	80	A	C2-N3-C4	7.09	114.14	110.60
1	2	338	C	C5-C4-N4	7.09	125.16	120.20
36	1	727	G	C4-C5-N7	7.09	113.63	110.80
36	1	968	G	N1-C2-N2	-7.09	109.82	116.20
36	1	1350	A	C5-C6-N6	-7.09	118.03	123.70
36	1	1788	C	C2-N1-C1'	7.09	126.59	118.80
80	6	562	G	C5-C6-N1	-7.09	107.96	111.50
80	6	688	G	C8-N9-C4	-7.09	103.56	106.40
80	6	960	U	C5-C6-N1	7.09	126.24	122.70
85	5	411	U	N3-C4-C5	-7.09	110.35	114.60
85	5	1255	C	C6-N1-C2	-7.09	117.47	120.30
85	5	2549	G	C6-N1-C2	7.09	129.35	125.10
85	5	2627	C	C6-N1-C2	-7.09	117.47	120.30
85	5	2680	A	N9-C4-C5	7.09	108.64	105.80
37	7	121	U	C6-N1-C2	7.09	125.25	121.00
1	2	272	U	N3-C2-O2	-7.08	117.24	122.20
80	6	1586	A	N9-C4-C5	-7.08	102.97	105.80
85	5	807	A	N1-C6-N6	7.08	122.85	118.60
85	5	1407	A	N7-C8-N9	7.08	117.34	113.80
85	5	3059	G	N1-C2-N3	7.08	128.15	123.90
1	2	51	A	N9-C4-C5	-7.08	102.97	105.80
1	2	587	C	C5-C6-N1	7.08	124.54	121.00
1	2	808	U	N3-C4-O4	7.08	124.36	119.40
1	2	1062	U	C5-C6-N1	7.08	126.24	122.70
1	2	1519	G	N3-C4-N9	7.08	130.25	126.00
36	1	739	G	C4-C5-N7	7.08	113.63	110.80
36	1	883	A	N1-C6-N6	-7.08	114.35	118.60
36	1	1809	A	N7-C8-N9	-7.08	110.26	113.80
36	1	2675	C	C6-N1-C1'	-7.08	112.30	120.80
36	1	2982	A	N1-C6-N6	-7.08	114.35	118.60
36	1	3191	G	O5'-P-OP1	7.08	119.20	110.70
38	4	32	C	O4'-C1'-N1	7.08	113.87	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	124	G	OP1-P-O3'	7.08	120.78	105.20
80	6	1514	U	N1-C2-O2	7.08	127.76	122.80
80	6	1768	G	C8-N9-C4	7.08	109.23	106.40
85	5	1856	C	N3-C4-C5	7.08	124.73	121.90
85	5	2354	C	C5-C6-N1	7.08	124.54	121.00
1	2	926	C	N1-C2-O2	7.08	123.15	118.90
36	1	1140	G	C4-C5-C6	7.08	123.05	118.80
36	1	1807	G	C6-C5-N7	-7.08	126.15	130.40
36	1	3056	U	C4-C5-C6	7.08	123.95	119.70
38	4	52	A	C5-N7-C8	7.08	107.44	103.90
80	6	396	G	O5'-P-OP2	-7.08	99.33	105.70
85	5	616	G	N3-C2-N2	-7.08	114.94	119.90
85	5	1757	A	C2-N3-C4	7.08	114.14	110.60
85	5	2326	A	C5-C6-N1	-7.08	114.16	117.70
38	8	25	G	C8-N9-C4	-7.08	103.57	106.40
80	6	1200	G	O5'-P-OP2	-7.08	99.33	105.70
85	5	1393	A	N3-C4-C5	-7.08	121.84	126.80
85	5	1941	C	N1-C2-O2	-7.08	114.65	118.90
38	8	2	A	OP2-P-O3'	7.08	120.78	105.20
1	2	612	U	N1-C2-N3	-7.08	110.65	114.90
36	1	83	U	C5-C6-N1	-7.08	119.16	122.70
36	1	1057	A	C5-C6-N6	7.08	129.36	123.70
36	1	2704	A	N9-C4-C5	7.08	108.63	105.80
36	1	3025	C	N1-C2-O2	7.08	123.15	118.90
80	6	466	U	C4-C5-C6	7.08	123.95	119.70
80	6	1582	U	C5-C6-N1	-7.08	119.16	122.70
85	5	141	C	C5-C6-N1	7.08	124.54	121.00
85	5	359	U	C5-C4-O4	-7.08	121.65	125.90
85	5	937	G	O5'-P-OP1	-7.08	99.33	105.70
85	5	1506	A	N7-C8-N9	7.08	117.34	113.80
85	5	2307	G	C8-N9-C4	7.08	109.23	106.40
85	5	2416	U	N1-C2-O2	-7.08	117.84	122.80
85	5	2639	G	C6-C5-N7	-7.08	126.15	130.40
85	5	2841	G	OP1-P-OP2	7.08	130.22	119.60
85	5	3128	G	N9-C4-C5	7.08	108.23	105.40
38	8	89	A	C4-C5-N7	-7.08	107.16	110.70
1	2	888	A	C8-N9-C4	-7.08	102.97	105.80
36	1	146	U	N3-C2-O2	7.08	127.15	122.20
36	1	2988	C	N3-C2-O2	7.08	126.85	121.90
85	5	1105	A	N1-C6-N6	7.08	122.85	118.60
85	5	1107	C	N3-C4-N4	7.08	122.95	118.00
1	2	1291	G	C2-N3-C4	-7.08	108.36	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	818	C	OP1-P-OP2	-7.08	108.99	119.60
36	1	1323	G	C5-N7-C8	7.08	107.84	104.30
36	1	1592	G	N1-C2-N3	7.08	128.15	123.90
36	1	1719	G	N1-C6-O6	7.08	124.15	119.90
36	1	1769	G	C4-C5-N7	7.08	113.63	110.80
38	4	17	A	C4-C5-C6	7.08	120.54	117.00
38	4	113	U	N3-C4-O4	-7.08	114.45	119.40
85	5	497	C	N3-C4-C5	-7.08	119.07	121.90
85	5	1644	C	N1-C2-O2	-7.08	114.66	118.90
85	5	1834	U	N3-C2-O2	-7.08	117.25	122.20
85	5	1949	G	C5-C6-O6	-7.08	124.36	128.60
85	5	2588	U	N1-C2-N3	7.08	119.14	114.90
1	2	1015	G	C6-C5-N7	-7.07	126.16	130.40
36	1	99	A	C5-C6-N6	-7.07	118.04	123.70
36	1	392	G	C8-N9-C4	-7.07	103.57	106.40
36	1	833	G	C2-N3-C4	-7.07	108.36	111.90
36	1	1443	G	N7-C8-N9	7.07	116.64	113.10
36	1	1599	G	C4-C5-N7	7.07	113.63	110.80
36	1	2189	U	OP2-P-O3'	7.07	120.76	105.20
80	6	1627	U	N1-C2-N3	7.07	119.14	114.90
80	6	1733	C	C5-C4-N4	-7.07	115.25	120.20
85	5	843	A	C4-C5-N7	7.07	114.24	110.70
85	5	1174	G	C4-C5-N7	7.07	113.63	110.80
85	5	1827	C	N3-C2-O2	7.07	126.85	121.90
85	5	1837	U	O5'-P-OP1	-7.07	99.33	105.70
54	m8	178	ARG	NE-CZ-NH2	-7.07	116.76	120.30
1	2	206	A	C8-N9-C4	7.07	108.63	105.80
1	2	606	A	C4-C5-N7	7.07	114.24	110.70
36	1	790	U	N3-C2-O2	-7.07	117.25	122.20
36	1	828	A	N7-C8-N9	7.07	117.34	113.80
1	2	957	A	N9-C4-C5	-7.07	102.97	105.80
36	1	271	C	C5-C6-N1	-7.07	117.47	121.00
36	1	991	G	N1-C6-O6	-7.07	115.66	119.90
36	1	1126	G	C4-C5-C6	7.07	123.04	118.80
36	1	1901	A	C6-N1-C2	-7.07	114.36	118.60
36	1	2235	C	O5'-P-OP2	-7.07	99.34	105.70
36	1	2701	U	O5'-P-OP1	-7.07	99.34	105.70
36	1	2993	G	C5-C6-N1	7.07	115.04	111.50
36	1	3282	U	N3-C4-O4	7.07	124.35	119.40
38	4	68	G	N3-C4-C5	7.07	132.13	128.60
38	4	138	A	C5-N7-C8	-7.07	100.36	103.90
80	6	340	U	N1-C2-N3	7.07	119.14	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1304	G	O5'-P-OP2	-7.07	99.34	105.70
85	5	404	G	C2-N3-C4	7.07	115.44	111.90
85	5	594	U	C5-C6-N1	7.07	126.23	122.70
85	5	610	G	C8-N9-C4	-7.07	103.57	106.40
85	5	1860	G	C8-N9-C4	7.07	109.23	106.40
85	5	2656	A	N1-C6-N6	7.07	122.84	118.60
85	5	3124	G	N9-C4-C5	7.07	108.23	105.40
85	5	3131	U	N1-C2-O2	7.07	127.75	122.80
1	2	860	G	N1-C6-O6	-7.07	115.66	119.90
1	2	1258	A	N1-C2-N3	7.07	132.84	129.30
36	1	3250	U	C6-N1-C2	7.07	125.24	121.00
80	6	1368	G	N7-C8-N9	-7.07	109.56	113.10
85	5	2218	G	N1-C2-N2	-7.07	109.84	116.20
1	2	1500	U	C6-N1-C2	-7.07	116.76	121.00
36	1	217	U	O5'-P-OP1	-7.07	99.34	105.70
36	1	334	A	C5-N7-C8	-7.07	100.37	103.90
36	1	724	U	N3-C4-C5	7.07	118.84	114.60
36	1	1202	A	N7-C8-N9	7.07	117.33	113.80
36	1	1336	U	OP1-P-O3'	7.07	120.75	105.20
36	1	2374	C	C2-N1-C1'	7.07	126.57	118.80
36	1	2640	A	N1-C2-N3	7.07	132.83	129.30
36	1	2967	A	N9-C4-C5	7.07	108.63	105.80
80	6	143	G	N1-C6-O6	7.07	124.14	119.90
80	6	969	C	C6-N1-C2	7.07	123.13	120.30
80	6	1726	G	N9-C4-C5	-7.07	102.57	105.40
85	5	30	G	O5'-P-OP2	7.07	119.18	110.70
85	5	609	G	C8-N9-C4	7.07	109.23	106.40
85	5	654	C	N3-C4-N4	7.07	122.95	118.00
85	5	1343	A	C5-N7-C8	-7.07	100.37	103.90
85	5	2796	G	O5'-P-OP2	-7.07	99.34	105.70
85	5	2941	A	N1-C2-N3	7.07	132.83	129.30
38	8	117	C	C4-C5-C6	7.07	120.93	117.40
1	2	23	G	N1-C2-N3	7.07	128.14	123.90
1	2	291	G	C5-C6-N1	7.07	115.03	111.50
36	1	2259	A	C8-N9-C4	-7.07	102.97	105.80
36	1	2590	A	C6-N1-C2	-7.07	114.36	118.60
36	1	2980	U	C6-N1-C2	-7.07	116.76	121.00
37	3	26	C	N3-C4-C5	7.07	124.73	121.90
80	6	128	U	C2-N3-C4	-7.07	122.76	127.00
80	6	396	G	C4-C5-C6	7.07	123.04	118.80
80	6	1008	G	OP1-P-OP2	-7.07	109.00	119.60
85	5	323	A	OP1-P-OP2	7.07	130.20	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1200	A	C5-C6-N1	-7.07	114.17	117.70
85	5	1390	A	C6-N1-C2	-7.07	114.36	118.60
85	5	1439	U	O5'-P-OP2	-7.07	99.34	105.70
85	5	1907	C	N1-C2-N3	7.07	124.15	119.20
85	5	2945	G	C2-N3-C4	-7.07	108.37	111.90
85	5	3296	A	C2-N3-C4	-7.07	107.07	110.60
70	o4	88	ARG	NE-CZ-NH2	-7.07	116.77	120.30
1	2	559	C	N3-C2-O2	-7.06	116.95	121.90
1	2	847	U	N1-C2-N3	7.06	119.14	114.90
36	1	203	G	C5-C6-O6	-7.06	124.36	128.60
36	1	874	U	C5-C6-N1	-7.06	119.17	122.70
36	1	2178	A	N1-C6-N6	7.06	122.84	118.60
80	6	322	G	N3-C4-C5	7.06	132.13	128.60
80	6	366	A	N7-C8-N9	-7.06	110.27	113.80
85	5	258	G	C8-N9-C4	-7.06	103.57	106.40
85	5	624	G	N9-C4-C5	-7.06	102.58	105.40
85	5	2169	G	C5-C6-N1	7.06	115.03	111.50
85	5	2758	A	C5-C6-N1	7.06	121.23	117.70
85	5	3015	G	C8-N9-C4	7.06	109.22	106.40
1	2	555	A	C5-C6-N1	7.06	121.23	117.70
1	2	1665	U	C5-C6-N1	-7.06	119.17	122.70
36	1	926	A	C2-N3-C4	-7.06	107.07	110.60
36	1	1311	G	C4-C5-C6	7.06	123.04	118.80
36	1	1491	A	N1-C6-N6	7.06	122.84	118.60
36	1	2360	C	N1-C2-N3	7.06	124.14	119.20
36	1	2615	G	N1-C6-O6	-7.06	115.66	119.90
36	1	2757	U	C6-N1-C2	-7.06	116.76	121.00
36	1	3015	G	C6-C5-N7	-7.06	126.16	130.40
38	4	47	C	C6-N1-C2	-7.06	117.47	120.30
38	4	133	G	N1-C6-O6	7.06	124.14	119.90
80	6	251	A	C8-N9-C4	7.06	108.62	105.80
85	5	50	U	O5'-P-OP1	-7.06	99.34	105.70
85	5	53	G	N1-C2-N2	-7.06	109.84	116.20
85	5	292	U	N3-C2-O2	7.06	127.14	122.20
79	q3	60	CYS	CA-CB-SG	7.06	126.71	114.00
36	1	580	C	N3-C4-N4	7.06	122.94	118.00
36	1	2299	A	N9-C4-C5	7.06	108.62	105.80
36	1	2343	C	N3-C4-C5	7.06	124.72	121.90
36	1	2620	G	C8-N9-C4	7.06	109.22	106.40
36	1	3095	U	C6-N1-C2	-7.06	116.76	121.00
85	5	1083	G	C4-C5-N7	-7.06	107.98	110.80
85	5	2397	A	C4-C5-C6	-7.06	113.47	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1073	C	OP1-P-OP2	-7.06	109.01	119.60
36	1	298	U	C2-N3-C4	-7.06	122.76	127.00
36	1	695	C	C5-C4-N4	-7.06	115.26	120.20
36	1	702	C	N1-C2-N3	7.06	124.14	119.20
36	1	1064	A	OP1-P-OP2	7.06	130.19	119.60
36	1	1321	G	OP1-P-O3'	7.06	120.73	105.20
36	1	1442	U	N3-C4-O4	7.06	124.34	119.40
36	1	1860	G	C8-N9-C4	-7.06	103.58	106.40
36	1	2187	G	C5-C6-N1	-7.06	107.97	111.50
80	6	236	A	N1-C6-N6	7.06	122.84	118.60
85	5	222	A	C5-C6-N1	7.06	121.23	117.70
85	5	750	G	C8-N9-C4	-7.06	103.58	106.40
85	5	1888	U	OP1-P-OP2	-7.06	109.01	119.60
85	5	2641	U	N3-C4-C5	-7.06	110.36	114.60
1	2	40	A	C5-N7-C8	7.06	107.43	103.90
1	2	1068	G	C8-N9-C4	7.06	109.22	106.40
36	1	146	U	N1-C2-O2	-7.06	117.86	122.80
36	1	2625	C	O5'-P-OP2	-7.06	99.35	105.70
36	1	2825	C	N1-C2-N3	7.06	124.14	119.20
36	1	3143	C	N3-C4-C5	-7.06	119.08	121.90
36	1	3307	A	C5-C6-N1	-7.06	114.17	117.70
38	4	15	G	C4-C5-N7	7.06	113.62	110.80
80	6	267	U	N3-C2-O2	7.06	127.14	122.20
80	6	294	C	N1-C2-N3	7.06	124.14	119.20
80	6	742	U	N1-C2-N3	-7.06	110.67	114.90
80	6	1279	C	N1-C2-N3	7.06	124.14	119.20
80	6	1488	G	C2-N3-C4	7.06	115.43	111.90
80	6	1653	C	C2-N3-C4	-7.06	116.37	119.90
85	5	139	G	C5-C6-N1	7.06	115.03	111.50
85	5	1513	G	N1-C6-O6	7.06	124.14	119.90
85	5	2194	G	C5-C6-N1	7.06	115.03	111.50
85	5	2629	U	C5-C4-O4	-7.06	121.67	125.90
85	5	2740	A	OP1-P-OP2	-7.06	109.01	119.60
85	5	2899	C	N1-C2-N3	7.06	124.14	119.20
85	5	3110	C	O5'-P-OP2	-7.06	99.35	105.70
38	8	142	C	C4-C5-C6	7.06	120.93	117.40
1	2	1533	A	C5-C6-N1	7.06	121.23	117.70
36	1	1460	A	OP2-P-O3'	7.06	120.72	105.20
36	1	2842	U	N1-C2-O2	7.06	127.74	122.80
80	6	462	G	N3-C4-C5	7.06	132.13	128.60
85	5	1611	G	N1-C2-N3	7.06	128.13	123.90
1	2	73	U	N3-C4-O4	-7.05	114.46	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	6	A	C8-N9-C4	7.05	108.62	105.80
36	1	1502	C	C5-C6-N1	-7.05	117.47	121.00
36	1	1818	U	C4-C5-C6	-7.05	115.47	119.70
36	1	2620	G	N9-C4-C5	-7.05	102.58	105.40
36	1	2818	U	N3-C4-O4	7.05	124.34	119.40
37	3	96	U	C4-C5-C6	7.05	123.93	119.70
41	L4	203	ARG	NE-CZ-NH2	-7.05	116.77	120.30
80	6	439	U	C6-N1-C2	7.05	125.23	121.00
80	6	449	C	C5-C6-N1	-7.05	117.47	121.00
80	6	1130	G	C6-N1-C2	-7.05	120.87	125.10
85	5	774	G	C5-C6-O6	7.05	132.83	128.60
85	5	2198	A	N1-C6-N6	-7.05	114.37	118.60
85	5	2533	G	C5-N7-C8	-7.05	100.77	104.30
85	5	3274	A	O5'-P-OP2	-7.05	99.35	105.70
85	5	3372	A	N1-C6-N6	-7.05	114.37	118.60
36	1	522	A	C4-C5-C6	7.05	120.53	117.00
80	6	1659	A	C8-N9-C4	-7.05	102.98	105.80
85	5	409	A	N7-C8-N9	7.05	117.33	113.80
85	5	1250	G	N1-C6-O6	-7.05	115.67	119.90
85	5	1591	G	C5-N7-C8	7.05	107.83	104.30
1	2	859	G	N3-C4-C5	7.05	132.13	128.60
36	1	187	A	C5-C6-N1	-7.05	114.17	117.70
36	1	3288	G	N1-C2-N3	-7.05	119.67	123.90
37	3	30	G	O5'-P-OP1	7.05	119.16	110.70
85	5	6	A	C5-C6-N1	-7.05	114.17	117.70
85	5	152	U	N3-C4-C5	-7.05	110.37	114.60
85	5	1941	C	N3-C4-N4	7.05	122.94	118.00
85	5	2560	C	N1-C2-N3	-7.05	114.26	119.20
85	5	3014	U	C2-N3-C4	-7.05	122.77	127.00
85	5	3188	G	N3-C4-N9	7.05	130.23	126.00
1	2	411	C	N1-C2-O2	-7.05	114.67	118.90
1	2	1492	C	N3-C4-C5	-7.05	119.08	121.90
36	1	417	A	C2-N3-C4	-7.05	107.08	110.60
36	1	1201	C	N3-C4-N4	7.05	122.93	118.00
36	1	1222	G	N3-C4-C5	-7.05	125.08	128.60
36	1	2828	G	C8-N9-C1'	-7.05	117.83	127.00
36	1	2935	U	C5-C6-N1	7.05	126.22	122.70
36	1	3390	G	C6-C5-N7	-7.05	126.17	130.40
37	3	94	C	C6-N1-C2	-7.05	117.48	120.30
80	6	447	U	N1-C2-O2	-7.05	117.86	122.80
85	5	244	G	O5'-P-OP2	-7.05	99.36	105.70
85	5	519	A	C4-C5-N7	7.05	114.22	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1414	G	C6-C5-N7	-7.05	126.17	130.40
85	5	1582	C	C2-N3-C4	7.05	123.42	119.90
85	5	2276	G	N1-C2-N3	7.05	128.13	123.90
85	5	3073	A	C4-C5-C6	-7.05	113.47	117.00
85	5	3184	A	C6-C5-N7	-7.05	127.36	132.30
37	7	32	U	N3-C4-C5	7.05	118.83	114.60
38	8	51	G	OP1-P-OP2	7.05	130.17	119.60
38	8	58	G	C5-C6-N1	-7.05	107.97	111.50
40	13	238	LEU	CB-CG-CD2	-7.05	99.02	111.00
36	1	1453	A	C5-C6-N1	7.05	121.22	117.70
80	6	856	A	C8-N9-C4	-7.05	102.98	105.80
85	5	128	G	N9-C4-C5	7.05	108.22	105.40
85	5	1355	A	C6-N1-C2	7.05	122.83	118.60
85	5	1542	G	C5-C6-N1	7.05	115.02	111.50
85	5	2187	G	C4-C5-C6	7.05	123.03	118.80
85	5	2610	G	C4-C5-N7	7.05	113.62	110.80
85	5	2847	A	C5-N7-C8	7.05	107.42	103.90
1	2	67	A	C4-C5-N7	-7.05	107.18	110.70
1	2	306	U	N3-C4-O4	7.05	124.33	119.40
1	2	1183	G	C4-C5-C6	7.05	123.03	118.80
36	1	338	A	C5-C6-N6	7.05	129.34	123.70
36	1	869	G	C5-C6-N1	-7.05	107.98	111.50
36	1	1006	A	O5'-P-OP2	-7.05	99.36	105.70
36	1	1269	U	N1-C2-O2	7.05	127.73	122.80
36	1	2555	G	C2-N3-C4	-7.05	108.38	111.90
38	4	30	C	C6-N1-C2	7.05	123.12	120.30
38	4	105	A	N7-C8-N9	7.05	117.32	113.80
80	6	86	A	C2-N3-C4	7.05	114.12	110.60
80	6	359	A	N9-C4-C5	-7.05	102.98	105.80
80	6	1487	A	N7-C8-N9	-7.05	110.28	113.80
85	5	25	U	C2-N3-C4	-7.05	122.77	127.00
85	5	267	G	N3-C4-C5	7.05	132.12	128.60
85	5	1314	C	C5-C4-N4	-7.05	115.27	120.20
85	5	2358	A	C8-N9-C4	-7.05	102.98	105.80
85	5	2789	U	N1-C2-O2	-7.05	117.87	122.80
85	5	3204	C	OP1-P-OP2	-7.05	109.03	119.60
36	1	908	G	C4-C5-N7	7.04	113.62	110.80
80	6	426	G	N1-C2-N3	7.04	128.13	123.90
85	5	432	G	C5-C6-N1	-7.04	107.98	111.50
85	5	833	G	C2-N3-C4	-7.04	108.38	111.90
85	5	1055	A	N1-C6-N6	-7.04	114.37	118.60
85	5	1203	A	N1-C6-N6	-7.04	114.37	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2237	C	N3-C4-C5	7.04	124.72	121.90
85	5	2285	C	C5-C6-N1	7.04	124.52	121.00
37	7	73	C	N3-C2-O2	-7.04	116.97	121.90
70	o4	88	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	2	235	G	N3-C2-N2	-7.04	114.97	119.90
36	1	17	G	N1-C2-N3	-7.04	119.67	123.90
36	1	397	A	C6-C5-N7	7.04	137.23	132.30
36	1	527	A	N1-C6-N6	7.04	122.83	118.60
80	6	82	U	O5'-P-OP1	7.04	119.15	110.70
80	6	103	A	N9-C4-C5	7.04	108.62	105.80
80	6	967	A	C5-C6-N1	7.04	121.22	117.70
80	6	974	A	N1-C6-N6	7.04	122.83	118.60
80	6	1527	C	N1-C2-N3	-7.04	114.27	119.20
80	6	1548	G	N1-C6-O6	-7.04	115.67	119.90
85	5	424	G	N1-C2-N2	7.04	122.54	116.20
85	5	805	G	C5-N7-C8	7.04	107.82	104.30
85	5	985	U	C4-C5-C6	7.04	123.93	119.70
85	5	1256	G	N9-C4-C5	-7.04	102.58	105.40
85	5	1924	U	C5-C6-N1	-7.04	119.18	122.70
85	5	1928	G	N3-C4-N9	-7.04	121.77	126.00
85	5	3311	C	N3-C4-N4	7.04	122.93	118.00
38	8	61	A	N3-C4-C5	-7.04	121.87	126.80
1	2	622	A	O5'-P-OP2	7.04	119.15	110.70
1	2	1535	U	N3-C4-O4	7.04	124.33	119.40
1	2	1558	G	N3-C4-C5	-7.04	125.08	128.60
36	1	1408	G	OP1-P-O3'	7.04	120.69	105.20
36	1	1483	G	N3-C4-C5	-7.04	125.08	128.60
36	1	1926	C	C6-N1-C2	7.04	123.12	120.30
36	1	2435	G	O5'-P-OP2	7.04	119.15	110.70
36	1	3346	U	C5-C6-N1	-7.04	119.18	122.70
80	6	266	A	N9-C4-C5	7.04	108.62	105.80
80	6	1204	A	C4-C5-C6	7.04	120.52	117.00
80	6	1643	U	N3-C4-O4	-7.04	114.47	119.40
85	5	691	A	N1-C2-N3	7.04	132.82	129.30
85	5	1110	U	C6-N1-C2	-7.04	116.78	121.00
85	5	2121	G	C2-N3-C4	-7.04	108.38	111.90
85	5	3034	C	C2-N3-C4	-7.04	116.38	119.90
85	5	3130	A	O5'-P-OP1	-7.04	99.36	105.70
1	2	193	U	C5-C4-O4	7.04	130.12	125.90
36	1	95	A	OP2-P-O3'	7.04	120.69	105.20
36	1	1234	G	N1-C6-O6	-7.04	115.68	119.90
36	1	1854	C	C5-C6-N1	7.04	124.52	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2302	G	C6-N1-C2	-7.04	120.88	125.10
36	1	3053	G	C2-N3-C4	-7.04	108.38	111.90
85	5	355	A	O5'-P-OP1	-7.04	99.36	105.70
85	5	685	G	N1-C2-N2	-7.04	109.86	116.20
85	5	1117	G	C6-N1-C2	-7.04	120.88	125.10
85	5	2382	G	N7-C8-N9	-7.04	109.58	113.10
37	7	119	U	C6-N1-C2	7.04	125.22	121.00
1	2	28	A	N7-C8-N9	-7.04	110.28	113.80
1	2	1163	C	O5'-P-OP1	7.04	119.15	110.70
36	1	686	G	C5-C6-O6	7.04	132.82	128.60
36	1	917	A	O5'-P-OP2	-7.04	99.36	105.70
36	1	957	C	C2-N3-C4	-7.04	116.38	119.90
36	1	1143	A	C2-N3-C4	-7.04	107.08	110.60
36	1	1420	C	C5-C4-N4	7.04	125.13	120.20
36	1	3387	U	N3-C4-O4	-7.04	114.47	119.40
38	4	66	A	N1-C2-N3	7.04	132.82	129.30
51	M5	162	ARG	NE-CZ-NH1	7.04	123.82	120.30
80	6	61	A	C2-N3-C4	-7.04	107.08	110.60
80	6	148	A	C6-N1-C2	-7.04	114.38	118.60
80	6	449	C	N3-C4-N4	-7.04	113.07	118.00
80	6	1617	U	C4-C5-C6	7.04	123.92	119.70
80	6	1638	G	C5-N7-C8	-7.04	100.78	104.30
80	6	1775	U	C6-N1-C2	7.04	125.22	121.00
85	5	213	A	C2-N3-C4	7.04	114.12	110.60
85	5	867	G	C8-N9-C4	-7.04	103.58	106.40
85	5	972	A	C4-C5-N7	-7.04	107.18	110.70
85	5	1128	U	O5'-P-OP1	7.04	119.15	110.70
85	5	2270	A	C4-C5-N7	7.04	114.22	110.70
85	5	3315	G	O5'-P-OP1	-7.04	99.36	105.70
37	7	102	A	N9-C4-C5	-7.04	102.98	105.80
37	7	102	A	C4-C5-C6	7.04	120.52	117.00
46	19	62	ARG	NE-CZ-NH1	7.04	123.82	120.30
36	1	236	G	N3-C2-N2	7.04	124.83	119.90
36	1	847	A	C5-C6-N1	7.04	121.22	117.70
36	1	2112	U	C6-N1-C2	7.04	125.22	121.00
80	6	1745	G	C5-C6-N1	-7.04	107.98	111.50
85	5	646	A	N9-C4-C5	7.04	108.61	105.80
85	5	994	G	N3-C2-N2	7.04	124.83	119.90
85	5	1165	A	C5-C6-N1	7.04	121.22	117.70
85	5	1318	A	C6-N1-C2	-7.04	114.38	118.60
85	5	1602	A	N1-C2-N3	7.04	132.82	129.30
85	5	3184	A	C5-C6-N6	-7.04	118.07	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3241	G	O5'-P-OP1	7.04	119.14	110.70
1	2	897	G	N1-C6-O6	7.04	124.12	119.90
1	2	953	A	N1-C2-N3	7.04	132.82	129.30
36	1	296	A	N7-C8-N9	7.04	117.32	113.80
36	1	640	U	OP2-P-O3'	7.04	120.68	105.20
36	1	824	C	C5-C4-N4	-7.04	115.28	120.20
36	1	2146	C	C2-N3-C4	-7.04	116.38	119.90
36	1	2176	U	N3-C4-C5	-7.04	110.38	114.60
36	1	2561	A	N1-C2-N3	-7.04	125.78	129.30
36	1	2752	U	OP1-P-OP2	7.04	130.15	119.60
80	6	17	C	N1-C2-O2	7.04	123.12	118.90
80	6	323	A	C4-C5-N7	7.04	114.22	110.70
80	6	419	G	C5-C6-N1	7.04	115.02	111.50
80	6	871	G	N1-C2-N3	7.04	128.12	123.90
85	5	511	G	O5'-P-OP2	-7.04	99.37	105.70
85	5	1408	G	C5-C6-N1	7.04	115.02	111.50
85	5	1556	C	C6-N1-C2	-7.04	117.49	120.30
85	5	1656	A	C5-N7-C8	7.04	107.42	103.90
85	5	2251	G	N1-C6-O6	7.04	124.12	119.90
85	5	2536	A	C8-N9-C4	7.04	108.61	105.80
85	5	2664	C	N3-C2-O2	7.04	126.83	121.90
85	5	3375	A	C5-N7-C8	-7.04	100.38	103.90
1	2	264	G	N7-C8-N9	-7.03	109.58	113.10
36	1	1094	U	C2-N3-C4	7.03	131.22	127.00
36	1	1394	A	N7-C8-N9	-7.03	110.28	113.80
80	6	1014	G	N3-C2-N2	-7.03	114.98	119.90
85	5	171	G	N3-C2-N2	7.03	124.82	119.90
85	5	330	G	C5-C6-N1	7.03	115.02	111.50
85	5	515	C	C6-N1-C2	7.03	123.11	120.30
85	5	1089	G	N1-C6-O6	7.03	124.12	119.90
85	5	2321	A	C2-N3-C4	-7.03	107.08	110.60
85	5	2663	G	N3-C2-N2	-7.03	114.98	119.90
85	5	2854	U	O5'-P-OP2	7.03	119.14	110.70
85	5	3073	A	N1-C2-N3	-7.03	125.78	129.30
1	2	90	C	N3-C4-N4	7.03	122.92	118.00
1	2	209	U	OP1-P-OP2	-7.03	109.05	119.60
36	1	610	G	C6-C5-N7	-7.03	126.18	130.40
36	1	1757	A	N7-C8-N9	7.03	117.32	113.80
36	1	1874	A	C2-N3-C4	-7.03	107.08	110.60
36	1	2656	A	C8-N9-C4	-7.03	102.99	105.80
36	1	2736	A	N3-C4-C5	7.03	131.72	126.80
85	5	1311	G	C2-N3-C4	-7.03	108.38	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1927	G	N1-C6-O6	7.03	124.12	119.90
1	2	1644	U	C6-N1-C2	7.03	125.22	121.00
36	1	55	G	N1-C6-O6	7.03	124.12	119.90
36	1	771	A	N1-C6-N6	7.03	122.82	118.60
36	1	833	G	C6-N1-C2	-7.03	120.88	125.10
36	1	1006	A	C4-C5-N7	-7.03	107.18	110.70
37	3	109	G	O5'-P-OP2	7.03	119.14	110.70
79	Q3	85	ARG	NE-CZ-NH1	7.03	123.82	120.30
80	6	152	U	N3-C2-O2	-7.03	117.28	122.20
80	6	387	A	N9-C4-C5	7.03	108.61	105.80
80	6	897	C	C6-N1-C2	-7.03	117.49	120.30
80	6	1086	A	O5'-P-OP1	7.03	119.14	110.70
85	5	370	U	C2-N3-C4	-7.03	122.78	127.00
85	5	669	U	N3-C2-O2	-7.03	117.28	122.20
85	5	3000	A	C6-C5-N7	-7.03	127.38	132.30
85	5	3202	G	C8-N9-C4	-7.03	103.59	106.40
36	1	1060	U	O5'-P-OP2	7.03	119.14	110.70
85	5	1005	G	N9-C4-C5	-7.03	102.59	105.40
1	2	1743	G	C5-C6-N1	7.03	115.01	111.50
36	1	2330	C	C5-C4-N4	-7.03	115.28	120.20
36	1	3126	C	OP1-P-OP2	7.03	130.14	119.60
36	1	3145	C	C5-C6-N1	7.03	124.51	121.00
36	1	3326	G	N7-C8-N9	-7.03	109.59	113.10
38	4	88	A	C4-C5-N7	-7.03	107.19	110.70
80	6	559	C	OP1-P-OP2	-7.03	109.06	119.60
80	6	1574	G	N3-C4-C5	-7.03	125.09	128.60
85	5	97	U	OP1-P-OP2	-7.03	109.06	119.60
85	5	1364	C	N3-C4-N4	7.03	122.92	118.00
85	5	2193	U	OP2-P-O3'	7.03	120.66	105.20
85	5	3239	G	C8-N9-C4	-7.03	103.59	106.40
85	5	3338	C	C5-C6-N1	-7.03	117.49	121.00
1	2	313	U	N3-C2-O2	-7.03	117.28	122.20
1	2	1131	C	C2-N3-C4	-7.03	116.39	119.90
36	1	802	C	OP2-P-O3'	7.03	120.66	105.20
36	1	1367	G	C5-C6-O6	-7.03	124.38	128.60
36	1	1433	A	N1-C2-N3	7.03	132.81	129.30
36	1	1461	A	C6-C5-N7	-7.03	127.38	132.30
36	1	1661	G	C2-N3-C4	-7.03	108.39	111.90
36	1	1667	A	OP1-P-OP2	-7.03	109.06	119.60
36	1	2417	U	C6-N1-C2	7.03	125.22	121.00
80	6	244	A	C5-C6-N6	7.03	129.32	123.70
80	6	979	A	C2-N3-C4	7.03	114.11	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1491	U	N3-C2-O2	7.03	127.12	122.20
85	5	979	U	C5-C6-N1	7.03	126.21	122.70
85	5	984	G	C5-C6-O6	-7.03	124.38	128.60
85	5	1829	G	C5-C6-N1	-7.03	107.99	111.50
85	5	2623	G	C6-N1-C2	-7.03	120.88	125.10
85	5	2828	G	C6-C5-N7	-7.03	126.18	130.40
36	1	194	U	C2-N3-C4	7.02	131.21	127.00
36	1	426	G	C2-N3-C4	7.02	115.41	111.90
36	1	3021	A	C5-C6-N1	7.02	121.21	117.70
80	6	1200	G	C4-C5-N7	7.02	113.61	110.80
85	5	646	A	C5-C6-N6	7.02	129.32	123.70
85	5	1442	U	N3-C4-O4	-7.02	114.48	119.40
85	5	3176	G	C6-N1-C2	-7.02	120.89	125.10
36	1	350	C	C5-C4-N4	-7.02	115.28	120.20
36	1	516	A	O4'-C1'-N9	-7.02	102.58	108.20
36	1	818	C	O5'-P-OP1	-7.02	99.38	105.70
36	1	1809	A	N1-C2-N3	7.02	132.81	129.30
36	1	2726	C	N3-C4-N4	-7.02	113.08	118.00
36	1	3081	C	N1-C2-O2	-7.02	114.69	118.90
37	3	74	C	C2-N1-C1'	-7.02	111.07	118.80
38	4	75	G	OP2-P-O3'	7.02	120.65	105.20
80	6	1573	A	P-O3'-C3'	7.02	128.13	119.70
85	5	355	A	C2-N3-C4	-7.02	107.09	110.60
85	5	568	G	N3-C2-N2	-7.02	114.98	119.90
85	5	797	U	C2-N3-C4	-7.02	122.79	127.00
85	5	1051	U	N3-C4-C5	-7.02	110.39	114.60
85	5	1481	A	O5'-P-OP1	-7.02	99.38	105.70
85	5	2907	G	N9-C4-C5	-7.02	102.59	105.40
85	5	3097	C	O5'-P-OP2	7.02	119.13	110.70
85	5	3316	A	C2-N3-C4	-7.02	107.09	110.60
50	m4	77	ARG	NE-CZ-NH1	-7.02	116.79	120.30
1	2	56	U	O5'-P-OP1	7.02	119.12	110.70
1	2	606	A	C5-C6-N1	-7.02	114.19	117.70
1	2	1062	U	C4-C5-C6	-7.02	115.49	119.70
36	1	1898	G	N3-C4-C5	-7.02	125.09	128.60
36	1	2601	A	C6-C5-N7	7.02	137.21	132.30
80	6	195	G	N3-C4-N9	7.02	130.21	126.00
85	5	1667	A	C4-C5-C6	-7.02	113.49	117.00
85	5	2136	C	C6-N1-C2	-7.02	117.49	120.30
85	5	3138	U	C2-N3-C4	7.02	131.21	127.00
1	2	1342	C	N1-C2-O2	-7.02	114.69	118.90
36	1	695	C	C6-N1-C2	7.02	123.11	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	880	G	O5'-P-OP2	-7.02	99.38	105.70
38	4	73	U	N3-C4-O4	-7.02	114.49	119.40
39	L2	184	ARG	NE-CZ-NH1	-7.02	116.79	120.30
42	L5	184	ASP	CB-CG-OD1	7.02	124.62	118.30
80	6	266	A	C8-N9-C4	-7.02	102.99	105.80
80	6	386	G	N7-C8-N9	7.02	116.61	113.10
80	6	1116	A	C5-C6-N1	7.02	121.21	117.70
85	5	75	G	C2-N3-C4	-7.02	108.39	111.90
85	5	1070	U	N3-C4-C5	7.02	118.81	114.60
85	5	2270	A	C5-N7-C8	-7.02	100.39	103.90
85	5	2416	U	C5-C6-N1	7.02	126.21	122.70
85	5	2604	U	C5-C6-N1	7.02	126.21	122.70
47	m0	57	LEU	CA-CB-CG	7.02	131.45	115.30
36	1	134	U	C2-N1-C1'	-7.02	109.28	117.70
36	1	871	U	OP2-P-O3'	7.02	120.64	105.20
36	1	3241	G	C5-N7-C8	7.02	107.81	104.30
36	1	3348	G	N1-C6-O6	7.02	124.11	119.90
80	6	1106	U	C6-N1-C2	-7.02	116.79	121.00
80	6	1701	A	N1-C2-N3	-7.02	125.79	129.30
85	5	380	U	N3-C4-C5	-7.02	110.39	114.60
85	5	962	A	C6-N1-C2	-7.02	114.39	118.60
85	5	1172	G	C8-N9-C4	7.02	109.21	106.40
85	5	1395	G	OP1-P-OP2	7.02	130.12	119.60
85	5	2276	G	C2-N3-C4	-7.02	108.39	111.90
85	5	2879	C	C2-N1-C1'	-7.02	111.08	118.80
85	5	3106	A	C8-N9-C4	-7.02	102.99	105.80
38	8	109	A	N1-C6-N6	-7.02	114.39	118.60
36	1	408	A	C4-C5-C6	7.02	120.51	117.00
36	1	1184	A	C5-N7-C8	7.02	107.41	103.90
80	6	1023	A	C5-C6-N1	-7.02	114.19	117.70
85	5	865	U	C2-N1-C1'	-7.02	109.28	117.70
85	5	1409	G	C5-N7-C8	-7.02	100.79	104.30
85	5	1718	G	N3-C2-N2	-7.02	114.99	119.90
85	5	3075	G	C5-C6-N1	-7.02	107.99	111.50
1	2	439	U	N1-C2-O2	-7.01	117.89	122.80
36	1	985	U	N1-C2-O2	-7.01	117.89	122.80
36	1	1063	G	C8-N9-C4	-7.01	103.59	106.40
36	1	2223	A	C6-C5-N7	-7.01	127.39	132.30
36	1	2639	G	C4-N9-C1'	7.01	135.62	126.50
36	1	2787	G	C6-C5-N7	-7.01	126.19	130.40
36	1	2965	U	N3-C2-O2	7.01	127.11	122.20
36	1	3128	G	C6-C5-N7	-7.01	126.19	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3234	A	C4-C5-N7	7.01	114.21	110.70
36	1	3345	G	C5-C6-N1	7.01	115.01	111.50
38	4	7	U	C6-N1-C2	-7.01	116.79	121.00
38	4	143	U	N3-C4-O4	7.01	124.31	119.40
52	M6	117	ARG	NE-CZ-NH1	-7.01	116.79	120.30
57	N1	97	LYS	CD-CE-NZ	7.01	127.83	111.70
85	5	604	G	N1-C2-N2	7.01	122.51	116.20
85	5	1169	A	OP2-P-O3'	7.01	120.63	105.20
85	5	1951	C	C6-N1-C2	7.01	123.11	120.30
85	5	2509	U	N1-C2-O2	7.01	127.71	122.80
85	5	2583	C	N3-C2-O2	7.01	126.81	121.90
85	5	2907	G	N1-C2-N3	7.01	128.11	123.90
85	5	3325	G	N1-C6-O6	7.01	124.11	119.90
36	1	368	G	O5'-P-OP2	-7.01	99.39	105.70
36	1	2187	G	N7-C8-N9	7.01	116.61	113.10
36	1	2201	G	O5'-P-OP1	7.01	119.12	110.70
38	4	88	A	C6-N1-C2	-7.01	114.39	118.60
80	6	344	A	C4-C5-C6	-7.01	113.49	117.00
80	6	1317	C	C6-N1-C2	7.01	123.11	120.30
85	5	842	G	C2-N3-C4	-7.01	108.39	111.90
85	5	2295	A	OP2-P-O3'	7.01	120.63	105.20
57	n1	12	ARG	NE-CZ-NH1	-7.01	116.79	120.30
1	2	573	C	O5'-P-OP1	-7.01	99.39	105.70
1	2	608	U	C4-C5-C6	7.01	123.91	119.70
1	2	827	A	C5-C6-N6	-7.01	118.09	123.70
1	2	1036	G	C8-N9-C4	-7.01	103.60	106.40
36	1	775	A	C4-C5-C6	7.01	120.51	117.00
36	1	909	G	C5-C6-O6	-7.01	124.39	128.60
36	1	3366	G	C5-C6-O6	7.01	132.81	128.60
37	3	5	G	C8-N9-C4	7.01	109.20	106.40
80	6	77	U	C6-N1-C2	7.01	125.21	121.00
80	6	823	G	C2-N3-C4	7.01	115.41	111.90
80	6	1195	C	C2-N3-C4	7.01	123.41	119.90
80	6	1627	U	N3-C4-C5	-7.01	110.39	114.60
85	5	30	G	N1-C6-O6	7.01	124.11	119.90
85	5	39	A	C8-N9-C4	-7.01	103.00	105.80
85	5	355	A	O5'-P-OP2	7.01	119.11	110.70
85	5	1414	G	C5-C6-N1	-7.01	107.99	111.50
85	5	2639	G	OP1-P-OP2	-7.01	109.08	119.60
1	2	361	C	N3-C2-O2	7.01	126.81	121.90
1	2	1496	G	N1-C2-N3	7.01	128.10	123.90
36	1	49	A	C4-C5-C6	7.01	120.50	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	210	U	C2-N3-C4	-7.01	122.80	127.00
36	1	958	C	N1-C2-N3	7.01	124.11	119.20
36	1	1051	U	C6-N1-C2	7.01	125.21	121.00
36	1	1205	A	C5-C6-N1	-7.01	114.19	117.70
36	1	1869	C	C2-N3-C4	7.01	123.40	119.90
36	1	2704	A	C2-N3-C4	-7.01	107.09	110.60
36	1	2727	A	C5-N7-C8	7.01	107.41	103.90
80	6	165	G	N3-C4-N9	-7.01	121.80	126.00
85	5	2869	U	OP1-P-OP2	-7.01	109.09	119.60
85	5	3091	A	C5-C6-N6	7.01	129.31	123.70
85	5	3206	C	N3-C4-C5	7.01	124.70	121.90
37	7	92	A	N7-C8-N9	-7.01	110.30	113.80
38	8	102	U	O5'-P-OP1	7.01	119.11	110.70
36	1	2394	G	C8-N9-C4	7.01	109.20	106.40
80	6	1132	A	C2-N3-C4	-7.01	107.10	110.60
85	5	408	A	O4'-C1'-N9	-7.01	102.59	108.20
85	5	3101	G	C5-N7-C8	7.01	107.80	104.30
85	5	3321	C	C2-N3-C4	-7.01	116.40	119.90
36	1	1178	G	C5-C6-N1	7.01	115.00	111.50
36	1	2614	G	C4-C5-C6	7.01	123.00	118.80
36	1	2833	A	N1-C2-N3	7.01	132.80	129.30
80	6	345	U	N1-C2-N3	7.01	119.10	114.90
80	6	1318	G	N3-C4-C5	7.01	132.10	128.60
80	6	1636	C	O4'-C1'-N1	-7.01	102.59	108.20
85	5	374	A	C5-N7-C8	-7.01	100.40	103.90
85	5	424	G	C2-N3-C4	7.01	115.40	111.90
85	5	1109	U	O5'-P-OP2	-7.01	99.39	105.70
85	5	1408	G	C5-C6-O6	-7.01	124.40	128.60
38	8	31	G	C5-C6-O6	-7.01	124.40	128.60
36	1	1061	A	N1-C6-N6	7.00	122.80	118.60
36	1	1115	G	O5'-P-OP2	-7.00	99.40	105.70
36	1	2348	A	C4-C5-C6	7.00	120.50	117.00
36	1	3007	U	O5'-P-OP2	-7.00	99.39	105.70
38	4	92	A	C4-C5-C6	7.00	120.50	117.00
85	5	1124	U	N1-C2-O2	7.00	127.70	122.80
85	5	1131	G	C4-C5-C6	7.00	123.00	118.80
1	2	691	C	C2-N3-C4	7.00	123.40	119.90
1	2	1097	G	C6-C5-N7	-7.00	126.20	130.40
1	2	1264	G	N3-C4-C5	7.00	132.10	128.60
36	1	1890	U	C4-C5-C6	-7.00	115.50	119.70
36	1	2162	U	C5-C6-N1	-7.00	119.20	122.70
36	1	2344	U	OP2-P-O3'	7.00	120.61	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2426	U	N3-C4-O4	-7.00	114.50	119.40
36	1	2938	G	C6-N1-C2	-7.00	120.90	125.10
38	4	48	A	N1-C6-N6	7.00	122.80	118.60
80	6	42	G	N1-C2-N3	7.00	128.10	123.90
80	6	630	A	N1-C6-N6	7.00	122.80	118.60
80	6	994	G	C2-N3-C4	-7.00	108.40	111.90
85	5	1443	G	C4-C5-N7	7.00	113.60	110.80
85	5	1501	U	N1-C2-O2	-7.00	117.90	122.80
85	5	1848	G	C6-C5-N7	-7.00	126.20	130.40
85	5	2181	C	C4-C5-C6	-7.00	113.90	117.40
36	1	883	A	C4-C5-C6	7.00	120.50	117.00
36	1	1154	A	C4-C5-C6	7.00	120.50	117.00
36	1	2231	C	N3-C2-O2	7.00	126.80	121.90
36	1	3026	G	N3-C4-N9	-7.00	121.80	126.00
85	5	63	A	O4'-C1'-N9	-7.00	102.60	108.20
85	5	660	A	C5-C6-N1	7.00	121.20	117.70
85	5	856	G	N1-C2-N3	7.00	128.10	123.90
85	5	1359	C	C6-N1-C2	7.00	123.10	120.30
85	5	1381	A	N9-C4-C5	-7.00	103.00	105.80
85	5	2436	U	C6-N1-C2	7.00	125.20	121.00
85	5	2726	C	C6-N1-C2	-7.00	117.50	120.30
85	5	2966	G	C4-C5-C6	7.00	123.00	118.80
85	5	3028	G	N1-C2-N3	7.00	128.10	123.90
36	1	28	C	C6-N1-C2	-7.00	117.50	120.30
36	1	1146	C	C6-N1-C2	-7.00	117.50	120.30
36	1	1934	G	C8-N9-C4	-7.00	103.60	106.40
80	6	1136	U	C5-C4-O4	7.00	130.10	125.90
85	5	1085	A	C4-C5-N7	7.00	114.20	110.70
85	5	2162	U	N1-C2-N3	7.00	119.10	114.90
85	5	2194	G	O5'-P-OP2	-7.00	99.40	105.70
1	2	67	A	N1-C6-N6	-7.00	114.40	118.60
1	2	255	U	O5'-P-OP1	-7.00	99.40	105.70
36	1	1059	G	OP1-P-OP2	7.00	130.10	119.60
36	1	1555	U	C5-C6-N1	-7.00	119.20	122.70
36	1	1789	G	C4-C5-C6	-7.00	114.60	118.80
36	1	1893	A	C8-N9-C4	-7.00	103.00	105.80
36	1	2324	A	N1-C6-N6	-7.00	114.40	118.60
36	1	2434	U	N1-C2-N3	7.00	119.10	114.90
36	1	2441	A	C8-N9-C4	-7.00	103.00	105.80
36	1	2715	A	C6-C5-N7	7.00	137.20	132.30
36	1	2741	C	C5-C6-N1	-7.00	117.50	121.00
36	1	2840	C	O5'-P-OP1	7.00	119.10	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3176	G	C4-C5-N7	7.00	113.60	110.80
38	4	90	U	N1-C2-N3	7.00	119.10	114.90
80	6	427	C	C5-C6-N1	-7.00	117.50	121.00
80	6	1111	G	N1-C6-O6	-7.00	115.70	119.90
85	5	1087	G	N7-C8-N9	7.00	116.60	113.10
85	5	2875	U	N3-C4-O4	7.00	124.30	119.40
38	8	27	U	C4-C5-C6	-7.00	115.50	119.70
38	8	47	C	N1-C2-N3	7.00	124.10	119.20
38	8	114	G	C6-C5-N7	-7.00	126.20	130.40
1	2	644	C	C6-N1-C2	-7.00	117.50	120.30
1	2	690	A	N1-C6-N6	-7.00	114.40	118.60
1	2	868	G	N1-C6-O6	7.00	124.10	119.90
36	1	1073	U	C5-C6-N1	-7.00	119.20	122.70
36	1	1314	C	C2-N1-C1'	7.00	126.50	118.80
36	1	1371	G	N3-C2-N2	-7.00	115.00	119.90
36	1	1465	A	O5'-P-OP2	-7.00	99.40	105.70
36	1	1578	C	N3-C4-N4	7.00	122.90	118.00
36	1	1649	U	C5-C6-N1	7.00	126.20	122.70
36	1	1814	A	N1-C2-N3	-7.00	125.80	129.30
36	1	2105	G	C4-C5-N7	7.00	113.60	110.80
36	1	2339	C	N1-C2-N3	-7.00	114.30	119.20
36	1	2612	U	C2-N3-C4	-7.00	122.80	127.00
36	1	3114	A	C6-N1-C2	-7.00	114.40	118.60
36	1	3161	C	N1-C2-N3	-7.00	114.30	119.20
36	1	3256	G	O5'-P-OP2	-7.00	99.40	105.70
38	4	97	A	C8-N9-C4	-7.00	103.00	105.80
80	6	1651	A	C5-N7-C8	-7.00	100.40	103.90
85	5	116	A	C5-C6-N1	-7.00	114.20	117.70
85	5	2605	G	OP2-P-O3'	7.00	120.59	105.20
85	5	2676	A	C2-N3-C4	-7.00	107.10	110.60
1	2	1637	G	C2-N3-C4	7.00	115.40	111.90
36	1	1198	C	C5-C4-N4	7.00	125.10	120.20
36	1	2746	A	N3-C4-N9	-7.00	121.80	127.40
80	6	300	A	OP1-P-OP2	-7.00	109.11	119.60
85	5	305	U	C5-C6-N1	-7.00	119.20	122.70
85	5	1727	G	N1-C2-N3	7.00	128.10	123.90
1	2	1640	U	C2-N3-C4	6.99	131.20	127.00
36	1	794	U	O5'-P-OP2	-6.99	99.41	105.70
36	1	886	C	N3-C2-O2	6.99	126.80	121.90
36	1	2184	U	N3-C4-C5	-6.99	110.40	114.60
41	L4	219	LEU	CB-CG-CD2	-6.99	99.11	111.00
80	6	114	C	N3-C4-N4	6.99	122.90	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1145	U	N1-C2-N3	6.99	119.10	114.90
85	5	115	A	N3-C4-C5	6.99	131.69	126.80
85	5	311	C	N1-C2-N3	6.99	124.10	119.20
85	5	1186	G	N3-C2-N2	-6.99	115.00	119.90
85	5	1776	G	N1-C2-N2	6.99	122.49	116.20
85	5	1931	U	C2-N3-C4	-6.99	122.80	127.00
85	5	3276	G	N1-C2-N3	-6.99	119.70	123.90
1	2	66	U	O5'-P-OP1	-6.99	99.41	105.70
1	2	78	A	N9-C4-C5	6.99	108.60	105.80
1	2	1537	U	C6-N1-C2	-6.99	116.81	121.00
36	1	3144	G	N3-C2-N2	-6.99	115.00	119.90
36	1	3271	G	C5-C6-N1	-6.99	108.00	111.50
36	1	3324	C	C5-C6-N1	-6.99	117.50	121.00
80	6	582	U	C5-C4-O4	-6.99	121.70	125.90
80	6	1732	A	N7-C8-N9	6.99	117.30	113.80
85	5	231	G	O5'-P-OP2	-6.99	99.41	105.70
85	5	280	U	N1-C2-O2	-6.99	117.91	122.80
85	5	1161	G	N1-C2-N2	6.99	122.49	116.20
1	2	1086	U	N3-C4-O4	-6.99	114.51	119.40
36	1	3208	G	N3-C4-C5	-6.99	125.11	128.60
80	6	324	U	O5'-P-OP2	-6.99	99.41	105.70
80	6	1116	A	C5-N7-C8	-6.99	100.41	103.90
85	5	676	G	C8-N9-C4	-6.99	103.60	106.40
85	5	1450	G	N3-C4-C5	6.99	132.10	128.60
85	5	1608	C	C4-C5-C6	-6.99	113.91	117.40
85	5	1908	A	C6-N1-C2	-6.99	114.41	118.60
85	5	1934	G	C4-C5-N7	-6.99	108.00	110.80
85	5	2281	A	C5-C6-N6	6.99	129.29	123.70
37	7	51	A	OP1-P-OP2	-6.99	109.11	119.60
36	1	668	G	C5-C6-O6	6.99	132.79	128.60
36	1	1753	G	C2-N3-C4	-6.99	108.41	111.90
36	1	2303	A	OP1-P-O3'	6.99	120.57	105.20
36	1	2879	C	O5'-P-OP1	-6.99	99.41	105.70
80	6	265	A	N1-C6-N6	6.99	122.79	118.60
85	5	41	G	N1-C2-N3	6.99	128.09	123.90
85	5	713	U	N3-C2-O2	6.99	127.09	122.20
85	5	2784	G	C4-C5-C6	6.99	122.99	118.80
85	5	3329	U	N3-C4-C5	-6.99	110.41	114.60
38	8	117	C	N3-C4-N4	6.99	122.89	118.00
36	1	2514	U	O5'-P-OP2	-6.99	99.41	105.70
85	5	582	G	C5-C6-O6	-6.99	124.41	128.60
85	5	2206	G	N1-C2-N3	-6.99	119.71	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	56	G	N1-C2-N3	6.99	128.09	123.90
36	1	24	G	C5-C6-N1	-6.99	108.01	111.50
36	1	675	C	C4-C5-C6	6.99	120.89	117.40
36	1	946	U	N3-C4-O4	6.99	124.29	119.40
80	6	1728	A	C5-N7-C8	-6.99	100.41	103.90
85	5	409	A	N1-C6-N6	-6.99	114.41	118.60
85	5	1548	C	C6-N1-C2	-6.99	117.51	120.30
85	5	2575	G	C5-C6-O6	6.99	132.79	128.60
85	5	2687	G	N3-C4-N9	6.99	130.19	126.00
85	5	2889	C	C5-C6-N1	6.99	124.49	121.00
37	7	44	C	N1-C2-O2	-6.99	114.71	118.90
36	1	186	U	N1-C2-O2	6.98	127.69	122.80
36	1	602	A	C6-N1-C2	6.98	122.79	118.60
36	1	1174	G	N9-C4-C5	-6.98	102.61	105.40
36	1	1465	A	OP1-P-O3'	6.98	120.56	105.20
36	1	1900	A	N1-C2-N3	6.98	132.79	129.30
38	4	105	A	C5-C6-N6	-6.98	118.11	123.70
80	6	352	A	N1-C6-N6	-6.98	114.41	118.60
85	5	673	U	O5'-P-OP1	6.98	119.08	110.70
85	5	688	G	N1-C2-N3	6.98	128.09	123.90
85	5	1467	A	C8-N9-C4	6.98	108.59	105.80
1	2	175	G	C5-C6-O6	6.98	132.79	128.60
1	2	565	C	C2-N3-C4	-6.98	116.41	119.90
1	2	755	G	N1-C6-O6	6.98	124.09	119.90
1	2	1095	G	N1-C2-N2	-6.98	109.92	116.20
1	2	1115	A	C8-N9-C4	6.98	108.59	105.80
36	1	935	U	C2-N1-C1'	6.98	126.08	117.70
73	O7	45	ARG	NE-CZ-NH1	-6.98	116.81	120.30
85	5	114	A	C5-N7-C8	-6.98	100.41	103.90
85	5	1270	A	C8-N9-C4	6.98	108.59	105.80
85	5	2440	G	N9-C4-C5	6.98	108.19	105.40
85	5	3149	G	C5-C6-O6	-6.98	124.41	128.60
1	2	1129	G	C5-C6-N1	-6.98	108.01	111.50
1	2	1374	A	O5'-P-OP2	-6.98	99.42	105.70
1	2	1489	G	N3-C4-C5	-6.98	125.11	128.60
36	1	609	G	N3-C2-N2	-6.98	115.01	119.90
36	1	2399	A	N1-C6-N6	6.98	122.79	118.60
36	1	2419	A	N3-C4-N9	-6.98	121.81	127.40
36	1	2506	U	O5'-P-OP2	6.98	119.08	110.70
36	1	2637	A	N3-C4-C5	-6.98	121.91	126.80
36	1	3060	C	C6-N1-C2	6.98	123.09	120.30
36	1	3183	A	C5-C6-N1	-6.98	114.21	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	55	G	C2-N3-C4	-6.98	108.41	111.90
85	5	1055	A	C6-N1-C2	-6.98	114.41	118.60
85	5	1452	A	N1-C2-N3	6.98	132.79	129.30
85	5	1948	G	C8-N9-C4	-6.98	103.61	106.40
85	5	2553	U	N3-C4-C5	-6.98	110.41	114.60
47	m0	7	ARG	NE-CZ-NH1	-6.98	116.81	120.30
36	1	245	U	N3-C2-O2	-6.98	117.31	122.20
36	1	1797	A	N7-C8-N9	-6.98	110.31	113.80
36	1	2216	G	C4-C5-C6	6.98	122.99	118.80
36	1	3121	U	O5'-P-OP2	6.98	119.08	110.70
85	5	935	U	OP1-P-OP2	6.98	130.07	119.60
85	5	1367	G	C6-N1-C2	6.98	129.29	125.10
85	5	1575	A	C5-C6-N6	-6.98	118.12	123.70
85	5	1859	A	C6-N1-C2	-6.98	114.41	118.60
1	2	491	C	C6-N1-C2	-6.98	117.51	120.30
36	1	54	C	N1-C2-O2	-6.98	114.71	118.90
36	1	171	G	C8-N9-C4	6.98	109.19	106.40
36	1	219	A	O5'-P-OP2	-6.98	99.42	105.70
36	1	518	G	O5'-P-OP1	6.98	119.07	110.70
36	1	652	G	O5'-P-OP2	-6.98	99.42	105.70
36	1	899	U	OP2-P-O3'	6.98	120.55	105.20
36	1	1487	G	C6-N1-C2	-6.98	120.91	125.10
36	1	2366	C	OP1-P-OP2	6.98	130.07	119.60
36	1	3270	U	O5'-P-OP2	6.98	119.07	110.70
85	5	401	U	N1-C2-N3	6.98	119.09	114.90
85	5	1488	G	N1-C2-N2	6.98	122.48	116.20
85	5	1609	C	O5'-P-OP1	6.98	119.07	110.70
85	5	1908	A	N9-C4-C5	6.98	108.59	105.80
85	5	2599	U	O4'-C1'-N1	-6.98	102.62	108.20
77	q1	21	ARG	NE-CZ-NH2	6.98	123.79	120.30
1	2	617	U	N3-C4-C5	6.98	118.79	114.60
1	2	780	G	N1-C2-N3	6.98	128.09	123.90
1	2	957	A	N7-C8-N9	-6.98	110.31	113.80
1	2	1641	G	N1-C2-N3	6.98	128.09	123.90
1	2	1808	A	C2-N3-C4	6.98	114.09	110.60
36	1	688	G	C5-N7-C8	6.98	107.79	104.30
36	1	1449	A	C5-C6-N6	6.98	129.28	123.70
36	1	2395	G	C2-N3-C4	-6.98	108.41	111.90
36	1	2704	A	O5'-P-OP1	-6.98	99.42	105.70
80	6	532	U	C5-C4-O4	6.98	130.09	125.90
80	6	1698	G	N3-C4-N9	6.98	130.19	126.00
85	5	235	A	C8-N9-C4	6.98	108.59	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1169	A	O5'-P-OP1	6.98	119.07	110.70
85	5	2208	A	N1-C2-N3	6.98	132.79	129.30
1	2	114	C	C4-C5-C6	6.97	120.89	117.40
1	2	267	U	C2-N3-C4	-6.97	122.81	127.00
1	2	1076	A	N1-C2-N3	6.97	132.79	129.30
1	2	1559	A	C8-N9-C4	-6.97	103.01	105.80
36	1	653	A	C2-N3-C4	-6.97	107.11	110.60
36	1	843	A	N3-C4-C5	6.97	131.68	126.80
36	1	953	G	C2-N3-C4	-6.97	108.41	111.90
36	1	2763	U	N1-C2-O2	6.97	127.68	122.80
36	1	3051	U	C5-C6-N1	6.97	126.19	122.70
46	L9	62	ARG	NE-CZ-NH1	6.97	123.79	120.30
80	6	432	G	N1-C2-N3	6.97	128.09	123.90
80	6	589	C	C4-C5-C6	-6.97	113.91	117.40
80	6	1116	A	N9-C4-C5	-6.97	103.01	105.80
80	6	1768	G	N1-C2-N3	6.97	128.08	123.90
85	5	560	G	C8-N9-C4	-6.97	103.61	106.40
85	5	1310	G	OP1-P-O3'	6.97	120.55	105.20
85	5	1331	U	C4-C5-C6	6.97	123.88	119.70
85	5	1350	A	C5-C6-N1	-6.97	114.21	117.70
85	5	1492	G	C6-C5-N7	-6.97	126.22	130.40
85	5	1823	A	O5'-P-OP1	-6.97	99.42	105.70
85	5	2620	G	OP2-P-O3'	6.97	120.55	105.20
85	5	3047	U	C5-C6-N1	-6.97	119.21	122.70
1	2	778	U	C5-C6-N1	-6.97	119.21	122.70
1	2	1218	C	C6-N1-C2	6.97	123.09	120.30
36	1	1013	G	C5-C6-N1	-6.97	108.01	111.50
36	1	1306	G	C2-N3-C4	-6.97	108.41	111.90
36	1	1521	G	C5-C6-N1	-6.97	108.01	111.50
36	1	1614	C	N3-C2-O2	-6.97	117.02	121.90
36	1	1658	G	N9-C4-C5	6.97	108.19	105.40
36	1	2278	C	OP1-P-O3'	6.97	120.54	105.20
37	3	46	A	N9-C4-C5	6.97	108.59	105.80
37	3	107	C	N1-C2-O2	6.97	123.08	118.90
80	6	319	U	N3-C4-C5	-6.97	110.42	114.60
80	6	534	A	N3-C4-C5	-6.97	121.92	126.80
80	6	687	G	N1-C6-O6	6.97	124.08	119.90
85	5	71	A	N1-C2-N3	6.97	132.79	129.30
85	5	1431	G	C5-C6-O6	-6.97	124.42	128.60
85	5	1586	G	C5-N7-C8	6.97	107.79	104.30
85	5	1625	A	N3-C4-C5	6.97	131.68	126.80
85	5	1808	G	O5'-P-OP2	-6.97	99.42	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2146	C	C6-N1-C2	-6.97	117.51	120.30
85	5	2716	U	N3-C4-C5	-6.97	110.42	114.60
85	5	2751	G	N1-C6-O6	6.97	124.08	119.90
57	n1	10	ARG	NE-CZ-NH1	-6.97	116.81	120.30
1	2	109	G	C6-C5-N7	-6.97	126.22	130.40
1	2	195	G	C5-C6-O6	6.97	132.78	128.60
36	1	1174	G	N3-C2-N2	6.97	124.78	119.90
36	1	2533	G	C8-N9-C4	6.97	109.19	106.40
80	6	17	C	C6-N1-C2	-6.97	117.51	120.30
80	6	148	A	C5-C6-N1	6.97	121.19	117.70
80	6	1672	G	C6-C5-N7	6.97	134.58	130.40
85	5	1006	A	C6-C5-N7	6.97	137.18	132.30
85	5	1294	A	N7-C8-N9	6.97	117.29	113.80
85	5	2675	C	N3-C4-N4	6.97	122.88	118.00
85	5	2698	G	N9-C4-C5	6.97	108.19	105.40
1	2	550	A	O5'-P-OP1	-6.97	99.43	105.70
1	2	586	G	C5-N7-C8	6.97	107.78	104.30
1	2	1179	A	P-O3'-C3'	6.97	128.06	119.70
36	1	377	A	C5-C6-N1	6.97	121.19	117.70
36	1	1045	C	OP2-P-O3'	6.97	120.53	105.20
36	1	1477	A	C6-C5-N7	-6.97	127.42	132.30
36	1	3161	C	C2-N3-C4	6.97	123.38	119.90
36	1	3342	A	N9-C4-C5	-6.97	103.01	105.80
38	4	63	G	C6-N1-C2	-6.97	120.92	125.10
80	6	877	G	OP1-P-OP2	6.97	130.05	119.60
85	5	325	A	N9-C4-C5	6.97	108.59	105.80
85	5	1451	C	C6-N1-C1'	-6.97	112.44	120.80
85	5	1880	U	N3-C2-O2	-6.97	117.32	122.20
85	5	2120	A	C5-C6-N6	6.97	129.28	123.70
85	5	3378	C	C4-C5-C6	-6.97	113.92	117.40
38	8	38	U	C6-N1-C2	-6.97	116.82	121.00
1	2	419	G	C5-C6-N1	6.97	114.98	111.50
36	1	103	G	C8-N9-C4	-6.97	103.61	106.40
36	1	754	G	C4-C5-N7	6.97	113.59	110.80
36	1	1791	C	C6-N1-C2	-6.97	117.51	120.30
36	1	2292	U	C5-C4-O4	-6.97	121.72	125.90
80	6	1133	A	N9-C4-C5	-6.97	103.01	105.80
85	5	1200	A	C6-C5-N7	-6.97	127.42	132.30
85	5	2130	G	O5'-P-OP1	6.97	119.06	110.70
85	5	2738	A	C5-C6-N1	6.97	121.18	117.70
85	5	3329	U	N1-C2-O2	-6.97	117.92	122.80
49	m3	91	ARG	NE-CZ-NH1	6.97	123.78	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	413	U	N1-C2-O2	-6.97	117.92	122.80
36	1	124	U	N1-C2-N3	6.97	119.08	114.90
36	1	125	C	C5-C6-N1	-6.97	117.52	121.00
36	1	1005	G	C8-N9-C1'	-6.97	117.94	127.00
36	1	2120	A	C8-N9-C4	-6.97	103.01	105.80
37	3	90	U	OP1-P-OP2	-6.97	109.15	119.60
38	4	146	U	O4'-C1'-N1	-6.97	102.63	108.20
49	M3	15	ARG	NE-CZ-NH2	-6.97	116.82	120.30
80	6	1153	G	N1-C2-N3	6.97	128.08	123.90
85	5	729	C	C5-C6-N1	6.97	124.48	121.00
85	5	1654	A	OP1-P-OP2	-6.97	109.15	119.60
1	2	886	U	N3-C4-O4	6.96	124.28	119.40
36	1	342	A	C8-N9-C4	-6.96	103.01	105.80
36	1	1346	G	N3-C4-C5	6.96	132.08	128.60
36	1	2247	G	C2-N3-C4	-6.96	108.42	111.90
36	1	2372	A	C5-C6-N6	-6.96	118.13	123.70
38	4	92	A	O5'-P-OP1	6.96	119.06	110.70
80	6	303	U	N3-C2-O2	-6.96	117.33	122.20
80	6	829	A	C8-N9-C4	-6.96	103.01	105.80
80	6	902	G	C8-N9-C4	-6.96	103.61	106.40
80	6	964	U	C2-N3-C4	-6.96	122.82	127.00
80	6	1519	U	N1-C2-O2	6.96	127.67	122.80
85	5	333	G	C5-C6-N1	-6.96	108.02	111.50
85	5	894	G	C5-N7-C8	-6.96	100.82	104.30
85	5	955	U	C2-N3-C4	-6.96	122.82	127.00
85	5	1425	U	N3-C4-C5	-6.96	110.42	114.60
85	5	2134	G	N3-C4-C5	6.96	132.08	128.60
85	5	2345	A	N7-C8-N9	6.96	117.28	113.80
85	5	2575	G	N1-C6-O6	-6.96	115.72	119.90
85	5	2635	A	N7-C8-N9	6.96	117.28	113.80
85	5	2747	A	C5-C6-N1	6.96	121.18	117.70
85	5	2815	G	N3-C4-C5	-6.96	125.12	128.60
85	5	2913	C	C4-C5-C6	-6.96	113.92	117.40
85	5	3057	U	OP1-P-O3'	6.96	120.52	105.20
36	1	392	G	C6-N1-C2	6.96	129.28	125.10
36	1	1218	U	O5'-P-OP1	6.96	119.06	110.70
36	1	1736	G	N1-C2-N3	6.96	128.08	123.90
36	1	2934	A	OP1-P-OP2	6.96	130.04	119.60
80	6	319	U	C2-N3-C4	6.96	131.18	127.00
80	6	702	G	C4-C5-N7	6.96	113.58	110.80
80	6	884	A	N1-C6-N6	-6.96	114.42	118.60
80	6	1201	G	N3-C4-C5	6.96	132.08	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1157	G	C5-C6-N1	6.96	114.98	111.50
85	5	1594	A	C6-N1-C2	-6.96	114.42	118.60
85	5	1917	C	N3-C4-C5	-6.96	119.11	121.90
85	5	2663	G	C5-N7-C8	-6.96	100.82	104.30
85	5	2727	A	C8-N9-C4	-6.96	103.02	105.80
85	5	2842	U	N3-C4-C5	-6.96	110.42	114.60
1	2	1582	C	C2-N3-C4	-6.96	116.42	119.90
36	1	522	A	C8-N9-C4	6.96	108.58	105.80
36	1	1790	G	N9-C4-C5	-6.96	102.61	105.40
80	6	175	G	C5-C6-N1	6.96	114.98	111.50
80	6	385	A	C6-N1-C2	-6.96	114.42	118.60
80	6	576	G	C4-C5-N7	6.96	113.58	110.80
85	5	1447	G	C6-N1-C2	-6.96	120.92	125.10
85	5	1945	A	N7-C8-N9	6.96	117.28	113.80
85	5	2373	A	C2-N3-C4	6.96	114.08	110.60
1	2	370	A	N3-C4-C5	-6.96	121.93	126.80
1	2	817	G	C5-C6-O6	-6.96	124.42	128.60
36	1	139	G	N7-C8-N9	-6.96	109.62	113.10
36	1	1355	A	C4-C5-N7	-6.96	107.22	110.70
36	1	1505	C	C6-N1-C2	6.96	123.08	120.30
80	6	384	G	C5-C6-N1	6.96	114.98	111.50
85	5	180	C	O5'-P-OP1	6.96	119.05	110.70
85	5	1011	A	N7-C8-N9	6.96	117.28	113.80
85	5	1035	G	N1-C2-N2	-6.96	109.94	116.20
85	5	1520	G	C2-N3-C4	6.96	115.38	111.90
85	5	1851	G	C2-N3-C4	-6.96	108.42	111.90
85	5	3159	C	C4-C5-C6	6.96	120.88	117.40
37	7	20	A	N7-C8-N9	-6.96	110.32	113.80
36	1	264	G	N3-C4-N9	-6.96	121.83	126.00
36	1	326	U	C2-N3-C4	6.96	131.18	127.00
36	1	515	C	C6-N1-C2	-6.96	117.52	120.30
36	1	626	U	N3-C4-O4	6.96	124.27	119.40
36	1	708	G	C6-C5-N7	-6.96	126.22	130.40
36	1	908	G	C6-C5-N7	-6.96	126.22	130.40
36	1	1299	U	C4-C5-C6	-6.96	115.53	119.70
36	1	1511	U	N1-C2-O2	-6.96	117.93	122.80
36	1	3116	G	OP1-P-O3'	6.96	120.51	105.20
36	1	3347	A	C5-C6-N1	6.96	121.18	117.70
80	6	498	G	C8-N9-C4	-6.96	103.62	106.40
80	6	551	G	N3-C4-C5	6.96	132.08	128.60
80	6	1203	A	C8-N9-C4	-6.96	103.02	105.80
80	6	1293	U	C2-N3-C4	6.96	131.18	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1521	G	N3-C4-C5	-6.96	125.12	128.60
85	5	170	G	N3-C4-C5	-6.96	125.12	128.60
85	5	369	A	N1-C6-N6	6.96	122.78	118.60
85	5	616	G	C4-C5-C6	6.96	122.97	118.80
85	5	1086	C	C4-C5-C6	6.96	120.88	117.40
85	5	1813	A	C2-N3-C4	6.96	114.08	110.60
85	5	1925	U	N1-C2-O2	-6.96	117.93	122.80
85	5	2335	G	N9-C4-C5	6.96	108.18	105.40
85	5	2881	C	C2-N3-C4	-6.96	116.42	119.90
85	5	3357	U	N3-C2-O2	-6.96	117.33	122.20
38	8	56	G	O5'-P-OP1	6.96	119.05	110.70
36	1	964	G	C2-N3-C4	6.96	115.38	111.90
36	1	1053	A	O5'-P-OP2	-6.96	99.44	105.70
36	1	1209	G	N1-C2-N2	6.96	122.46	116.20
36	1	1291	A	N1-C2-N3	6.96	132.78	129.30
36	1	1405	U	N3-C2-O2	6.96	127.07	122.20
36	1	1495	U	C5-C4-O4	6.96	130.07	125.90
36	1	2366	C	O5'-P-OP1	-6.96	99.44	105.70
36	1	2685	C	O5'-P-OP1	6.96	119.05	110.70
36	1	2704	A	OP2-P-O3'	6.96	120.50	105.20
37	3	53	U	O5'-P-OP2	-6.96	99.44	105.70
80	6	421	A	C8-N9-C4	6.96	108.58	105.80
80	6	568	G	C5-C6-N1	6.96	114.98	111.50
80	6	761	G	C5-C6-N1	6.96	114.98	111.50
80	6	919	A	C6-C5-N7	-6.96	127.43	132.30
80	6	1654	G	C4-C5-C6	6.96	122.97	118.80
85	5	366	A	OP1-P-OP2	-6.96	109.17	119.60
85	5	894	G	N3-C4-N9	-6.96	121.83	126.00
85	5	932	U	OP1-P-OP2	-6.96	109.17	119.60
85	5	1349	G	N1-C2-N3	-6.96	119.73	123.90
85	5	1906	G	O5'-P-OP1	-6.96	99.44	105.70
85	5	2242	A	C6-N1-C2	-6.96	114.43	118.60
85	5	2680	A	N3-C4-C5	-6.96	121.93	126.80
37	7	93	C	N1-C2-N3	6.96	124.07	119.20
36	1	414	U	C5-C6-N1	-6.96	119.22	122.70
36	1	742	G	N9-C4-C5	6.96	108.18	105.40
36	1	1292	C	C6-N1-C2	6.96	123.08	120.30
80	6	1154	G	C8-N9-C4	-6.96	103.62	106.40
80	6	1218	G	N7-C8-N9	-6.96	109.62	113.10
80	6	1281	G	C4-C5-N7	6.96	113.58	110.80
80	6	1573	A	OP2-P-O3'	6.96	120.50	105.20
85	5	21	G	N1-C6-O6	6.96	124.07	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	583	G	C6-N1-C2	6.96	129.27	125.10
85	5	1269	U	N1-C2-N3	6.96	119.07	114.90
85	5	1385	C	C5-C6-N1	6.96	124.48	121.00
85	5	3063	C	C6-N1-C2	-6.96	117.52	120.30
36	1	175	C	N3-C2-O2	6.95	126.77	121.90
36	1	1487	G	C2-N3-C4	6.95	115.38	111.90
36	1	1713	G	O5'-P-OP1	-6.95	99.44	105.70
36	1	2702	A	C2-N3-C4	-6.95	107.12	110.60
80	6	436	A	N1-C2-N3	6.95	132.78	129.30
85	5	392	G	O4'-C1'-N9	6.95	113.76	108.20
85	5	672	A	N1-C2-N3	-6.95	125.82	129.30
85	5	804	C	N3-C2-O2	6.95	126.77	121.90
85	5	1298	C	O5'-P-OP2	-6.95	99.44	105.70
85	5	2147	A	C2-N3-C4	6.95	114.08	110.60
85	5	2150	G	C5-C6-O6	-6.95	124.43	128.60
85	5	2605	G	C5-N7-C8	-6.95	100.82	104.30
88	n4	48	ARG	NE-CZ-NH2	-6.95	116.82	120.30
1	2	1519	G	N3-C4-C5	-6.95	125.12	128.60
36	1	670	C	OP2-P-O3'	6.95	120.49	105.20
36	1	754	G	C5-C6-N1	-6.95	108.02	111.50
36	1	2107	A	N1-C6-N6	-6.95	114.43	118.60
36	1	2370	G	C8-N9-C4	6.95	109.18	106.40
80	6	1147	A	O5'-P-OP1	-6.95	99.44	105.70
85	5	2952	G	C5-C6-O6	-6.95	124.43	128.60
1	2	1088	C	C5-C6-N1	6.95	124.47	121.00
36	1	51	A	C5-C6-N1	6.95	121.18	117.70
36	1	814	U	O5'-P-OP2	-6.95	99.44	105.70
36	1	1496	C	C5-C6-N1	6.95	124.48	121.00
36	1	2950	G	C4-C5-N7	6.95	113.58	110.80
38	4	110	C	C4-C5-C6	6.95	120.88	117.40
80	6	390	G	O5'-P-OP2	-6.95	99.44	105.70
80	6	772	G	C8-N9-C4	-6.95	103.62	106.40
80	6	957	G	C6-C5-N7	-6.95	126.23	130.40
80	6	1115	U	N1-C2-O2	-6.95	117.94	122.80
80	6	1789	G	C5-C6-N1	6.95	114.97	111.50
85	5	366	A	C5-N7-C8	6.95	107.38	103.90
85	5	826	G	C5-C6-N1	-6.95	108.03	111.50
85	5	1533	U	O5'-P-OP2	-6.95	99.44	105.70
85	5	2409	G	N3-C4-C5	-6.95	125.12	128.60
85	5	2800	G	C4-C5-N7	-6.95	108.02	110.80
85	5	2895	G	C6-N1-C2	-6.95	120.93	125.10
38	8	155	A	C5-C6-N1	6.95	121.17	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	349	U	O5'-P-OP2	-6.95	99.45	105.70
36	1	34	A	N1-C2-N3	6.95	132.77	129.30
36	1	602	A	N7-C8-N9	-6.95	110.33	113.80
36	1	1534	A	N1-C6-N6	-6.95	114.43	118.60
36	1	2133	U	N1-C2-O2	-6.95	117.94	122.80
36	1	2815	G	C5-C6-N1	-6.95	108.03	111.50
36	1	3045	G	C5-C6-N1	-6.95	108.03	111.50
36	1	3080	G	C6-N1-C2	-6.95	120.93	125.10
36	1	3336	A	N1-C2-N3	6.95	132.77	129.30
36	1	3376	A	C6-N1-C2	-6.95	114.43	118.60
80	6	1164	G	N3-C4-C5	6.95	132.07	128.60
80	6	1644	C	N3-C2-O2	-6.95	117.04	121.90
80	6	1755	A	OP1-P-OP2	6.95	130.02	119.60
85	5	199	A	C5-C6-N6	6.95	129.26	123.70
85	5	224	C	O5'-P-OP2	-6.95	99.45	105.70
85	5	1054	A	C2-N3-C4	-6.95	107.12	110.60
85	5	1807	G	C4-C5-C6	6.95	122.97	118.80
85	5	2124	G	N9-C4-C5	6.95	108.18	105.40
85	5	2298	U	C5-C6-N1	6.95	126.17	122.70
85	5	2305	G	C8-N9-C4	-6.95	103.62	106.40
85	5	2597	U	C6-N1-C2	6.95	125.17	121.00
85	5	2844	C	C4-C5-C6	-6.95	113.92	117.40
85	5	2917	G	C5-C6-O6	-6.95	124.43	128.60
1	2	408	C	O5'-P-OP1	6.95	119.04	110.70
1	2	1084	G	N1-C6-O6	-6.95	115.73	119.90
1	2	1195	G	C5-N7-C8	-6.95	100.83	104.30
36	1	371	G	C4-C5-C6	6.95	122.97	118.80
36	1	656	A	C4-C5-N7	6.95	114.17	110.70
36	1	668	G	O5'-P-OP2	-6.95	99.45	105.70
36	1	2961	G	C2-N3-C4	-6.95	108.43	111.90
36	1	3374	U	C5-C4-O4	-6.95	121.73	125.90
38	4	43	A	C2-N3-C4	6.95	114.07	110.60
38	4	157	U	N1-C2-O2	6.95	127.66	122.80
80	6	11	A	N9-C4-C5	6.95	108.58	105.80
85	5	1312	C	O5'-P-OP1	6.95	119.04	110.70
85	5	1331	U	C5-C6-N1	-6.95	119.23	122.70
85	5	1483	G	O5'-P-OP1	-6.95	99.45	105.70
37	7	57	G	N3-C4-C5	6.95	132.07	128.60
38	8	42	G	C8-N9-C4	6.95	109.18	106.40
80	6	1359	C	C6-N1-C2	6.95	123.08	120.30
80	6	1607	G	C5-C6-O6	6.95	132.77	128.60
80	6	1637	C	C5-C6-N1	-6.95	117.53	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2318	U	N1-C2-O2	-6.95	117.94	122.80
85	5	3342	A	N1-C6-N6	6.95	122.77	118.60
1	2	800	A	C5-C6-N1	-6.94	114.23	117.70
36	1	1045	C	OP1-P-OP2	-6.94	109.18	119.60
36	1	2322	C	O5'-P-OP1	6.94	119.03	110.70
36	1	2784	G	C5-C6-N1	6.94	114.97	111.50
38	4	17	A	C6-N1-C2	-6.94	114.43	118.60
85	5	2836	C	O4'-C1'-N1	6.94	113.75	108.20
38	8	84	C	N1-C2-O2	6.94	123.07	118.90
1	2	445	A	C2-N3-C4	6.94	114.07	110.60
1	2	540	G	C5-C6-N1	6.94	114.97	111.50
1	2	1534	U	C5-C4-O4	-6.94	121.73	125.90
36	1	161	G	N7-C8-N9	-6.94	109.63	113.10
36	1	281	G	C5-N7-C8	-6.94	100.83	104.30
36	1	2654	C	N1-C2-O2	6.94	123.07	118.90
36	1	2702	A	C5-C6-N1	-6.94	114.23	117.70
36	1	3151	U	O5'-P-OP2	-6.94	99.45	105.70
38	4	13	A	C4-C5-C6	6.94	120.47	117.00
80	6	483	A	N1-C6-N6	6.94	122.77	118.60
85	5	805	G	N1-C2-N2	-6.94	109.95	116.20
85	5	1925	U	C6-N1-C2	-6.94	116.83	121.00
85	5	2721	A	C5-N7-C8	-6.94	100.43	103.90
85	5	3085	G	N1-C2-N3	6.94	128.07	123.90
50	m4	4	ASP	CB-CG-OD1	-6.94	112.05	118.30
1	2	1065	C	N3-C2-O2	-6.94	117.04	121.90
1	2	1132	G	C8-N9-C4	-6.94	103.62	106.40
36	1	292	U	O5'-P-OP1	6.94	119.03	110.70
36	1	312	C	C4-C5-C6	6.94	120.87	117.40
36	1	370	U	N1-C2-O2	6.94	127.66	122.80
36	1	377	A	N3-C4-C5	-6.94	121.94	126.80
36	1	408	A	C8-N9-C4	-6.94	103.02	105.80
36	1	585	A	C8-N9-C4	6.94	108.58	105.80
36	1	971	G	N1-C2-N3	-6.94	119.74	123.90
36	1	1175	C	OP2-P-O3'	6.94	120.47	105.20
36	1	1385	C	N1-C2-O2	-6.94	114.74	118.90
36	1	2142	A	C6-N1-C2	-6.94	114.44	118.60
36	1	2259	A	C6-N1-C2	-6.94	114.44	118.60
36	1	3054	U	C2-N3-C4	-6.94	122.83	127.00
36	1	3105	U	OP1-P-O3'	6.94	120.47	105.20
37	3	13	A	C5-C6-N1	-6.94	114.23	117.70
80	6	20	G	C5-C6-O6	6.94	132.76	128.60
80	6	1785	U	C6-N1-C2	6.94	125.17	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	46	U	N1-C2-O2	-6.94	117.94	122.80
85	5	219	A	C6-N1-C2	6.94	122.76	118.60
85	5	2429	G	C4-C5-C6	6.94	122.97	118.80
85	5	3366	G	C6-N1-C2	-6.94	120.94	125.10
38	8	31	G	OP1-P-OP2	-6.94	109.19	119.60
38	8	90	U	C6-N1-C2	6.94	125.17	121.00
38	8	156	U	C4-C5-C6	-6.94	115.53	119.70
1	2	443	C	OP1-P-O3'	6.94	120.47	105.20
36	1	333	G	C5-C6-O6	-6.94	124.44	128.60
36	1	1139	G	C5-C6-O6	6.94	132.76	128.60
36	1	1312	C	OP1-P-OP2	-6.94	109.19	119.60
36	1	2279	A	C2-N3-C4	6.94	114.07	110.60
62	N6	21	THR	CA-CB-CG2	-6.94	102.69	112.40
80	6	151	G	C5-C6-O6	6.94	132.76	128.60
80	6	619	A	N7-C8-N9	6.94	117.27	113.80
80	6	641	G	C8-N9-C4	-6.94	103.62	106.40
80	6	1646	C	C5-C6-N1	6.94	124.47	121.00
85	5	1775	G	N9-C4-C5	-6.94	102.62	105.40
85	5	3094	A	C4-C5-C6	6.94	120.47	117.00
1	2	209	U	N3-C2-O2	6.94	127.06	122.20
1	2	704	U	O5'-P-OP1	-6.94	99.46	105.70
36	1	205	C	N1-C2-N3	6.94	124.06	119.20
36	1	326	U	OP2-P-O3'	6.94	120.46	105.20
36	1	1172	G	N3-C4-C5	6.94	132.07	128.60
36	1	1421	G	N9-C4-C5	-6.94	102.62	105.40
36	1	1744	G	N1-C6-O6	-6.94	115.74	119.90
36	1	2923	U	N3-C2-O2	-6.94	117.34	122.20
37	3	49	G	N1-C2-N3	-6.94	119.74	123.90
80	6	147	A	C8-N9-C4	-6.94	103.03	105.80
80	6	908	U	O5'-P-OP2	-6.94	99.46	105.70
85	5	223	U	N1-C2-N3	6.94	119.06	114.90
85	5	569	A	C4-C5-N7	-6.94	107.23	110.70
85	5	578	A	C5-C6-N6	-6.94	118.15	123.70
85	5	674	G	C5-C6-O6	6.94	132.76	128.60
85	5	969	C	OP1-P-OP2	6.94	130.01	119.60
85	5	1012	G	C6-C5-N7	-6.94	126.24	130.40
85	5	1058	U	C4-C5-C6	6.94	123.86	119.70
85	5	1130	A	N7-C8-N9	-6.94	110.33	113.80
85	5	1363	A	O5'-P-OP1	6.94	119.02	110.70
85	5	2254	U	N3-C4-C5	-6.94	110.44	114.60
85	5	2334	U	N1-C2-N3	6.94	119.06	114.90
85	5	2377	G	C2-N3-C4	-6.94	108.43	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2662	G	C4-C5-C6	6.94	122.96	118.80
85	5	2753	G	C6-C5-N7	-6.94	126.24	130.40
1	2	111	U	C5-C6-N1	6.94	126.17	122.70
1	2	1229	C	C2-N3-C4	-6.94	116.43	119.90
36	1	335	G	C8-N9-C4	-6.94	103.63	106.40
36	1	1747	G	N3-C4-C5	6.94	132.07	128.60
36	1	2551	U	OP1-P-OP2	6.94	130.00	119.60
36	1	2918	G	N9-C4-C5	6.94	108.17	105.40
85	5	1294	A	C8-N9-C4	-6.94	103.03	105.80
36	1	120	G	C5-C6-N1	6.93	114.97	111.50
36	1	921	A	O5'-P-OP1	-6.93	99.46	105.70
36	1	976	U	C6-N1-C2	6.93	125.16	121.00
36	1	1857	C	C6-N1-C2	6.93	123.07	120.30
36	1	2896	A	C8-N9-C4	6.93	108.57	105.80
36	1	2966	G	O5'-P-OP2	-6.93	99.46	105.70
36	1	3091	A	C5-C6-N1	-6.93	114.23	117.70
51	M5	152	CYS	CA-CB-SG	-6.93	101.52	114.00
85	5	32	U	N3-C2-O2	-6.93	117.35	122.20
85	5	236	G	N1-C2-N3	-6.93	119.74	123.90
85	5	442	G	N3-C2-N2	6.93	124.75	119.90
85	5	929	A	C4-C5-N7	-6.93	107.23	110.70
85	5	1048	A	C6-N1-C2	6.93	122.76	118.60
85	5	1606	U	C4-C5-C6	6.93	123.86	119.70
85	5	2684	C	N1-C2-N3	6.93	124.05	119.20
43	l6	137	ASP	CB-CG-OD1	-6.93	112.06	118.30
53	m7	53	ASP	CB-CG-OD1	-6.93	112.06	118.30
1	2	228	G	C5-C6-O6	-6.93	124.44	128.60
36	1	1203	A	C5-C6-N1	6.93	121.17	117.70
36	1	1216	C	C6-N1-C2	-6.93	117.53	120.30
36	1	1329	U	C4-C5-C6	6.93	123.86	119.70
36	1	1339	C	N1-C2-N3	6.93	124.05	119.20
36	1	1481	A	N1-C2-N3	6.93	132.77	129.30
36	1	1935	G	N1-C2-N2	-6.93	109.96	116.20
80	6	280	U	C6-N1-C2	6.93	125.16	121.00
80	6	432	G	C5-C6-O6	6.93	132.76	128.60
85	5	267	G	C5-C6-O6	-6.93	124.44	128.60
85	5	327	A	C5-C6-N6	-6.93	118.15	123.70
85	5	757	C	N3-C2-O2	6.93	126.75	121.90
85	5	1168	U	C6-N1-C2	-6.93	116.84	121.00
37	7	64	A	OP2-P-O3'	6.93	120.45	105.20
37	7	93	C	N3-C4-N4	6.93	122.85	118.00
1	2	78	A	N1-C6-N6	-6.93	114.44	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	879	U	OP1-P-OP2	6.93	130.00	119.60
36	1	1903	U	C2-N1-C1'	6.93	126.02	117.70
36	1	2415	C	C5-C4-N4	6.93	125.05	120.20
36	1	3242	G	N7-C8-N9	-6.93	109.63	113.10
80	6	1284	C	N1-C2-N3	6.93	124.05	119.20
85	5	968	G	N3-C4-N9	6.93	130.16	126.00
85	5	1668	G	N7-C8-N9	-6.93	109.64	113.10
85	5	2262	A	C8-N9-C4	6.93	108.57	105.80
85	5	2916	U	C5-C4-O4	-6.93	121.74	125.90
85	5	2997	G	N9-C4-C5	-6.93	102.63	105.40
37	7	94	C	C2-N3-C4	-6.93	116.43	119.90
38	8	60	U	C5-C4-O4	-6.93	121.74	125.90
59	n3	22	ILE	CG1-CB-CG2	-6.93	96.15	111.40
1	2	278	U	C5-C6-N1	6.93	126.17	122.70
36	1	907	G	N1-C6-O6	-6.93	115.74	119.90
36	1	1164	G	C4-C5-C6	6.93	122.96	118.80
36	1	1501	U	C6-N1-C2	6.93	125.16	121.00
36	1	2408	U	N1-C2-N3	6.93	119.06	114.90
36	1	2519	A	O5'-P-OP2	6.93	119.02	110.70
36	1	2883	U	C5-C6-N1	6.93	126.17	122.70
36	1	2958	A	C6-N1-C2	-6.93	114.44	118.60
36	1	3197	G	N3-C2-N2	-6.93	115.05	119.90
36	1	3307	A	C2-N3-C4	-6.93	107.14	110.60
80	6	472	U	C5-C6-N1	-6.93	119.23	122.70
85	5	1510	G	N1-C2-N2	6.93	122.44	116.20
85	5	1712	G	C8-N9-C4	-6.93	103.63	106.40
85	5	2784	G	C6-C5-N7	-6.93	126.24	130.40
85	5	2930	A	O5'-P-OP1	-6.93	99.46	105.70
37	7	91	G	N9-C4-C5	6.93	108.17	105.40
36	1	579	G	C4-C5-N7	6.93	113.57	110.80
36	1	693	A	N7-C8-N9	6.93	117.26	113.80
36	1	2254	U	N3-C4-O4	6.93	124.25	119.40
36	1	3304	U	C5-C4-O4	6.93	130.06	125.90
85	5	38	U	N3-C2-O2	6.93	127.05	122.20
85	5	431	U	OP2-P-O3'	6.93	120.44	105.20
85	5	1297	C	N3-C4-N4	6.93	122.85	118.00
85	5	2750	U	C5-C4-O4	-6.93	121.74	125.90
1	2	836	G	C2-N3-C4	-6.93	108.44	111.90
1	2	845	A	C5-N7-C8	6.93	107.36	103.90
36	1	55	G	C8-N9-C1'	-6.93	118.00	127.00
36	1	578	A	N1-C2-N3	6.93	132.76	129.30
36	1	579	G	OP1-P-OP2	6.93	129.99	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	794	U	C5-C6-N1	-6.93	119.24	122.70
36	1	2306	C	N1-C2-N3	-6.93	114.35	119.20
37	3	91	G	N1-C2-N2	6.93	122.43	116.20
80	6	605	A	C8-N9-C4	-6.93	103.03	105.80
80	6	1662	G	C4-C5-N7	-6.93	108.03	110.80
85	5	143	G	N9-C4-C5	-6.93	102.63	105.40
85	5	732	C	N3-C4-C5	6.93	124.67	121.90
85	5	797	U	C4-C5-C6	6.93	123.86	119.70
85	5	992	A	C5-C6-N1	-6.93	114.24	117.70
85	5	1336	U	O5'-P-OP2	6.93	119.01	110.70
85	5	2146	C	C4-C5-C6	6.93	120.86	117.40
85	5	2363	A	C6-N1-C2	-6.93	114.44	118.60
85	5	3018	C	N1-C2-N3	6.93	124.05	119.20
1	2	994	G	C5-C6-O6	-6.92	124.45	128.60
36	1	279	U	C6-N1-C2	-6.92	116.85	121.00
36	1	373	A	C2-N3-C4	6.92	114.06	110.60
36	1	425	G	C5-N7-C8	-6.92	100.84	104.30
36	1	662	U	N3-C2-O2	6.92	127.05	122.20
36	1	976	U	N3-C4-C5	6.92	118.75	114.60
36	1	1052	U	N3-C4-C5	6.92	118.75	114.60
36	1	2690	G	C5-N7-C8	-6.92	100.84	104.30
80	6	340	U	C6-N1-C1'	6.92	130.90	121.20
80	6	1739	C	C6-N1-C2	-6.92	117.53	120.30
85	5	142	C	N3-C4-C5	6.92	124.67	121.90
85	5	197	G	N1-C2-N2	-6.92	109.97	116.20
85	5	674	G	C4-C5-N7	-6.92	108.03	110.80
85	5	885	U	C4-C5-C6	-6.92	115.55	119.70
85	5	921	A	C5-C6-N6	-6.92	118.16	123.70
85	5	1164	G	C4-C5-N7	6.92	113.57	110.80
36	1	743	C	C5-C4-N4	6.92	125.05	120.20
36	1	967	A	C5-C6-N1	-6.92	114.24	117.70
36	1	1905	G	C2-N3-C4	-6.92	108.44	111.90
36	1	2705	A	C2-N3-C4	6.92	114.06	110.60
37	3	28	C	N3-C4-C5	-6.92	119.13	121.90
85	5	207	U	C2-N3-C4	-6.92	122.85	127.00
85	5	691	A	N9-C4-C5	6.92	108.57	105.80
85	5	3189	G	OP1-P-OP2	-6.92	109.22	119.60
1	2	1382	C	N3-C4-N4	6.92	122.85	118.00
36	1	937	G	C5-C6-N1	6.92	114.96	111.50
36	1	1157	G	C4-C5-C6	6.92	122.95	118.80
36	1	1440	G	N9-C4-C5	-6.92	102.63	105.40
36	1	1770	G	N1-C2-N3	6.92	128.05	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1899	G	O5'-P-OP1	-6.92	99.47	105.70
38	4	80	A	C4-C5-N7	-6.92	107.24	110.70
80	6	577	G	C5-C6-O6	-6.92	124.45	128.60
80	6	926	A	C8-N9-C4	-6.92	103.03	105.80
80	6	1303	U	N1-C2-O2	-6.92	117.95	122.80
80	6	1354	G	N7-C8-N9	6.92	116.56	113.10
85	5	742	G	C4-C5-N7	6.92	113.57	110.80
85	5	1134	G	C8-N9-C4	-6.92	103.63	106.40
85	5	1780	G	C6-C5-N7	-6.92	126.25	130.40
85	5	2232	A	C8-N9-C4	6.92	108.57	105.80
85	5	3307	A	C6-C5-N7	-6.92	127.46	132.30
37	7	11	A	O5'-P-OP2	6.92	119.01	110.70
38	8	32	C	N3-C4-C5	6.92	124.67	121.90
38	8	156	U	N1-C2-N3	-6.92	110.75	114.90
59	n3	86	ARG	NE-CZ-NH1	-6.92	116.84	120.30
1	2	1012	U	C6-N1-C2	6.92	125.15	121.00
1	2	1496	G	N9-C4-C5	6.92	108.17	105.40
36	1	313	A	N9-C4-C5	6.92	108.57	105.80
36	1	812	G	C5-C6-N1	6.92	114.96	111.50
36	1	1318	A	C4-C5-N7	-6.92	107.24	110.70
36	1	3314	A	N9-C4-C5	6.92	108.57	105.80
85	5	146	U	N3-C4-O4	-6.92	114.56	119.40
85	5	215	G	OP1-P-OP2	-6.92	109.22	119.60
85	5	2511	A	C5-C6-N6	-6.92	118.16	123.70
85	5	2977	G	O5'-P-OP2	-6.92	99.47	105.70
37	7	2	G	C8-N9-C4	-6.92	103.63	106.40
36	1	354	U	N1-C2-N3	6.92	119.05	114.90
36	1	1451	C	N1-C2-O2	-6.92	114.75	118.90
36	1	1467	A	O5'-P-OP1	6.92	119.00	110.70
36	1	2692	A	N1-C6-N6	-6.92	114.45	118.60
36	1	3083	G	C4-C5-N7	6.92	113.57	110.80
37	3	5	G	C6-N1-C2	-6.92	120.95	125.10
80	6	433	C	N3-C4-C5	6.92	124.67	121.90
80	6	729	G	N1-C2-N3	-6.92	119.75	123.90
80	6	1140	G	C6-N1-C2	-6.92	120.95	125.10
85	5	82	C	N3-C2-O2	6.92	126.74	121.90
85	5	110	G	C5-N7-C8	6.92	107.76	104.30
85	5	1067	U	O5'-P-OP2	6.92	119.00	110.70
85	5	1131	G	N3-C4-N9	-6.92	121.85	126.00
85	5	1488	G	C6-C5-N7	-6.92	126.25	130.40
85	5	2269	U	OP2-P-O3'	6.92	120.42	105.20
85	5	2752	U	C4-C5-C6	6.92	123.85	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2774	C	C5-C6-N1	-6.92	117.54	121.00
85	5	3202	G	N1-C2-N2	-6.92	109.97	116.20
36	1	1206	G	N7-C8-N9	6.92	116.56	113.10
36	1	3219	G	C4-C5-N7	-6.92	108.03	110.80
80	6	481	A	N1-C6-N6	-6.92	114.45	118.60
80	6	1011	G	C5-N7-C8	-6.92	100.84	104.30
85	5	789	A	C4-C5-N7	-6.92	107.24	110.70
85	5	1515	A	C8-N9-C4	-6.92	103.03	105.80
85	5	2209	U	OP1-P-OP2	6.92	129.98	119.60
85	5	2254	U	N1-C2-N3	6.92	119.05	114.90
85	5	2824	G	O5'-P-OP2	-6.92	99.47	105.70
1	2	410	A	C2-N3-C4	-6.92	107.14	110.60
36	1	2139	A	N9-C4-C5	6.92	108.57	105.80
36	1	3083	G	C6-N1-C2	-6.92	120.95	125.10
36	1	3133	C	N1-C2-N3	6.92	124.04	119.20
36	1	3209	A	OP2-P-O3'	6.92	120.41	105.20
85	5	1281	G	N3-C4-N9	-6.92	121.85	126.00
1	2	1417	U	C5-C6-N1	6.91	126.16	122.70
36	1	930	U	N3-C2-O2	6.91	127.04	122.20
36	1	1607	U	C5-C6-N1	6.91	126.16	122.70
36	1	1829	G	C5-N7-C8	6.91	107.76	104.30
36	1	2132	C	C2-N3-C4	-6.91	116.44	119.90
36	1	2138	A	O5'-P-OP1	-6.91	99.48	105.70
36	1	2399	A	C4-C5-N7	6.91	114.16	110.70
36	1	2567	C	N3-C4-C5	-6.91	119.13	121.90
36	1	2718	U	C2-N3-C4	-6.91	122.85	127.00
36	1	2789	U	C5-C4-O4	6.91	130.05	125.90
37	3	104	A	N1-C2-N3	6.91	132.76	129.30
80	6	981	U	OP1-P-O3'	6.91	120.41	105.20
80	6	1006	C	C2-N3-C4	-6.91	116.44	119.90
85	5	371	G	C5-C6-O6	6.91	132.75	128.60
85	5	1259	A	C5-C6-N1	6.91	121.16	117.70
85	5	2709	C	OP1-P-O3'	6.91	120.41	105.20
85	5	2822	U	N3-C4-C5	-6.91	110.45	114.60
85	5	3215	A	C8-N9-C4	-6.91	103.03	105.80
37	7	42	A	C4-C5-C6	6.91	120.46	117.00
36	1	1841	A	C5-N7-C8	6.91	107.36	103.90
80	6	788	A	C6-N1-C2	-6.91	114.45	118.60
85	5	1823	A	C5-N7-C8	-6.91	100.44	103.90
85	5	1873	U	C5-C4-O4	-6.91	121.75	125.90
36	1	1468	A	C4-C5-C6	6.91	120.45	117.00
36	1	1534	A	OP1-P-OP2	-6.91	109.23	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3106	A	C4-C5-N7	6.91	114.16	110.70
80	6	757	A	N3-C4-C5	6.91	131.64	126.80
80	6	1124	A	C8-N9-C4	6.91	108.56	105.80
85	5	873	C	C4-C5-C6	6.91	120.86	117.40
85	5	1012	G	C4-C5-N7	6.91	113.56	110.80
85	5	1943	C	C6-N1-C2	-6.91	117.54	120.30
85	5	2559	U	C5-C4-O4	6.91	130.05	125.90
85	5	2584	G	N7-C8-N9	6.91	116.56	113.10
85	5	3085	G	C2-N3-C4	-6.91	108.44	111.90
37	7	99	G	C5-C6-O6	6.91	132.75	128.60
1	2	1016	C	C2-N3-C4	-6.91	116.45	119.90
1	2	1727	A	C5-C6-N1	-6.91	114.25	117.70
36	1	518	G	C5-C6-N1	-6.91	108.05	111.50
36	1	967	A	N3-C4-C5	6.91	131.63	126.80
36	1	1349	G	C4-C5-N7	-6.91	108.04	110.80
36	1	1838	G	N3-C4-N9	6.91	130.15	126.00
36	1	2201	G	C4-C5-C6	6.91	122.94	118.80
36	1	2823	G	OP1-P-O3'	6.91	120.40	105.20
37	3	80	G	C6-C5-N7	6.91	134.54	130.40
80	6	575	C	N3-C4-C5	6.91	124.66	121.90
80	6	1629	G	OP2-P-O3'	6.91	120.40	105.20
85	5	220	G	C5-C6-O6	6.91	132.75	128.60
85	5	508	U	N3-C4-O4	6.91	124.24	119.40
85	5	750	G	N7-C8-N9	6.91	116.55	113.10
85	5	875	G	C4-C5-N7	-6.91	108.04	110.80
85	5	1559	A	O5'-P-OP1	-6.91	99.48	105.70
85	5	2229	A	C4-C5-C6	6.91	120.45	117.00
85	5	2425	G	OP1-P-OP2	6.91	129.96	119.60
85	5	2635	A	N9-C4-C5	6.91	108.56	105.80
85	5	2819	A	C8-N9-C4	6.91	108.56	105.80
36	1	115	A	N7-C8-N9	-6.91	110.35	113.80
36	1	742	G	C8-N9-C1'	6.91	135.98	127.00
36	1	2243	A	N7-C8-N9	-6.91	110.35	113.80
36	1	3080	G	O5'-P-OP2	6.91	118.99	110.70
80	6	269	G	C6-N1-C2	-6.91	120.96	125.10
85	5	613	G	OP2-P-O3'	6.91	120.40	105.20
85	5	1208	U	N3-C2-O2	-6.91	117.36	122.20
85	5	1811	G	N1-C6-O6	6.91	124.04	119.90
85	5	2404	A	N9-C4-C5	-6.91	103.04	105.80
85	5	3124	G	C5-C6-O6	6.91	132.74	128.60
38	8	114	G	C5-N7-C8	-6.91	100.85	104.30
1	2	414	C	N3-C4-C5	6.91	124.66	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1664	A	N1-C6-N6	-6.91	114.46	118.60
36	1	513	G	N9-C4-C5	6.91	108.16	105.40
36	1	1179	A	C4-C5-C6	6.91	120.45	117.00
36	1	1553	U	C5-C4-O4	-6.91	121.76	125.90
36	1	2442	G	C5-C6-N1	-6.91	108.05	111.50
36	1	2877	G	OP1-P-O3'	6.91	120.39	105.20
36	1	3065	G	N1-C2-N3	6.91	128.04	123.90
38	4	56	G	C4-C5-C6	6.91	122.94	118.80
80	6	401	A	N1-C6-N6	-6.91	114.46	118.60
80	6	1205	C	N3-C4-C5	-6.91	119.14	121.90
85	5	544	C	N1-C2-O2	6.91	123.04	118.90
85	5	941	G	C4-C5-C6	-6.91	114.66	118.80
85	5	1671	C	C4-C5-C6	-6.91	113.95	117.40
85	5	1678	G	N1-C6-O6	-6.91	115.76	119.90
85	5	2428	U	C4-C5-C6	6.91	123.84	119.70
85	5	2721	A	N9-C4-C5	6.91	108.56	105.80
85	5	3092	C	C5-C4-N4	-6.91	115.37	120.20
85	5	3182	G	C8-N9-C4	6.91	109.16	106.40
38	8	34	U	C2-N1-C1'	6.91	125.99	117.70
36	1	2429	G	N7-C8-N9	6.90	116.55	113.10
38	4	138	A	C2-N3-C4	-6.90	107.15	110.60
80	6	897	C	N3-C4-C5	-6.90	119.14	121.90
85	5	104	G	C6-C5-N7	-6.90	126.26	130.40
85	5	506	U	N3-C4-C5	-6.90	110.46	114.60
85	5	667	C	OP1-P-O3'	6.90	120.39	105.20
85	5	2934	A	N1-C6-N6	-6.90	114.46	118.60
1	2	599	A	C5-N7-C8	6.90	107.35	103.90
1	2	630	A	OP1-P-OP2	6.90	129.95	119.60
1	2	734	G	C4-C5-N7	6.90	113.56	110.80
36	1	423	A	C5-N7-C8	-6.90	100.45	103.90
36	1	1622	U	N1-C2-N3	6.90	119.04	114.90
36	1	2381	G	C4-C5-C6	6.90	122.94	118.80
36	1	2764	C	N3-C4-N4	6.90	122.83	118.00
36	1	2777	G	C4-C5-N7	-6.90	108.04	110.80
38	4	152	G	C4-C5-N7	-6.90	108.04	110.80
80	6	575	C	N3-C2-O2	-6.90	117.07	121.90
80	6	581	U	N3-C2-O2	6.90	127.03	122.20
80	6	943	C	N3-C4-C5	6.90	124.66	121.90
11	s9	25	ASP	CB-CG-OD1	-6.90	112.09	118.30
85	5	1723	A	C5-C6-N1	6.90	121.15	117.70
85	5	2828	G	C6-N1-C2	-6.90	120.96	125.10
85	5	3060	C	OP1-P-O3'	-6.90	90.02	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3171	U	N3-C4-C5	6.90	118.74	114.60
37	7	52	G	N1-C2-N3	6.90	128.04	123.90
1	2	545	A	O5'-P-OP2	6.90	118.98	110.70
1	2	1624	C	N1-C2-O2	-6.90	114.76	118.90
36	1	299	G	C5-C6-O6	-6.90	124.46	128.60
36	1	900	G	OP1-P-O3'	6.90	120.38	105.20
36	1	903	U	O5'-P-OP2	-6.90	99.49	105.70
36	1	1602	A	O5'-P-OP2	-6.90	99.49	105.70
36	1	1623	G	C8-N9-C4	-6.90	103.64	106.40
36	1	1802	C	N3-C2-O2	6.90	126.73	121.90
36	1	1824	U	C5-C4-O4	-6.90	121.76	125.90
36	1	2185	G	C5-C6-O6	6.90	132.74	128.60
36	1	2243	A	C4-C5-N7	-6.90	107.25	110.70
36	1	2633	U	OP1-P-OP2	-6.90	109.25	119.60
36	1	3192	U	O5'-P-OP2	-6.90	99.49	105.70
38	4	66	A	N7-C8-N9	6.90	117.25	113.80
38	4	116	G	O4'-C1'-N9	-6.90	102.68	108.20
80	6	14	C	C6-N1-C2	-6.90	117.54	120.30
85	5	2229	A	C6-N1-C2	-6.90	114.46	118.60
85	5	2787	G	N3-C2-N2	-6.90	115.07	119.90
37	7	27	A	C5-C6-N6	-6.90	118.18	123.70
37	7	32	U	C6-N1-C2	6.90	125.14	121.00
36	1	14	U	O5'-P-OP2	-6.90	99.49	105.70
36	1	567	G	C2-N3-C4	-6.90	108.45	111.90
36	1	1396	C	N1-C2-O2	-6.90	114.76	118.90
85	5	1146	C	C6-N1-C2	6.90	123.06	120.30
85	5	2728	G	N1-C6-O6	-6.90	115.76	119.90
85	5	2845	A	C5-C6-N1	6.90	121.15	117.70
85	5	3142	A	N1-C6-N6	6.90	122.74	118.60
37	7	91	G	N3-C4-N9	6.90	130.14	126.00
36	1	353	G	N9-C4-C5	6.90	108.16	105.40
36	1	957	C	O5'-P-OP2	-6.90	99.49	105.70
36	1	969	C	OP2-P-O3'	6.90	120.37	105.20
36	1	1819	U	O5'-P-OP2	-6.90	99.49	105.70
36	1	2127	U	N3-C2-O2	6.90	127.03	122.20
36	1	2410	U	O5'-P-OP1	-6.90	99.49	105.70
36	1	2959	C	N3-C2-O2	6.90	126.73	121.90
36	1	3291	G	C8-N9-C4	6.90	109.16	106.40
80	6	61	A	N1-C2-N3	6.90	132.75	129.30
85	5	281	G	C5-C6-O6	-6.90	124.46	128.60
85	5	1273	A	N1-C6-N6	6.90	122.74	118.60
85	5	1316	C	C5-C6-N1	6.90	124.45	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1507	G	C6-N1-C2	-6.90	120.96	125.10
85	5	1607	U	N3-C4-O4	6.90	124.23	119.40
1	2	1508	A	N9-C4-C5	6.90	108.56	105.80
36	1	568	G	C2-N3-C4	-6.90	108.45	111.90
36	1	1151	U	C4-C5-C6	6.90	123.84	119.70
36	1	1290	A	C5-C6-N1	-6.90	114.25	117.70
36	1	1300	G	OP1-P-OP2	-6.90	109.26	119.60
36	1	1679	A	C2-N3-C4	-6.90	107.15	110.60
36	1	1778	G	C8-N9-C4	6.90	109.16	106.40
36	1	1789	G	N3-C4-C5	6.90	132.05	128.60
36	1	2329	C	C2-N3-C4	-6.90	116.45	119.90
36	1	598	A	N1-C2-N3	6.89	132.75	129.30
36	1	1279	C	C6-N1-C2	-6.89	117.54	120.30
36	1	1725	C	N3-C2-O2	6.89	126.73	121.90
36	1	1906	G	C5-C6-N1	-6.89	108.05	111.50
80	6	310	C	C6-N1-C2	6.89	123.06	120.30
85	5	1010	G	O5'-P-OP2	-6.89	99.50	105.70
85	5	1781	C	C2-N3-C4	6.89	123.35	119.90
85	5	2122	G	C5-N7-C8	-6.89	100.85	104.30
85	5	2769	A	OP1-P-OP2	6.89	129.94	119.60
1	2	1173	C	C6-N1-C2	6.89	123.06	120.30
1	2	1322	C	O5'-P-OP2	-6.89	99.50	105.70
36	1	887	G	C6-C5-N7	6.89	134.53	130.40
36	1	2628	A	N9-C4-C5	6.89	108.56	105.80
36	1	2856	G	C4-C5-N7	-6.89	108.04	110.80
36	1	3007	U	N3-C4-C5	6.89	118.73	114.60
36	1	3173	G	C5-C6-N1	6.89	114.95	111.50
37	3	30	G	N1-C6-O6	6.89	124.03	119.90
80	6	411	C	C2-N3-C4	-6.89	116.45	119.90
80	6	563	U	C6-N1-C2	-6.89	116.86	121.00
80	6	1649	G	C6-C5-N7	-6.89	126.26	130.40
85	5	106	A	C5-C6-N6	-6.89	118.19	123.70
85	5	1441	G	N9-C4-C5	-6.89	102.64	105.40
85	5	2520	A	C6-C5-N7	-6.89	127.47	132.30
85	5	3077	A	O5'-P-OP2	-6.89	99.50	105.70
85	5	3103	A	C5-C6-N1	6.89	121.15	117.70
37	7	13	A	N3-C4-C5	-6.89	121.98	126.80
1	2	954	A	N1-C2-N3	6.89	132.75	129.30
36	1	1450	G	C4-C5-C6	-6.89	114.67	118.80
36	1	1738	C	C5-C6-N1	-6.89	117.56	121.00
36	1	2585	G	C6-N1-C2	-6.89	120.97	125.10
36	1	2943	G	O5'-P-OP1	6.89	118.97	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3007	U	C5-C6-N1	-6.89	119.25	122.70
80	6	1678	A	C5-C6-N1	-6.89	114.25	117.70
85	5	304	G	N7-C8-N9	6.89	116.55	113.10
85	5	1053	A	N7-C8-N9	6.89	117.25	113.80
85	5	1095	U	N1-C2-N3	6.89	119.03	114.90
85	5	1803	C	N3-C2-O2	6.89	126.72	121.90
37	7	101	G	C4-C5-C6	6.89	122.94	118.80
1	2	1342	C	C6-N1-C2	6.89	123.06	120.30
36	1	151	A	C6-C5-N7	-6.89	127.48	132.30
36	1	571	U	OP1-P-OP2	6.89	129.93	119.60
36	1	1460	A	C8-N9-C4	-6.89	103.04	105.80
36	1	2764	C	C5-C6-N1	6.89	124.44	121.00
36	1	2852	C	C6-N1-C1'	-6.89	112.53	120.80
36	1	3371	G	N1-C2-N3	6.89	128.03	123.90
38	4	114	G	C5-C6-N1	-6.89	108.06	111.50
85	5	30	G	N3-C2-N2	6.89	124.72	119.90
85	5	80	G	O5'-P-OP1	6.89	118.97	110.70
85	5	115	A	C4-C5-N7	6.89	114.14	110.70
85	5	1258	U	N3-C4-C5	-6.89	110.47	114.60
85	5	1399	A	N9-C4-C5	-6.89	103.04	105.80
85	5	1477	A	N7-C8-N9	6.89	117.25	113.80
85	5	2157	G	N3-C4-C5	-6.89	125.16	128.60
85	5	2640	A	C6-N1-C2	-6.89	114.47	118.60
85	5	3158	G	O5'-P-OP1	6.89	118.97	110.70
1	2	1576	A	C2-N3-C4	-6.89	107.16	110.60
36	1	967	A	N7-C8-N9	6.89	117.24	113.80
36	1	1480	G	N9-C4-C5	-6.89	102.64	105.40
36	1	2190	U	OP2-P-O3'	6.89	120.35	105.20
36	1	3127	A	C5-N7-C8	-6.89	100.46	103.90
36	1	3215	A	N3-C4-C5	-6.89	121.98	126.80
80	6	209	U	N3-C2-O2	6.89	127.02	122.20
80	6	683	C	C6-N1-C2	-6.89	117.55	120.30
80	6	1033	C	C6-N1-C2	6.89	123.06	120.30
85	5	286	U	O5'-P-OP1	-6.89	99.50	105.70
85	5	725	G	C4-N9-C1'	6.89	135.45	126.50
85	5	1294	A	C5-N7-C8	-6.89	100.46	103.90
85	5	1853	U	N3-C4-C5	-6.89	110.47	114.60
85	5	2793	G	O5'-P-OP1	-6.89	99.50	105.70
85	5	2993	G	N3-C4-N9	6.89	130.13	126.00
85	5	3189	G	O5'-P-OP2	6.89	118.97	110.70
36	1	166	C	C6-N1-C2	-6.89	117.55	120.30
36	1	801	A	N1-C6-N6	6.89	122.73	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	824	C	C6-N1-C2	-6.89	117.55	120.30
36	1	1307	G	C5-N7-C8	6.89	107.74	104.30
36	1	2222	A	O5'-P-OP2	-6.89	99.50	105.70
80	6	1314	U	OP1-P-OP2	-6.89	109.27	119.60
85	5	2273	G	N1-C6-O6	-6.89	115.77	119.90
85	5	2608	G	C5-C6-N1	-6.89	108.06	111.50
38	8	55	U	C4-C5-C6	6.89	123.83	119.70
38	8	143	U	N1-C2-N3	6.89	119.03	114.90
1	2	36	C	N3-C2-O2	6.88	126.72	121.90
1	2	700	C	N3-C4-C5	-6.88	119.15	121.90
36	1	73	C	N3-C2-O2	6.88	126.72	121.90
36	1	591	G	N3-C4-N9	-6.88	121.87	126.00
36	1	1204	A	N7-C8-N9	-6.88	110.36	113.80
36	1	1507	G	OP1-P-OP2	6.88	129.93	119.60
36	1	2097	U	N1-C2-N3	-6.88	110.77	114.90
36	1	2731	U	N3-C4-C5	-6.88	110.47	114.60
38	4	46	G	C8-N9-C4	6.88	109.15	106.40
49	M3	67	ARG	NE-CZ-NH1	-6.88	116.86	120.30
80	6	356	G	N1-C2-N2	-6.88	110.00	116.20
80	6	989	U	C4-C5-C6	6.88	123.83	119.70
80	6	1213	G	C4-C5-C6	6.88	122.93	118.80
85	5	806	A	C2-N3-C4	-6.88	107.16	110.60
85	5	808	A	C4-C5-N7	6.88	114.14	110.70
85	5	1177	G	N1-C2-N3	6.88	128.03	123.90
85	5	1514	G	O5'-P-OP2	-6.88	99.50	105.70
85	5	1531	C	C5-C6-N1	6.88	124.44	121.00
85	5	2314	U	O5'-P-OP1	6.88	118.96	110.70
85	5	3022	G	N3-C4-C5	-6.88	125.16	128.60
1	2	920	C	N3-C4-N4	6.88	122.82	118.00
36	1	2405	C	C6-N1-C1'	-6.88	112.54	120.80
38	4	15	G	N3-C2-N2	6.88	124.72	119.90
38	4	116	G	O5'-P-OP1	6.88	118.96	110.70
80	6	523	G	N3-C2-N2	6.88	124.72	119.90
80	6	1537	C	C6-N1-C2	-6.88	117.55	120.30
85	5	796	U	O5'-P-OP2	6.88	118.96	110.70
85	5	1834	U	C5-C4-O4	6.88	130.03	125.90
85	5	2956	A	O5'-P-OP2	6.88	118.96	110.70
85	5	3331	U	O5'-P-OP2	-6.88	99.50	105.70
38	8	115	C	N3-C4-N4	6.88	122.82	118.00
1	2	672	G	N1-C6-O6	6.88	124.03	119.90
36	1	538	G	N1-C6-O6	6.88	124.03	119.90
36	1	586	C	C4-C5-C6	-6.88	113.96	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	780	A	N7-C8-N9	6.88	117.24	113.80
36	1	864	G	O5'-P-OP1	-6.88	99.51	105.70
37	3	51	A	N1-C2-N3	-6.88	125.86	129.30
37	3	82	G	N3-C4-C5	-6.88	125.16	128.60
80	6	1583	A	C2-N3-C4	-6.88	107.16	110.60
80	6	1739	C	O5'-P-OP1	-6.88	99.51	105.70
85	5	730	C	N3-C4-N4	6.88	122.82	118.00
85	5	1588	A	C4-C5-N7	-6.88	107.26	110.70
85	5	1649	U	N3-C4-O4	6.88	124.22	119.40
85	5	1834	U	O5'-P-OP1	6.88	118.96	110.70
85	5	2625	C	O5'-P-OP2	-6.88	99.51	105.70
85	5	2700	G	C6-N1-C2	-6.88	120.97	125.10
38	8	131	A	C5-C6-N1	6.88	121.14	117.70
36	1	2687	G	O5'-P-OP1	6.88	118.95	110.70
36	1	3030	G	N3-C4-C5	-6.88	125.16	128.60
36	1	3232	G	N1-C2-N3	6.88	128.03	123.90
85	5	1186	G	N1-C2-N3	6.88	128.03	123.90
85	5	3195	U	N3-C4-C5	6.88	118.73	114.60
1	2	873	C	C5-C6-N1	-6.88	117.56	121.00
36	1	80	G	C5-N7-C8	6.88	107.74	104.30
36	1	353	G	N1-C2-N3	6.88	128.03	123.90
36	1	391	A	C6-N1-C2	-6.88	114.47	118.60
36	1	907	G	N1-C2-N2	-6.88	110.01	116.20
36	1	1641	U	N1-C2-N3	6.88	119.03	114.90
36	1	2213	A	OP1-P-OP2	-6.88	109.28	119.60
36	1	2815	G	C5-N7-C8	-6.88	100.86	104.30
36	1	2950	G	N7-C8-N9	6.88	116.54	113.10
36	1	3199	G	C5-C6-O6	6.88	132.73	128.60
80	6	1116	A	N1-C6-N6	6.88	122.73	118.60
80	6	1771	U	N3-C4-O4	6.88	124.22	119.40
85	5	508	U	O4'-C1'-N1	6.88	113.70	108.20
1	2	364	G	N7-C8-N9	6.88	116.54	113.10
1	2	1330	U	N3-C4-O4	6.88	124.21	119.40
36	1	919	U	C6-N1-C2	-6.88	116.87	121.00
36	1	1432	C	O5'-P-OP1	-6.88	99.51	105.70
80	6	318	U	C4-C5-C6	6.88	123.83	119.70
80	6	1006	C	OP2-P-O3'	6.88	120.33	105.20
80	6	1730	A	C5-C6-N6	-6.88	118.20	123.70
85	5	275	U	C6-N1-C2	-6.88	116.88	121.00
85	5	947	G	C8-N9-C1'	-6.88	118.06	127.00
85	5	1479	U	N3-C4-O4	-6.88	114.59	119.40
85	5	2289	U	N3-C2-O2	-6.88	117.39	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2864	A	N1-C2-N3	-6.88	125.86	129.30
1	2	611	U	N1-C2-O2	6.88	127.61	122.80
1	2	1761	G	C4-C5-N7	6.88	113.55	110.80
80	6	511	A	N1-C2-N3	-6.88	125.86	129.30
1	2	74	U	C2-N1-C1'	-6.87	109.45	117.70
36	1	86	G	N9-C4-C5	6.87	108.15	105.40
36	1	102	C	C6-N1-C2	6.87	123.05	120.30
36	1	611	A	C2-N3-C4	-6.87	107.16	110.60
36	1	614	C	N3-C2-O2	6.87	126.71	121.90
36	1	2125	A	C6-C5-N7	-6.87	127.49	132.30
36	1	2694	A	OP1-P-OP2	6.87	129.91	119.60
37	3	19	C	C4-C5-C6	-6.87	113.96	117.40
37	3	81	U	C2-N3-C4	-6.87	122.88	127.00
38	4	153	U	C2-N3-C4	-6.87	122.88	127.00
80	6	886	U	N3-C4-C5	6.87	118.72	114.60
85	5	1045	C	N3-C4-N4	6.87	122.81	118.00
85	5	1917	C	N3-C4-N4	6.87	122.81	118.00
85	5	2258	U	N1-C2-O2	6.87	127.61	122.80
85	5	3161	C	C2-N3-C4	6.87	123.34	119.90
37	7	79	A	C2-N3-C4	-6.87	107.16	110.60
1	2	148	A	C5-C6-N1	-6.87	114.26	117.70
36	1	3306	U	N3-C4-O4	-6.87	114.59	119.40
80	6	924	A	C5-N7-C8	-6.87	100.47	103.90
85	5	588	G	C4-C5-N7	-6.87	108.05	110.80
85	5	1131	G	C8-N9-C4	-6.87	103.65	106.40
85	5	1575	A	N1-C2-N3	-6.87	125.86	129.30
85	5	1847	A	N1-C6-N6	-6.87	114.48	118.60
85	5	2406	C	C4-C5-C6	6.87	120.84	117.40
85	5	2758	A	N1-C6-N6	-6.87	114.48	118.60
37	7	107	C	C6-N1-C2	6.87	123.05	120.30
38	8	39	G	N9-C4-C5	6.87	108.15	105.40
1	2	1636	C	C5-C6-N1	6.87	124.44	121.00
36	1	761	A	C4-C5-C6	6.87	120.44	117.00
36	1	2614	G	C5-C6-O6	6.87	132.72	128.60
36	1	2995	A	C2-N3-C4	-6.87	107.17	110.60
36	1	3103	A	N3-C4-C5	6.87	131.61	126.80
85	5	2603	G	C5-C6-N1	-6.87	108.06	111.50
1	2	989	C	C6-N1-C2	-6.87	117.55	120.30
1	2	1560	A	O5'-P-OP2	6.87	118.94	110.70
36	1	862	U	C5-C4-O4	-6.87	121.78	125.90
36	1	2593	A	C2-N3-C4	6.87	114.03	110.60
36	1	2787	G	O5'-P-OP2	-6.87	99.52	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3087	A	C4-C5-C6	6.87	120.43	117.00
80	6	40	A	C4-C5-C6	6.87	120.43	117.00
85	5	270	U	N3-C4-O4	6.87	124.21	119.40
85	5	352	A	N1-C6-N6	-6.87	114.48	118.60
85	5	821	U	O5'-P-OP1	6.87	118.94	110.70
85	5	881	C	N1-C2-O2	6.87	123.02	118.90
85	5	1007	U	N3-C2-O2	6.87	127.01	122.20
85	5	1146	C	N3-C4-C5	-6.87	119.15	121.90
85	5	1330	A	OP1-P-OP2	-6.87	109.30	119.60
85	5	1381	A	N1-C6-N6	6.87	122.72	118.60
85	5	1886	A	N3-C4-C5	6.87	131.61	126.80
85	5	1924	U	OP1-P-OP2	6.87	129.90	119.60
85	5	2403	G	O5'-P-OP2	6.87	118.94	110.70
85	5	2594	C	C5-C4-N4	-6.87	115.39	120.20
85	5	3214	U	C5-C6-N1	-6.87	119.27	122.70
85	5	3233	C	N1-C2-O2	-6.87	114.78	118.90
85	5	3319	U	N1-C2-N3	6.87	119.02	114.90
85	5	3342	A	C5-C6-N6	-6.87	118.20	123.70
1	2	148	A	C2-N3-C4	-6.87	107.17	110.60
36	1	1933	A	OP1-P-OP2	-6.87	109.30	119.60
36	1	2098	C	C2-N3-C4	6.87	123.33	119.90
36	1	2361	A	N1-C2-N3	6.87	132.73	129.30
36	1	2541	U	N1-C2-O2	6.87	127.61	122.80
36	1	2635	A	O5'-P-OP1	6.87	118.94	110.70
85	5	910	G	C6-C5-N7	-6.87	126.28	130.40
36	1	20	A	N3-C4-C5	-6.87	121.99	126.80
36	1	86	G	N1-C2-N3	6.87	128.02	123.90
36	1	422	A	O5'-P-OP2	6.87	118.94	110.70
36	1	527	A	O5'-P-OP1	6.87	118.94	110.70
36	1	1305	U	OP2-P-O3'	6.87	120.30	105.20
36	1	1418	A	C4-C5-C6	-6.87	113.57	117.00
36	1	2752	U	O5'-P-OP2	-6.87	99.52	105.70
36	1	2894	C	C2-N3-C4	-6.87	116.47	119.90
36	1	3319	U	N1-C2-O2	-6.87	118.00	122.80
85	5	717	C	N3-C2-O2	-6.87	117.09	121.90
1	2	57	G	C5-C6-N1	-6.86	108.07	111.50
36	1	664	U	OP1-P-OP2	-6.86	109.30	119.60
36	1	720	A	C6-N1-C2	-6.86	114.48	118.60
36	1	1819	U	N3-C2-O2	6.86	127.00	122.20
36	1	2932	U	N1-C2-O2	-6.86	118.00	122.80
38	4	93	U	OP1-P-OP2	6.86	129.89	119.60
80	6	20	G	OP1-P-OP2	6.86	129.90	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	330	G	N1-C6-O6	6.86	124.02	119.90
80	6	1678	A	N3-C4-C5	6.86	131.60	126.80
85	5	1253	U	N3-C4-C5	6.86	118.72	114.60
85	5	1463	U	OP1-P-OP2	-6.86	109.31	119.60
85	5	1495	U	N1-C2-N3	6.86	119.02	114.90
85	5	2234	G	N3-C4-C5	6.86	132.03	128.60
85	5	2761	G	C4-C5-N7	6.86	113.55	110.80
36	1	193	C	N1-C2-O2	-6.86	114.78	118.90
36	1	1389	G	N1-C6-O6	6.86	124.02	119.90
36	1	1399	A	C5-N7-C8	-6.86	100.47	103.90
36	1	1679	A	C5-N7-C8	-6.86	100.47	103.90
36	1	2898	G	C4-C5-N7	-6.86	108.06	110.80
85	5	968	G	C8-N9-C1'	-6.86	118.08	127.00
85	5	2705	A	C5-N7-C8	-6.86	100.47	103.90
85	5	2978	U	C6-N1-C2	-6.86	116.88	121.00
1	2	1621	G	C2-N3-C4	-6.86	108.47	111.90
1	2	1714	A	C5-C6-N1	-6.86	114.27	117.70
36	1	375	A	C5-C6-N6	6.86	129.19	123.70
36	1	998	A	C2-N3-C4	-6.86	107.17	110.60
36	1	1227	C	C5-C4-N4	-6.86	115.40	120.20
36	1	1464	G	N9-C4-C5	-6.86	102.66	105.40
36	1	1613	A	N1-C2-N3	6.86	132.73	129.30
36	1	2926	A	C6-C5-N7	-6.86	127.50	132.30
36	1	3110	C	C4-C5-C6	6.86	120.83	117.40
80	6	602	U	C6-N1-C2	-6.86	116.88	121.00
85	5	284	A	O5'-P-OP1	6.86	118.93	110.70
85	5	305	U	C2-N3-C4	-6.86	122.88	127.00
85	5	804	C	C4-C5-C6	-6.86	113.97	117.40
85	5	866	A	C5-C6-N6	-6.86	118.21	123.70
85	5	1519	G	N1-C2-N3	-6.86	119.78	123.90
85	5	2316	G	C2-N3-C4	-6.86	108.47	111.90
85	5	2874	G	C4-C5-C6	6.86	122.92	118.80
37	7	91	G	OP1-P-OP2	6.86	129.89	119.60
38	8	35	C	C5-C6-N1	6.86	124.43	121.00
36	1	982	C	N1-C2-N3	-6.86	114.40	119.20
36	1	1210	U	N1-C2-O2	6.86	127.60	122.80
36	1	2375	G	N1-C6-O6	-6.86	115.78	119.90
85	5	555	U	N3-C4-C5	-6.86	110.48	114.60
85	5	891	G	N1-C6-O6	-6.86	115.78	119.90
85	5	1207	G	C6-N1-C2	-6.86	120.98	125.10
1	2	691	C	N3-C4-C5	-6.86	119.16	121.90
36	1	20	A	C8-N9-C4	-6.86	103.06	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	669	U	C2-N3-C4	-6.86	122.89	127.00
36	1	789	A	N1-C2-N3	6.86	132.73	129.30
36	1	1103	A	C5-C6-N6	-6.86	118.21	123.70
36	1	1129	A	C5-C6-N6	-6.86	118.21	123.70
36	1	3071	U	N3-C4-C5	-6.86	110.49	114.60
41	L4	325	LEU	CB-CG-CD2	-6.86	99.34	111.00
80	6	108	A	C5-C6-N1	6.86	121.13	117.70
85	5	53	G	C8-N9-C1'	-6.86	118.08	127.00
85	5	1492	G	N3-C4-N9	-6.86	121.89	126.00
85	5	1655	G	N7-C8-N9	-6.86	109.67	113.10
85	5	3207	U	N1-C2-N3	6.86	119.01	114.90
37	7	99	G	C6-N1-C2	-6.86	120.99	125.10
1	2	1159	G	N7-C8-N9	6.86	116.53	113.10
36	1	358	G	N1-C2-N2	6.86	122.37	116.20
36	1	725	G	N9-C4-C5	-6.86	102.66	105.40
36	1	767	U	O4'-C1'-N1	6.86	113.68	108.20
36	1	941	G	C5-C6-N1	6.86	114.93	111.50
36	1	1418	A	C5-C6-N1	6.86	121.13	117.70
36	1	1498	A	C8-N9-C4	6.86	108.54	105.80
36	1	1705	U	C5-C4-O4	6.86	130.01	125.90
36	1	2425	G	C6-N1-C2	-6.86	120.99	125.10
37	3	2	G	C4-C5-C6	6.86	122.91	118.80
80	6	161	U	C5-C4-O4	6.86	130.01	125.90
80	6	374	U	N1-C2-N3	6.86	119.01	114.90
85	5	130	A	O5'-P-OP1	-6.86	99.53	105.70
85	5	131	C	OP1-P-OP2	-6.86	109.32	119.60
85	5	1882	G	C2-N3-C4	-6.86	108.47	111.90
85	5	2115	G	OP2-P-O3'	-6.86	90.12	105.20
85	5	2116	G	C4-C5-N7	6.86	113.54	110.80
85	5	2771	U	C5-C6-N1	-6.86	119.27	122.70
85	5	2877	G	N3-C4-C5	6.86	132.03	128.60
24	D2	9	ASP	CB-CG-OD1	-6.85	112.13	118.30
80	6	467	G	C8-N9-C1'	-6.85	118.09	127.00
80	6	1196	A	N9-C4-C5	6.85	108.54	105.80
85	5	3213	A	C8-N9-C4	-6.85	103.06	105.80
85	5	3296	A	N1-C2-N3	6.85	132.73	129.30
1	2	422	G	N1-C6-O6	6.85	124.01	119.90
36	1	23	A	N1-C2-N3	6.85	132.73	129.30
36	1	85	A	C5-C6-N6	6.85	129.18	123.70
36	1	269	G	C5-N7-C8	-6.85	100.87	104.30
36	1	799	G	C2-N3-C4	-6.85	108.47	111.90
36	1	992	A	C5-N7-C8	-6.85	100.47	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1120	A	C5-N7-C8	6.85	107.33	103.90
36	1	1349	G	N3-C4-N9	6.85	130.11	126.00
36	1	1509	A	C4-C5-N7	6.85	114.13	110.70
36	1	1759	C	N3-C4-N4	-6.85	113.20	118.00
36	1	2806	U	C5-C4-O4	6.85	130.01	125.90
80	6	1143	A	N9-C4-C5	6.85	108.54	105.80
80	6	1527	C	C2-N3-C4	6.85	123.33	119.90
85	5	54	C	C4-C5-C6	6.85	120.83	117.40
85	5	651	G	C4-C5-N7	6.85	113.54	110.80
85	5	658	G	N9-C4-C5	6.85	108.14	105.40
85	5	830	A	C8-N9-C4	-6.85	103.06	105.80
85	5	965	A	N7-C8-N9	6.85	117.23	113.80
85	5	1604	G	C5-C6-N1	6.85	114.93	111.50
85	5	1786	G	N7-C8-N9	6.85	116.53	113.10
85	5	2141	U	OP2-P-O3'	6.85	120.27	105.20
85	5	2769	A	C4-C5-N7	-6.85	107.27	110.70
1	2	411	C	C4-C5-C6	6.85	120.83	117.40
36	1	313	A	O5'-P-OP2	-6.85	99.53	105.70
36	1	804	C	N3-C4-N4	6.85	122.80	118.00
36	1	1952	G	N7-C8-N9	6.85	116.53	113.10
37	3	13	A	N7-C8-N9	6.85	117.23	113.80
38	4	121	U	OP1-P-OP2	6.85	129.88	119.60
80	6	1186	U	N3-C2-O2	-6.85	117.40	122.20
85	5	541	U	C5-C4-O4	6.85	130.01	125.90
85	5	2421	U	C2-N1-C1'	6.85	125.92	117.70
85	5	2735	U	N3-C4-C5	-6.85	110.49	114.60
85	5	2915	U	O5'-P-OP1	6.85	118.92	110.70
1	2	120	U	N1-C2-O2	-6.85	118.00	122.80
1	2	1022	A	C2-N3-C4	6.85	114.02	110.60
1	2	1588	G	C5-N7-C8	-6.85	100.88	104.30
36	1	13	A	N7-C8-N9	6.85	117.22	113.80
36	1	526	C	N3-C2-O2	-6.85	117.11	121.90
36	1	2614	G	C6-N1-C2	-6.85	120.99	125.10
36	1	2947	G	N9-C4-C5	-6.85	102.66	105.40
36	1	3328	G	O5'-P-OP2	6.85	118.92	110.70
80	6	1383	G	N1-C6-O6	6.85	124.01	119.90
85	5	208	C	C5-C4-N4	-6.85	115.41	120.20
85	5	948	C	C5-C4-N4	-6.85	115.41	120.20
85	5	999	G	C4-C5-N7	6.85	113.54	110.80
85	5	2189	U	N1-C2-N3	6.85	119.01	114.90
85	5	3370	A	N3-C4-C5	-6.85	122.00	126.80
1	2	81	G	C5-C6-O6	-6.85	124.49	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1496	G	C5-C6-O6	6.85	132.71	128.60
36	1	1365	G	C8-N9-C4	-6.85	103.66	106.40
36	1	1519	G	C5-C6-O6	-6.85	124.49	128.60
36	1	1744	G	C5-C6-N1	6.85	114.92	111.50
36	1	2979	U	C2-N3-C4	-6.85	122.89	127.00
38	4	44	A	C6-N1-C2	-6.85	114.49	118.60
38	4	66	A	N3-C4-N9	-6.85	121.92	127.40
80	6	1315	U	C4-C5-C6	6.85	123.81	119.70
80	6	1461	C	C6-N1-C2	-6.85	117.56	120.30
85	5	870	G	C2-N3-C4	-6.85	108.48	111.90
85	5	1387	G	N3-C4-C5	6.85	132.02	128.60
85	5	1858	A	N7-C8-N9	6.85	117.22	113.80
85	5	2153	U	C5-C4-O4	-6.85	121.79	125.90
85	5	2872	A	C5-N7-C8	-6.85	100.48	103.90
36	1	856	G	C2-N3-C4	6.85	115.32	111.90
36	1	1525	G	N1-C2-N3	6.85	128.01	123.90
36	1	2134	G	C8-N9-C4	6.85	109.14	106.40
36	1	2911	A	OP1-P-OP2	6.85	129.87	119.60
80	6	522	U	C6-N1-C2	6.85	125.11	121.00
85	5	913	A	C5-N7-C8	-6.85	100.48	103.90
85	5	1786	G	N9-C4-C5	6.85	108.14	105.40
85	5	3308	C	C5-C4-N4	-6.85	115.41	120.20
1	2	434	G	C8-N9-C1'	-6.84	118.10	127.00
1	2	744	G	C4-C5-N7	-6.84	108.06	110.80
1	2	1093	G	C6-C5-N7	6.84	134.51	130.40
1	2	1141	C	N1-C2-O2	6.84	123.01	118.90
36	1	15	C	O5'-P-OP2	-6.84	99.54	105.70
36	1	87	U	C5-C6-N1	-6.84	119.28	122.70
36	1	335	G	P-O3'-C3'	-6.84	111.49	119.70
36	1	433	A	N3-C4-C5	6.84	131.59	126.80
36	1	1066	G	N7-C8-N9	6.84	116.52	113.10
36	1	1414	G	C4-C5-C6	6.84	122.91	118.80
36	1	3181	C	N3-C2-O2	-6.84	117.11	121.90
37	3	57	G	OP2-P-O3'	6.84	120.26	105.20
38	4	105	A	C4-C5-N7	6.84	114.12	110.70
80	6	294	C	C4-C5-C6	6.84	120.82	117.40
80	6	449	C	O4'-C1'-N1	-6.84	102.72	108.20
85	5	267	G	C4-C5-N7	6.84	113.54	110.80
85	5	553	U	C4-C5-C6	6.84	123.81	119.70
85	5	1241	U	N3-C4-O4	6.84	124.19	119.40
85	5	1307	G	C5'-C4'-O4'	-6.84	100.89	109.10
85	5	1335	C	N3-C2-O2	6.84	126.69	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2399	A	C5-C6-N1	-6.84	114.28	117.70
85	5	2418	G	N3-C4-C5	-6.84	125.18	128.60
85	5	2681	U	C2-N3-C4	-6.84	122.89	127.00
36	1	552	G	C4-C5-C6	6.84	122.91	118.80
36	1	819	U	N3-C4-O4	6.84	124.19	119.40
36	1	887	G	N1-C6-O6	-6.84	115.79	119.90
36	1	1227	C	C6-N1-C2	6.84	123.04	120.30
36	1	2963	C	C6-N1-C2	-6.84	117.56	120.30
80	6	1674	C	C2-N3-C4	-6.84	116.48	119.90
85	5	1420	C	C2-N1-C1'	-6.84	111.27	118.80
85	5	2981	U	N3-C4-C5	-6.84	110.49	114.60
1	2	1530	A	N9-C4-C5	6.84	108.54	105.80
36	1	585	A	N3-C4-N9	-6.84	121.93	127.40
36	1	1536	G	C5-C6-N1	6.84	114.92	111.50
36	1	1802	C	OP1-P-OP2	-6.84	109.34	119.60
36	1	2271	A	C2-N3-C4	-6.84	107.18	110.60
36	1	3124	G	N1-C2-N3	6.84	128.00	123.90
85	5	499	G	N1-C2-N2	-6.84	110.04	116.20
85	5	1072	G	C4-C5-C6	6.84	122.91	118.80
85	5	2829	U	N3-C2-O2	6.84	126.99	122.20
85	5	2914	G	C6-N1-C2	-6.84	121.00	125.10
85	5	2930	A	N1-C6-N6	6.84	122.70	118.60
85	5	2956	A	OP2-P-O3'	6.84	120.25	105.20
36	1	281	G	N3-C2-N2	-6.84	115.11	119.90
36	1	655	C	C5-C6-N1	6.84	124.42	121.00
36	1	686	G	OP2-P-O3'	6.84	120.25	105.20
36	1	716	A	C4-C5-C6	-6.84	113.58	117.00
36	1	1942	U	N1-C2-N3	6.84	119.00	114.90
36	1	2234	G	C5-C6-O6	6.84	132.70	128.60
36	1	3038	U	N3-C4-C5	-6.84	110.50	114.60
36	1	3140	G	C6-N1-C2	-6.84	121.00	125.10
80	6	1678	A	N1-C2-N3	6.84	132.72	129.30
85	5	274	G	C2-N3-C4	-6.84	108.48	111.90
85	5	503	C	O5'-P-OP2	6.84	118.91	110.70
85	5	1186	G	OP1-P-OP2	-6.84	109.34	119.60
85	5	1368	U	N1-C2-O2	-6.84	118.01	122.80
85	5	1777	U	N1-C2-O2	6.84	127.59	122.80
85	5	2124	G	C5-C6-O6	6.84	132.70	128.60
37	7	60	G	N1-C6-O6	-6.84	115.80	119.90
1	2	1562	U	C5-C6-N1	-6.84	119.28	122.70
36	1	1215	U	C4-C5-C6	6.84	123.80	119.70
36	1	1545	A	OP1-P-O3'	6.84	120.25	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2279	A	C6-N1-C2	-6.84	114.50	118.60
80	6	523	G	C2-N3-C4	6.84	115.32	111.90
80	6	1624	C	OP2-P-O3'	6.84	120.24	105.20
85	5	157	A	OP1-P-OP2	6.84	129.86	119.60
85	5	665	A	C5-C6-N1	6.84	121.12	117.70
85	5	2323	G	O5'-P-OP2	6.84	118.91	110.70
1	2	581	U	C5-C6-N1	6.84	126.12	122.70
1	2	970	G	C2-N3-C4	-6.84	108.48	111.90
36	1	3056	U	OP1-P-OP2	-6.84	109.34	119.60
36	1	3225	C	OP2-P-O3'	6.84	120.24	105.20
80	6	1635	A	O5'-P-OP1	-6.84	99.55	105.70
85	5	90	C	O5'-P-OP2	6.84	118.90	110.70
85	5	825	U	OP1-P-O3'	6.84	120.24	105.20
85	5	1841	A	O5'-P-OP1	6.84	118.90	110.70
85	5	2113	A	N7-C8-N9	-6.84	110.38	113.80
85	5	3054	U	C5-C4-O4	6.84	130.00	125.90
1	2	1657	C	C6-N1-C2	-6.83	117.57	120.30
36	1	3092	C	OP1-P-O3'	6.83	120.24	105.20
80	6	1304	G	C5-C6-N1	6.83	114.92	111.50
80	6	1455	G	N3-C4-C5	6.83	132.02	128.60
85	5	630	A	N7-C8-N9	-6.83	110.38	113.80
85	5	3184	A	C2-N3-C4	-6.83	107.18	110.60
36	1	78	U	OP2-P-O3'	6.83	120.23	105.20
36	1	1597	C	OP1-P-OP2	6.83	129.85	119.60
36	1	1720	U	C5-C6-N1	-6.83	119.28	122.70
36	1	2506	U	OP1-P-OP2	-6.83	109.35	119.60
36	1	3334	U	N1-C2-N3	6.83	119.00	114.90
80	6	509	G	N1-C6-O6	6.83	124.00	119.90
80	6	1786	G	C8-N9-C4	6.83	109.13	106.40
85	5	966	U	C5-C4-O4	-6.83	121.80	125.90
85	5	1669	C	N3-C2-O2	6.83	126.68	121.90
85	5	1751	G	O5'-P-OP1	-6.83	99.55	105.70
85	5	1784	G	N1-C2-N3	6.83	128.00	123.90
85	5	1877	U	C6-N1-C2	6.83	125.10	121.00
85	5	1914	G	N3-C4-C5	-6.83	125.18	128.60
85	5	2305	G	C4-C5-N7	6.83	113.53	110.80
85	5	2359	C	N1-C2-O2	-6.83	114.80	118.90
85	5	2381	G	N1-C2-N2	-6.83	110.05	116.20
85	5	2438	A	C6-N1-C2	6.83	122.70	118.60
85	5	2439	A	C8-N9-C4	6.83	108.53	105.80
85	5	2826	U	OP1-P-OP2	-6.83	109.35	119.60
85	5	2845	A	C2-N3-C4	6.83	114.02	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3360	C	N3-C4-C5	6.83	124.63	121.90
38	8	9	A	C8-N9-C4	-6.83	103.07	105.80
1	2	122	U	N3-C4-O4	6.83	124.18	119.40
1	2	510	G	N3-C4-C5	-6.83	125.18	128.60
1	2	887	G	C6-C5-N7	6.83	134.50	130.40
36	1	603	A	C8-N9-C4	6.83	108.53	105.80
36	1	884	A	C4-C5-N7	-6.83	107.28	110.70
36	1	1377	G	OP2-P-O3'	6.83	120.23	105.20
36	1	1390	A	N9-C4-C5	6.83	108.53	105.80
36	1	1762	C	N3-C2-O2	6.83	126.68	121.90
38	4	97	A	C2-N3-C4	-6.83	107.18	110.60
80	6	980	G	OP2-P-O3'	6.83	120.23	105.20
80	6	994	G	O5'-P-OP2	-6.83	99.55	105.70
85	5	808	A	C6-N1-C2	-6.83	114.50	118.60
85	5	1658	G	N1-C2-N3	6.83	128.00	123.90
85	5	1847	A	C8-N9-C4	-6.83	103.07	105.80
85	5	2329	C	O5'-P-OP2	-6.83	99.55	105.70
85	5	2620	G	O5'-P-OP1	6.83	118.90	110.70
38	8	42	G	N9-C4-C5	-6.83	102.67	105.40
1	2	190	C	N3-C4-C5	6.83	124.63	121.90
1	2	745	A	C4-C5-N7	-6.83	107.28	110.70
36	1	92	G	O4'-C1'-N9	6.83	113.66	108.20
71	O5	81	ARG	NE-CZ-NH1	-6.83	116.89	120.30
80	6	281	G	C5-C6-O6	-6.83	124.50	128.60
80	6	510	G	C5-C6-O6	-6.83	124.50	128.60
80	6	1156	C	N1-C2-O2	-6.83	114.80	118.90
85	5	1408	G	OP1-P-O3'	6.83	120.22	105.20
85	5	2311	G	C5-C6-N1	6.83	114.92	111.50
85	5	2611	U	O5'-P-OP1	6.83	118.90	110.70
1	2	86	A	C2-N3-C4	-6.83	107.19	110.60
36	1	824	C	N1-C2-N3	6.83	123.98	119.20
36	1	2212	C	N1-C2-O2	-6.83	114.80	118.90
36	1	2321	A	OP1-P-OP2	-6.83	109.36	119.60
36	1	2783	U	C2-N3-C4	6.83	131.10	127.00
36	1	2963	C	P-O3'-C3'	-6.83	111.51	119.70
36	1	3022	G	N7-C8-N9	6.83	116.51	113.10
36	1	3148	U	C2-N3-C4	6.83	131.10	127.00
36	1	3308	C	C5-C4-N4	-6.83	115.42	120.20
85	5	101	G	N3-C2-N2	-6.83	115.12	119.90
85	5	237	G	C5-C6-O6	-6.83	124.50	128.60
85	5	2774	C	C6-N1-C2	-6.83	117.57	120.30
64	n8	45	MET	CG-SD-CE	6.83	111.13	100.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	67	A	N1-C2-N3	6.83	132.71	129.30
1	2	455	C	C5-C6-N1	-6.83	117.59	121.00
36	1	180	C	C5-C4-N4	-6.83	115.42	120.20
36	1	1292	C	OP1-P-OP2	6.83	129.84	119.60
36	1	2931	C	C5-C4-N4	-6.83	115.42	120.20
85	5	896	A	C5-C6-N1	6.83	121.11	117.70
85	5	1536	G	C5-N7-C8	-6.83	100.89	104.30
85	5	2628	A	C5-C6-N1	-6.83	114.29	117.70
85	5	2904	U	C6-N1-C1'	-6.83	111.64	121.20
1	2	244	A	O5'-P-OP1	-6.83	99.56	105.70
1	2	264	G	O5'-P-OP2	-6.83	99.56	105.70
1	2	1640	U	C4-C5-C6	-6.83	115.61	119.70
36	1	103	G	N1-C2-N3	6.83	128.00	123.90
36	1	414	U	N1-C2-N3	6.83	119.00	114.90
36	1	986	U	N3-C4-O4	-6.83	114.62	119.40
36	1	1213	G	OP1-P-OP2	-6.83	109.36	119.60
36	1	1900	A	C5-C6-N1	6.83	121.11	117.70
36	1	2147	A	N1-C2-N3	6.83	132.71	129.30
36	1	2642	A	C5-C6-N6	6.83	129.16	123.70
36	1	2974	U	O5'-P-OP2	6.83	118.89	110.70
80	6	168	A	O5'-P-OP2	6.83	118.89	110.70
80	6	961	U	N1-C2-N3	6.83	119.00	114.90
80	6	1011	G	N7-C8-N9	6.83	116.51	113.10
80	6	1608	U	N1-C2-O2	6.83	127.58	122.80
85	5	212	G	OP1-P-O3'	6.83	120.22	105.20
85	5	402	A	C4-C5-N7	-6.83	107.29	110.70
85	5	1177	G	C5-C6-N1	6.83	114.91	111.50
85	5	1801	U	N1-C2-O2	-6.83	118.02	122.80
85	5	1879	A	C5-C6-N1	-6.83	114.29	117.70
85	5	1949	G	N7-C8-N9	6.83	116.51	113.10
85	5	2726	C	OP2-P-O3'	6.83	120.22	105.20
1	2	129	U	C5-C4-O4	6.82	129.99	125.90
1	2	741	U	N1-C2-N3	6.82	119.00	114.90
36	1	878	G	N7-C8-N9	6.82	116.51	113.10
36	1	2609	A	OP1-P-OP2	-6.82	109.36	119.60
36	1	2723	U	O5'-P-OP1	-6.82	99.56	105.70
36	1	2935	U	O5'-P-OP2	-6.82	99.56	105.70
37	3	69	C	N3-C4-N4	6.82	122.78	118.00
39	L2	22	LEU	CB-CG-CD2	-6.82	99.40	111.00
80	6	879	G	C5-C6-N1	6.82	114.91	111.50
80	6	1475	A	C2-N3-C4	-6.82	107.19	110.60
85	5	219	A	C2-N3-C4	-6.82	107.19	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	698	U	C5-C6-N1	6.82	126.11	122.70
85	5	2170	U	O5'-P-OP2	-6.82	99.56	105.70
85	5	2288	G	C8-N9-C1'	-6.82	118.13	127.00
85	5	2884	C	OP1-P-OP2	-6.82	109.36	119.60
38	8	35	C	N3-C4-C5	6.82	124.63	121.90
36	1	499	G	N1-C2-N2	6.82	122.34	116.20
36	1	1933	A	O5'-P-OP2	6.82	118.89	110.70
36	1	3204	C	C5-C4-N4	-6.82	115.42	120.20
80	6	669	G	C2-N3-C4	6.82	115.31	111.90
85	5	2108	C	C4-C5-C6	6.82	120.81	117.40
85	5	2254	U	N1-C2-O2	-6.82	118.03	122.80
85	5	3202	G	N1-C6-O6	-6.82	115.81	119.90
1	2	1582	C	C6-N1-C2	6.82	123.03	120.30
36	1	87	U	N1-C2-N3	6.82	118.99	114.90
36	1	947	G	C4-C5-C6	6.82	122.89	118.80
36	1	968	G	N3-C4-N9	6.82	130.09	126.00
36	1	2939	G	N3-C4-C5	-6.82	125.19	128.60
85	5	434	U	N3-C4-O4	6.82	124.17	119.40
85	5	889	U	C6-N1-C2	6.82	125.09	121.00
85	5	1325	U	OP1-P-OP2	6.82	129.83	119.60
85	5	1423	C	C6-N1-C1'	6.82	128.99	120.80
38	8	54	A	C5-N7-C8	-6.82	100.49	103.90
1	2	1304	A	C5-C6-N1	6.82	121.11	117.70
1	2	1444	C	N3-C4-C5	6.82	124.63	121.90
1	2	1755	C	C4-C5-C6	6.82	120.81	117.40
36	1	901	G	C4-C5-N7	6.82	113.53	110.80
80	6	1004	U	C6-N1-C2	-6.82	116.91	121.00
80	6	1113	A	C4-C5-N7	-6.82	107.29	110.70
85	5	1195	A	N7-C8-N9	6.82	117.21	113.80
85	5	1640	G	N1-C2-N3	6.82	127.99	123.90
85	5	2133	U	N3-C4-O4	-6.82	114.63	119.40
85	5	2193	U	N1-C2-N3	6.82	118.99	114.90
85	5	2369	G	C8-N9-C4	6.82	109.13	106.40
37	7	8	G	N1-C2-N2	-6.82	110.06	116.20
11	S9	149	ARG	NE-CZ-NH1	-6.82	116.89	120.30
36	1	189	G	C6-N1-C2	-6.82	121.01	125.10
36	1	226	C	N3-C4-C5	-6.82	119.17	121.90
36	1	1675	G	C4-C5-N7	6.82	113.53	110.80
36	1	1906	G	N1-C2-N3	6.82	127.99	123.90
36	1	2873	U	OP1-P-OP2	-6.82	109.37	119.60
36	1	3386	G	C4-C5-C6	6.82	122.89	118.80
37	3	84	A	OP1-P-O3'	6.82	120.20	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1729	C	C5-C6-N1	-6.82	117.59	121.00
85	5	2552	C	C6-N1-C2	-6.82	117.57	120.30
1	2	845	A	C5-C6-N6	6.82	129.15	123.70
1	2	1043	U	N3-C2-O2	-6.82	117.43	122.20
36	1	43	A	N9-C4-C5	-6.82	103.07	105.80
36	1	52	A	O5'-P-OP1	-6.82	99.57	105.70
36	1	282	G	C5-C6-N1	-6.82	108.09	111.50
36	1	2917	G	N9-C4-C5	6.82	108.13	105.40
36	1	2940	A	N1-C2-N3	-6.82	125.89	129.30
36	1	3110	C	N1-C2-O2	-6.82	114.81	118.90
36	1	3181	C	C5-C4-N4	6.82	124.97	120.20
80	6	1138	A	C5-C6-N1	6.82	121.11	117.70
85	5	905	U	N3-C4-O4	6.82	124.17	119.40
85	5	1311	G	N1-C2-N3	6.82	127.99	123.90
85	5	1328	C	N1-C2-O2	-6.82	114.81	118.90
85	5	1443	G	C5-C6-O6	-6.82	124.51	128.60
85	5	2211	U	C5-C4-O4	6.82	129.99	125.90
85	5	2313	A	C5-N7-C8	-6.82	100.49	103.90
85	5	2883	U	N3-C4-O4	6.82	124.17	119.40
38	8	8	C	N1-C2-N3	6.82	123.97	119.20
1	2	8	U	C5-C6-N1	6.81	126.11	122.70
36	1	1313	G	C8-N9-C4	-6.81	103.67	106.40
36	1	1586	G	C2-N3-C4	-6.81	108.49	111.90
80	6	408	C	C5-C4-N4	6.81	124.97	120.20
80	6	1565	C	C4-C5-C6	-6.81	113.99	117.40
85	5	631	U	N3-C4-O4	6.81	124.17	119.40
85	5	1080	A	C2-N3-C4	-6.81	107.19	110.60
85	5	1518	U	N3-C4-O4	6.81	124.17	119.40
85	5	1873	U	N1-C2-N3	6.81	118.99	114.90
85	5	2259	A	N1-C2-N3	6.81	132.71	129.30
37	7	51	A	O5'-P-OP2	6.81	118.88	110.70
36	1	294	U	C2-N3-C4	6.81	131.09	127.00
36	1	826	G	C4-C5-N7	6.81	113.53	110.80
36	1	941	G	OP1-P-O3'	6.81	120.19	105.20
36	1	1003	A	N1-C6-N6	6.81	122.69	118.60
36	1	1186	G	C8-N9-C4	6.81	109.12	106.40
36	1	1860	G	C5-C6-O6	6.81	132.69	128.60
36	1	2700	G	N1-C2-N2	-6.81	110.07	116.20
36	1	3186	A	C5-C6-N1	6.81	121.11	117.70
80	6	119	A	N3-C4-C5	6.81	131.57	126.80
80	6	623	A	C2-N3-C4	-6.81	107.19	110.60
80	6	1006	C	C4-C5-C6	6.81	120.81	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1196	A	C5-C6-N6	6.81	129.15	123.70
80	6	1655	A	O5'-P-OP1	6.81	118.88	110.70
85	5	188	U	N1-C2-N3	-6.81	110.81	114.90
85	5	1116	G	OP1-P-O3'	-6.81	90.21	105.20
85	5	1210	U	N3-C2-O2	-6.81	117.43	122.20
85	5	2164	A	C5-C6-N1	-6.81	114.29	117.70
85	5	2437	G	N1-C6-O6	6.81	123.99	119.90
85	5	2891	U	N3-C4-C5	6.81	118.69	114.60
85	5	2956	A	C4-C5-N7	6.81	114.11	110.70
85	5	3321	C	C4-C5-C6	6.81	120.81	117.40
37	7	25	G	C5-N7-C8	6.81	107.71	104.30
38	8	157	U	O5'-P-OP2	-6.81	99.57	105.70
1	2	1442	C	C6-N1-C2	-6.81	117.58	120.30
36	1	251	G	N3-C4-C5	-6.81	125.19	128.60
36	1	314	U	C6-N1-C2	6.81	125.09	121.00
36	1	510	G	N7-C8-N9	6.81	116.51	113.10
36	1	996	A	N1-C2-N3	6.81	132.71	129.30
80	6	713	A	N7-C8-N9	6.81	117.21	113.80
85	5	908	G	O5'-P-OP2	-6.81	99.57	105.70
85	5	1478	C	C4-C5-C6	6.81	120.81	117.40
85	5	1935	G	C5-C6-N1	6.81	114.91	111.50
85	5	2965	U	N3-C2-O2	6.81	126.97	122.20
1	2	1041	U	C5-C6-N1	-6.81	119.30	122.70
1	2	1550	U	C6-N1-C2	-6.81	116.91	121.00
36	1	34	A	C2-N3-C4	-6.81	107.19	110.60
36	1	347	G	N1-C6-O6	6.81	123.99	119.90
36	1	1102	A	O4'-C1'-N9	-6.81	102.75	108.20
36	1	1662	G	O5'-P-OP2	-6.81	99.57	105.70
36	1	2809	C	C6-N1-C2	-6.81	117.58	120.30
36	1	3225	C	O5'-P-OP2	6.81	118.87	110.70
80	6	321	C	C5-C4-N4	-6.81	115.43	120.20
80	6	560	U	OP1-P-OP2	-6.81	109.39	119.60
80	6	1177	C	C6-N1-C2	6.81	123.02	120.30
85	5	440	A	C6-N1-C2	6.81	122.69	118.60
85	5	1068	C	C5-C4-N4	6.81	124.97	120.20
85	5	1922	A	C4-C5-C6	6.81	120.41	117.00
85	5	2190	U	C2-N3-C4	-6.81	122.91	127.00
1	2	715	G	O4'-C1'-N9	6.81	113.65	108.20
1	2	1268	U	N1-C2-N3	-6.81	110.81	114.90
1	2	1297	U	C5-C4-O4	6.81	129.99	125.90
36	1	951	A	OP2-P-O3'	6.81	120.18	105.20
36	1	1217	A	OP2-P-O3'	6.81	120.17	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1424	C	C6-N1-C2	-6.81	117.58	120.30
80	6	1294	G	C2-N3-C4	-6.81	108.50	111.90
80	6	1729	C	N3-C2-O2	6.81	126.67	121.90
85	5	236	G	O5'-P-OP1	6.81	118.87	110.70
85	5	1616	U	N1-C2-O2	-6.81	118.03	122.80
85	5	2185	G	C5-C6-N1	-6.81	108.10	111.50
85	5	3331	U	O5'-P-OP1	6.81	118.87	110.70
38	8	21	C	O5'-P-OP2	6.81	118.87	110.70
1	2	334	G	C5-C6-O6	-6.81	124.52	128.60
36	1	414	U	O5'-P-OP2	-6.81	99.58	105.70
36	1	2609	A	O5'-P-OP2	-6.81	99.58	105.70
80	6	33	U	C5-C4-O4	6.81	129.98	125.90
80	6	50	C	OP1-P-O3'	6.81	120.17	105.20
80	6	696	C	N3-C2-O2	6.81	126.66	121.90
85	5	784	A	N1-C6-N6	-6.81	114.52	118.60
1	2	421	A	C8-N9-C4	6.80	108.52	105.80
36	1	382	U	C2-N3-C4	-6.80	122.92	127.00
36	1	548	G	C5-C6-O6	-6.80	124.52	128.60
36	1	584	G	C4-C5-C6	6.80	122.88	118.80
36	1	2193	U	C4-C5-C6	6.80	123.78	119.70
36	1	2215	A	C5-N7-C8	-6.80	100.50	103.90
36	1	3018	C	C4-C5-C6	6.80	120.80	117.40
37	3	41	G	C4-C5-C6	6.80	122.88	118.80
52	M6	49	ARG	NE-CZ-NH2	-6.80	116.90	120.30
80	6	55	A	C5-N7-C8	-6.80	100.50	103.90
80	6	105	A	C2-N3-C4	-6.80	107.20	110.60
80	6	534	A	N7-C8-N9	-6.80	110.40	113.80
80	6	666	U	C5-C6-N1	6.80	126.10	122.70
80	6	1317	C	N1-C2-N3	-6.80	114.44	119.20
85	5	303	G	N9-C4-C5	6.80	108.12	105.40
85	5	1343	A	C6-C5-N7	-6.80	127.54	132.30
85	5	1367	G	C4-C5-C6	6.80	122.88	118.80
85	5	1538	G	N1-C2-N3	6.80	127.98	123.90
85	5	2364	G	OP1-P-O3'	6.80	120.17	105.20
37	7	102	A	C6-C5-N7	-6.80	127.54	132.30
36	1	2576	G	C6-C5-N7	-6.80	126.32	130.40
36	1	2576	G	C4-C5-N7	6.80	113.52	110.80
36	1	2816	G	OP1-P-OP2	6.80	129.81	119.60
36	1	2830	G	C4-C5-C6	6.80	122.88	118.80
36	1	2847	A	C4-C5-N7	6.80	114.10	110.70
38	4	124	G	C5-N7-C8	-6.80	100.90	104.30
80	6	1121	C	OP1-P-OP2	-6.80	109.40	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1097	G	C2-N3-C4	-6.80	108.50	111.90
1	2	1542	A	C5-N7-C8	-6.80	100.50	103.90
36	1	331	G	N7-C8-N9	6.80	116.50	113.10
36	1	1001	G	C8-N9-C4	-6.80	103.68	106.40
36	1	1408	G	C6-C5-N7	-6.80	126.32	130.40
36	1	2288	G	C4-C5-C6	6.80	122.88	118.80
36	1	3177	G	OP1-P-OP2	6.80	129.80	119.60
36	1	3250	U	N3-C4-O4	-6.80	114.64	119.40
36	1	3309	G	C4-C5-C6	6.80	122.88	118.80
80	6	947	U	N3-C2-O2	6.80	126.96	122.20
80	6	1327	C	N3-C2-O2	-6.80	117.14	121.90
85	5	213	A	N7-C8-N9	6.80	117.20	113.80
85	5	1205	A	C5-C6-N6	-6.80	118.26	123.70
85	5	1497	C	C6-N1-C2	-6.80	117.58	120.30
85	5	1785	U	N3-C4-C5	-6.80	110.52	114.60
85	5	1800	A	C4-C5-N7	-6.80	107.30	110.70
37	7	45	A	C4-C5-C6	-6.80	113.60	117.00
37	7	116	C	N3-C4-N4	6.80	122.76	118.00
36	1	582	G	C8-N9-C4	6.80	109.12	106.40
36	1	783	A	C2-N3-C4	-6.80	107.20	110.60
36	1	1608	C	N3-C4-C5	-6.80	119.18	121.90
36	1	2344	U	O5'-P-OP1	6.80	118.86	110.70
36	1	2604	U	OP1-P-OP2	-6.80	109.40	119.60
80	6	154	G	N3-C4-N9	6.80	130.08	126.00
80	6	674	C	N1-C2-O2	6.80	122.98	118.90
85	5	124	U	C2-N3-C4	-6.80	122.92	127.00
85	5	964	G	C6-N1-C2	-6.80	121.02	125.10
85	5	1170	A	C8-N9-C4	6.80	108.52	105.80
85	5	1170	A	C6-C5-N7	-6.80	127.54	132.30
85	5	2890	A	N1-C2-N3	6.80	132.70	129.30
85	5	2985	C	N1-C2-O2	6.80	122.98	118.90
85	5	3098	G	C5-N7-C8	-6.80	100.90	104.30
1	2	714	C	C6-N1-C2	6.80	123.02	120.30
36	1	98	G	N7-C8-N9	6.80	116.50	113.10
36	1	862	U	C2-N3-C4	-6.80	122.92	127.00
36	1	2247	G	C5-C6-N1	-6.80	108.10	111.50
36	1	2974	U	C5-C4-O4	-6.80	121.82	125.90
85	5	1758	G	N1-C2-N2	6.80	122.32	116.20
85	5	2958	A	C5-N7-C8	-6.80	100.50	103.90
1	2	1289	C	N3-C4-C5	6.80	124.62	121.90
1	2	1403	C	N3-C4-C5	-6.80	119.18	121.90
1	2	1706	U	OP1-P-OP2	-6.80	109.41	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	802	C	O5'-P-OP1	-6.80	99.58	105.70
36	1	1219	C	N3-C2-O2	-6.80	117.14	121.90
36	1	1469	C	O5'-P-OP1	-6.80	99.58	105.70
36	1	2343	C	OP2-P-O3'	6.80	120.15	105.20
36	1	2589	G	C8-N9-C4	-6.80	103.68	106.40
36	1	3174	A	C4-C5-C6	6.80	120.40	117.00
80	6	66	U	N1-C2-N3	-6.80	110.82	114.90
80	6	653	C	N3-C2-O2	-6.80	117.14	121.90
80	6	960	U	N3-C2-O2	-6.80	117.44	122.20
80	6	1107	G	N1-C2-N3	6.80	127.98	123.90
85	5	363	G	C6-C5-N7	-6.80	126.32	130.40
85	5	1928	G	C8-N9-C4	-6.80	103.68	106.40
85	5	2417	U	C2-N1-C1'	6.80	125.86	117.70
85	5	2421	U	C5-C4-O4	-6.80	121.82	125.90
85	5	2695	A	N1-C2-N3	6.80	132.70	129.30
85	5	3116	G	C5-C6-N1	6.80	114.90	111.50
85	5	3244	A	C5-C6-N6	6.80	129.14	123.70
37	7	74	C	N3-C4-N4	-6.80	113.24	118.00
1	2	1336	U	N3-C4-C5	-6.79	110.52	114.60
1	2	1486	A	C6-C5-N7	-6.79	127.54	132.30
36	1	1859	A	C6-N1-C2	-6.79	114.52	118.60
36	1	2690	G	C5-C6-N1	6.79	114.90	111.50
36	1	2795	U	O5'-P-OP2	6.79	118.85	110.70
36	1	2927	C	C6-N1-C2	6.79	123.02	120.30
80	6	15	U	N1-C2-N3	6.79	118.98	114.90
85	5	858	A	C6-C5-N7	-6.79	127.54	132.30
85	5	1899	G	C6-N1-C2	-6.79	121.02	125.10
85	5	1928	G	C6-N1-C2	6.79	129.18	125.10
38	8	115	C	N3-C2-O2	6.79	126.66	121.90
36	1	665	A	N7-C8-N9	6.79	117.20	113.80
36	1	684	G	C4-C5-C6	-6.79	114.72	118.80
36	1	2864	A	C2-N3-C4	-6.79	107.20	110.60
80	6	991	G	OP1-P-OP2	6.79	129.79	119.60
85	5	114	A	C5-C6-N6	-6.79	118.27	123.70
85	5	772	U	N3-C4-O4	6.79	124.16	119.40
85	5	1485	G	N1-C6-O6	6.79	123.98	119.90
85	5	1823	A	N7-C8-N9	6.79	117.20	113.80
85	5	2124	G	C5-N7-C8	6.79	107.70	104.30
1	2	399	A	OP1-P-OP2	6.79	129.79	119.60
1	2	552	G	O5'-P-OP1	-6.79	99.59	105.70
1	2	1746	A	C2-N3-C4	-6.79	107.20	110.60
36	1	87	U	OP1-P-OP2	6.79	129.79	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	184	U	OP1-P-OP2	6.79	129.79	119.60
36	1	952	A	C5-N7-C8	-6.79	100.50	103.90
36	1	1813	A	N1-C2-N3	6.79	132.70	129.30
37	3	101	G	C4-C5-C6	6.79	122.88	118.80
80	6	622	A	OP1-P-OP2	-6.79	109.41	119.60
80	6	722	G	N1-C6-O6	6.79	123.97	119.90
80	6	725	U	N3-C2-O2	-6.79	117.45	122.20
80	6	1103	U	N3-C2-O2	-6.79	117.45	122.20
85	5	378	A	C5-C6-N1	-6.79	114.30	117.70
85	5	683	U	O5'-P-OP1	-6.79	99.59	105.70
85	5	1003	A	C8-N9-C4	-6.79	103.08	105.80
85	5	1296	C	C2-N3-C4	-6.79	116.50	119.90
85	5	1790	G	N1-C2-N2	-6.79	110.09	116.20
85	5	2960	C	O5'-P-OP2	-6.79	99.59	105.70
85	5	3078	U	OP1-P-OP2	6.79	129.79	119.60
85	5	3109	G	N7-C8-N9	6.79	116.50	113.10
36	1	394	G	N1-C6-O6	-6.79	115.83	119.90
36	1	824	C	C4-C5-C6	6.79	120.80	117.40
36	1	1105	A	C8-N9-C4	6.79	108.52	105.80
36	1	1134	G	N1-C2-N3	6.79	127.97	123.90
80	6	1284	C	N3-C2-O2	-6.79	117.15	121.90
85	5	98	G	OP2-P-O3'	6.79	120.14	105.20
85	5	676	G	N1-C2-N3	6.79	127.97	123.90
85	5	1346	G	C5-N7-C8	-6.79	100.91	104.30
85	5	1598	G	C4-C5-N7	6.79	113.52	110.80
85	5	1898	G	OP1-P-OP2	-6.79	109.41	119.60
85	5	3364	C	C5-C4-N4	-6.79	115.45	120.20
1	2	943	U	O5'-P-OP2	-6.79	99.59	105.70
1	2	1750	G	C2-N3-C4	6.79	115.29	111.90
36	1	155	G	OP1-P-OP2	-6.79	109.42	119.60
36	1	984	G	N7-C8-N9	6.79	116.49	113.10
36	1	1115	G	C4-C5-C6	6.79	122.87	118.80
36	1	1477	A	C2-N3-C4	-6.79	107.20	110.60
36	1	2507	C	O4'-C1'-N1	6.79	113.63	108.20
36	1	2697	A	N7-C8-N9	6.79	117.19	113.80
80	6	482	U	N3-C4-O4	6.79	124.15	119.40
80	6	1179	G	OP1-P-OP2	-6.79	109.42	119.60
85	5	208	C	C2-N1-C1'	6.79	126.27	118.80
85	5	377	A	N1-C2-N3	-6.79	125.91	129.30
85	5	829	U	C5-C6-N1	-6.79	119.31	122.70
85	5	2367	A	C4-C5-N7	6.79	114.09	110.70
85	5	2418	G	N1-C2-N3	-6.79	119.83	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	63	G	N3-C4-N9	-6.79	121.93	126.00
1	2	969	G	C8-N9-C4	-6.79	103.69	106.40
36	1	49	A	C5-C6-N6	6.79	129.13	123.70
36	1	294	U	C6-N1-C1'	6.79	130.70	121.20
36	1	1520	G	OP1-P-OP2	-6.79	109.42	119.60
36	1	1902	G	N7-C8-N9	6.79	116.49	113.10
36	1	2878	G	OP1-P-O3'	6.79	120.13	105.20
85	5	40	A	C4-C5-C6	6.79	120.39	117.00
1	2	333	A	C5-C6-N1	6.79	121.09	117.70
1	2	483	A	N1-C6-N6	6.79	122.67	118.60
36	1	881	C	OP1-P-O3'	6.79	120.13	105.20
36	1	1000	C	N1-C2-O2	-6.79	114.83	118.90
36	1	1151	U	C2-N3-C4	6.79	131.07	127.00
36	1	1432	C	N1-C2-N3	6.79	123.95	119.20
36	1	1473	G	C2-N3-C4	-6.79	108.51	111.90
36	1	1705	U	N3-C2-O2	-6.79	117.45	122.20
36	1	1778	G	C5-N7-C8	6.79	107.69	104.30
36	1	1897	G	C8-N9-C4	-6.79	103.69	106.40
36	1	2243	A	O5'-P-OP1	-6.79	99.59	105.70
36	1	2618	G	C5-C6-N1	6.79	114.89	111.50
80	6	1266	U	C2-N3-C4	6.79	131.07	127.00
85	5	907	G	OP1-P-OP2	6.79	129.78	119.60
85	5	1205	A	N1-C6-N6	-6.79	114.53	118.60
85	5	1896	A	C5-C6-N6	-6.79	118.27	123.70
85	5	2136	C	N3-C4-C5	-6.79	119.19	121.90
85	5	2862	U	N1-C2-N3	6.79	118.97	114.90
85	5	3078	U	C2-N1-C1'	6.79	125.84	117.70
1	2	361	C	O5'-P-OP2	-6.78	99.59	105.70
36	1	259	C	C5-C6-N1	-6.78	117.61	121.00
36	1	706	A	O5'-P-OP2	-6.78	99.59	105.70
36	1	1406	A	N3-C4-C5	-6.78	122.05	126.80
36	1	1609	C	N3-C4-N4	6.78	122.75	118.00
36	1	1904	C	O5'-P-OP2	-6.78	99.59	105.70
80	6	176	C	N1-C2-N3	6.78	123.95	119.20
80	6	347	G	C5-N7-C8	6.78	107.69	104.30
80	6	559	C	N3-C4-N4	-6.78	113.25	118.00
80	6	1148	C	O5'-P-OP2	-6.78	99.60	105.70
85	5	79	U	N1-C2-N3	6.78	118.97	114.90
85	5	376	G	C4-C5-N7	6.78	113.51	110.80
85	5	579	G	C4-C5-N7	-6.78	108.09	110.80
85	5	950	G	N1-C2-N3	6.78	127.97	123.90
85	5	2269	U	C6-N1-C2	-6.78	116.93	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2327	U	C6-N1-C2	6.78	125.07	121.00
85	5	3056	U	O5'-P-OP1	-6.78	99.59	105.70
85	5	3311	C	C4-C5-C6	-6.78	114.01	117.40
85	5	3325	G	N3-C4-N9	-6.78	121.93	126.00
37	7	60	G	O4'-C1'-N9	6.78	113.63	108.20
1	2	5	U	OP1-P-OP2	-6.78	109.43	119.60
1	2	314	C	N3-C4-C5	-6.78	119.19	121.90
1	2	573	C	OP1-P-OP2	6.78	129.77	119.60
1	2	1720	G	O5'-P-OP2	-6.78	99.60	105.70
36	1	1316	C	N3-C2-O2	-6.78	117.15	121.90
80	6	1787	C	N1-C2-O2	-6.78	114.83	118.90
85	5	576	C	N1-C2-N3	6.78	123.95	119.20
85	5	1606	U	N3-C2-O2	-6.78	117.45	122.20
38	8	51	G	N3-C2-N2	-6.78	115.15	119.90
1	2	1131	C	N3-C4-N4	-6.78	113.25	118.00
1	2	1436	G	C5-N7-C8	6.78	107.69	104.30
36	1	2687	G	N3-C4-C5	-6.78	125.21	128.60
37	3	107	C	C2-N3-C4	6.78	123.29	119.90
85	5	73	C	N3-C2-O2	-6.78	117.15	121.90
85	5	1402	C	C5-C4-N4	-6.78	115.45	120.20
85	5	2699	G	C5-C6-N1	-6.78	108.11	111.50
85	5	2714	G	N1-C6-O6	6.78	123.97	119.90
38	8	40	A	C2-N3-C4	-6.78	107.21	110.60
1	2	1637	G	N9-C4-C5	6.78	108.11	105.40
36	1	1774	C	N1-C2-O2	6.78	122.97	118.90
38	4	30	C	OP2-P-O3'	6.78	120.11	105.20
80	6	510	G	N1-C6-O6	6.78	123.97	119.90
80	6	543	C	C4-C5-C6	-6.78	114.01	117.40
85	5	773	G	C6-C5-N7	-6.78	126.33	130.40
85	5	2434	U	N3-C2-O2	-6.78	117.45	122.20
85	5	2779	A	O5'-P-OP1	-6.78	99.60	105.70
85	5	3145	C	C5'-C4'-O4'	-6.78	100.97	109.10
1	2	606	A	C5-N7-C8	-6.78	100.51	103.90
36	1	960	U	N3-C4-O4	-6.78	114.66	119.40
36	1	1051	U	N1-C2-O2	-6.78	118.06	122.80
36	1	1183	C	C6-N1-C1'	-6.78	112.67	120.80
36	1	1193	A	N3-C4-C5	6.78	131.54	126.80
36	1	2550	U	C5-C6-N1	-6.78	119.31	122.70
37	3	113	C	OP1-P-OP2	6.78	129.77	119.60
80	6	655	G	C4-C5-N7	6.78	113.51	110.80
80	6	1327	C	N1-C2-O2	6.78	122.97	118.90
85	5	1543	G	N3-C4-C5	-6.78	125.21	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3231	U	O5'-P-OP1	6.78	118.83	110.70
1	2	1593	G	C5-C6-N1	6.78	114.89	111.50
36	1	220	G	N3-C4-N9	-6.78	121.94	126.00
36	1	1745	C	N1-C2-N3	6.78	123.94	119.20
36	1	2982	A	C5-N7-C8	6.78	107.29	103.90
36	1	3043	C	N1-C2-O2	-6.78	114.83	118.90
36	1	3132	C	N3-C4-N4	-6.78	113.26	118.00
37	3	72	A	O4'-C1'-N9	-6.78	102.78	108.20
80	6	542	A	P-O3'-C3'	6.78	127.83	119.70
80	6	1169	G	N7-C8-N9	6.78	116.49	113.10
85	5	288	C	C5-C4-N4	-6.78	115.46	120.20
85	5	368	G	C4-C5-C6	6.78	122.86	118.80
85	5	896	A	O5'-P-OP2	-6.78	99.60	105.70
85	5	1188	U	N1-C2-O2	-6.78	118.06	122.80
85	5	1763	U	C6-N1-C2	-6.78	116.94	121.00
85	5	2508	U	N3-C2-O2	6.78	126.94	122.20
38	8	133	G	C6-N1-C2	-6.78	121.03	125.10
1	2	553	G	C5-C6-N1	-6.77	108.11	111.50
36	1	656	A	C4-C5-C6	6.77	120.39	117.00
36	1	1654	A	N1-C2-N3	6.77	132.69	129.30
85	5	2867	C	C5-C6-N1	6.77	124.39	121.00
85	5	3340	G	OP1-P-OP2	-6.77	109.44	119.60
1	2	1083	G	OP1-P-OP2	-6.77	109.44	119.60
36	1	418	A	OP1-P-OP2	6.77	129.76	119.60
36	1	611	A	N7-C8-N9	6.77	117.19	113.80
36	1	837	A	N1-C2-N3	6.77	132.69	129.30
36	1	927	C	C2-N1-C1'	6.77	126.25	118.80
38	4	12	A	C5-N7-C8	-6.77	100.51	103.90
38	4	129	C	C6-N1-C2	6.77	123.01	120.30
80	6	1204	A	N1-C2-N3	6.77	132.69	129.30
85	5	529	A	C8-N9-C4	-6.77	103.09	105.80
85	5	774	G	C4-N9-C1'	6.77	135.30	126.50
85	5	1206	G	N1-C6-O6	-6.77	115.84	119.90
85	5	2429	G	C4-C5-N7	-6.77	108.09	110.80
85	5	2662	G	N1-C2-N3	6.77	127.96	123.90
85	5	3106	A	N1-C2-N3	6.77	132.69	129.30
37	7	44	C	N3-C4-C5	-6.77	119.19	121.90
1	2	1633	U	N1-C2-N3	6.77	118.96	114.90
36	1	370	U	C2-N1-C1'	6.77	125.83	117.70
36	1	2187	G	N3-C4-N9	-6.77	121.94	126.00
38	4	43	A	C5-N7-C8	-6.77	100.51	103.90
85	5	405	U	C5-C6-N1	6.77	126.08	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1081	U	C2-N3-C4	6.77	131.06	127.00
85	5	1115	G	N3-C2-N2	6.77	124.64	119.90
85	5	1415	U	N3-C2-O2	-6.77	117.46	122.20
85	5	2622	C	OP1-P-OP2	-6.77	109.44	119.60
36	1	128	G	N1-C6-O6	6.77	123.96	119.90
36	1	1332	A	C8-N9-C4	-6.77	103.09	105.80
36	1	1451	C	OP1-P-OP2	-6.77	109.45	119.60
36	1	2858	U	C6-N1-C2	-6.77	116.94	121.00
80	6	1629	G	C4-C5-C6	6.77	122.86	118.80
85	5	717	C	OP1-P-OP2	6.77	129.75	119.60
85	5	2340	U	C2-N3-C4	-6.77	122.94	127.00
85	5	2385	G	C4-C5-N7	-6.77	108.09	110.80
85	5	2968	G	C4-C5-C6	-6.77	114.74	118.80
36	1	1345	G	OP2-P-O3'	6.77	120.09	105.20
36	1	2229	A	C5-C6-N1	6.77	121.08	117.70
36	1	2910	A	C5-C6-N1	6.77	121.08	117.70
38	4	58	G	C8-N9-C4	6.77	109.11	106.40
39	L2	198	LYS	CD-CE-NZ	6.77	127.27	111.70
85	5	678	G	C2-N3-C4	-6.77	108.52	111.90
85	5	681	U	C2-N3-C4	6.77	131.06	127.00
85	5	938	C	OP1-P-O3'	6.77	120.09	105.20
85	5	1183	C	N1-C2-O2	-6.77	114.84	118.90
85	5	1339	C	N3-C4-N4	6.77	122.74	118.00
37	3	56	A	N7-C8-N9	-6.77	110.42	113.80
85	5	287	G	N3-C4-N9	6.77	130.06	126.00
85	5	1536	G	C2-N3-C4	-6.77	108.52	111.90
85	5	2113	A	O5'-P-OP2	-6.77	99.61	105.70
85	5	2514	U	C5-C6-N1	6.77	126.08	122.70
1	2	195	G	N3-C4-C5	-6.76	125.22	128.60
1	2	1218	C	C5-C6-N1	-6.76	117.62	121.00
1	2	1244	G	C8-N9-C4	-6.76	103.69	106.40
36	1	33	G	OP1-P-OP2	6.76	129.75	119.60
36	1	339	C	O5'-P-OP2	6.76	118.82	110.70
36	1	2614	G	N1-C2-N2	-6.76	110.11	116.20
36	1	3004	C	N3-C2-O2	6.76	126.64	121.90
80	6	1747	G	N1-C6-O6	-6.76	115.84	119.90
85	5	416	A	OP1-P-OP2	-6.76	109.45	119.60
85	5	1129	A	C6-N1-C2	-6.76	114.54	118.60
85	5	1211	U	C5-C4-O4	-6.76	121.84	125.90
85	5	2158	A	N1-C2-N3	6.76	132.68	129.30
85	5	2507	C	C5-C6-N1	6.76	124.38	121.00
85	5	2523	A	C5-N7-C8	6.76	107.28	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2765	C	N3-C2-O2	6.76	126.64	121.90
52	m6	84	LEU	CA-CB-CG	-6.76	99.74	115.30
1	2	1081	U	C5-C6-N1	6.76	126.08	122.70
1	2	1227	A	N7-C8-N9	6.76	117.18	113.80
36	1	351	A	O4'-C1'-N9	-6.76	102.79	108.20
36	1	895	A	N3-C4-N9	-6.76	121.99	127.40
36	1	1652	G	C8-N9-C4	6.76	109.11	106.40
36	1	1940	G	C2-N3-C4	-6.76	108.52	111.90
37	3	112	G	N7-C8-N9	6.76	116.48	113.10
80	6	1078	C	C5-C6-N1	6.76	124.38	121.00
1	2	840	U	N3-C4-O4	6.76	124.13	119.40
1	2	1296	A	N1-C6-N6	6.76	122.66	118.60
1	2	1638	A	C2-N3-C4	-6.76	107.22	110.60
1	2	1715	A	C2-N3-C4	-6.76	107.22	110.60
36	1	395	A	N1-C2-N3	6.76	132.68	129.30
36	1	540	U	O5'-P-OP1	-6.76	99.61	105.70
36	1	806	A	N1-C6-N6	6.76	122.66	118.60
36	1	1142	G	C8-N9-C1'	-6.76	118.21	127.00
36	1	2213	A	N1-C2-N3	6.76	132.68	129.30
36	1	2271	A	C5-C6-N6	6.76	129.11	123.70
36	1	2396	G	C4-C5-C6	6.76	122.86	118.80
36	1	2550	U	O5'-P-OP1	-6.76	99.61	105.70
36	1	2822	U	N3-C4-C5	-6.76	110.54	114.60
36	1	3298	C	N3-C4-N4	6.76	122.73	118.00
80	6	649	U	C6-N1-C2	6.76	125.06	121.00
17	c5	111	MET	CG-SD-CE	6.76	111.02	100.20
85	5	416	A	N1-C6-N6	6.76	122.66	118.60
85	5	825	U	C5-C6-N1	-6.76	119.32	122.70
85	5	1005	G	C4-C5-N7	6.76	113.50	110.80
85	5	2626	A	O5'-P-OP2	6.76	118.81	110.70
85	5	3006	A	C2-N3-C4	-6.76	107.22	110.60
38	8	36	G	C2-N3-C4	-6.76	108.52	111.90
1	2	362	G	N1-C2-N3	6.76	127.96	123.90
1	2	554	C	C2-N3-C4	6.76	123.28	119.90
1	2	914	C	N3-C4-N4	6.76	122.73	118.00
1	2	1550	U	C4-C5-C6	6.76	123.75	119.70
36	1	267	G	C6-N1-C2	6.76	129.16	125.10
36	1	334	A	O5'-P-OP2	-6.76	99.62	105.70
36	1	397	A	N3-C4-C5	-6.76	122.07	126.80
36	1	570	A	N7-C8-N9	6.76	117.18	113.80
36	1	1143	A	C4-C5-C6	6.76	120.38	117.00
36	1	1587	A	C2-N3-C4	-6.76	107.22	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2402	A	N1-C2-N3	6.76	132.68	129.30
36	1	2714	G	N1-C6-O6	6.76	123.96	119.90
36	1	3034	C	OP1-P-O3'	6.76	120.07	105.20
36	1	3375	A	N9-C4-C5	6.76	108.50	105.80
38	4	38	U	N1-C2-O2	6.76	127.53	122.80
38	4	71	A	C5-C6-N1	6.76	121.08	117.70
85	5	20	A	OP1-P-OP2	6.76	129.74	119.60
85	5	44	U	N3-C4-C5	6.76	118.66	114.60
85	5	341	G	OP1-P-OP2	-6.76	109.46	119.60
85	5	506	U	N1-C2-O2	-6.76	118.07	122.80
85	5	662	U	N1-C2-N3	6.76	118.96	114.90
85	5	2371	G	N1-C2-N2	-6.76	110.12	116.20
85	5	3171	U	C5-C6-N1	-6.76	119.32	122.70
1	2	780	G	C6-C5-N7	-6.76	126.34	130.40
1	2	901	U	C6-N1-C2	-6.76	116.94	121.00
36	1	429	U	C4-C5-C6	6.76	123.75	119.70
36	1	803	C	N3-C2-O2	6.76	126.63	121.90
36	1	1915	A	C6-N1-C2	-6.76	114.55	118.60
36	1	2190	U	N1-C2-N3	6.76	118.95	114.90
36	1	2345	A	C4-C5-C6	6.76	120.38	117.00
36	1	2765	C	C5-C4-N4	-6.76	115.47	120.20
80	6	3	U	C4-C5-C6	6.76	123.75	119.70
80	6	646	C	C2-N3-C4	6.76	123.28	119.90
85	5	1067	U	N3-C4-C5	-6.76	110.55	114.60
85	5	2186	U	N3-C4-C5	-6.76	110.55	114.60
1	2	407	A	N1-C6-N6	-6.76	114.55	118.60
1	2	1654	A	C5-C6-N6	6.76	129.10	123.70
36	1	5	G	O5'-P-OP2	-6.76	99.62	105.70
36	1	209	A	N9-C4-C5	-6.76	103.10	105.80
36	1	341	G	N9-C4-C5	6.76	108.10	105.40
36	1	1566	A	N1-C6-N6	6.76	122.65	118.60
36	1	2602	G	N7-C8-N9	-6.76	109.72	113.10
36	1	3236	U	N3-C2-O2	-6.76	117.47	122.20
37	3	101	G	N1-C2-N2	-6.76	110.12	116.20
38	4	89	A	N1-C6-N6	6.76	122.65	118.60
38	4	92	A	C5-N7-C8	-6.76	100.52	103.90
80	6	1531	G	C5-C6-N1	6.76	114.88	111.50
80	6	1601	G	N3-C2-N2	6.76	124.63	119.90
85	5	523	A	N1-C6-N6	6.76	122.65	118.60
85	5	621	A	C5-C6-N1	6.76	121.08	117.70
85	5	1492	G	N3-C2-N2	-6.76	115.17	119.90
38	8	137	C	C6-N1-C2	6.76	123.00	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1313	G	C6-N1-C2	-6.75	121.05	125.10
36	1	1854	C	C2-N1-C1'	6.75	126.23	118.80
36	1	3099	C	N1-C2-N3	-6.75	114.47	119.20
36	1	3256	G	N3-C4-C5	6.75	131.98	128.60
80	6	328	A	N7-C8-N9	6.75	117.18	113.80
85	5	600	G	OP1-P-O3'	6.75	120.06	105.20
85	5	645	A	C4-C5-N7	-6.75	107.32	110.70
85	5	1748	G	C8-N9-C4	-6.75	103.70	106.40
85	5	1937	U	C2-N3-C4	-6.75	122.95	127.00
85	5	2706	G	O5'-P-OP1	6.75	118.81	110.70
36	1	82	C	C2-N3-C4	-6.75	116.52	119.90
36	1	596	C	C5-C6-N1	-6.75	117.62	121.00
36	1	1853	U	N1-C2-O2	6.75	127.53	122.80
36	1	2557	A	C4-C5-C6	6.75	120.38	117.00
36	1	2748	A	N3-C4-C5	6.75	131.53	126.80
36	1	3004	C	C6-N1-C2	6.75	123.00	120.30
36	1	3048	A	N9-C4-C5	6.75	108.50	105.80
36	1	3112	G	O5'-P-OP2	-6.75	99.62	105.70
36	1	3134	A	C5-C6-N1	6.75	121.08	117.70
49	M3	27	ASP	CB-CG-OD2	6.75	124.38	118.30
80	6	269	G	C4-C5-N7	-6.75	108.10	110.80
80	6	523	G	N3-C4-C5	-6.75	125.22	128.60
85	5	128	G	C5-N7-C8	6.75	107.68	104.30
85	5	419	G	N7-C8-N9	-6.75	109.72	113.10
85	5	1477	A	C4-C5-N7	6.75	114.08	110.70
37	7	117	A	C4-C5-C6	6.75	120.38	117.00
1	2	1543	U	N3-C2-O2	-6.75	117.47	122.20
1	2	1759	A	N1-C6-N6	6.75	122.65	118.60
36	1	394	G	O5'-P-OP2	-6.75	99.62	105.70
36	1	639	G	C2-N3-C4	-6.75	108.52	111.90
36	1	1308	A	C5-C6-N6	6.75	129.10	123.70
36	1	1384	U	N3-C4-C5	-6.75	110.55	114.60
37	3	121	U	C6-N1-C2	6.75	125.05	121.00
80	6	113	U	O5'-P-OP2	-6.75	99.62	105.70
80	6	1013	A	OP1-P-O3'	6.75	120.05	105.20
80	6	1018	U	N3-C2-O2	6.75	126.93	122.20
80	6	1027	A	C5-N7-C8	-6.75	100.52	103.90
80	6	1064	G	N1-C6-O6	6.75	123.95	119.90
85	5	209	A	N1-C6-N6	6.75	122.65	118.60
85	5	923	C	OP1-P-OP2	-6.75	109.47	119.60
85	5	1259	A	C2-N3-C4	6.75	113.97	110.60
85	5	1904	C	C6-N1-C2	6.75	123.00	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2287	C	C5-C4-N4	6.75	124.93	120.20
85	5	2659	G	C5-C6-O6	-6.75	124.55	128.60
85	5	2887	A	C2-N3-C4	6.75	113.97	110.60
85	5	3037	U	N3-C4-O4	6.75	124.13	119.40
85	5	3251	U	C5-C4-O4	6.75	129.95	125.90
38	8	150	G	N1-C2-N2	-6.75	110.12	116.20
1	2	969	G	N3-C4-C5	-6.75	125.22	128.60
36	1	1300	G	N3-C4-C5	-6.75	125.22	128.60
36	1	2977	G	N3-C4-N9	6.75	130.05	126.00
36	1	3355	U	C2-N1-C1'	6.75	125.80	117.70
37	3	2	G	C5-C6-O6	6.75	132.65	128.60
85	5	228	U	OP1-P-OP2	-6.75	109.47	119.60
85	5	995	U	C6-N1-C2	-6.75	116.95	121.00
85	5	1589	A	C5-C6-N1	6.75	121.08	117.70
85	5	2974	U	O5'-P-OP1	-6.75	99.62	105.70
38	8	116	G	N1-C6-O6	6.75	123.95	119.90
36	1	29	C	C6-N1-C2	6.75	123.00	120.30
36	1	285	A	C6-N1-C2	-6.75	114.55	118.60
36	1	609	G	N7-C8-N9	6.75	116.47	113.10
36	1	1637	A	C5-N7-C8	6.75	107.27	103.90
80	6	266	A	C6-N1-C2	-6.75	114.55	118.60
80	6	783	G	C6-C5-N7	6.75	134.45	130.40
80	6	1110	G	C4-C5-N7	-6.75	108.10	110.80
85	5	193	C	N3-C4-C5	6.75	124.60	121.90
85	5	635	G	C5-N7-C8	-6.75	100.93	104.30
85	5	654	C	O5'-P-OP2	-6.75	99.63	105.70
85	5	666	A	C2-N3-C4	-6.75	107.22	110.60
85	5	1231	A	C2-N3-C4	-6.75	107.23	110.60
85	5	1714	A	N7-C8-N9	6.75	117.17	113.80
85	5	2917	G	C6-N1-C2	-6.75	121.05	125.10
37	7	52	G	C4-C5-N7	-6.75	108.10	110.80
38	8	6	U	OP1-P-O3'	6.75	120.05	105.20
38	8	86	U	N1-C2-N3	-6.75	110.85	114.90
1	2	299	A	C2-N3-C4	6.75	113.97	110.60
1	2	621	A	C4-C5-N7	6.75	114.07	110.70
1	2	1097	G	N1-C6-O6	6.75	123.95	119.90
36	1	30	G	OP1-P-OP2	-6.75	109.48	119.60
36	1	641	C	C4-C5-C6	6.75	120.77	117.40
36	1	797	U	OP1-P-OP2	-6.75	109.48	119.60
36	1	1001	G	N9-C4-C5	6.75	108.10	105.40
36	1	1295	G	C5-C6-N1	6.75	114.87	111.50
36	1	1340	G	N1-C2-N3	6.75	127.95	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2230	C	O5'-P-OP1	-6.75	99.63	105.70
36	1	2605	G	C5-N7-C8	-6.75	100.93	104.30
36	1	2813	A	N1-C2-N3	6.75	132.67	129.30
36	1	2871	G	N1-C6-O6	-6.75	115.85	119.90
36	1	3264	G	N1-C2-N3	6.75	127.95	123.90
37	3	25	G	C6-C5-N7	-6.75	126.35	130.40
80	6	376	C	OP1-P-OP2	6.75	129.72	119.60
80	6	536	C	C5-C6-N1	6.75	124.37	121.00
85	5	398	A	OP1-P-OP2	6.75	129.72	119.60
85	5	944	C	C5-C4-N4	6.75	124.92	120.20
85	5	1215	U	OP1-P-OP2	-6.75	109.48	119.60
85	5	1284	C	N3-C2-O2	-6.75	117.18	121.90
85	5	2538	U	C5-C6-N1	6.75	126.07	122.70
85	5	2683	U	C5-C4-O4	6.75	129.95	125.90
85	5	3140	G	C4-C5-N7	-6.75	108.10	110.80
85	5	3382	U	N1-C1'-C2'	6.75	122.77	114.00
1	2	997	G	N3-C4-C5	-6.75	125.23	128.60
1	2	1185	A	N9-C4-C5	6.75	108.50	105.80
80	6	424	C	O5'-P-OP1	-6.75	99.63	105.70
80	6	571	G	C5-C6-O6	6.75	132.65	128.60
85	5	624	G	N1-C6-O6	6.75	123.95	119.90
36	1	182	U	N3-C2-O2	-6.74	117.48	122.20
36	1	993	G	N3-C4-N9	6.74	130.05	126.00
36	1	1078	U	N3-C2-O2	-6.74	117.48	122.20
36	1	2646	C	N1-C2-O2	-6.74	114.85	118.90
37	3	18	C	N1-C2-O2	6.74	122.95	118.90
80	6	1523	G	N3-C2-N2	6.74	124.62	119.90
80	6	1629	G	C5-N7-C8	6.74	107.67	104.30
80	6	1726	G	N1-C2-N3	6.74	127.95	123.90
85	5	531	G	OP1-P-OP2	6.74	129.71	119.60
85	5	835	G	N3-C4-C5	-6.74	125.23	128.60
85	5	1554	U	OP1-P-O3'	6.74	120.03	105.20
85	5	2873	U	C2-N3-C4	-6.74	122.95	127.00
38	8	110	C	C2-N1-C1'	6.74	126.22	118.80
1	2	1332	G	C2-N3-C4	-6.74	108.53	111.90
36	1	271	C	N3-C2-O2	6.74	126.62	121.90
36	1	873	C	OP1-P-OP2	-6.74	109.49	119.60
36	1	1442	U	O5'-P-OP2	6.74	118.79	110.70
36	1	2877	G	C2-N3-C4	-6.74	108.53	111.90
80	6	173	A	C2-N3-C4	-6.74	107.23	110.60
80	6	1103	U	N1-C2-O2	6.74	127.52	122.80
85	5	1859	A	C5-C6-N1	6.74	121.07	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2535	A	N1-C2-N3	-6.74	125.93	129.30
85	5	3060	C	N3-C4-N4	6.74	122.72	118.00
36	1	750	G	C8-N9-C4	-6.74	103.70	106.40
36	1	938	C	N3-C4-C5	6.74	124.60	121.90
36	1	941	G	C6-N1-C2	-6.74	121.06	125.10
36	1	1394	A	C4-C5-N7	6.74	114.07	110.70
36	1	3057	U	N3-C2-O2	-6.74	117.48	122.20
36	1	3384	U	O5'-P-OP1	-6.74	99.63	105.70
38	4	28	C	N3-C4-N4	6.74	122.72	118.00
53	M7	91	VAL	CG1-CB-CG2	-6.74	100.11	110.90
80	6	343	C	C6-N1-C2	-6.74	117.60	120.30
80	6	405	C	N3-C2-O2	6.74	126.62	121.90
80	6	736	C	N3-C4-C5	6.74	124.60	121.90
80	6	1147	A	C4-C5-C6	6.74	120.37	117.00
80	6	1485	C	N1-C2-O2	6.74	122.94	118.90
85	5	738	A	C4-C5-N7	6.74	114.07	110.70
85	5	739	G	N3-C2-N2	6.74	124.62	119.90
85	5	2117	A	C2-N3-C4	6.74	113.97	110.60
85	5	2379	U	C6-N1-C2	-6.74	116.96	121.00
1	2	165	G	O5'-P-OP2	-6.74	99.64	105.70
36	1	637	C	C5'-C4'-O4'	-6.74	101.01	109.10
36	1	1207	G	C8-N9-C4	6.74	109.10	106.40
36	1	3242	G	N9-C4-C5	-6.74	102.70	105.40
62	N6	30	LEU	CA-CB-CG	6.74	130.80	115.30
85	5	94	G	N7-C8-N9	-6.74	109.73	113.10
85	5	581	U	N1-C2-O2	-6.74	118.08	122.80
85	5	582	G	OP1-P-OP2	-6.74	109.49	119.60
85	5	928	C	OP1-P-OP2	6.74	129.71	119.60
85	5	1294	A	OP1-P-OP2	6.74	129.71	119.60
85	5	1332	A	N1-C2-N3	6.74	132.67	129.30
85	5	1393	A	N1-C2-N3	6.74	132.67	129.30
85	5	1524	A	C6-N1-C2	-6.74	114.56	118.60
85	5	1635	G	O5'-P-OP1	-6.74	99.64	105.70
85	5	2177	G	O5'-P-OP1	6.74	118.79	110.70
85	5	3206	C	C2-N3-C4	-6.74	116.53	119.90
36	1	2565	U	N1-C2-O2	6.74	127.52	122.80
36	1	2572	C	N1-C2-O2	6.74	122.94	118.90
36	1	2823	G	C5-C6-N1	-6.74	108.13	111.50
36	1	2859	U	OP2-P-O3'	6.74	120.02	105.20
36	1	3190	C	C6-N1-C2	-6.74	117.61	120.30
52	M6	160	ARG	NE-CZ-NH2	6.74	123.67	120.30
80	6	277	U	N1-C2-O2	6.74	127.52	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1436	U	O5'-P-OP1	6.74	118.78	110.70
85	5	2394	G	OP2-P-O3'	6.74	120.02	105.20
85	5	2943	G	N3-C2-N2	-6.74	115.18	119.90
1	2	210	A	C2-N3-C4	-6.74	107.23	110.60
1	2	370	A	C6-N1-C2	-6.74	114.56	118.60
1	2	429	G	C5-N7-C8	-6.74	100.93	104.30
36	1	964	G	N3-C4-N9	-6.74	121.96	126.00
36	1	1286	A	C5-N7-C8	6.74	107.27	103.90
36	1	1419	A	C8-N9-C4	-6.74	103.11	105.80
36	1	1751	G	C6-N1-C2	-6.74	121.06	125.10
36	1	2227	C	C2-N3-C4	-6.74	116.53	119.90
36	1	2289	U	N1-C2-O2	-6.74	118.09	122.80
80	6	16	G	C6-N1-C2	-6.74	121.06	125.10
80	6	1755	A	C4-C5-C6	6.74	120.37	117.00
80	6	1766	A	N1-C6-N6	6.74	122.64	118.60
85	5	1363	A	C5-C6-N6	6.74	129.09	123.70
85	5	1893	A	N1-C2-N3	6.74	132.67	129.30
85	5	3307	A	C8-N9-C4	-6.74	103.11	105.80
36	1	1084	A	C4-C5-N7	6.73	114.07	110.70
36	1	1377	G	N1-C2-N2	6.73	122.26	116.20
36	1	1814	A	N1-C6-N6	6.73	122.64	118.60
80	6	858	G	C4-C5-N7	6.73	113.49	110.80
85	5	52	A	N1-C6-N6	-6.73	114.56	118.60
85	5	1008	U	C6-N1-C2	6.73	125.04	121.00
85	5	1192	C	C5-C6-N1	-6.73	117.63	121.00
85	5	1441	G	OP1-P-O3'	6.73	120.02	105.20
85	5	2291	A	N1-C2-N3	6.73	132.67	129.30
1	2	126	A	N9-C4-C5	6.73	108.49	105.80
1	2	1794	G	P-O3'-C3'	6.73	127.78	119.70
36	1	5	G	C6-C5-N7	-6.73	126.36	130.40
36	1	2914	G	N7-C8-N9	-6.73	109.73	113.10
37	3	102	A	N1-C2-N3	6.73	132.67	129.30
80	6	203	U	C5-C6-N1	-6.73	119.33	122.70
80	6	311	U	OP1-P-O3'	6.73	120.01	105.20
80	6	386	G	C5-N7-C8	-6.73	100.93	104.30
80	6	1418	G	C6-C5-N7	-6.73	126.36	130.40
85	5	660	A	C6-N1-C2	-6.73	114.56	118.60
85	5	694	C	OP1-P-OP2	6.73	129.70	119.60
85	5	912	G	C6-C5-N7	-6.73	126.36	130.40
85	5	1413	G	N1-C6-O6	6.73	123.94	119.90
85	5	1557	A	C5-C6-N1	6.73	121.07	117.70
85	5	1733	G	N1-C2-N3	6.73	127.94	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2247	G	C5-C6-O6	6.73	132.64	128.60
85	5	2627	C	N1-C2-N3	6.73	123.91	119.20
85	5	3095	U	N3-C4-O4	6.73	124.11	119.40
1	2	579	A	N1-C6-N6	-6.73	114.56	118.60
36	1	130	A	C5-C6-N1	6.73	121.07	117.70
36	1	289	A	C4-C5-C6	6.73	120.37	117.00
36	1	876	A	N9-C4-C5	-6.73	103.11	105.80
36	1	1050	U	N1-C2-N3	6.73	118.94	114.90
36	1	1205	A	C6-N1-C2	6.73	122.64	118.60
36	1	1380	G	O5'-P-OP1	6.73	118.78	110.70
36	1	1477	A	C4-C5-N7	6.73	114.06	110.70
36	1	2660	G	OP1-P-O3'	6.73	120.01	105.20
38	4	53	A	O5'-P-OP2	-6.73	99.64	105.70
38	4	86	U	N3-C2-O2	6.73	126.91	122.20
85	5	366	A	C4-C5-N7	-6.73	107.33	110.70
85	5	786	A	C2-N3-C4	-6.73	107.23	110.60
85	5	1410	U	O5'-P-OP2	-6.73	99.64	105.70
85	5	1658	G	C6-N1-C2	-6.73	121.06	125.10
85	5	2562	A	N1-C6-N6	6.73	122.64	118.60
1	2	93	A	C5-C6-N6	6.73	129.08	123.70
1	2	1309	A	N1-C6-N6	-6.73	114.56	118.60
1	2	1631	A	OP1-P-OP2	6.73	129.69	119.60
36	1	823	C	C4-C5-C6	6.73	120.77	117.40
36	1	1022	U	N3-C4-C5	6.73	118.64	114.60
85	5	1472	U	C2-N1-C1'	-6.73	109.62	117.70
85	5	1873	U	C5-C6-N1	6.73	126.06	122.70
85	5	1883	A	N9-C4-C5	-6.73	103.11	105.80
85	5	2618	G	N3-C4-N9	6.73	130.04	126.00
85	5	3143	C	C4-C5-C6	6.73	120.76	117.40
1	2	459	G	C5-N7-C8	-6.73	100.94	104.30
1	2	617	U	C2-N3-C4	-6.73	122.96	127.00
1	2	956	A	C4-C5-C6	6.73	120.36	117.00
36	1	1022	U	C4-C5-C6	-6.73	115.66	119.70
36	1	1607	U	N1-C2-O2	-6.73	118.09	122.80
36	1	1681	U	C2-N3-C4	-6.73	122.96	127.00
36	1	3261	C	C4-C5-C6	6.73	120.76	117.40
80	6	160	C	N3-C2-O2	-6.73	117.19	121.90
80	6	343	C	N1-C2-O2	-6.73	114.86	118.90
80	6	523	G	C5-C6-O6	-6.73	124.56	128.60
80	6	544	A	N7-C8-N9	-6.73	110.44	113.80
80	6	972	G	O5'-P-OP1	-6.73	99.64	105.70
85	5	1524	A	C2-N3-C4	-6.73	107.24	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2126	A	N7-C8-N9	-6.73	110.44	113.80
85	5	2838	A	C2-N3-C4	6.73	113.96	110.60
85	5	2932	U	C2-N3-C4	-6.73	122.96	127.00
85	5	3307	A	N1-C2-N3	6.73	132.66	129.30
36	1	570	A	C5-N7-C8	-6.73	100.54	103.90
36	1	1110	U	C5-C4-O4	-6.73	121.86	125.90
36	1	1301	A	C5-N7-C8	-6.73	100.54	103.90
36	1	3358	U	C5-C6-N1	-6.73	119.34	122.70
85	5	406	G	C5-N7-C8	-6.73	100.94	104.30
85	5	863	C	C6-N1-C1'	-6.73	112.73	120.80
85	5	1848	G	N1-C2-N2	-6.73	110.15	116.20
85	5	2240	G	O5'-P-OP2	6.73	118.77	110.70
85	5	3331	U	C5-C6-N1	6.73	126.06	122.70
1	2	1138	G	N7-C8-N9	-6.72	109.74	113.10
1	2	1193	C	N3-C2-O2	6.72	126.61	121.90
36	1	128	G	C2-N3-C4	-6.72	108.54	111.90
36	1	2621	G	N3-C2-N2	-6.72	115.19	119.90
36	1	2899	C	N3-C4-C5	6.72	124.59	121.90
36	1	2915	U	N1-C2-N3	6.72	118.94	114.90
37	3	1	G	C6-C5-N7	-6.72	126.36	130.40
37	3	120	C	C2-N3-C4	-6.72	116.54	119.90
70	O4	41	ARG	NE-CZ-NH1	-6.72	116.94	120.30
85	5	1114	U	N1-C2-N3	6.72	118.94	114.90
85	5	2412	G	C4-C5-C6	6.72	122.83	118.80
85	5	2560	C	C2-N3-C4	6.72	123.26	119.90
85	5	2970	C	N1-C2-O2	-6.72	114.86	118.90
1	2	133	U	C5-C4-O4	6.72	129.93	125.90
1	2	222	A	N1-C2-N3	-6.72	125.94	129.30
1	2	611	U	O5'-P-OP1	-6.72	99.65	105.70
1	2	1179	A	C2-N3-C4	6.72	113.96	110.60
36	1	1093	A	N9-C4-C5	-6.72	103.11	105.80
36	1	1865	A	OP1-P-O3'	6.72	119.99	105.20
36	1	2120	A	O5'-P-OP2	-6.72	99.65	105.70
36	1	2843	U	C4-C5-C6	6.72	123.73	119.70
36	1	2920	U	OP2-P-O3'	6.72	119.99	105.20
37	3	38	U	N3-C2-O2	6.72	126.91	122.20
80	6	537	G	N1-C6-O6	6.72	123.93	119.90
80	6	591	A	C2-N3-C4	6.72	113.96	110.60
85	5	327	A	C4-C5-C6	-6.72	113.64	117.00
85	5	754	G	C8-N9-C4	6.72	109.09	106.40
85	5	994	G	N3-C4-N9	6.72	130.03	126.00
85	5	1294	A	O5'-P-OP1	-6.72	99.65	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1560	G	C8-N9-C4	6.72	109.09	106.40
85	5	1799	A	O5'-P-OP2	-6.72	99.65	105.70
36	1	2229	A	N7-C8-N9	-6.72	110.44	113.80
36	1	3025	C	N3-C2-O2	-6.72	117.20	121.90
80	6	729	G	C5-C6-O6	-6.72	124.57	128.60
85	5	402	A	N1-C6-N6	-6.72	114.57	118.60
85	5	1121	U	O5'-P-OP2	-6.72	99.65	105.70
85	5	2260	U	N1-C2-N3	6.72	118.93	114.90
85	5	2305	G	N1-C2-N3	6.72	127.93	123.90
85	5	2619	G	C5-C6-O6	6.72	132.63	128.60
85	5	2839	G	N3-C2-N2	-6.72	115.19	119.90
1	2	134	U	N3-C4-O4	6.72	124.10	119.40
1	2	296	U	N3-C4-C5	-6.72	110.57	114.60
36	1	110	G	C6-C5-N7	-6.72	126.37	130.40
36	1	564	G	C2-N3-C4	6.72	115.26	111.90
36	1	1164	G	OP1-P-OP2	6.72	129.68	119.60
36	1	1385	C	N3-C4-C5	-6.72	119.21	121.90
36	1	1389	G	N3-C4-N9	6.72	130.03	126.00
36	1	1752	A	C6-N1-C2	-6.72	114.57	118.60
36	1	2245	C	N3-C2-O2	-6.72	117.20	121.90
36	1	2335	G	C8-N9-C4	-6.72	103.71	106.40
36	1	2821	C	C4-C5-C6	6.72	120.76	117.40
36	1	2893	C	C5-C6-N1	-6.72	117.64	121.00
36	1	2908	G	N3-C4-N9	6.72	130.03	126.00
36	1	3072	C	N3-C2-O2	-6.72	117.20	121.90
36	1	3231	U	N1-C2-N3	6.72	118.93	114.90
37	3	26	C	OP1-P-O3'	6.72	119.98	105.20
38	4	91	C	C6-N1-C2	-6.72	117.61	120.30
47	M0	167	LEU	CB-CG-CD1	6.72	122.42	111.00
59	N3	56	ASP	CB-CG-OD1	-6.72	112.25	118.30
85	5	224	C	C2-N1-C1'	6.72	126.19	118.80
85	5	593	C	C6-N1-C2	6.72	122.99	120.30
85	5	668	G	N3-C2-N2	6.72	124.60	119.90
85	5	688	G	C4-C5-C6	6.72	122.83	118.80
85	5	907	G	C6-N1-C2	-6.72	121.07	125.10
85	5	1498	A	OP2-P-O3'	6.72	119.98	105.20
85	5	1800	A	C5-N7-C8	6.72	107.26	103.90
85	5	2598	G	N1-C6-O6	6.72	123.93	119.90
85	5	2755	C	C4-C5-C6	6.72	120.76	117.40
85	5	2970	C	N3-C2-O2	6.72	126.60	121.90
1	2	333	A	C6-N1-C2	-6.72	114.57	118.60
36	1	159	A	C4-C5-N7	6.72	114.06	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	848	A	C4-C5-N7	-6.72	107.34	110.70
36	1	1186	G	N1-C2-N2	-6.72	110.15	116.20
36	1	1706	C	N1-C2-O2	6.72	122.93	118.90
36	1	2506	U	N1-C2-O2	6.72	127.50	122.80
80	6	393	C	N1-C2-N3	6.72	123.90	119.20
80	6	1027	A	N3-C4-N9	-6.72	122.03	127.40
80	6	1404	C	C5-C6-N1	-6.72	117.64	121.00
85	5	532	A	N9-C4-C5	6.72	108.49	105.80
85	5	2243	A	O5'-P-OP2	6.72	118.76	110.70
1	2	1104	C	N1-C2-O2	-6.72	114.87	118.90
1	2	1229	C	N1-C2-N3	6.72	123.90	119.20
1	2	1595	U	O5'-P-OP2	6.72	118.76	110.70
36	1	1599	G	N3-C4-C5	6.72	131.96	128.60
36	1	2607	G	OP2-P-O3'	6.72	119.98	105.20
36	1	2763	U	N3-C2-O2	-6.72	117.50	122.20
38	4	6	U	C6-N1-C2	6.72	125.03	121.00
80	6	742	U	N3-C4-C5	-6.72	110.57	114.60
85	5	232	G	O4'-C1'-N9	6.72	113.57	108.20
85	5	359	U	O5'-P-OP1	6.72	118.76	110.70
85	5	673	U	N3-C4-C5	-6.72	110.57	114.60
85	5	1420	C	OP2-P-O3'	6.72	119.98	105.20
85	5	1607	U	N1-C2-O2	6.72	127.50	122.80
85	5	2320	A	O5'-P-OP2	-6.72	99.65	105.70
85	5	2621	G	O4'-C1'-N9	-6.72	102.83	108.20
85	5	2717	U	OP1-P-O3'	-6.72	90.42	105.20
85	5	3088	G	C6-N1-C2	-6.72	121.07	125.10
37	7	2	G	C4-C5-N7	6.72	113.49	110.80
37	7	101	G	N1-C2-N3	6.72	127.93	123.90
38	8	135	G	C4-C5-N7	-6.72	108.11	110.80
1	2	1391	G	N1-C6-O6	6.71	123.93	119.90
36	1	67	A	OP1-P-OP2	-6.71	109.53	119.60
36	1	941	G	N3-C2-N2	6.71	124.60	119.90
36	1	1752	A	N1-C2-N3	6.71	132.66	129.30
36	1	1881	A	C5-C6-N6	-6.71	118.33	123.70
36	1	2222	A	OP2-P-O3'	6.71	119.97	105.20
36	1	2395	G	N3-C4-N9	-6.71	121.97	126.00
80	6	539	G	C6-C5-N7	-6.71	126.37	130.40
80	6	1572	G	C5-N7-C8	-6.71	100.94	104.30
85	5	2153	U	C4-C5-C6	6.71	123.73	119.70
85	5	2403	G	N7-C8-N9	6.71	116.46	113.10
36	1	738	A	C5-C6-N1	6.71	121.06	117.70
36	1	977	C	C2-N3-C4	6.71	123.26	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1877	U	N3-C4-C5	-6.71	110.57	114.60
36	1	2287	C	N3-C4-N4	-6.71	113.30	118.00
36	1	2700	G	N3-C2-N2	6.71	124.60	119.90
36	1	3144	G	C2-N3-C4	-6.71	108.54	111.90
80	6	1597	A	C5-N7-C8	6.71	107.26	103.90
85	5	160	G	C5-C6-N1	-6.71	108.14	111.50
85	5	1520	G	N7-C8-N9	6.71	116.46	113.10
85	5	2377	G	N7-C8-N9	-6.71	109.74	113.10
85	5	2628	A	N9-C4-C5	6.71	108.48	105.80
85	5	2841	G	C4-C5-N7	6.71	113.48	110.80
1	2	766	G	O5'-P-OP1	-6.71	99.66	105.70
1	2	1496	G	C4-C5-N7	-6.71	108.11	110.80
36	1	347	G	C8-N9-C1'	-6.71	118.28	127.00
36	1	409	A	OP1-P-O3'	6.71	119.96	105.20
36	1	1374	G	O5'-P-OP1	-6.71	99.66	105.70
36	1	1400	G	C5-C6-N1	-6.71	108.14	111.50
36	1	1501	U	N3-C2-O2	6.71	126.90	122.20
36	1	1562	C	N3-C4-N4	-6.71	113.30	118.00
36	1	2698	G	OP1-P-O3'	6.71	119.97	105.20
36	1	2873	U	C2-N3-C4	-6.71	122.97	127.00
36	1	3043	C	C2-N3-C4	-6.71	116.55	119.90
80	6	423	G	OP2-P-O3'	6.71	119.97	105.20
80	6	1523	G	N1-C2-N2	-6.71	110.16	116.20
85	5	498	A	C4-C5-N7	6.71	114.06	110.70
85	5	1183	C	C2-N3-C4	-6.71	116.54	119.90
85	5	1203	A	C4-C5-C6	6.71	120.36	117.00
85	5	1375	G	N7-C8-N9	6.71	116.45	113.10
85	5	3273	A	N1-C6-N6	-6.71	114.57	118.60
37	7	86	U	N3-C2-O2	6.71	126.90	122.20
1	2	92	A	C5-N7-C8	6.71	107.25	103.90
1	2	552	G	N7-C8-N9	6.71	116.45	113.10
36	1	1897	G	N3-C4-N9	6.71	130.03	126.00
85	5	2143	A	C8-N9-C4	-6.71	103.12	105.80
85	5	2559	U	N3-C4-O4	-6.71	114.70	119.40
85	5	2899	C	N3-C4-N4	6.71	122.70	118.00
36	1	179	C	N3-C2-O2	-6.71	117.20	121.90
36	1	572	A	C4-C5-N7	6.71	114.06	110.70
36	1	2174	G	C8-N9-C4	-6.71	103.72	106.40
36	1	2522	G	N7-C8-N9	6.71	116.45	113.10
36	1	2739	A	C8-N9-C4	6.71	108.48	105.80
36	1	2819	A	N1-C2-N3	-6.71	125.95	129.30
36	1	2840	C	C4-C5-C6	6.71	120.75	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2904	U	N3-C2-O2	-6.71	117.50	122.20
80	6	201	G	N1-C2-N3	6.71	127.92	123.90
85	5	276	U	O5'-P-OP2	6.71	118.75	110.70
85	5	419	G	O5'-P-OP1	6.71	118.75	110.70
85	5	613	G	N3-C4-N9	-6.71	121.97	126.00
85	5	723	U	C2-N1-C1'	-6.71	109.65	117.70
85	5	846	A	C8-N9-C4	-6.71	103.12	105.80
85	5	906	A	C6-N1-C2	-6.71	114.58	118.60
85	5	1721	U	N1-C2-N3	6.71	118.93	114.90
85	5	2294	U	O5'-P-OP2	-6.71	99.66	105.70
85	5	2696	A	C2-N3-C4	6.71	113.95	110.60
85	5	3214	U	N1-C2-O2	6.71	127.50	122.80
85	5	3243	A	N1-C6-N6	6.71	122.63	118.60
72	o6	98	ARG	NE-CZ-NH1	6.71	123.66	120.30
1	2	971	A	C5-N7-C8	-6.71	100.55	103.90
1	2	1329	A	C5-C6-N1	-6.71	114.35	117.70
1	2	1536	G	O5'-P-OP1	-6.71	99.66	105.70
1	2	1645	G	C5-C6-N1	6.71	114.85	111.50
1	2	1711	A	N1-C2-N3	6.71	132.65	129.30
36	1	1061	A	C4-C5-C6	6.71	120.35	117.00
36	1	2097	U	N3-C4-C5	-6.71	110.58	114.60
36	1	2199	G	C6-C5-N7	-6.71	126.38	130.40
36	1	3229	G	N3-C4-C5	6.71	131.95	128.60
38	4	10	A	N7-C8-N9	-6.71	110.45	113.80
80	6	146	U	C5-C4-O4	-6.71	121.88	125.90
80	6	1746	A	C4-C5-C6	6.71	120.35	117.00
85	5	1422	G	OP1-P-O3'	-6.71	90.44	105.20
85	5	1440	G	C5-C6-O6	-6.71	124.58	128.60
1	2	1135	A	N7-C8-N9	6.71	117.15	113.80
36	1	561	C	N3-C4-N4	6.71	122.69	118.00
36	1	962	A	N7-C8-N9	6.71	117.15	113.80
36	1	2386	A	C4-C5-N7	6.71	114.05	110.70
36	1	2950	G	C5-N7-C8	-6.71	100.95	104.30
40	L3	10	ARG	NE-CZ-NH1	-6.71	116.95	120.30
80	6	368	U	C5-C6-N1	-6.71	119.35	122.70
80	6	1200	G	C6-C5-N7	-6.71	126.38	130.40
85	5	214	G	N7-C8-N9	6.71	116.45	113.10
85	5	933	A	N9-C4-C5	6.71	108.48	105.80
85	5	1019	G	C5-C6-N1	6.71	114.85	111.50
85	5	1829	G	N3-C2-N2	-6.71	115.21	119.90
85	5	2977	G	N1-C2-N3	6.71	127.92	123.90
38	8	11	C	OP1-P-O3'	6.71	119.95	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	106	U	C6-N1-C2	-6.70	116.98	121.00
1	2	414	C	C5-C6-N1	6.70	124.35	121.00
1	2	1497	U	C5-C6-N1	-6.70	119.35	122.70
36	1	129	U	N3-C4-C5	-6.70	110.58	114.60
36	1	433	A	O4'-C1'-N9	-6.70	102.84	108.20
36	1	509	U	OP1-P-OP2	-6.70	109.55	119.60
36	1	570	A	C4-C5-N7	6.70	114.05	110.70
36	1	999	G	C6-N1-C2	-6.70	121.08	125.10
36	1	1325	U	C2-N3-C4	-6.70	122.98	127.00
36	1	1500	G	C8-N9-C4	-6.70	103.72	106.40
36	1	1796	G	N7-C8-N9	6.70	116.45	113.10
36	1	1914	G	N1-C2-N3	6.70	127.92	123.90
36	1	2658	G	OP1-P-OP2	-6.70	109.54	119.60
80	6	1629	G	N9-C4-C5	6.70	108.08	105.40
85	5	2727	A	N9-C4-C5	6.70	108.48	105.80
85	5	2740	A	C4-C5-N7	6.70	114.05	110.70
62	n6	126	LEU	CA-CB-CG	6.70	130.72	115.30
36	1	337	G	C4-C5-C6	6.70	122.82	118.80
36	1	2431	C	N3-C4-C5	-6.70	119.22	121.90
36	1	3334	U	C4-C5-C6	6.70	123.72	119.70
80	6	445	A	C5-N7-C8	-6.70	100.55	103.90
80	6	757	A	C4-C5-C6	6.70	120.35	117.00
80	6	879	G	C2-N3-C4	6.70	115.25	111.90
80	6	958	U	N3-C2-O2	-6.70	117.51	122.20
85	5	584	G	C4-C5-C6	6.70	122.82	118.80
85	5	976	U	O5'-P-OP2	-6.70	99.67	105.70
85	5	1224	C	N1-C2-O2	-6.70	114.88	118.90
85	5	1656	A	C4-C5-N7	-6.70	107.35	110.70
1	2	233	C	N1-C2-O2	-6.70	114.88	118.90
1	2	368	U	C2-N1-C1'	6.70	125.74	117.70
1	2	531	C	C5-C6-N1	-6.70	117.65	121.00
1	2	547	U	N3-C4-O4	-6.70	114.71	119.40
1	2	1094	G	OP2-P-O3'	6.70	119.94	105.20
1	2	1703	G	N7-C8-N9	-6.70	109.75	113.10
36	1	1519	G	N1-C2-N3	6.70	127.92	123.90
36	1	2506	U	N1-C2-N3	-6.70	110.88	114.90
36	1	3015	G	C2-N3-C4	-6.70	108.55	111.90
36	1	3164	C	N1-C2-O2	6.70	122.92	118.90
80	6	351	C	N1-C2-O2	-6.70	114.88	118.90
80	6	715	U	C5-C4-O4	6.70	129.92	125.90
80	6	891	A	O5'-P-OP2	-6.70	99.67	105.70
80	6	1172	G	C5-C6-N1	6.70	114.85	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	77	A	OP1-P-O3'	-6.70	90.46	105.20
85	5	1402	C	O5'-P-OP1	6.70	118.74	110.70
85	5	2194	G	N1-C6-O6	-6.70	115.88	119.90
85	5	2614	G	N1-C6-O6	-6.70	115.88	119.90
85	5	2665	U	N1-C2-N3	6.70	118.92	114.90
85	5	2896	A	O5'-P-OP2	-6.70	99.67	105.70
85	5	2963	C	C6-N1-C2	-6.70	117.62	120.30
1	2	408	C	N1-C2-N3	6.70	123.89	119.20
36	1	836	A	C5-C6-N6	-6.70	118.34	123.70
36	1	1062	A	C6-C5-N7	-6.70	127.61	132.30
36	1	1772	U	O5'-P-OP2	-6.70	99.67	105.70
36	1	3298	C	C5-C4-N4	-6.70	115.51	120.20
37	3	72	A	N1-C6-N6	6.70	122.62	118.60
38	4	64	U	N3-C2-O2	-6.70	117.51	122.20
80	6	347	G	N1-C2-N3	6.70	127.92	123.90
80	6	794	U	N1-C2-O2	6.70	127.49	122.80
80	6	1570	A	C6-N1-C2	-6.70	114.58	118.60
85	5	207	U	N1-C2-O2	-6.70	118.11	122.80
85	5	291	C	C5-C4-N4	6.70	124.89	120.20
85	5	572	A	C5-C6-N1	6.70	121.05	117.70
85	5	701	G	N9-C4-C5	-6.70	102.72	105.40
85	5	1391	C	C4-C5-C6	6.70	120.75	117.40
85	5	2121	G	C6-N1-C2	-6.70	121.08	125.10
85	5	2275	A	C8-N9-C4	-6.70	103.12	105.80
85	5	2790	A	C8-N9-C4	6.70	108.48	105.80
85	5	3007	U	OP2-P-O3'	6.70	119.94	105.20
85	5	3052	G	C6-C5-N7	6.70	134.42	130.40
1	2	554	C	C5-C6-N1	6.70	124.35	121.00
36	1	594	U	N3-C4-C5	-6.70	110.58	114.60
36	1	644	G	C2-N3-C4	-6.70	108.55	111.90
36	1	1287	A	C5-C6-N1	-6.70	114.35	117.70
36	1	2637	A	N7-C8-N9	6.70	117.15	113.80
36	1	2939	G	N9-C4-C5	6.70	108.08	105.40
80	6	481	A	C2-N3-C4	6.70	113.95	110.60
80	6	575	C	O5'-P-OP1	-6.70	99.67	105.70
80	6	804	A	C5-C6-N1	-6.70	114.35	117.70
85	5	378	A	C4-C5-N7	-6.70	107.35	110.70
85	5	644	G	C2-N3-C4	-6.70	108.55	111.90
85	5	2313	A	C8-N9-C4	-6.70	103.12	105.80
85	5	2627	C	OP1-P-OP2	-6.70	109.56	119.60
1	2	572	C	N3-C4-C5	-6.70	119.22	121.90
1	2	1333	U	N3-C2-O2	6.70	126.89	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1543	G	N1-C2-N3	-6.70	119.88	123.90
36	1	1626	U	C6-N1-C2	6.70	125.02	121.00
36	1	2320	A	O5'-P-OP1	6.70	118.73	110.70
36	1	2522	G	N1-C2-N2	6.70	122.23	116.20
36	1	3142	A	O5'-P-OP2	-6.70	99.67	105.70
36	1	3288	G	C6-N1-C2	6.70	129.12	125.10
38	4	114	G	N1-C6-O6	6.70	123.92	119.90
80	6	433	C	C5-C4-N4	-6.70	115.51	120.20
80	6	1122	G	N1-C2-N3	6.70	127.92	123.90
80	6	1213	G	C5-C6-N1	-6.70	108.15	111.50
85	5	7	C	N3-C2-O2	6.70	126.59	121.90
85	5	1057	A	C5-C6-N1	6.70	121.05	117.70
85	5	1379	G	C8-N9-C4	6.70	109.08	106.40
85	5	1406	A	OP2-P-O3'	6.70	119.93	105.20
85	5	1512	U	N3-C2-O2	-6.70	117.51	122.20
85	5	2278	C	C2-N3-C4	6.70	123.25	119.90
85	5	2991	A	OP2-P-O3'	6.70	119.93	105.20
1	2	1274	G	C4-C5-N7	6.69	113.48	110.80
36	1	655	C	C2-N1-C1'	6.69	126.16	118.80
36	1	1617	G	N3-C2-N2	-6.69	115.21	119.90
36	1	2668	U	C5-C4-O4	-6.69	121.88	125.90
80	6	491	C	C6-N1-C2	-6.69	117.62	120.30
80	6	1297	G	C5-C6-O6	6.69	132.62	128.60
1	2	690	A	C2-N3-C4	6.69	113.95	110.60
36	1	1287	A	C4-C5-C6	6.69	120.35	117.00
36	1	1612	A	N1-C2-N3	6.69	132.65	129.30
36	1	2907	G	O5'-P-OP1	6.69	118.73	110.70
80	6	977	A	OP1-P-OP2	-6.69	109.56	119.60
85	5	1416	C	C2-N3-C4	-6.69	116.55	119.90
85	5	1617	G	C5-C6-O6	-6.69	124.58	128.60
85	5	1927	G	C6-C5-N7	-6.69	126.39	130.40
85	5	2878	G	C6-C5-N7	-6.69	126.38	130.40
85	5	2972	G	N1-C2-N3	6.69	127.92	123.90
1	2	581	U	N3-C2-O2	-6.69	117.52	122.20
1	2	806	G	C2-N3-C4	6.69	115.25	111.90
1	2	851	G	N7-C8-N9	6.69	116.44	113.10
1	2	1199	C	C6-N1-C2	-6.69	117.62	120.30
36	1	324	A	C6-N1-C2	-6.69	114.58	118.60
36	1	388	G	N3-C2-N2	-6.69	115.22	119.90
36	1	904	A	OP1-P-OP2	-6.69	109.56	119.60
80	6	169	A	C5-C6-N6	6.69	129.05	123.70
80	6	451	A	N3-C4-C5	6.69	131.48	126.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	996	U	N3-C4-C5	-6.69	110.58	114.60
80	6	1655	A	C2-N3-C4	6.69	113.94	110.60
85	5	70	A	O5'-P-OP1	-6.69	99.68	105.70
85	5	86	G	N1-C6-O6	6.69	123.91	119.90
85	5	123	A	C8-N9-C4	6.69	108.48	105.80
85	5	241	G	C5-N7-C8	-6.69	100.95	104.30
85	5	851	C	N1-C2-N3	6.69	123.88	119.20
85	5	1399	A	C6-C5-N7	-6.69	127.62	132.30
85	5	1416	C	C2-N1-C1'	6.69	126.16	118.80
85	5	1894	U	N3-C4-O4	-6.69	114.72	119.40
85	5	2391	G	N7-C8-N9	-6.69	109.75	113.10
85	5	2650	U	N1-C2-N3	6.69	118.92	114.90
85	5	2714	G	N7-C8-N9	6.69	116.44	113.10
85	5	2762	A	C6-N1-C2	-6.69	114.59	118.60
85	5	3013	U	C6-N1-C2	-6.69	116.99	121.00
85	5	3159	C	C5-C6-N1	-6.69	117.66	121.00
80	6	1139	A	N7-C8-N9	-6.69	110.46	113.80
85	5	1165	A	C5-N7-C8	6.69	107.25	103.90
1	2	149	C	C6-N1-C2	-6.69	117.62	120.30
1	2	804	U	C5-C6-N1	6.69	126.04	122.70
36	1	425	G	C4-C5-N7	6.69	113.47	110.80
36	1	709	A	C6-N1-C2	-6.69	114.59	118.60
36	1	1362	G	N3-C2-N2	6.69	124.58	119.90
36	1	1452	A	C4-C5-C6	-6.69	113.66	117.00
36	1	1520	G	C4-C5-N7	-6.69	108.12	110.80
36	1	1627	U	C5-C4-O4	6.69	129.91	125.90
36	1	1897	G	O5'-P-OP2	-6.69	99.68	105.70
36	1	2803	A	OP1-P-OP2	-6.69	109.57	119.60
36	1	3114	A	C2-N3-C4	6.69	113.94	110.60
36	1	3129	A	C6-C5-N7	-6.69	127.62	132.30
51	M5	38	ARG	NE-CZ-NH1	6.69	123.64	120.30
80	6	299	A	O5'-P-OP1	6.69	118.72	110.70
80	6	1102	G	N7-C8-N9	-6.69	109.76	113.10
85	5	1444	G	N3-C4-C5	6.69	131.94	128.60
85	5	1460	A	N9-C4-C5	-6.69	103.12	105.80
85	5	1598	G	C6-N1-C2	-6.69	121.09	125.10
85	5	1713	G	C5-C6-N1	6.69	114.84	111.50
37	7	84	A	C5-N7-C8	-6.69	100.56	103.90
1	2	1411	G	N3-C4-C5	6.69	131.94	128.60
36	1	526	C	N1-C2-N3	6.69	123.88	119.20
36	1	760	G	N1-C6-O6	6.69	123.91	119.90
36	1	932	U	N3-C4-C5	6.69	118.61	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1474	A	C5-C6-N1	-6.69	114.36	117.70
36	1	2575	G	C8-N9-C4	-6.69	103.73	106.40
36	1	2803	A	N1-C6-N6	-6.69	114.59	118.60
80	6	420	A	C4-N9-C1'	6.69	138.34	126.30
80	6	1065	A	C2-N3-C4	-6.69	107.26	110.60
36	1	75	G	N9-C4-C5	-6.68	102.73	105.40
36	1	907	G	C5-N7-C8	6.68	107.64	104.30
36	1	1532	C	N3-C4-C5	6.68	124.57	121.90
36	1	2131	A	OP1-P-OP2	-6.68	109.57	119.60
36	1	2590	A	C8-N9-C4	-6.68	103.13	105.80
36	1	2880	U	C2-N3-C4	-6.68	122.99	127.00
36	1	3034	C	C4-C5-C6	-6.68	114.06	117.40
38	4	52	A	C5-C6-N6	6.68	129.05	123.70
85	5	2893	C	OP1-P-OP2	6.68	129.63	119.60
79	q3	11	THR	C-N-CA	-6.68	108.26	122.30
1	2	498	G	C5-C6-O6	6.68	132.61	128.60
36	1	818	C	C4-C5-C6	6.68	120.74	117.40
36	1	910	G	N9-C4-C5	6.68	108.07	105.40
36	1	1008	U	C6-N1-C2	6.68	125.01	121.00
36	1	1115	G	C4-C5-N7	6.68	113.47	110.80
36	1	1169	A	O5'-P-OP2	-6.68	99.69	105.70
36	1	1728	G	OP2-P-O3'	6.68	119.90	105.20
36	1	2249	G	N3-C4-C5	-6.68	125.26	128.60
80	6	312	A	C2-N3-C4	6.68	113.94	110.60
85	5	244	G	C4-C5-N7	6.68	113.47	110.80
85	5	1657	C	O5'-P-OP1	-6.68	99.69	105.70
85	5	2133	U	C4-C5-C6	-6.68	115.69	119.70
39	l2	51	ASP	CB-CG-OD2	6.68	124.31	118.30
1	2	195	G	C5-N7-C8	6.68	107.64	104.30
1	2	404	G	O5'-P-OP2	-6.68	99.69	105.70
36	1	156	G	N7-C8-N9	6.68	116.44	113.10
36	1	659	G	OP2-P-O3'	6.68	119.90	105.20
36	1	2675	C	N3-C2-O2	-6.68	117.22	121.90
85	5	1197	A	N1-C6-N6	-6.68	114.59	118.60
85	5	2605	G	C4-C5-N7	6.68	113.47	110.80
85	5	2937	G	N1-C6-O6	6.68	123.91	119.90
85	5	3332	U	N3-C4-O4	6.68	124.08	119.40
1	2	1152	G	N9-C4-C5	6.68	108.07	105.40
1	2	1497	U	N3-C2-O2	-6.68	117.52	122.20
36	1	593	C	N3-C2-O2	6.68	126.58	121.90
36	1	659	G	N1-C2-N3	-6.68	119.89	123.90
36	1	1415	U	OP1-P-OP2	6.68	129.62	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3208	G	N9-C4-C5	6.68	108.07	105.40
38	4	155	A	C4-C5-C6	6.68	120.34	117.00
80	6	815	G	N7-C8-N9	6.68	116.44	113.10
80	6	1652	C	N1-C2-O2	-6.68	114.89	118.90
80	6	1657	U	C4-C5-C6	-6.68	115.69	119.70
80	6	1743	U	N3-C4-C5	-6.68	110.59	114.60
85	5	971	G	N1-C6-O6	6.68	123.91	119.90
85	5	1169	A	N1-C2-N3	6.68	132.64	129.30
85	5	1842	A	OP2-P-O3'	6.68	119.90	105.20
85	5	2818	U	O5'-P-OP1	-6.68	99.69	105.70
85	5	3017	A	OP2-P-O3'	6.68	119.90	105.20
85	5	3043	C	C4-C5-C6	-6.68	114.06	117.40
85	5	3092	C	C4-C5-C6	-6.68	114.06	117.40
85	5	3201	C	C6-N1-C2	-6.68	117.63	120.30
1	2	307	G	C8-N9-C4	6.68	109.07	106.40
36	1	88	A	C5-N7-C8	6.68	107.24	103.90
36	1	119	U	OP1-P-OP2	-6.68	109.58	119.60
36	1	360	G	OP1-P-O3'	6.68	119.89	105.20
36	1	579	G	O5'-P-OP1	6.68	118.71	110.70
36	1	2373	A	N9-C4-C5	6.68	108.47	105.80
36	1	2888	U	N3-C4-O4	-6.68	114.72	119.40
36	1	3004	C	C2-N3-C4	6.68	123.24	119.90
80	6	346	G	N1-C6-O6	6.68	123.91	119.90
85	5	141	C	O5'-P-OP1	-6.68	99.69	105.70
85	5	2193	U	N1-C2-O2	-6.68	118.13	122.80
85	5	2380	U	C2-N3-C4	-6.68	122.99	127.00
1	2	651	G	C5-C6-O6	6.68	132.61	128.60
1	2	1362	C	C2-N3-C4	6.68	123.24	119.90
1	2	1616	A	N1-C6-N6	-6.68	114.59	118.60
36	1	2398	A	C2-N3-C4	6.68	113.94	110.60
53	M7	135	ARG	NE-CZ-NH2	-6.68	116.96	120.30
80	6	1102	G	C4-C5-N7	-6.68	108.13	110.80
80	6	1610	G	N1-C2-N3	6.68	127.91	123.90
85	5	57	A	C2-N3-C4	-6.68	107.26	110.60
85	5	255	A	C5-C6-N6	-6.68	118.36	123.70
85	5	337	G	C4-C5-N7	6.68	113.47	110.80
85	5	800	G	OP1-P-OP2	6.68	129.62	119.60
85	5	836	A	C8-N9-C4	6.68	108.47	105.80
85	5	1417	G	N9-C4-C5	-6.68	102.73	105.40
85	5	2630	C	C6-N1-C2	-6.68	117.63	120.30
85	5	2900	A	C4-C5-N7	-6.68	107.36	110.70
85	5	3235	C	N3-C4-C5	6.68	124.57	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1193	C	C4-C5-C6	-6.67	114.06	117.40
1	2	1283	A	C5-N7-C8	6.67	107.24	103.90
36	1	380	U	N3-C4-C5	-6.67	110.60	114.60
36	1	647	A	C5-C6-N1	-6.67	114.36	117.70
36	1	771	A	C8-N9-C4	-6.67	103.13	105.80
36	1	1023	C	C5-C6-N1	6.67	124.34	121.00
36	1	1113	G	C4-N9-C1'	6.67	135.18	126.50
36	1	2305	G	C6-N1-C2	-6.67	121.09	125.10
38	4	80	A	C2-N3-C4	-6.67	107.26	110.60
80	6	795	U	N1-C2-O2	6.67	127.47	122.80
80	6	1035	G	C6-C5-N7	6.67	134.40	130.40
85	5	440	A	N9-C4-C5	-6.67	103.13	105.80
85	5	506	U	C5-C4-O4	6.67	129.90	125.90
85	5	588	G	C6-N1-C2	-6.67	121.10	125.10
85	5	632	G	N1-C6-O6	-6.67	115.90	119.90
85	5	968	G	C6-N1-C2	-6.67	121.09	125.10
85	5	1425	U	C6-N1-C2	-6.67	117.00	121.00
85	5	2346	C	C2-N3-C4	6.67	123.24	119.90
85	5	3026	G	C5-N7-C8	-6.67	100.96	104.30
85	5	3179	U	C2-N1-C1'	6.67	125.71	117.70
85	5	3316	A	N1-C2-N3	6.67	132.64	129.30
37	7	87	G	N9-C4-C5	-6.67	102.73	105.40
38	8	98	U	N1-C2-N3	-6.67	110.89	114.90
1	2	1302	A	C4-C5-N7	6.67	114.04	110.70
36	1	785	G	N1-C2-N3	-6.67	119.90	123.90
36	1	1103	A	N7-C8-N9	-6.67	110.46	113.80
36	1	1935	G	OP2-P-O3'	6.67	119.88	105.20
36	1	2704	A	C6-N1-C2	-6.67	114.60	118.60
36	1	2760	C	N1-C2-N3	-6.67	114.53	119.20
36	1	2770	G	C5-C6-O6	6.67	132.60	128.60
80	6	109	G	C8-N9-C4	6.67	109.07	106.40
80	6	709	C	N1-C2-N3	-6.67	114.53	119.20
85	5	65	A	C8-N9-C4	6.67	108.47	105.80
85	5	1597	C	C5-C6-N1	6.67	124.34	121.00
85	5	2148	U	OP1-P-OP2	-6.67	109.59	119.60
56	n0	12	ARG	NE-CZ-NH1	-6.67	116.96	120.30
1	2	553	G	C4-C5-C6	6.67	122.80	118.80
1	2	613	G	C6-N1-C2	-6.67	121.10	125.10
36	1	1167	U	N1-C2-N3	6.67	118.90	114.90
36	1	2394	G	OP2-P-O3'	6.67	119.88	105.20
36	1	3022	G	C6-N1-C2	-6.67	121.10	125.10
36	1	3094	A	C5-C6-N1	6.67	121.03	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3180	A	O5'-P-OP1	-6.67	99.70	105.70
36	1	3264	G	C2-N3-C4	-6.67	108.56	111.90
80	6	54	C	OP1-P-OP2	-6.67	109.59	119.60
80	6	293	U	C6-N1-C2	6.67	125.00	121.00
80	6	871	G	N3-C2-N2	-6.67	115.23	119.90
80	6	1567	U	C2-N3-C4	-6.67	123.00	127.00
80	6	1747	G	OP1-P-O3'	6.67	119.88	105.20
85	5	913	A	C5-C6-N6	-6.67	118.36	123.70
85	5	1291	A	N1-C6-N6	6.67	122.60	118.60
85	5	2696	A	C5-N7-C8	-6.67	100.56	103.90
85	5	3197	G	N1-C2-N3	6.67	127.90	123.90
37	7	11	A	C6-N1-C2	-6.67	114.60	118.60
38	8	153	U	N3-C4-O4	6.67	124.07	119.40
36	1	109	A	C2-N3-C4	6.67	113.94	110.60
36	1	808	A	O5'-P-OP1	6.67	118.70	110.70
80	6	1264	G	N3-C4-C5	6.67	131.94	128.60
85	5	606	C	N1-C2-O2	-6.67	114.90	118.90
85	5	1083	G	C5-N7-C8	6.67	107.64	104.30
85	5	1857	C	N3-C2-O2	-6.67	117.23	121.90
85	5	1865	A	C8-N9-C4	6.67	108.47	105.80
85	5	2862	U	C4-C5-C6	6.67	123.70	119.70
85	5	3305	A	OP1-P-O3'	6.67	119.87	105.20
38	8	142	C	C5-C6-N1	-6.67	117.67	121.00
1	2	326	G	C2-N3-C4	6.67	115.23	111.90
1	2	348	U	C5-C6-N1	-6.67	119.37	122.70
36	1	91	G	C8-N9-C4	-6.67	103.73	106.40
36	1	208	C	OP1-P-O3'	6.67	119.87	105.20
36	1	267	G	O4'-C1'-N9	-6.67	102.86	108.20
36	1	292	U	N3-C2-O2	6.67	126.87	122.20
36	1	2150	G	C4-C5-C6	6.67	122.80	118.80
36	1	2872	A	C4-C5-N7	6.67	114.03	110.70
51	M5	113	LEU	CB-CG-CD1	-6.67	99.66	111.00
80	6	31	C	N1-C2-N3	6.67	123.87	119.20
80	6	361	C	C6-N1-C2	-6.67	117.63	120.30
80	6	1526	A	N9-C4-C5	6.67	108.47	105.80
80	6	1755	A	C6-C5-N7	-6.67	127.63	132.30
85	5	68	C	C4-C5-C6	-6.67	114.06	117.40
85	5	225	C	O5'-P-OP2	6.67	118.70	110.70
85	5	1652	G	OP1-P-OP2	-6.67	109.60	119.60
85	5	2730	G	C5-N7-C8	-6.67	100.97	104.30
85	5	2808	A	C6-N1-C2	-6.67	114.60	118.60
85	5	3156	U	N3-C4-O4	-6.67	114.73	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3325	G	N1-C2-N3	6.67	127.90	123.90
37	7	65	G	N1-C6-O6	6.67	123.90	119.90
1	2	1258	A	O5'-P-OP2	-6.67	99.70	105.70
1	2	1653	G	C4-C5-C6	6.67	122.80	118.80
36	1	276	U	C6-N1-C2	6.67	125.00	121.00
36	1	1793	C	C6-N1-C2	-6.67	117.63	120.30
36	1	2658	G	O5'-P-OP1	6.67	118.70	110.70
36	1	2733	A	OP1-P-OP2	-6.67	109.60	119.60
36	1	2918	G	N1-C2-N3	6.67	127.90	123.90
80	6	958	U	C6-N1-C2	-6.67	117.00	121.00
80	6	1585	U	C2-N3-C4	-6.67	123.00	127.00
80	6	1733	C	N1-C2-O2	6.67	122.90	118.90
85	5	120	G	C8-N9-C4	6.67	109.07	106.40
85	5	137	G	C6-N1-C2	6.67	129.10	125.10
36	1	143	G	N1-C2-N2	-6.67	110.20	116.20
36	1	1172	G	C4-C5-N7	6.67	113.47	110.80
36	1	1778	G	N7-C8-N9	-6.67	109.77	113.10
36	1	1800	A	C8-N9-C4	6.67	108.47	105.80
36	1	2577	C	C5-C6-N1	-6.67	117.67	121.00
36	1	2794	G	N1-C2-N2	-6.67	110.20	116.20
36	1	3307	A	C5-N7-C8	-6.67	100.57	103.90
85	5	61	A	O5'-P-OP1	-6.67	99.70	105.70
85	5	899	U	N1-C2-O2	-6.67	118.13	122.80
85	5	1832	C	OP1-P-OP2	6.67	129.60	119.60
85	5	1840	U	N3-C2-O2	-6.67	117.53	122.20
85	5	2308	C	OP2-P-O3'	6.67	119.86	105.20
85	5	2897	A	C6-N1-C2	-6.67	114.60	118.60
85	5	3045	G	N9-C4-C5	6.67	108.07	105.40
36	1	593	C	OP1-P-OP2	6.66	129.59	119.60
36	1	647	A	C4-C5-N7	-6.66	107.37	110.70
36	1	708	G	O5'-P-OP2	6.66	118.70	110.70
36	1	923	C	C4-C5-C6	-6.66	114.07	117.40
36	1	1101	G	N9-C4-C5	6.66	108.07	105.40
36	1	1216	C	N3-C2-O2	-6.66	117.23	121.90
36	1	1340	G	C5-C6-N1	6.66	114.83	111.50
36	1	1700	G	C5-C6-O6	6.66	132.60	128.60
36	1	2645	G	C4-C5-C6	6.66	122.80	118.80
36	1	2812	C	C5-C4-N4	-6.66	115.54	120.20
36	1	2983	C	N1-C2-O2	6.66	122.90	118.90
36	1	3058	U	N1-C2-N3	6.66	118.90	114.90
36	1	3286	G	N1-C2-N3	-6.66	119.90	123.90
36	1	3343	G	C2-N3-C4	-6.66	108.57	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1260	A	C8-N9-C4	-6.66	103.14	105.80
85	5	1352	A	N1-C6-N6	6.66	122.60	118.60
85	5	1400	G	C2-N3-C4	-6.66	108.57	111.90
85	5	1734	G	C5-C6-N1	-6.66	108.17	111.50
85	5	2175	U	C6-N1-C2	-6.66	117.00	121.00
85	5	2347	U	C4-C5-C6	6.66	123.70	119.70
85	5	2903	A	C2-N3-C4	-6.66	107.27	110.60
51	m5	41	ARG	NE-CZ-NH1	6.66	123.63	120.30
36	1	988	U	N3-C2-O2	6.66	126.86	122.20
36	1	1384	U	C5-C4-O4	6.66	129.90	125.90
36	1	1424	C	N3-C4-C5	6.66	124.56	121.90
36	1	2257	C	O4'-C1'-N1	6.66	113.53	108.20
1	2	49	C	O5'-P-OP1	-6.66	99.71	105.70
1	2	56	U	O5'-P-OP2	-6.66	99.70	105.70
1	2	193	U	C5-C6-N1	-6.66	119.37	122.70
1	2	1445	G	C4-C5-N7	6.66	113.46	110.80
36	1	386	A	C5-C6-N6	-6.66	118.37	123.70
36	1	2375	G	C8-N9-C4	6.66	109.06	106.40
36	1	2862	U	C6-N1-C2	6.66	125.00	121.00
36	1	3310	A	C4-C5-C6	6.66	120.33	117.00
80	6	376	C	O5'-P-OP1	-6.66	99.70	105.70
80	6	930	A	N1-C2-N3	6.66	132.63	129.30
80	6	1607	G	C4-C5-N7	-6.66	108.14	110.80
85	5	776	U	C2-N1-C1'	-6.66	109.71	117.70
85	5	1665	C	OP1-P-OP2	-6.66	109.61	119.60
85	5	1807	G	N1-C6-O6	6.66	123.90	119.90
1	2	734	G	C5-C6-O6	-6.66	124.61	128.60
36	1	815	G	N1-C2-N3	6.66	127.89	123.90
36	1	1655	G	N1-C2-N2	-6.66	110.21	116.20
36	1	2126	A	O5'-P-OP2	-6.66	99.71	105.70
36	1	2366	C	C5-C6-N1	-6.66	117.67	121.00
36	1	2661	G	C6-C5-N7	-6.66	126.41	130.40
36	1	2689	A	C4-C5-N7	-6.66	107.37	110.70
36	1	2887	A	N1-C2-N3	-6.66	125.97	129.30
36	1	3263	G	O5'-P-OP2	-6.66	99.71	105.70
80	6	573	C	N3-C4-C5	6.66	124.56	121.90
80	6	1140	G	N1-C2-N3	6.66	127.89	123.90
80	6	1591	C	N1-C2-O2	-6.66	114.91	118.90
85	5	55	G	N3-C4-N9	-6.66	122.00	126.00
85	5	1094	U	C2-N3-C4	6.66	131.00	127.00
85	5	1144	U	O5'-P-OP2	-6.66	99.71	105.70
85	5	2702	A	C6-C5-N7	-6.66	127.64	132.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2724	U	C5-C4-O4	6.66	129.90	125.90
1	2	545	A	C6-N1-C2	-6.66	114.61	118.60
1	2	1006	A	C5-C6-N1	-6.66	114.37	117.70
36	1	317	A	N1-C2-N3	6.66	132.63	129.30
36	1	859	G	C5-N7-C8	-6.66	100.97	104.30
36	1	2107	A	N1-C2-N3	6.66	132.63	129.30
36	1	3297	U	O5'-P-OP2	-6.66	99.71	105.70
78	Q2	41	ARG	NE-CZ-NH2	-6.66	116.97	120.30
80	6	160	C	N3-C4-N4	-6.66	113.34	118.00
80	6	241	U	N3-C4-O4	6.66	124.06	119.40
80	6	1013	A	C5-C6-N1	6.66	121.03	117.70
85	5	1809	A	C5-C6-N1	-6.66	114.37	117.70
85	5	2326	A	N1-C6-N6	-6.66	114.61	118.60
85	5	2599	U	C5-C6-N1	-6.66	119.37	122.70
85	5	3119	U	C5-C6-N1	-6.66	119.37	122.70
1	2	1086	U	N3-C4-C5	6.66	118.59	114.60
1	2	1095	G	C8-N9-C4	-6.66	103.74	106.40
36	1	1207	G	N3-C4-C5	6.66	131.93	128.60
36	1	1426	C	C6-N1-C1'	-6.66	112.81	120.80
80	6	1304	G	C6-N1-C2	-6.66	121.11	125.10
85	5	396	A	N1-C6-N6	-6.66	114.61	118.60
85	5	562	C	N3-C4-N4	6.66	122.66	118.00
85	5	2211	U	C4-C5-C6	6.66	123.69	119.70
85	5	2791	G	OP1-P-OP2	6.66	129.58	119.60
85	5	2958	A	OP1-P-OP2	-6.66	109.62	119.60
85	5	2997	G	C8-N9-C4	6.66	109.06	106.40
38	8	45	C	N3-C4-C5	-6.66	119.24	121.90
36	1	214	G	OP1-P-O3'	6.65	119.84	105.20
36	1	423	A	C8-N9-C4	-6.65	103.14	105.80
36	1	3331	U	C5-C4-O4	-6.65	121.91	125.90
85	5	846	A	C5-N7-C8	-6.65	100.57	103.90
85	5	1238	C	C4-C5-C6	-6.65	114.07	117.40
1	2	10	G	N3-C4-C5	-6.65	125.27	128.60
1	2	1424	C	C6-N1-C2	6.65	122.96	120.30
1	2	1652	U	N1-C2-O2	-6.65	118.14	122.80
36	1	1367	G	OP2-P-O3'	6.65	119.84	105.20
36	1	2663	G	N3-C2-N2	-6.65	115.24	119.90
36	1	2744	U	N1-C2-N3	6.65	118.89	114.90
36	1	2770	G	N1-C2-N3	6.65	127.89	123.90
38	4	63	G	C4-C5-C6	-6.65	114.81	118.80
80	6	295	A	C5-C6-N1	6.65	121.03	117.70
85	5	280	U	OP1-P-O3'	6.65	119.83	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	423	A	OP2-P-O3'	6.65	119.83	105.20
85	5	699	A	C2-N3-C4	-6.65	107.27	110.60
85	5	2361	A	N9-C4-C5	6.65	108.46	105.80
85	5	3213	A	N1-C2-N3	6.65	132.63	129.30
37	7	103	A	C4-C5-N7	6.65	114.03	110.70
1	2	975	A	OP1-P-OP2	-6.65	109.62	119.60
36	1	415	G	C5-N7-C8	-6.65	100.97	104.30
36	1	861	C	N3-C4-N4	6.65	122.66	118.00
36	1	927	C	C5-C4-N4	-6.65	115.55	120.20
36	1	3050	U	C5-C4-O4	6.65	129.89	125.90
36	1	3107	U	N1-C2-O2	6.65	127.45	122.80
38	4	135	G	N1-C2-N3	6.65	127.89	123.90
80	6	461	G	N9-C4-C5	-6.65	102.74	105.40
80	6	545	A	C4-C5-N7	-6.65	107.38	110.70
85	5	425	G	C5-N7-C8	-6.65	100.97	104.30
85	5	585	A	O5'-P-OP1	-6.65	99.72	105.70
85	5	1149	G	N3-C4-N9	-6.65	122.01	126.00
85	5	1718	G	C5-C6-O6	-6.65	124.61	128.60
85	5	2505	U	N3-C2-O2	-6.65	117.54	122.20
85	5	2616	C	O4'-C1'-N1	-6.65	102.88	108.20
85	5	2724	U	C5-C6-N1	6.65	126.03	122.70
85	5	2794	G	N3-C4-N9	6.65	129.99	126.00
1	2	969	G	C4-C5-N7	-6.65	108.14	110.80
1	2	1481	G	N3-C4-N9	6.65	129.99	126.00
36	1	1884	A	N9-C4-C5	6.65	108.46	105.80
36	1	1940	G	C5-C6-O6	6.65	132.59	128.60
36	1	2632	G	N7-C8-N9	-6.65	109.78	113.10
36	1	2812	C	N3-C4-C5	6.65	124.56	121.90
38	4	35	C	C6-N1-C2	-6.65	117.64	120.30
80	6	590	C	N1-C2-N3	6.65	123.85	119.20
80	6	1575	G	C2-N3-C4	6.65	115.22	111.90
85	5	427	C	OP1-P-O3'	-6.65	90.57	105.20
85	5	2931	C	N3-C4-N4	6.65	122.65	118.00
1	2	20	G	N3-C4-C5	6.65	131.92	128.60
1	2	34	G	O5'-P-OP2	-6.65	99.72	105.70
1	2	280	U	N3-C2-O2	6.65	126.85	122.20
1	2	1125	A	C8-N9-C4	-6.65	103.14	105.80
36	1	249	U	N3-C4-O4	-6.65	114.75	119.40
36	1	1059	G	C2-N3-C4	-6.65	108.58	111.90
36	1	1146	C	OP1-P-O3'	6.65	119.83	105.20
36	1	1397	C	N3-C2-O2	6.65	126.55	121.90
36	1	1594	A	OP1-P-O3'	6.65	119.83	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2162	U	O5'-P-OP2	-6.65	99.72	105.70
36	1	3202	G	C6-C5-N7	-6.65	126.41	130.40
36	1	3246	G	C5-C6-N1	-6.65	108.18	111.50
80	6	241	U	C5-C6-N1	6.65	126.02	122.70
80	6	346	G	N7-C8-N9	6.65	116.42	113.10
85	5	213	A	OP1-P-OP2	-6.65	109.63	119.60
85	5	407	A	C4-N9-C1'	6.65	138.26	126.30
85	5	419	G	C4-C5-N7	-6.65	108.14	110.80
85	5	1337	A	N1-C6-N6	6.65	122.59	118.60
85	5	2191	U	N3-C2-O2	-6.65	117.55	122.20
85	5	3300	U	N3-C4-C5	-6.65	110.61	114.60
42	15	107	ARG	NE-CZ-NH2	-6.65	116.98	120.30
36	1	2732	G	C6-N1-C2	-6.65	121.11	125.10
36	1	3006	A	C5-N7-C8	-6.65	100.58	103.90
36	1	3128	G	N7-C8-N9	6.65	116.42	113.10
36	1	3379	C	OP1-P-OP2	-6.65	109.63	119.60
36	1	3387	U	C2-N3-C4	-6.65	123.01	127.00
85	5	244	G	C5-C6-N1	6.65	114.82	111.50
85	5	2821	C	C6-N1-C2	-6.65	117.64	120.30
85	5	3024	A	N7-C8-N9	6.65	117.12	113.80
1	2	405	C	N3-C4-C5	6.64	124.56	121.90
36	1	761	A	C5-N7-C8	-6.64	100.58	103.90
36	1	1388	U	OP1-P-OP2	6.64	129.57	119.60
36	1	1547	G	O5'-P-OP1	-6.64	99.72	105.70
36	1	1888	U	N3-C4-C5	6.64	118.59	114.60
80	6	1323	C	N1-C2-O2	6.64	122.89	118.90
80	6	1534	G	N3-C4-C5	-6.64	125.28	128.60
85	5	26	A	C4-C5-C6	6.64	120.32	117.00
85	5	197	G	C4-C5-N7	6.64	113.46	110.80
85	5	294	U	C2-N1-C1'	-6.64	109.73	117.70
85	5	883	A	N1-C2-N3	6.64	132.62	129.30
85	5	997	A	N7-C8-N9	6.64	117.12	113.80
85	5	1312	C	C2-N3-C4	6.64	123.22	119.90
85	5	1776	G	N3-C4-C5	6.64	131.92	128.60
85	5	1853	U	C4-C5-C6	6.64	123.69	119.70
85	5	1894	U	OP1-P-OP2	-6.64	109.63	119.60
85	5	2407	C	C6-N1-C2	6.64	122.96	120.30
85	5	2646	C	N3-C4-N4	-6.64	113.35	118.00
85	5	3225	C	C2-N3-C4	6.64	123.22	119.90
1	2	1425	U	C6-N1-C2	6.64	124.98	121.00
36	1	1408	G	C6-N1-C2	-6.64	121.11	125.10
36	1	1527	C	OP1-P-OP2	6.64	129.56	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1574	C	C5-C6-N1	6.64	124.32	121.00
36	1	2229	A	C4-C5-C6	-6.64	113.68	117.00
36	1	2423	U	N3-C4-C5	-6.64	110.61	114.60
36	1	2642	A	C8-N9-C4	6.64	108.46	105.80
36	1	2737	C	N3-C4-N4	6.64	122.65	118.00
36	1	2910	A	N7-C8-N9	-6.64	110.48	113.80
80	6	1234	A	N7-C8-N9	6.64	117.12	113.80
80	6	1364	G	C5-C6-O6	-6.64	124.61	128.60
80	6	1384	A	N1-C6-N6	6.64	122.58	118.60
85	5	378	A	C5-N7-C8	6.64	107.22	103.90
85	5	725	G	O4'-C1'-N9	-6.64	102.89	108.20
85	5	1582	C	OP1-P-O3'	-6.64	90.59	105.20
85	5	1873	U	OP1-P-OP2	-6.64	109.64	119.60
37	7	75	G	N3-C4-N9	-6.64	122.01	126.00
36	1	189	G	C5-N7-C8	-6.64	100.98	104.30
36	1	221	A	O4'-C1'-N9	6.64	113.51	108.20
36	1	1746	U	N1-C2-N3	6.64	118.89	114.90
36	1	2691	A	OP1-P-OP2	-6.64	109.64	119.60
36	1	2870	C	N3-C4-N4	6.64	122.65	118.00
80	6	1525	A	C5-C6-N1	-6.64	114.38	117.70
85	5	2760	C	C2-N3-C4	-6.64	116.58	119.90
1	2	423	G	N7-C8-N9	6.64	116.42	113.10
36	1	114	A	N1-C6-N6	6.64	122.58	118.60
36	1	827	A	C5-C6-N1	-6.64	114.38	117.70
36	1	863	C	C4-C5-C6	-6.64	114.08	117.40
36	1	906	A	C5-N7-C8	6.64	107.22	103.90
36	1	1097	G	C2-N3-C4	6.64	115.22	111.90
36	1	1488	G	C5-C6-N1	-6.64	108.18	111.50
36	1	2994	A	N1-C2-N3	6.64	132.62	129.30
80	6	103	A	N3-C4-C5	-6.64	122.15	126.80
80	6	1063	U	C5-C4-O4	-6.64	121.92	125.90
85	5	722	G	C8-N9-C4	6.64	109.06	106.40
85	5	1222	G	C4-C5-N7	6.64	113.46	110.80
85	5	1389	G	C2-N3-C4	-6.64	108.58	111.90
85	5	1700	G	C6-N1-C2	-6.64	121.12	125.10
85	5	1755	C	N3-C2-O2	6.64	126.55	121.90
85	5	1792	C	OP1-P-OP2	6.64	129.56	119.60
85	5	1897	G	O5'-P-OP1	-6.64	99.72	105.70
85	5	2590	A	N7-C8-N9	6.64	117.12	113.80
85	5	3071	U	N1-C2-N3	6.64	118.88	114.90
85	5	3353	G	O5'-P-OP2	6.64	118.67	110.70
85	5	3365	U	N3-C4-O4	6.64	124.05	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	15	G	OP1-P-O3'	6.64	119.81	105.20
38	8	96	A	O5'-P-OP2	-6.64	99.72	105.70
38	8	129	C	N1-C2-O2	-6.64	114.92	118.90
1	2	30	G	C4-C5-N7	6.64	113.45	110.80
1	2	281	G	N3-C4-C5	-6.64	125.28	128.60
1	2	561	G	N1-C2-N3	6.64	127.88	123.90
36	1	881	C	C6-N1-C2	6.64	122.95	120.30
80	6	1377	U	C5-C4-O4	-6.64	121.92	125.90
80	6	1746	A	C2-N3-C4	-6.64	107.28	110.60
85	5	1948	G	C4-C5-N7	6.64	113.45	110.80
85	5	2612	U	O5'-P-OP1	-6.64	99.73	105.70
85	5	2825	C	N1-C2-N3	-6.64	114.55	119.20
36	1	3049	A	N9-C4-C5	-6.64	103.15	105.80
36	1	3315	G	C4-C5-N7	-6.64	108.14	110.80
36	1	3378	C	N3-C4-N4	6.64	122.65	118.00
38	4	36	G	N1-C6-O6	6.64	123.88	119.90
85	5	702	C	N3-C4-N4	6.64	122.65	118.00
85	5	807	A	C5-C6-N1	6.64	121.02	117.70
85	5	1590	G	C6-C5-N7	-6.64	126.42	130.40
85	5	3069	G	C6-N1-C2	-6.64	121.12	125.10
38	8	116	G	C5-C6-O6	-6.64	124.62	128.60
1	2	402	C	C6-N1-C2	-6.63	117.65	120.30
1	2	1101	G	C6-C5-N7	-6.63	126.42	130.40
1	2	1750	G	N1-C6-O6	-6.63	115.92	119.90
36	1	92	G	C6-N1-C2	-6.63	121.12	125.10
36	1	2697	A	N3-C4-C5	-6.63	122.16	126.80
52	M6	128	ARG	NE-CZ-NH2	6.63	123.62	120.30
80	6	12	U	N1-C2-N3	6.63	118.88	114.90
85	5	279	U	N1-C2-O2	-6.63	118.16	122.80
85	5	613	G	N1-C2-N2	6.63	122.17	116.20
85	5	628	A	C5-N7-C8	6.63	107.22	103.90
85	5	1655	G	C5-N7-C8	6.63	107.62	104.30
36	1	683	U	C4-C5-C6	6.63	123.68	119.70
36	1	919	U	N1-C2-N3	6.63	118.88	114.90
36	1	2753	G	C5-C6-N1	6.63	114.82	111.50
80	6	1649	G	O5'-P-OP1	6.63	118.66	110.70
85	5	1127	G	N3-C4-C5	-6.63	125.28	128.60
1	2	48	G	OP1-P-OP2	6.63	129.55	119.60
1	2	1338	C	N3-C2-O2	-6.63	117.26	121.90
36	1	210	U	OP1-P-OP2	6.63	129.55	119.60
36	1	1050	U	N1-C2-O2	6.63	127.44	122.80
36	1	1444	G	O5'-P-OP1	-6.63	99.73	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1477	A	C5-N7-C8	-6.63	100.58	103.90
36	1	2726	C	C4-C5-C6	6.63	120.72	117.40
36	1	2957	G	C2-N3-C4	-6.63	108.58	111.90
80	6	972	G	N7-C8-N9	6.63	116.42	113.10
80	6	1016	C	C6-N1-C2	-6.63	117.65	120.30
80	6	1750	A	C5-C6-N1	6.63	121.02	117.70
85	5	493	G	N1-C6-O6	6.63	123.88	119.90
85	5	713	U	C5-C4-O4	-6.63	121.92	125.90
85	5	815	G	C6-N1-C2	-6.63	121.12	125.10
85	5	1312	C	C4-C5-C6	6.63	120.72	117.40
85	5	1725	C	C4-C5-C6	6.63	120.72	117.40
85	5	1780	G	C5-N7-C8	-6.63	100.98	104.30
85	5	1780	G	N1-C2-N3	6.63	127.88	123.90
85	5	1845	G	C5-N7-C8	6.63	107.62	104.30
85	5	2604	U	N1-C2-O2	-6.63	118.16	122.80
85	5	2893	C	C4-C5-C6	-6.63	114.08	117.40
85	5	3198	U	OP1-P-OP2	6.63	129.55	119.60
1	2	858	G	C8-N9-C4	-6.63	103.75	106.40
36	1	658	G	C5-C6-N1	-6.63	108.19	111.50
1	2	101	U	C5-C6-N1	6.63	126.01	122.70
1	2	1752	U	N1-C2-N3	6.63	118.88	114.90
36	1	226	C	N3-C2-O2	6.63	126.54	121.90
36	1	396	A	C6-N1-C2	-6.63	114.62	118.60
36	1	594	U	N3-C4-O4	6.63	124.04	119.40
36	1	941	G	N7-C8-N9	6.63	116.41	113.10
36	1	1396	C	OP2-P-O3'	6.63	119.78	105.20
36	1	1643	A	N3-C4-C5	-6.63	122.16	126.80
36	1	1676	A	C5-N7-C8	-6.63	100.59	103.90
36	1	1698	C	N3-C2-O2	-6.63	117.26	121.90
36	1	1761	C	O4'-C1'-N1	6.63	113.50	108.20
36	1	2674	A	C6-N1-C2	-6.63	114.62	118.60
36	1	2828	G	OP1-P-O3'	-6.63	90.62	105.20
36	1	2837	A	O5'-P-OP2	-6.63	99.73	105.70
37	3	80	G	N1-C6-O6	-6.63	115.92	119.90
80	6	1178	G	OP1-P-O3'	6.63	119.78	105.20
85	5	380	U	OP2-P-O3'	6.63	119.78	105.20
85	5	1204	A	C4-C5-C6	6.63	120.31	117.00
85	5	1476	G	C5-C6-N1	-6.63	108.19	111.50
85	5	2240	G	OP1-P-O3'	6.63	119.78	105.20
85	5	2361	A	OP1-P-OP2	-6.63	109.66	119.60
85	5	2726	C	O5'-P-OP2	-6.63	99.73	105.70
38	8	114	G	N9-C4-C5	-6.63	102.75	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	8	U	C5-C4-O4	-6.63	121.92	125.90
1	2	273	G	C8-N9-C4	-6.63	103.75	106.40
1	2	956	A	C2-N3-C4	-6.63	107.29	110.60
1	2	1130	A	N7-C8-N9	6.63	117.11	113.80
1	2	1562	U	N3-C2-O2	-6.63	117.56	122.20
36	1	406	G	N1-C2-N2	-6.63	110.24	116.20
36	1	823	C	N3-C4-C5	-6.63	119.25	121.90
36	1	929	A	OP1-P-O3'	6.63	119.78	105.20
36	1	2290	C	O5'-P-OP1	6.63	118.65	110.70
37	3	96	U	OP1-P-OP2	-6.63	109.66	119.60
85	5	282	G	N3-C2-N2	6.63	124.54	119.90
85	5	364	G	N3-C4-C5	6.63	131.91	128.60
85	5	1172	G	N1-C6-O6	6.63	123.88	119.90
85	5	1828	A	N9-C4-C5	6.63	108.45	105.80
85	5	2954	U	N3-C2-O2	-6.63	117.56	122.20
49	m3	21	ARG	NE-CZ-NH1	-6.63	116.99	120.30
36	1	1631	C	C2-N3-C4	-6.62	116.59	119.90
36	1	1666	G	C4-C5-C6	6.62	122.78	118.80
36	1	3228	C	C5-C6-N1	-6.62	117.69	121.00
85	5	191	U	N3-C4-O4	-6.62	114.76	119.40
85	5	998	A	OP1-P-OP2	-6.62	109.66	119.60
41	14	98	ARG	NE-CZ-NH2	-6.62	116.99	120.30
36	1	88	A	C2-N3-C4	-6.62	107.29	110.60
36	1	1091	A	N1-C6-N6	-6.62	114.63	118.60
36	1	1164	G	N3-C4-C5	-6.62	125.29	128.60
36	1	1796	G	C5-N7-C8	-6.62	100.99	104.30
36	1	3102	G	OP1-P-OP2	-6.62	109.66	119.60
36	1	3243	A	N7-C8-N9	6.62	117.11	113.80
80	6	1385	G	C8-N9-C4	-6.62	103.75	106.40
80	6	1755	A	C5-N7-C8	-6.62	100.59	103.90
85	5	127	G	N1-C2-N2	6.62	122.16	116.20
85	5	1186	G	N7-C8-N9	6.62	116.41	113.10
85	5	1323	G	C5-C6-O6	6.62	132.57	128.60
85	5	1325	U	C2-N1-C1'	-6.62	109.75	117.70
85	5	1347	U	C2-N3-C4	6.62	130.97	127.00
85	5	1477	A	O5'-P-OP2	-6.62	99.74	105.70
85	5	2318	U	C5-C4-O4	6.62	129.87	125.90
85	5	3034	C	OP2-P-O3'	6.62	119.77	105.20
36	1	2421	U	OP1-P-OP2	6.62	129.53	119.60
36	1	2643	A	O4'-C1'-N9	-6.62	102.90	108.20
36	1	2916	U	C5-C4-O4	6.62	129.87	125.90
36	1	2992	U	OP1-P-O3'	-6.62	90.63	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	22	A	N3-C4-C5	-6.62	122.16	126.80
80	6	662	U	C5-C6-N1	6.62	126.01	122.70
80	6	979	A	C6-N1-C2	-6.62	114.63	118.60
80	6	1584	G	C2-N3-C4	-6.62	108.59	111.90
85	5	425	G	OP2-P-O3'	6.62	119.77	105.20
85	5	717	C	N3-C4-N4	-6.62	113.36	118.00
85	5	724	U	N1-C2-N3	6.62	118.87	114.90
85	5	935	U	O5'-P-OP2	-6.62	99.74	105.70
85	5	1005	G	C6-N1-C2	6.62	129.07	125.10
85	5	1170	A	OP2-P-O3'	6.62	119.77	105.20
85	5	1290	A	OP2-P-O3'	6.62	119.77	105.20
85	5	1890	U	O5'-P-OP1	6.62	118.65	110.70
85	5	2140	U	N1-C2-N3	6.62	118.87	114.90
85	5	2550	U	N3-C4-O4	-6.62	114.77	119.40
37	7	34	C	C6-N1-C2	6.62	122.95	120.30
37	7	95	A	C6-N1-C2	-6.62	114.63	118.60
36	1	617	G	N1-C2-N3	6.62	127.87	123.90
36	1	952	A	N9-C4-C5	6.62	108.45	105.80
36	1	1281	G	C8-N9-C4	-6.62	103.75	106.40
36	1	1816	A	N1-C6-N6	-6.62	114.63	118.60
36	1	1944	U	N1-C2-O2	-6.62	118.17	122.80
36	1	2430	A	N1-C6-N6	6.62	122.57	118.60
80	6	449	C	C5-C4-N4	6.62	124.83	120.20
80	6	1305	U	N1-C2-O2	6.62	127.43	122.80
80	6	1658	G	C4-C5-N7	6.62	113.45	110.80
80	6	1748	G	C4-C5-C6	6.62	122.77	118.80
85	5	206	G	N7-C8-N9	6.62	116.41	113.10
85	5	3064	U	C6-N1-C2	-6.62	117.03	121.00
85	5	3161	C	O5'-P-OP2	6.62	118.64	110.70
1	2	1636	C	N3-C4-N4	6.62	122.63	118.00
36	1	45	A	C5-C6-N6	6.62	128.99	123.70
36	1	846	A	N3-C4-C5	6.62	131.43	126.80
36	1	1358	C	C2-N1-C1'	-6.62	111.52	118.80
36	1	2277	C	N1-C2-O2	-6.62	114.93	118.90
36	1	2293	C	N1-C2-O2	6.62	122.87	118.90
36	1	2919	A	C4-C5-N7	6.62	114.01	110.70
36	1	2962	U	OP1-P-OP2	-6.62	109.67	119.60
36	1	3042	U	C5-C4-O4	-6.62	121.93	125.90
36	1	3140	G	C5-C6-N1	6.62	114.81	111.50
38	4	32	C	N1-C2-O2	-6.62	114.93	118.90
38	4	127	U	C5-C6-N1	6.62	126.01	122.70
85	5	215	G	OP1-P-O3'	6.62	119.76	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	304	G	C4-C5-N7	-6.62	108.15	110.80
85	5	644	G	C4-N9-C1'	6.62	135.10	126.50
85	5	1179	A	OP1-P-O3'	6.62	119.76	105.20
85	5	1404	G	N3-C2-N2	-6.62	115.27	119.90
85	5	2271	A	C6-C5-N7	6.62	136.93	132.30
85	5	3307	A	OP1-P-OP2	6.62	129.53	119.60
37	7	6	C	O5'-P-OP2	-6.62	99.74	105.70
38	8	148	G	C5-C6-N1	-6.62	108.19	111.50
1	2	648	G	C2-N3-C4	6.62	115.21	111.90
1	2	945	C	C5-C4-N4	-6.62	115.57	120.20
36	1	2242	A	C4-C5-C6	6.62	120.31	117.00
36	1	2879	C	C6-N1-C2	6.62	122.95	120.30
85	5	501	A	N7-C8-N9	-6.62	110.49	113.80
1	2	74	U	C6-N1-C2	6.62	124.97	121.00
1	2	1432	U	N3-C4-O4	6.62	124.03	119.40
1	2	1470	A	C8-N9-C4	6.62	108.45	105.80
36	1	61	A	OP1-P-OP2	6.62	129.52	119.60
36	1	101	G	N1-C2-N3	6.62	127.87	123.90
36	1	218	G	N7-C8-N9	6.62	116.41	113.10
36	1	383	G	N1-C2-N3	-6.62	119.93	123.90
36	1	720	A	N3-C4-C5	-6.62	122.17	126.80
36	1	3160	U	N1-C2-O2	6.62	127.43	122.80
36	1	3385	U	O5'-P-OP1	-6.62	99.75	105.70
80	6	1410	A	OP1-P-OP2	6.62	129.52	119.60
80	6	1590	G	C5-N7-C8	-6.62	100.99	104.30
80	6	1643	U	OP2-P-O3'	6.62	119.76	105.20
85	5	442	G	N1-C2-N3	-6.62	119.93	123.90
85	5	1276	U	C5-C4-O4	6.62	129.87	125.90
85	5	1608	C	N1-C2-O2	6.62	122.87	118.90
85	5	1779	C	O5'-P-OP1	-6.62	99.75	105.70
85	5	2364	G	C6-N1-C2	-6.62	121.13	125.10
85	5	2659	G	C4-C5-N7	6.62	113.45	110.80
85	5	2736	A	C2-N3-C4	-6.62	107.29	110.60
37	7	63	A	C4-N9-C1'	6.62	138.21	126.30
1	2	801	C	N3-C4-N4	6.61	122.63	118.00
1	2	1257	C	N1-C2-N3	6.61	123.83	119.20
36	1	630	A	C6-N1-C2	-6.61	114.63	118.60
36	1	659	G	C4-C5-N7	6.61	113.45	110.80
36	1	745	C	N1-C2-N3	-6.61	114.57	119.20
36	1	1473	G	N7-C8-N9	6.61	116.41	113.10
36	1	1604	G	N1-C2-N3	-6.61	119.93	123.90
36	1	2400	G	N3-C2-N2	6.61	124.53	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2912	G	OP2-P-O3'	6.61	119.75	105.20
36	1	3215	A	O5'-P-OP1	-6.61	99.75	105.70
80	6	7	G	C8-N9-C4	-6.61	103.75	106.40
80	6	458	G	N3-C2-N2	-6.61	115.27	119.90
85	5	567	G	C4-C5-N7	6.61	113.45	110.80
85	5	710	A	C6-C5-N7	-6.61	127.67	132.30
85	5	798	G	N3-C4-C5	6.61	131.91	128.60
85	5	1752	A	C5-N7-C8	-6.61	100.59	103.90
1	2	20	G	OP1-P-O3'	6.61	119.75	105.20
36	1	1842	A	C2-N3-C4	6.61	113.91	110.60
36	1	3307	A	C6-C5-N7	-6.61	127.67	132.30
80	6	586	G	N1-C2-N2	-6.61	110.25	116.20
80	6	814	A	C8-N9-C4	6.61	108.44	105.80
85	5	658	G	N3-C2-N2	-6.61	115.27	119.90
85	5	2937	G	N7-C8-N9	6.61	116.41	113.10
1	2	192	U	C5-C6-N1	6.61	126.00	122.70
1	2	334	G	N9-C4-C5	-6.61	102.76	105.40
1	2	545	A	N1-C6-N6	-6.61	114.63	118.60
36	1	998	A	C8-N9-C4	-6.61	103.16	105.80
36	1	1307	G	C5'-C4'-O4'	-6.61	101.17	109.10
36	1	1742	U	C5-C4-O4	-6.61	121.93	125.90
36	1	2882	U	N1-C2-O2	6.61	127.43	122.80
37	3	72	A	N1-C2-N3	6.61	132.60	129.30
80	6	163	G	N9-C4-C5	6.61	108.04	105.40
80	6	807	A	C8-N9-C4	-6.61	103.16	105.80
80	6	1071	U	C2-N1-C1'	-6.61	109.77	117.70
80	6	1757	G	C4-C5-N7	-6.61	108.16	110.80
85	5	243	G	OP2-P-O3'	6.61	119.74	105.20
85	5	345	G	C4-N9-C1'	6.61	135.09	126.50
85	5	769	G	C6-N1-C2	-6.61	121.13	125.10
85	5	2943	G	C4-C5-C6	6.61	122.77	118.80
37	7	54	U	C2-N3-C4	-6.61	123.03	127.00
1	2	806	G	N1-C2-N3	-6.61	119.94	123.90
1	2	1751	G	N9-C4-C5	6.61	108.04	105.40
36	1	369	A	C6-C5-N7	-6.61	127.67	132.30
36	1	884	A	C5-N7-C8	6.61	107.20	103.90
36	1	1734	G	N1-C2-N3	6.61	127.87	123.90
36	1	1899	G	N7-C8-N9	6.61	116.41	113.10
80	6	377	G	N3-C2-N2	6.61	124.53	119.90
80	6	417	A	C8-N9-C4	-6.61	103.16	105.80
85	5	406	G	N1-C2-N3	6.61	127.86	123.90
85	5	3052	G	C5-N7-C8	6.61	107.60	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	780	G	C4-C5-N7	6.61	113.44	110.80
36	1	136	G	C5-C6-O6	6.61	132.56	128.60
36	1	1367	G	C2-N3-C4	-6.61	108.60	111.90
36	1	2202	C	C6-N1-C2	-6.61	117.66	120.30
36	1	2433	U	C5-C6-N1	6.61	126.00	122.70
36	1	2591	A	C4-C5-N7	6.61	114.00	110.70
36	1	3123	A	C6-N1-C2	-6.61	114.64	118.60
36	1	3318	G	C6-N1-C2	-6.61	121.14	125.10
37	3	60	G	C4-C5-N7	-6.61	108.16	110.80
80	6	57	G	C4-C5-C6	6.61	122.77	118.80
80	6	332	U	C5-C6-N1	-6.61	119.40	122.70
80	6	1108	G	C5-N7-C8	-6.61	101.00	104.30
85	5	218	G	C5-C6-N1	6.61	114.80	111.50
85	5	1357	G	C6-N1-C2	-6.61	121.14	125.10
85	5	1531	C	C5-C4-N4	-6.61	115.58	120.20
85	5	1652	G	O5'-P-OP2	6.61	118.63	110.70
85	5	2343	C	C4-C5-C6	6.61	120.70	117.40
85	5	2896	A	O5'-P-OP1	6.61	118.63	110.70
85	5	2941	A	C6-N1-C2	-6.61	114.64	118.60
85	5	2978	U	N1-C2-N3	6.61	118.86	114.90
42	15	273	ARG	NE-CZ-NH2	6.61	123.60	120.30
1	2	16	G	N3-C2-N2	6.61	124.52	119.90
1	2	587	C	C2-N3-C4	6.61	123.20	119.90
1	2	1512	C	N3-C4-C5	-6.61	119.26	121.90
36	1	7	C	N3-C4-N4	-6.61	113.38	118.00
36	1	723	U	C5-C6-N1	-6.61	119.40	122.70
36	1	1833	G	C5-N7-C8	6.61	107.60	104.30
36	1	2671	A	O5'-P-OP2	-6.61	99.75	105.70
36	1	2942	C	N1-C2-N3	-6.61	114.58	119.20
36	1	2982	A	C4-C5-N7	-6.61	107.40	110.70
36	1	3130	A	C6-C5-N7	-6.61	127.68	132.30
36	1	3362	A	O4'-C1'-N9	6.61	113.48	108.20
80	6	1022	C	N3-C4-C5	6.61	124.54	121.90
85	5	237	G	N3-C2-N2	-6.61	115.28	119.90
85	5	1612	A	C2-N3-C4	-6.61	107.30	110.60
85	5	1882	G	N1-C2-N3	6.61	127.86	123.90
85	5	2262	A	O4'-C1'-N9	-6.61	102.92	108.20
85	5	2268	U	N3-C4-C5	-6.61	110.64	114.60
85	5	2325	G	C5-N7-C8	-6.61	101.00	104.30
85	5	2916	U	O4'-C1'-N1	6.61	113.48	108.20
85	5	3024	A	C5-C6-N6	6.61	128.99	123.70
85	5	3266	G	C6-C5-N7	6.61	134.36	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	67	G	C5-C6-O6	6.61	132.56	128.60
1	2	1311	G	N3-C4-C5	6.60	131.90	128.60
1	2	1643	A	N9-C4-C5	-6.60	103.16	105.80
1	2	1766	C	N1-C2-O2	6.60	122.86	118.90
36	1	1107	C	N1-C2-O2	-6.60	114.94	118.90
1	2	967	G	C5-C6-N1	-6.60	108.20	111.50
1	2	1000	U	C5-C4-O4	6.60	129.86	125.90
36	1	421	G	C6-N1-C2	-6.60	121.14	125.10
36	1	604	G	N1-C6-O6	6.60	123.86	119.90
36	1	699	A	O5'-P-OP1	-6.60	99.76	105.70
36	1	846	A	C5-N7-C8	-6.60	100.60	103.90
36	1	1006	A	OP1-P-OP2	6.60	129.50	119.60
36	1	1750	A	OP1-P-OP2	6.60	129.50	119.60
36	1	2912	G	N3-C4-C5	-6.60	125.30	128.60
36	1	3095	U	C5-C6-N1	6.60	126.00	122.70
80	6	313	U	OP2-P-O3'	6.60	119.73	105.20
80	6	429	G	C4-C5-C6	6.60	122.76	118.80
80	6	542	A	O5'-P-OP1	-6.60	99.76	105.70
80	6	1309	C	N3-C2-O2	-6.60	117.28	121.90
80	6	1433	G	C8-N9-C4	-6.60	103.76	106.40
85	5	3	U	N3-C2-O2	-6.60	117.58	122.20
85	5	1602	A	O5'-P-OP1	-6.60	99.76	105.70
85	5	2121	G	N7-C8-N9	-6.60	109.80	113.10
37	7	32	U	C5-C6-N1	-6.60	119.40	122.70
38	8	78	G	C5-C6-N1	6.60	114.80	111.50
36	1	748	U	N3-C4-C5	6.60	118.56	114.60
36	1	780	A	C5-C6-N6	6.60	128.98	123.70
36	1	1594	A	C5-C6-N6	6.60	128.98	123.70
36	1	1764	U	C5-C6-N1	6.60	126.00	122.70
36	1	2679	A	C2-N3-C4	-6.60	107.30	110.60
36	1	2746	A	C5-C6-N1	-6.60	114.40	117.70
36	1	3329	U	OP1-P-OP2	6.60	129.50	119.60
80	6	540	G	C5-N7-C8	6.60	107.60	104.30
85	5	1317	A	N9-C4-C5	-6.60	103.16	105.80
85	5	1462	A	N1-C2-N3	6.60	132.60	129.30
85	5	2201	G	C8-N9-C1'	-6.60	118.42	127.00
38	8	96	A	C4-C5-C6	-6.60	113.70	117.00
1	2	1745	A	N1-C6-N6	6.60	122.56	118.60
36	1	1034	U	N3-C2-O2	6.60	126.82	122.20
36	1	1287	A	N9-C4-C5	6.60	108.44	105.80
36	1	1402	C	OP1-P-O3'	6.60	119.72	105.20
36	1	2569	A	N1-C6-N6	-6.60	114.64	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3062	G	C6-C5-N7	-6.60	126.44	130.40
80	6	545	A	N1-C6-N6	-6.60	114.64	118.60
80	6	614	C	C6-N1-C2	6.60	122.94	120.30
80	6	798	C	N3-C4-N4	6.60	122.62	118.00
80	6	1113	A	C5-C6-N6	6.60	128.98	123.70
80	6	1348	A	C5-C6-N6	-6.60	118.42	123.70
85	5	74	G	N7-C8-N9	6.60	116.40	113.10
85	5	350	C	C2-N3-C4	6.60	123.20	119.90
85	5	1296	C	C2-N1-C1'	6.60	126.06	118.80
85	5	1546	A	N1-C6-N6	6.60	122.56	118.60
85	5	1810	A	C8-N9-C4	6.60	108.44	105.80
85	5	3059	G	N1-C6-O6	-6.60	115.94	119.90
85	5	3278	C	C6-N1-C2	6.60	122.94	120.30
1	2	753	A	O5'-P-OP2	-6.60	99.76	105.70
1	2	1332	G	O5'-P-OP1	-6.60	99.76	105.70
1	2	1457	G	N7-C8-N9	-6.60	109.80	113.10
36	1	98	G	N3-C4-N9	-6.60	122.04	126.00
36	1	277	G	C5-C6-O6	-6.60	124.64	128.60
36	1	2771	U	O5'-P-OP1	-6.60	99.76	105.70
36	1	3087	A	C5-N7-C8	6.60	107.20	103.90
38	4	89	A	N9-C4-C5	-6.60	103.16	105.80
80	6	208	U	C6-N1-C2	6.60	124.96	121.00
85	5	583	G	C4-C5-C6	6.60	122.76	118.80
85	5	1163	A	C6-N1-C2	-6.60	114.64	118.60
85	5	1232	C	C6-N1-C2	-6.60	117.66	120.30
85	5	1299	U	O5'-P-OP1	-6.60	99.76	105.70
85	5	1929	G	N3-C2-N2	6.60	124.52	119.90
85	5	2147	A	N7-C8-N9	6.60	117.10	113.80
85	5	2700	G	C8-N9-C4	6.60	109.04	106.40
85	5	2821	C	N1-C2-N3	6.60	123.82	119.20
85	5	3327	G	C4-N9-C1'	6.60	135.08	126.50
38	8	8	C	O5'-P-OP2	-6.60	99.76	105.70
36	1	997	A	O5'-P-OP1	6.60	118.61	110.70
36	1	1020	G	N1-C6-O6	6.60	123.86	119.90
36	1	1710	C	C5-C4-N4	-6.60	115.58	120.20
85	5	190	U	N1-C2-O2	6.60	127.42	122.80
85	5	1477	A	C5-C6-N1	6.60	121.00	117.70
85	5	1480	G	N3-C4-C5	6.60	131.90	128.60
85	5	2402	A	C5-C6-N1	6.60	121.00	117.70
1	2	87	C	N3-C4-N4	6.59	122.62	118.00
36	1	38	U	C6-N1-C2	6.59	124.96	121.00
36	1	270	U	C5-C6-N1	6.59	126.00	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1790	G	N3-C2-N2	-6.59	115.28	119.90
36	1	2111	G	N9-C4-C5	-6.59	102.76	105.40
36	1	3055	U	N1-C2-N3	-6.59	110.94	114.90
80	6	78	A	C8-N9-C4	6.59	108.44	105.80
80	6	1325	A	C5-C6-N1	-6.59	114.40	117.70
85	5	115	A	N9-C4-C5	-6.59	103.16	105.80
85	5	1101	G	C6-N1-C2	-6.59	121.14	125.10
85	5	1385	C	N3-C4-C5	-6.59	119.26	121.90
85	5	2352	A	O5'-P-OP2	-6.59	99.77	105.70
85	5	2365	C	OP1-P-OP2	6.59	129.49	119.60
1	2	921	G	C8-N9-C4	-6.59	103.76	106.40
36	1	2871	G	OP1-P-O3'	6.59	119.70	105.20
38	4	43	A	N9-C4-C5	-6.59	103.16	105.80
85	5	1139	G	OP1-P-OP2	-6.59	109.71	119.60
85	5	1699	A	N1-C2-N3	6.59	132.60	129.30
85	5	1777	U	C5-C6-N1	6.59	126.00	122.70
85	5	3343	G	C5-C6-O6	6.59	132.56	128.60
1	2	308	C	C6-N1-C2	-6.59	117.66	120.30
1	2	1738	A	C4-C5-C6	6.59	120.30	117.00
36	1	89	A	N1-C2-N3	6.59	132.59	129.30
36	1	102	C	C2-N3-C4	-6.59	116.60	119.90
36	1	178	U	N1-C2-N3	6.59	118.86	114.90
36	1	341	G	OP1-P-OP2	-6.59	109.71	119.60
36	1	812	G	C5-N7-C8	-6.59	101.00	104.30
80	6	1789	G	C4-C5-N7	-6.59	108.16	110.80
85	5	6	A	C5-N7-C8	6.59	107.20	103.90
85	5	1395	G	C6-N1-C2	-6.59	121.15	125.10
85	5	1430	U	C5-C6-N1	-6.59	119.41	122.70
85	5	2621	G	O5'-P-OP1	6.59	118.61	110.70
36	1	792	G	C5-N7-C8	-6.59	101.00	104.30
36	1	1226	G	N3-C4-C5	6.59	131.90	128.60
36	1	2303	A	C5-C6-N6	-6.59	118.43	123.70
36	1	2845	A	C5-C6-N1	-6.59	114.41	117.70
36	1	2995	A	N1-C6-N6	6.59	122.55	118.60
85	5	1519	G	O5'-P-OP2	-6.59	99.77	105.70
85	5	2915	U	N3-C4-O4	6.59	124.01	119.40
85	5	2957	G	C2-N3-C4	-6.59	108.61	111.90
37	7	59	U	OP1-P-OP2	-6.59	109.72	119.60
43	16	77	ARG	NE-CZ-NH2	-6.59	117.00	120.30
36	1	2317	A	N9-C4-C5	6.59	108.44	105.80
36	1	3202	G	N1-C6-O6	6.59	123.85	119.90
85	5	2408	U	C4-C5-C6	6.59	123.65	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	106	C	N1-C2-O2	6.59	122.85	118.90
1	2	22	A	C4-C5-N7	6.59	113.99	110.70
1	2	407	A	N1-C2-N3	6.59	132.59	129.30
36	1	350	C	C6-N1-C2	6.59	122.94	120.30
36	1	655	C	N3-C4-N4	6.59	122.61	118.00
36	1	730	C	C6-N1-C2	6.59	122.93	120.30
36	1	902	G	C8-N9-C4	-6.59	103.77	106.40
36	1	1432	C	C2-N1-C1'	6.59	126.05	118.80
36	1	1545	A	N9-C4-C5	6.59	108.44	105.80
36	1	1899	G	C4-C5-N7	-6.59	108.17	110.80
36	1	2430	A	OP1-P-OP2	-6.59	109.72	119.60
36	1	2844	C	C2-N3-C4	6.59	123.19	119.90
37	3	100	C	OP1-P-OP2	6.59	129.48	119.60
38	4	47	C	N3-C4-C5	6.59	124.53	121.90
38	4	56	G	C8-N9-C1'	-6.59	118.44	127.00
80	6	19	A	N9-C4-C5	-6.59	103.17	105.80
80	6	127	G	N3-C4-C5	6.59	131.89	128.60
80	6	1655	A	C6-C5-N7	6.59	136.91	132.30
85	5	738	A	C5-N7-C8	-6.59	100.61	103.90
85	5	803	C	C6-N1-C2	-6.59	117.67	120.30
85	5	816	A	N7-C8-N9	6.59	117.09	113.80
85	5	1418	A	N7-C8-N9	6.59	117.09	113.80
85	5	1694	U	O5'-P-OP2	-6.59	99.77	105.70
85	5	2268	U	N1-C2-N3	-6.59	110.95	114.90
85	5	2398	A	N1-C6-N6	-6.59	114.65	118.60
1	2	1415	U	C6-N1-C2	6.58	124.95	121.00
1	2	1494	U	OP1-P-O3'	6.58	119.69	105.20
36	1	360	G	C4-N9-C1'	6.58	135.06	126.50
80	6	385	A	N1-C2-N3	6.58	132.59	129.30
85	5	169	U	N3-C4-C5	6.58	118.55	114.60
85	5	330	G	N3-C4-C5	6.58	131.89	128.60
85	5	1651	U	C4-C5-C6	6.58	123.65	119.70
85	5	3081	C	N3-C4-C5	-6.58	119.27	121.90
85	5	3349	C	C6-N1-C2	6.58	122.93	120.30
1	2	443	C	C6-N1-C2	-6.58	117.67	120.30
1	2	1588	G	C6-C5-N7	-6.58	126.45	130.40
36	1	120	G	C6-C5-N7	6.58	134.35	130.40
36	1	630	A	C2-N3-C4	6.58	113.89	110.60
36	1	726	G	C6-N1-C2	-6.58	121.15	125.10
36	1	1520	G	C5-C6-O6	6.58	132.55	128.60
36	1	2098	C	C5-C6-N1	6.58	124.29	121.00
36	1	3199	G	O5'-P-OP1	-6.58	99.78	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	52	G	N3-C2-N2	-6.58	115.29	119.90
38	4	66	A	O5'-P-OP1	6.58	118.60	110.70
80	6	1664	C	N1-C2-N3	-6.58	114.59	119.20
85	5	678	G	N1-C6-O6	6.58	123.85	119.90
85	5	683	U	C2-N3-C4	6.58	130.95	127.00
85	5	1040	A	N1-C6-N6	-6.58	114.65	118.60
85	5	1366	A	C6-N1-C2	-6.58	114.65	118.60
85	5	2892	A	C4-C5-C6	6.58	120.29	117.00
85	5	2895	G	N3-C2-N2	-6.58	115.29	119.90
85	5	2927	C	N3-C2-O2	6.58	126.51	121.90
85	5	2933	A	N1-C2-N3	6.58	132.59	129.30
85	5	3324	C	N3-C2-O2	6.58	126.51	121.90
1	2	338	C	C2-N3-C4	-6.58	116.61	119.90
1	2	345	U	N1-C2-O2	-6.58	118.19	122.80
1	2	416	A	N9-C4-C5	-6.58	103.17	105.80
1	2	1182	G	C5-C6-O6	-6.58	124.65	128.60
36	1	662	U	N1-C2-O2	-6.58	118.19	122.80
36	1	931	C	C5-C4-N4	-6.58	115.59	120.20
36	1	1130	A	N1-C2-N3	6.58	132.59	129.30
36	1	1461	A	C5-N7-C8	-6.58	100.61	103.90
36	1	1699	A	C5-C6-N1	-6.58	114.41	117.70
36	1	1809	A	C5-N7-C8	6.58	107.19	103.90
36	1	2334	U	O5'-P-OP2	-6.58	99.78	105.70
36	1	2375	G	OP1-P-OP2	-6.58	109.73	119.60
80	6	1002	G	C4-C5-N7	6.58	113.43	110.80
80	6	1093	A	O5'-P-OP2	-6.58	99.78	105.70
80	6	1289	U	N3-C4-O4	6.58	124.01	119.40
80	6	1523	G	C8-N9-C4	-6.58	103.77	106.40
85	5	697	A	C2-N3-C4	-6.58	107.31	110.60
85	5	1320	C	N1-C2-O2	-6.58	114.95	118.90
85	5	1346	G	N3-C2-N2	-6.58	115.29	119.90
85	5	1468	A	C5-N7-C8	-6.58	100.61	103.90
85	5	2781	U	O5'-P-OP2	-6.58	99.78	105.70
85	5	2983	C	C2-N3-C4	6.58	123.19	119.90
85	5	2996	U	O5'-P-OP2	-6.58	99.78	105.70
85	5	3126	C	C5-C4-N4	6.58	124.81	120.20
36	1	91	G	C4-C5-N7	-6.58	108.17	110.80
36	1	3342	A	C5-C6-N1	-6.58	114.41	117.70
38	4	88	A	C5-C6-N6	6.58	128.96	123.70
38	4	100	U	O5'-P-OP2	6.58	118.60	110.70
80	6	138	A	O5'-P-OP1	-6.58	99.78	105.70
80	6	449	C	C6-N1-C2	6.58	122.93	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	660	A	N7-C8-N9	-6.58	110.51	113.80
85	5	686	G	C4-C5-C6	6.58	122.75	118.80
85	5	1450	G	N7-C8-N9	6.58	116.39	113.10
85	5	3266	G	OP1-P-O3'	6.58	119.67	105.20
1	2	225	A	N1-C6-N6	-6.58	114.65	118.60
1	2	613	G	N3-C4-N9	6.58	129.95	126.00
1	2	988	A	C5-N7-C8	6.58	107.19	103.90
1	2	1096	A	O5'-P-OP1	6.58	118.59	110.70
1	2	1607	C	C6-N1-C2	6.58	122.93	120.30
36	1	196	G	OP1-P-OP2	6.58	129.47	119.60
36	1	1393	A	C5-N7-C8	6.58	107.19	103.90
36	1	1910	A	N1-C2-N3	-6.58	126.01	129.30
36	1	1935	G	N3-C2-N2	6.58	124.50	119.90
36	1	1949	G	N1-C2-N3	-6.58	119.95	123.90
36	1	2225	U	O5'-P-OP1	-6.58	99.78	105.70
36	1	2254	U	C6-N1-C2	-6.58	117.05	121.00
36	1	2932	U	OP1-P-OP2	6.58	129.47	119.60
36	1	2964	G	C5-C6-N1	6.58	114.79	111.50
36	1	3321	C	N1-C2-O2	-6.58	114.95	118.90
36	1	3349	C	C6-N1-C2	-6.58	117.67	120.30
80	6	998	A	C8-N9-C4	-6.58	103.17	105.80
85	5	36	C	C6-N1-C2	-6.58	117.67	120.30
85	5	84	U	C6-N1-C2	6.58	124.95	121.00
85	5	725	G	C5-C6-O6	6.58	132.55	128.60
85	5	1193	A	N1-C6-N6	-6.58	114.65	118.60
85	5	2639	G	C4-N9-C1'	6.58	135.05	126.50
85	5	3003	G	N9-C4-C5	6.58	108.03	105.40
85	5	3294	A	C4-C5-C6	6.58	120.29	117.00
36	1	673	U	C4-C5-C6	-6.58	115.75	119.70
36	1	1116	G	C2-N3-C4	-6.58	108.61	111.90
36	1	3209	A	O5'-P-OP2	-6.58	99.78	105.70
38	4	106	C	O4'-C1'-N1	-6.58	102.94	108.20
85	5	215	G	C4-C5-C6	6.58	122.75	118.80
85	5	671	U	N1-C2-N3	-6.58	110.95	114.90
85	5	1047	A	C6-C5-N7	-6.58	127.70	132.30
85	5	1152	G	C4-C5-C6	6.58	122.75	118.80
85	5	1546	A	C2-N3-C4	-6.58	107.31	110.60
85	5	2554	A	C5-C6-N1	-6.58	114.41	117.70
85	5	2798	C	N1-C2-O2	6.58	122.85	118.90
85	5	2814	G	C2-N3-C4	-6.58	108.61	111.90
1	2	1372	C	N1-C2-O2	6.58	122.85	118.90
36	1	107	A	N7-C8-N9	-6.58	110.51	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	582	G	N3-C4-N9	-6.58	122.05	126.00
36	1	2218	G	N7-C8-N9	-6.58	109.81	113.10
36	1	3034	C	C6-N1-C2	-6.58	117.67	120.30
80	6	185	U	N1-C2-N3	-6.58	110.95	114.90
80	6	1119	G	N9-C4-C5	6.58	108.03	105.40
10	s8	18	ARG	NE-CZ-NH1	-6.58	117.01	120.30
85	5	780	A	N3-C4-N9	-6.58	122.14	127.40
85	5	1462	A	C5-N7-C8	-6.58	100.61	103.90
85	5	1775	G	N3-C2-N2	6.58	124.50	119.90
85	5	2238	G	O5'-P-OP1	6.58	118.59	110.70
85	5	2600	C	O5'-P-OP2	6.58	118.59	110.70
38	8	134	G	C2-N3-C4	-6.58	108.61	111.90
1	2	121	U	N3-C2-O2	-6.57	117.60	122.20
1	2	365	G	OP1-P-OP2	-6.57	109.74	119.60
1	2	761	G	C5-C6-N1	-6.57	108.21	111.50
1	2	1363	U	N3-C4-C5	6.57	118.54	114.60
36	1	299	G	N3-C4-N9	-6.57	122.06	126.00
36	1	627	U	N1-C2-O2	-6.57	118.20	122.80
36	1	678	G	N1-C2-N3	6.57	127.84	123.90
36	1	847	A	C2-N3-C4	6.57	113.89	110.60
36	1	904	A	N3-C4-C5	6.57	131.40	126.80
36	1	908	G	C4-N9-C1'	6.57	135.04	126.50
36	1	1273	A	C2-N3-C4	6.57	113.89	110.60
36	1	1443	G	OP1-P-O3'	6.57	119.66	105.20
36	1	2834	G	N3-C2-N2	6.57	124.50	119.90
36	1	2868	U	C5-C4-O4	6.57	129.84	125.90
36	1	3033	A	OP1-P-O3'	6.57	119.66	105.20
36	1	3037	U	C4-C5-C6	6.57	123.64	119.70
80	6	589	C	N1-C2-N3	-6.57	114.60	119.20
85	5	23	A	C4-C5-C6	6.57	120.29	117.00
85	5	1231	A	N1-C6-N6	6.57	122.54	118.60
85	5	2178	A	OP1-P-O3'	6.57	119.66	105.20
85	5	2924	U	C5-C6-N1	-6.57	119.41	122.70
85	5	2933	A	OP2-P-O3'	6.57	119.66	105.20
85	5	2945	G	N7-C8-N9	-6.57	109.81	113.10
37	7	52	G	C5-N7-C8	6.57	107.59	104.30
69	o3	73	ARG	NE-CZ-NH1	-6.57	117.01	120.30
71	o5	28	LEU	CA-CB-CG	6.57	130.42	115.30
36	1	559	A	C5-N7-C8	-6.57	100.61	103.90
36	1	1311	G	C5-C6-O6	-6.57	124.66	128.60
36	1	3275	U	C5-C4-O4	6.57	129.84	125.90
36	1	3334	U	C5-C4-O4	6.57	129.84	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	23	U	N3-C4-O4	-6.57	114.80	119.40
80	6	1286	U	C6-N1-C2	6.57	124.94	121.00
85	5	349	A	N9-C4-C5	6.57	108.43	105.80
85	5	355	A	C6-N1-C2	-6.57	114.66	118.60
85	5	1669	C	C2-N3-C4	-6.57	116.61	119.90
85	5	1898	G	N3-C2-N2	-6.57	115.30	119.90
85	5	2410	U	N3-C2-O2	6.57	126.80	122.20
85	5	2666	C	N1-C2-O2	-6.57	114.96	118.90
85	5	3353	G	C2-N3-C4	-6.57	108.61	111.90
38	8	28	C	C4-C5-C6	-6.57	114.11	117.40
1	2	336	G	C5-C6-N1	6.57	114.78	111.50
1	2	434	G	C4-C5-C6	6.57	122.74	118.80
1	2	1130	A	C4-C5-N7	6.57	113.98	110.70
36	1	94	G	OP2-P-O3'	6.57	119.65	105.20
36	1	761	A	N3-C4-N9	-6.57	122.14	127.40
36	1	800	G	N3-C2-N2	-6.57	115.30	119.90
36	1	933	A	O5'-P-OP2	-6.57	99.79	105.70
36	1	1379	G	C6-N1-C2	-6.57	121.16	125.10
36	1	1381	A	N7-C8-N9	-6.57	110.52	113.80
36	1	1535	A	C8-N9-C4	-6.57	103.17	105.80
36	1	3109	G	C4-C5-C6	-6.57	114.86	118.80
38	4	80	A	C6-C5-N7	6.57	136.90	132.30
80	6	57	G	C8-N9-C4	-6.57	103.77	106.40
80	6	239	C	N3-C2-O2	6.57	126.50	121.90
80	6	267	U	N1-C2-O2	-6.57	118.20	122.80
80	6	335	U	O5'-P-OP1	-6.57	99.79	105.70
80	6	403	G	O5'-P-OP2	-6.57	99.79	105.70
80	6	787	G	C5-C6-N1	-6.57	108.22	111.50
80	6	1199	G	C5-N7-C8	-6.57	101.02	104.30
80	6	1778	G	O5'-P-OP2	-6.57	99.79	105.70
85	5	308	A	O5'-P-OP1	6.57	118.58	110.70
85	5	662	U	C2-N3-C4	-6.57	123.06	127.00
85	5	710	A	N1-C6-N6	6.57	122.54	118.60
85	5	1483	G	C6-C5-N7	6.57	134.34	130.40
85	5	1524	A	C4-C5-C6	6.57	120.28	117.00
85	5	1562	C	OP1-P-OP2	-6.57	109.74	119.60
85	5	1665	C	N3-C4-N4	-6.57	113.40	118.00
85	5	1707	A	C6-N1-C2	-6.57	114.66	118.60
37	7	16	U	C5-C4-O4	6.57	129.84	125.90
1	2	418	G	C6-N1-C2	-6.57	121.16	125.10
36	1	1437	C	N3-C2-O2	-6.57	117.30	121.90
36	1	3030	G	N7-C8-N9	6.57	116.39	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3248	C	N3-C4-N4	6.57	122.60	118.00
80	6	408	C	P-O3'-C3'	-6.57	111.82	119.70
80	6	1041	G	C5-C6-N1	-6.57	108.22	111.50
80	6	1723	U	C2-N3-C4	-6.57	123.06	127.00
80	6	1754	A	N9-C4-C5	6.57	108.43	105.80
85	5	2326	A	OP2-P-O3'	6.57	119.65	105.20
85	5	2732	G	C6-C5-N7	-6.57	126.46	130.40
85	5	3126	C	OP2-P-O3'	6.57	119.65	105.20
1	2	1018	G	N3-C2-N2	6.57	124.50	119.90
36	1	313	A	N1-C2-N3	6.57	132.58	129.30
36	1	650	C	N3-C2-O2	6.57	126.50	121.90
36	1	713	U	C4-C5-C6	6.57	123.64	119.70
36	1	918	C	C5-C6-N1	6.57	124.28	121.00
36	1	981	U	C2-N3-C4	6.57	130.94	127.00
36	1	1391	C	N3-C4-C5	6.57	124.53	121.90
36	1	1654	A	C5-C6-N1	6.57	120.98	117.70
36	1	2285	C	OP2-P-O3'	6.57	119.65	105.20
36	1	2386	A	C5-C6-N6	-6.57	118.45	123.70
36	1	2878	G	N3-C4-C5	6.57	131.88	128.60
36	1	3378	C	N1-C2-N3	6.57	123.80	119.20
85	5	1005	G	OP2-P-O3'	6.57	119.65	105.20
85	5	1206	G	C8-N9-C4	-6.57	103.77	106.40
85	5	1301	A	C6-C5-N7	-6.57	127.70	132.30
85	5	1343	A	N1-C2-N3	6.57	132.58	129.30
85	5	1444	G	C4-N9-C1'	6.57	135.04	126.50
85	5	1807	G	OP1-P-OP2	-6.57	109.75	119.60
40	l3	167	ARG	NE-CZ-NH1	6.57	123.58	120.30
1	2	1274	G	N3-C4-N9	-6.57	122.06	126.00
36	1	19	U	OP1-P-OP2	6.57	129.45	119.60
36	1	78	U	C6-N1-C2	-6.57	117.06	121.00
36	1	555	U	C4-C5-C6	6.57	123.64	119.70
36	1	707	U	N3-C4-O4	-6.57	114.81	119.40
36	1	2397	A	C8-N9-C4	6.57	108.43	105.80
36	1	3085	G	C2-N3-C4	-6.57	108.62	111.90
36	1	3247	G	O5'-P-OP1	6.57	118.58	110.70
37	3	93	C	N1-C2-O2	-6.57	114.96	118.90
80	6	308	C	O5'-P-OP2	-6.57	99.79	105.70
80	6	643	G	C4-C5-N7	6.57	113.43	110.80
80	6	796	A	N1-C2-N3	6.57	132.58	129.30
85	5	173	G	O5'-P-OP2	-6.57	99.79	105.70
85	5	419	G	C5-N7-C8	6.57	107.58	104.30
85	5	869	G	N3-C2-N2	6.57	124.50	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1770	G	N3-C4-C5	-6.57	125.32	128.60
85	5	2321	A	N3-C4-C5	6.57	131.40	126.80
85	5	2916	U	N1-C2-O2	6.57	127.40	122.80
37	7	52	G	N3-C2-N2	-6.57	115.30	119.90
1	2	47	A	N1-C2-N3	6.56	132.58	129.30
1	2	896	G	N1-C6-O6	6.56	123.84	119.90
36	1	665	A	C2-N3-C4	6.56	113.88	110.60
36	1	1068	C	N3-C4-N4	-6.56	113.41	118.00
36	1	1700	G	N1-C2-N3	6.56	127.84	123.90
36	1	2237	C	O5'-P-OP1	6.56	118.58	110.70
36	1	2695	A	O4'-C1'-N9	6.56	113.45	108.20
44	L7	129	LEU	CA-CB-CG	-6.56	100.20	115.30
80	6	481	A	C6-C5-N7	6.56	136.90	132.30
80	6	1342	C	C5-C6-N1	6.56	124.28	121.00
85	5	619	A	N9-C4-C5	-6.56	103.17	105.80
85	5	1851	G	O4'-C1'-N9	-6.56	102.95	108.20
85	5	2607	G	C8-N9-C4	6.56	109.03	106.40
85	5	3097	C	C2-N3-C4	6.56	123.18	119.90
85	5	3376	A	C2-N3-C4	-6.56	107.32	110.60
53	m7	3	ARG	NE-CZ-NH2	-6.56	117.02	120.30
1	2	274	G	N1-C6-O6	-6.56	115.96	119.90
1	2	1426	U	C5-C4-O4	6.56	129.84	125.90
36	1	512	U	C6-N1-C2	-6.56	117.06	121.00
36	1	694	C	O5'-P-OP1	-6.56	99.79	105.70
36	1	1226	G	N1-C2-N2	6.56	122.11	116.20
36	1	1483	G	C5-N7-C8	6.56	107.58	104.30
36	1	1725	C	C2-N3-C4	-6.56	116.62	119.90
36	1	2122	G	C5-C6-N1	6.56	114.78	111.50
80	6	20	G	C5-C6-N1	-6.56	108.22	111.50
80	6	190	C	C2-N3-C4	6.56	123.18	119.90
80	6	343	C	N3-C4-C5	-6.56	119.28	121.90
80	6	587	C	O5'-P-OP2	-6.56	99.79	105.70
80	6	1572	G	N1-C6-O6	6.56	123.84	119.90
85	5	666	A	C5-C6-N6	6.56	128.95	123.70
85	5	1887	A	OP2-P-O3'	6.56	119.64	105.20
85	5	2430	A	N1-C2-N3	6.56	132.58	129.30
68	o2	105	ARG	NE-CZ-NH1	-6.56	117.02	120.30
36	1	908	G	C8-N9-C1'	-6.56	118.47	127.00
36	1	2301	U	N3-C2-O2	-6.56	117.61	122.20
85	5	2283	G	O5'-P-OP2	-6.56	99.80	105.70
85	5	2893	C	N3-C4-N4	6.56	122.59	118.00
38	8	3	A	C8-N9-C4	-6.56	103.18	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	90	C	N1-C2-N3	6.56	123.79	119.20
1	2	1572	C	N1-C2-O2	6.56	122.84	118.90
36	1	49	A	OP1-P-OP2	-6.56	109.76	119.60
36	1	384	A	C6-N1-C2	-6.56	114.67	118.60
36	1	397	A	N7-C8-N9	-6.56	110.52	113.80
36	1	779	G	N1-C6-O6	6.56	123.84	119.90
36	1	805	G	N1-C6-O6	-6.56	115.97	119.90
36	1	1305	U	N1-C2-O2	-6.56	118.21	122.80
36	1	3328	G	N1-C6-O6	-6.56	115.96	119.90
37	3	65	G	N1-C2-N3	6.56	127.83	123.90
38	4	87	G	C6-C5-N7	6.56	134.34	130.40
80	6	78	A	N7-C8-N9	-6.56	110.52	113.80
85	5	41	G	N3-C4-C5	6.56	131.88	128.60
85	5	1213	G	N1-C2-N3	6.56	127.84	123.90
85	5	2907	G	OP1-P-OP2	-6.56	109.76	119.60
85	5	3108	G	C5-C6-N1	-6.56	108.22	111.50
44	17	232	ARG	NE-CZ-NH1	-6.56	117.02	120.30
1	2	1008	A	C5-N7-C8	-6.56	100.62	103.90
1	2	1325	C	N3-C4-C5	-6.56	119.28	121.90
1	2	1619	C	N3-C4-N4	6.56	122.59	118.00
36	1	728	G	O5'-P-OP1	6.56	118.57	110.70
36	1	1813	A	C5-N7-C8	6.56	107.18	103.90
36	1	1883	A	C5-C6-N1	6.56	120.98	117.70
36	1	3142	A	N1-C6-N6	-6.56	114.67	118.60
37	3	37	G	N1-C6-O6	6.56	123.83	119.90
38	4	57	C	N3-C4-C5	6.56	124.52	121.90
53	M7	131	ARG	NE-CZ-NH1	-6.56	117.02	120.30
80	6	319	U	OP1-P-OP2	6.56	129.44	119.60
80	6	617	U	C6-N1-C2	-6.56	117.06	121.00
80	6	1719	A	C8-N9-C4	-6.56	103.18	105.80
85	5	286	U	C6-N1-C2	-6.56	117.06	121.00
85	5	1442	U	C5-C4-O4	6.56	129.84	125.90
85	5	2620	G	N3-C4-C5	6.56	131.88	128.60
85	5	2803	A	O5'-P-OP2	-6.56	99.80	105.70
85	5	3024	A	O5'-P-OP2	6.56	118.57	110.70
85	5	3272	C	N3-C2-O2	6.56	126.49	121.90
37	7	27	A	OP1-P-O3'	6.56	119.63	105.20
37	7	93	C	O5'-P-OP1	6.56	118.57	110.70
1	2	363	G	OP1-P-O3'	6.56	119.62	105.20
36	1	684	G	N1-C2-N3	-6.56	119.97	123.90
36	1	968	G	N3-C2-N2	6.56	124.49	119.90
80	6	616	G	N3-C4-C5	-6.56	125.32	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	511	G	C2-N3-C4	-6.56	108.62	111.90
85	5	2105	G	C2-N3-C4	-6.56	108.62	111.90
1	2	1775	G	N1-C2-N3	6.55	127.83	123.90
36	1	792	G	N7-C8-N9	6.55	116.38	113.10
36	1	1075	A	C2-N3-C4	6.55	113.88	110.60
36	1	1292	C	N3-C4-N4	6.55	122.59	118.00
36	1	1450	G	C6-N1-C2	-6.55	121.17	125.10
36	1	3293	U	N1-C2-N3	-6.55	110.97	114.90
37	3	27	A	N1-C6-N6	6.55	122.53	118.60
85	5	80	G	N7-C8-N9	6.55	116.38	113.10
85	5	288	C	N1-C2-O2	-6.55	114.97	118.90
85	5	733	G	C8-N9-C4	-6.55	103.78	106.40
85	5	1049	C	C4-C5-C6	6.55	120.68	117.40
85	5	2248	C	C4-C5-C6	6.55	120.68	117.40
85	5	2419	A	C2-N3-C4	-6.55	107.32	110.60
85	5	3372	A	C4-C5-N7	-6.55	107.42	110.70
1	2	63	G	O5'-P-OP2	6.55	118.56	110.70
36	1	96	G	OP2-P-O3'	6.55	119.62	105.20
36	1	623	U	O5'-P-OP2	6.55	118.56	110.70
36	1	1224	C	N1-C2-O2	6.55	122.83	118.90
36	1	1337	A	N1-C2-N3	6.55	132.58	129.30
38	4	115	C	N3-C4-N4	-6.55	113.41	118.00
80	6	314	C	N1-C2-N3	6.55	123.79	119.20
80	6	1164	G	C5-N7-C8	-6.55	101.02	104.30
80	6	1657	U	OP1-P-OP2	-6.55	109.77	119.60
80	6	1765	A	C6-N1-C2	-6.55	114.67	118.60
85	5	769	G	N1-C6-O6	6.55	123.83	119.90
85	5	923	C	C2-N1-C1'	6.55	126.01	118.80
36	1	611	A	N1-C2-N3	6.55	132.58	129.30
36	1	845	G	C5-C6-N1	-6.55	108.22	111.50
36	1	976	U	C4-C5-C6	-6.55	115.77	119.70
36	1	992	A	N9-C4-C5	6.55	108.42	105.80
36	1	1452	A	C4-C5-N7	6.55	113.97	110.70
36	1	2273	G	N3-C4-C5	6.55	131.88	128.60
36	1	3247	G	C2-N3-C4	-6.55	108.62	111.90
80	6	786	C	C5-C6-N1	6.55	124.28	121.00
85	5	1054	A	C5-C6-N6	6.55	128.94	123.70
85	5	1514	G	O5'-P-OP1	6.55	118.56	110.70
85	5	2140	U	OP2-P-O3'	6.55	119.61	105.20
85	5	2719	U	N3-C4-O4	-6.55	114.81	119.40
1	2	424	C	C2-N3-C4	6.55	123.17	119.90
1	2	799	G	C8-N9-C4	-6.55	103.78	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	943	U	N1-C2-N3	6.55	118.83	114.90
1	2	1226	G	C5-C6-N1	6.55	114.78	111.50
36	1	20	A	C6-N1-C2	-6.55	114.67	118.60
36	1	428	A	C6-N1-C2	-6.55	114.67	118.60
36	1	1213	G	N3-C4-N9	6.55	129.93	126.00
36	1	2278	C	C2-N3-C4	6.55	123.17	119.90
36	1	2311	G	N1-C6-O6	-6.55	115.97	119.90
36	1	2328	U	N3-C4-O4	-6.55	114.81	119.40
36	1	2390	A	OP2-P-O3'	6.55	119.61	105.20
36	1	3330	A	N1-C6-N6	-6.55	114.67	118.60
80	6	694	U	N1-C2-O2	6.55	127.39	122.80
80	6	1008	G	C5-C6-N1	-6.55	108.22	111.50
80	6	1478	G	C5-C6-N1	-6.55	108.22	111.50
80	6	1629	G	C5-C6-N1	-6.55	108.23	111.50
85	5	230	U	C2-N3-C4	-6.55	123.07	127.00
85	5	1300	G	C5-C6-O6	-6.55	124.67	128.60
85	5	1336	U	N3-C4-C5	6.55	118.53	114.60
85	5	1379	G	C4-C5-N7	6.55	113.42	110.80
85	5	2658	G	N1-C2-N3	6.55	127.83	123.90
85	5	2807	U	OP1-P-OP2	-6.55	109.78	119.60
85	5	2830	G	OP2-P-O3'	6.55	119.61	105.20
85	5	2897	A	C5-C6-N1	6.55	120.97	117.70
85	5	3157	U	N3-C2-O2	-6.55	117.61	122.20
37	7	93	C	C5-C4-N4	-6.55	115.62	120.20
1	2	1575	A	N9-C4-C5	6.55	108.42	105.80
36	1	651	G	N3-C4-N9	6.55	129.93	126.00
36	1	3327	G	N1-C6-O6	6.55	123.83	119.90
80	6	91	G	O5'-P-OP1	6.55	118.56	110.70
80	6	965	U	C5-C4-O4	6.55	129.83	125.90
80	6	1668	G	C5-C6-N1	6.55	114.77	111.50
85	5	11	A	N1-C6-N6	-6.55	114.67	118.60
85	5	64	G	C5-N7-C8	-6.55	101.03	104.30
85	5	1712	G	C5-N7-C8	-6.55	101.03	104.30
38	8	52	A	OP1-P-OP2	6.55	129.42	119.60
1	2	1637	G	N1-C2-N3	6.55	127.83	123.90
36	1	294	U	C5-C6-N1	6.55	125.97	122.70
36	1	1170	A	N7-C8-N9	-6.55	110.53	113.80
36	1	1599	G	C2-N3-C4	-6.55	108.63	111.90
36	1	2793	G	O5'-P-OP1	-6.55	99.81	105.70
36	1	3244	A	N1-C2-N3	6.55	132.57	129.30
37	3	66	A	OP1-P-OP2	6.55	129.42	119.60
80	6	274	G	O5'-P-OP1	6.55	118.56	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	294	C	O5'-P-OP2	-6.55	99.81	105.70
85	5	112	U	O4'-C1'-N1	6.55	113.44	108.20
85	5	331	G	C5-C6-N1	6.55	114.77	111.50
85	5	831	G	C5-C6-O6	-6.55	124.67	128.60
85	5	910	G	C6-N1-C2	6.55	129.03	125.10
85	5	1167	U	C5-C6-N1	-6.55	119.43	122.70
85	5	1422	G	OP1-P-OP2	6.55	129.42	119.60
85	5	1619	A	O5'-P-OP1	6.55	118.56	110.70
85	5	2584	G	C5-C6-N1	6.55	114.77	111.50
85	5	2636	A	C5-C6-N1	6.55	120.97	117.70
85	5	2800	G	C2-N3-C4	6.55	115.17	111.90
85	5	3033	A	O5'-P-OP1	6.55	118.56	110.70
85	5	3221	C	O5'-P-OP1	6.55	118.56	110.70
85	5	3269	U	P-O3'-C3'	6.55	127.56	119.70
38	8	14	C	OP2-P-O3'	6.55	119.60	105.20
38	8	86	U	C5-C6-N1	6.55	125.97	122.70
1	2	103	A	C5-C6-N1	-6.54	114.43	117.70
1	2	720	A	N9-C4-C5	-6.54	103.18	105.80
36	1	224	C	N1-C2-N3	-6.54	114.62	119.20
36	1	555	U	C2-N3-C4	-6.54	123.07	127.00
36	1	2105	G	C6-C5-N7	-6.54	126.47	130.40
36	1	2418	G	O5'-P-OP1	6.54	118.55	110.70
36	1	2972	G	C6-C5-N7	-6.54	126.47	130.40
36	1	3326	G	N9-C4-C5	-6.54	102.78	105.40
80	6	1042	G	N9-C4-C5	6.54	108.02	105.40
85	5	362	U	OP1-P-O3'	6.54	119.60	105.20
1	2	30	G	C6-C5-N7	-6.54	126.47	130.40
1	2	1183	G	C8-N9-C4	-6.54	103.78	106.40
1	2	1531	G	C8-N9-C4	-6.54	103.78	106.40
1	2	1534	U	N3-C4-O4	6.54	123.98	119.40
36	1	1054	A	C4-C5-N7	-6.54	107.43	110.70
36	1	2118	C	C5-C4-N4	6.54	124.78	120.20
36	1	3209	A	C5-C6-N6	-6.54	118.47	123.70
36	1	3374	U	N1-C2-N3	-6.54	110.97	114.90
71	O5	79	ASP	CB-CG-OD1	-6.54	112.41	118.30
80	6	93	A	C4-C5-N7	-6.54	107.43	110.70
80	6	608	U	N1-C2-N3	6.54	118.83	114.90
80	6	1071	U	N1-C2-O2	-6.54	118.22	122.80
80	6	1729	C	C6-N1-C2	6.54	122.92	120.30
85	5	503	C	C6-N1-C2	6.54	122.92	120.30
85	5	1151	U	C5-C6-N1	6.54	125.97	122.70
85	5	1184	A	N9-C4-C5	6.54	108.42	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1814	A	C5-C6-N6	6.54	128.94	123.70
85	5	2743	A	N7-C8-N9	-6.54	110.53	113.80
78	q2	97	LYS	CD-CE-NZ	-6.54	96.65	111.70
1	2	77	U	N1-C2-N3	-6.54	110.97	114.90
1	2	121	U	N1-C2-N3	6.54	118.83	114.90
1	2	1079	C	N3-C4-N4	6.54	122.58	118.00
1	2	1643	A	C4-C5-C6	-6.54	113.73	117.00
36	1	495	G	OP2-P-O3'	6.54	119.59	105.20
36	1	704	U	N3-C2-O2	6.54	126.78	122.20
36	1	948	C	O5'-P-OP2	-6.54	99.81	105.70
36	1	1379	G	C4-N9-C1'	6.54	135.00	126.50
36	1	2121	G	N7-C8-N9	-6.54	109.83	113.10
36	1	3221	C	N3-C2-O2	6.54	126.48	121.90
62	N6	53	ASP	CB-CG-OD1	-6.54	112.41	118.30
85	5	274	G	C4-C5-C6	6.54	122.72	118.80
85	5	965	A	C5-C6-N6	-6.54	118.47	123.70
85	5	1635	G	N3-C4-C5	6.54	131.87	128.60
85	5	1828	A	C5-C6-N6	6.54	128.93	123.70
85	5	1881	A	N3-C4-C5	-6.54	122.22	126.80
85	5	2256	A	C6-N1-C2	6.54	122.53	118.60
85	5	3129	A	OP1-P-O3'	6.54	119.59	105.20
37	7	75	G	N1-C2-N2	6.54	122.09	116.20
36	1	1336	U	N3-C2-O2	-6.54	117.62	122.20
80	6	457	G	N1-C2-N2	-6.54	110.31	116.20
80	6	983	A	C6-N1-C2	-6.54	114.68	118.60
80	6	1164	G	C8-N9-C4	6.54	109.02	106.40
85	5	1621	A	C8-N9-C4	6.54	108.42	105.80
85	5	2591	A	N9-C4-C5	-6.54	103.18	105.80
1	2	448	C	C4-C5-C6	6.54	120.67	117.40
36	1	184	U	C6-N1-C2	6.54	124.92	121.00
36	1	852	U	OP2-P-O3'	6.54	119.58	105.20
36	1	1431	G	C6-N1-C2	-6.54	121.18	125.10
36	1	2385	G	N9-C4-C5	6.54	108.02	105.40
36	1	2391	G	C2-N3-C4	-6.54	108.63	111.90
36	1	2667	A	N3-C4-C5	6.54	131.38	126.80
36	1	2782	U	N3-C2-O2	6.54	126.78	122.20
36	1	3215	A	N1-C2-N3	6.54	132.57	129.30
38	4	18	U	N1-C2-N3	6.54	118.82	114.90
80	6	509	G	C5-C6-N1	-6.54	108.23	111.50
80	6	1747	G	N9-C4-C5	-6.54	102.78	105.40
85	5	247	C	C2-N3-C4	6.54	123.17	119.90
85	5	1175	C	N1-C2-N3	-6.54	114.62	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1467	A	C4-C5-N7	-6.54	107.43	110.70
85	5	1663	C	O5'-P-OP2	-6.54	99.82	105.70
85	5	1808	G	O5'-P-OP1	6.54	118.55	110.70
85	5	2356	A	OP1-P-O3'	6.54	119.59	105.20
36	1	887	G	C2-N3-C4	6.54	115.17	111.90
36	1	1229	G	C5-C6-O6	-6.54	124.68	128.60
36	1	1381	A	C5-C6-N1	-6.54	114.43	117.70
36	1	1872	C	C5-C6-N1	-6.54	117.73	121.00
36	1	2703	A	O5'-P-OP1	6.54	118.55	110.70
85	5	101	G	C6-N1-C2	-6.54	121.18	125.10
85	5	883	A	C5-C6-N1	-6.54	114.43	117.70
85	5	1292	C	N3-C4-N4	6.54	122.58	118.00
85	5	1913	A	O5'-P-OP2	6.54	118.55	110.70
85	5	2443	A	C8-N9-C4	6.54	108.42	105.80
85	5	3303	G	C4-N9-C1'	-6.54	118.00	126.50
36	1	22	G	N1-C2-N3	6.54	127.82	123.90
36	1	1552	G	N3-C2-N2	-6.54	115.33	119.90
36	1	1640	G	N3-C4-C5	-6.54	125.33	128.60
36	1	1772	U	N3-C2-O2	-6.54	117.63	122.20
36	1	1919	G	C4-C5-C6	6.54	122.72	118.80
36	1	2326	A	C4-C5-C6	-6.54	113.73	117.00
36	1	2729	U	N3-C4-C5	-6.54	110.68	114.60
36	1	3091	A	C4-C5-C6	6.54	120.27	117.00
36	1	3154	C	C6-N1-C2	-6.54	117.69	120.30
36	1	3258	U	N3-C4-C5	-6.54	110.68	114.60
36	1	3324	C	N3-C2-O2	6.54	126.47	121.90
38	4	155	A	OP1-P-OP2	6.54	129.40	119.60
80	6	897	C	N1-C2-O2	-6.54	114.98	118.90
80	6	1502	G	C8-N9-C4	-6.54	103.78	106.40
85	5	391	A	C4-C5-N7	-6.54	107.43	110.70
85	5	568	G	C2-N3-C4	-6.54	108.63	111.90
85	5	605	U	N1-C2-N3	6.54	118.82	114.90
85	5	740	G	C5-C6-O6	-6.54	124.68	128.60
85	5	949	C	N1-C2-O2	6.54	122.82	118.90
85	5	1538	G	C8-N9-C4	-6.54	103.79	106.40
85	5	1674	G	C8-N9-C4	-6.54	103.79	106.40
1	2	580	A	N7-C8-N9	6.53	117.07	113.80
36	1	279	U	O5'-P-OP2	-6.53	99.82	105.70
36	1	1168	U	O5'-P-OP1	6.53	118.54	110.70
36	1	1176	C	C5-C4-N4	-6.53	115.63	120.20
80	6	321	C	C2-N1-C1'	6.53	125.99	118.80
80	6	471	A	OP2-P-O3'	6.53	119.57	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1672	G	C4-N9-C1'	-6.53	118.01	126.50
85	5	1455	U	N1-C2-O2	6.53	127.37	122.80
85	5	2729	U	O5'-P-OP1	-6.53	99.82	105.70
85	5	2991	A	N9-C4-C5	6.53	108.41	105.80
37	7	100	C	C2-N3-C4	-6.53	116.63	119.90
36	1	1397	C	C4-C5-C6	6.53	120.67	117.40
36	1	1894	U	N1-C2-N3	6.53	118.82	114.90
36	1	2249	G	OP1-P-OP2	-6.53	109.80	119.60
36	1	3132	C	C5-C6-N1	-6.53	117.73	121.00
85	5	289	A	N1-C2-N3	6.53	132.57	129.30
85	5	1836	C	N3-C2-O2	6.53	126.47	121.90
85	5	2618	G	N1-C6-O6	-6.53	115.98	119.90
1	2	319	U	O5'-P-OP1	-6.53	99.82	105.70
1	2	1229	C	N3-C4-N4	-6.53	113.43	118.00
36	1	393	U	C4-C5-C6	6.53	123.62	119.70
36	1	402	A	N9-C4-C5	6.53	108.41	105.80
36	1	792	G	N3-C4-N9	-6.53	122.08	126.00
36	1	1147	G	C8-N9-C4	6.53	109.01	106.40
36	1	1200	A	N9-C4-C5	6.53	108.41	105.80
36	1	1825	G	O5'-P-OP2	-6.53	99.82	105.70
36	1	2131	A	N1-C6-N6	6.53	122.52	118.60
36	1	2713	U	C2-N3-C4	-6.53	123.08	127.00
36	1	2830	G	N7-C8-N9	6.53	116.36	113.10
36	1	3391	A	N1-C2-N3	6.53	132.57	129.30
80	6	165	G	N3-C2-N2	-6.53	115.33	119.90
80	6	1739	C	N3-C4-C5	-6.53	119.29	121.90
85	5	416	A	C5-C6-N1	-6.53	114.44	117.70
85	5	798	G	O5'-P-OP2	-6.53	99.82	105.70
85	5	1759	C	N3-C2-O2	-6.53	117.33	121.90
85	5	1874	A	C6-C5-N7	-6.53	127.73	132.30
85	5	2565	U	N3-C2-O2	-6.53	117.63	122.20
37	7	46	A	C6-N1-C2	-6.53	114.68	118.60
37	7	54	U	C6-N1-C2	-6.53	117.08	121.00
36	1	1907	C	N1-C2-O2	6.53	122.82	118.90
36	1	2239	G	C4-C5-C6	-6.53	114.88	118.80
36	1	2377	G	C5-C6-N1	6.53	114.76	111.50
80	6	688	G	C5-C6-O6	6.53	132.52	128.60
85	5	290	G	N7-C8-N9	-6.53	109.84	113.10
85	5	698	U	N3-C4-O4	6.53	123.97	119.40
85	5	905	U	N1-C2-N3	6.53	118.82	114.90
85	5	1194	G	O5'-P-OP1	6.53	118.53	110.70
85	5	2359	C	N3-C2-O2	6.53	126.47	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	51	G	N1-C2-N3	6.53	127.82	123.90
1	2	104	A	O5'-P-OP1	6.53	118.53	110.70
1	2	407	A	C6-N1-C2	-6.53	114.68	118.60
1	2	1324	A	N1-C6-N6	-6.53	114.68	118.60
36	1	87	U	C4-C5-C6	6.53	123.62	119.70
36	1	148	G	C6-C5-N7	6.53	134.32	130.40
36	1	341	G	C5-C6-N1	-6.53	108.24	111.50
36	1	2293	C	C6-N1-C2	-6.53	117.69	120.30
36	1	2520	A	O5'-P-OP1	-6.53	99.83	105.70
36	1	2634	U	C5-C4-O4	-6.53	121.98	125.90
80	6	1	U	N3-C2-O2	-6.53	117.63	122.20
85	5	1407	A	C4-C5-C6	6.53	120.26	117.00
85	5	1576	G	OP1-P-OP2	-6.53	109.81	119.60
85	5	1768	U	C5-C4-O4	-6.53	121.98	125.90
85	5	3330	A	OP2-P-O3'	6.53	119.56	105.20
51	m5	113	LEU	CB-CG-CD1	-6.53	99.90	111.00
1	2	890	A	C8-N9-C4	-6.53	103.19	105.80
1	2	1411	G	N3-C4-N9	-6.53	122.08	126.00
36	1	497	C	O5'-P-OP1	6.53	118.53	110.70
36	1	585	A	C4-C5-C6	6.53	120.26	117.00
36	1	1648	A	C4-C5-N7	-6.53	107.44	110.70
36	1	2991	A	C5-N7-C8	-6.53	100.64	103.90
36	1	3109	G	C6-C5-N7	6.53	134.31	130.40
80	6	383	G	N1-C6-O6	6.53	123.81	119.90
80	6	475	A	OP1-P-OP2	6.53	129.39	119.60
80	6	587	C	C4-C5-C6	-6.53	114.14	117.40
85	5	352	A	C5-N7-C8	-6.53	100.64	103.90
85	5	1366	A	N9-C4-C5	6.53	108.41	105.80
85	5	1371	G	OP1-P-OP2	6.53	129.39	119.60
85	5	2647	A	C4-C5-N7	6.53	113.96	110.70
85	5	2951	G	N3-C2-N2	-6.53	115.33	119.90
37	7	13	A	C2-N3-C4	6.53	113.86	110.60
1	2	4	C	N3-C2-O2	6.52	126.47	121.90
1	2	109	G	C2-N3-C4	-6.52	108.64	111.90
36	1	681	U	C5-C6-N1	-6.52	119.44	122.70
36	1	1666	G	C5-N7-C8	-6.52	101.04	104.30
36	1	2349	U	N3-C4-O4	-6.52	114.83	119.40
80	6	348	U	N3-C4-C5	-6.52	110.69	114.60
80	6	971	A	C5-C6-N1	6.52	120.96	117.70
85	5	192	C	C6-N1-C2	-6.52	117.69	120.30
85	5	561	C	N1-C2-N3	6.52	123.77	119.20
85	5	858	A	N9-C4-C5	-6.52	103.19	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2971	A	O4'-C1'-N9	6.52	113.42	108.20
85	5	3191	G	C4-C5-C6	6.52	122.71	118.80
37	7	59	U	N3-C4-O4	6.52	123.97	119.40
1	2	6	G	OP1-P-O3'	6.52	119.55	105.20
36	1	152	U	N3-C2-O2	-6.52	117.63	122.20
36	1	181	U	OP1-P-OP2	-6.52	109.82	119.60
36	1	557	A	N7-C8-N9	-6.52	110.54	113.80
36	1	677	A	N3-C4-C5	-6.52	122.23	126.80
36	1	681	U	C4-C5-C6	6.52	123.61	119.70
36	1	1098	A	C5-N7-C8	-6.52	100.64	103.90
36	1	1155	C	OP1-P-O3'	6.52	119.55	105.20
36	1	1386	A	C8-N9-C4	-6.52	103.19	105.80
36	1	2265	C	N3-C4-N4	6.52	122.57	118.00
36	1	2388	U	N1-C2-O2	-6.52	118.23	122.80
36	1	2620	G	OP1-P-OP2	-6.52	109.82	119.60
36	1	2964	G	O5'-P-OP1	-6.52	99.83	105.70
80	6	654	C	C5-C6-N1	6.52	124.26	121.00
80	6	821	U	N3-C2-O2	-6.52	117.64	122.20
85	5	40	A	C6-C5-N7	-6.52	127.73	132.30
85	5	330	G	C6-N1-C2	-6.52	121.19	125.10
85	5	391	A	C8-N9-C4	6.52	108.41	105.80
85	5	875	G	C5-C6-N1	6.52	114.76	111.50
85	5	905	U	C6-N1-C2	-6.52	117.09	121.00
85	5	1101	G	N1-C2-N3	6.52	127.81	123.90
85	5	1364	C	OP1-P-O3'	-6.52	90.85	105.20
85	5	2246	G	OP2-P-O3'	6.52	119.55	105.20
85	5	2831	G	N1-C6-O6	6.52	123.81	119.90
1	2	868	G	N3-C4-C5	6.52	131.86	128.60
1	2	1478	C	O5'-P-OP1	-6.52	99.83	105.70
36	1	76	G	C2-N3-C4	6.52	115.16	111.90
36	1	222	A	OP1-P-OP2	-6.52	109.82	119.60
36	1	1434	G	N1-C2-N2	6.52	122.07	116.20
80	6	1335	U	C5-C6-N1	-6.52	119.44	122.70
85	5	417	A	O4'-C1'-N9	-6.52	102.98	108.20
85	5	774	G	C6-C5-N7	-6.52	126.49	130.40
85	5	2192	C	C6-N1-C2	-6.52	117.69	120.30
85	5	2211	U	N1-C2-N3	6.52	118.81	114.90
85	5	2243	A	C4-C5-N7	-6.52	107.44	110.70
85	5	2292	U	C2-N1-C1'	6.52	125.53	117.70
85	5	3279	A	C8-N9-C4	-6.52	103.19	105.80
1	2	622	A	OP1-P-OP2	-6.52	109.82	119.60
1	2	1464	C	C5-C6-N1	6.52	124.26	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	94	G	C6-N1-C2	-6.52	121.19	125.10
36	1	966	U	N3-C4-O4	6.52	123.96	119.40
36	1	1292	C	C5-C4-N4	-6.52	115.64	120.20
36	1	1913	A	N3-C4-N9	6.52	132.62	127.40
36	1	2806	U	O5'-P-OP1	6.52	118.52	110.70
36	1	2929	C	O5'-P-OP1	-6.52	99.83	105.70
36	1	3101	G	C5-N7-C8	6.52	107.56	104.30
36	1	3322	A	N1-C6-N6	6.52	122.51	118.60
80	6	121	U	N3-C4-O4	-6.52	114.84	119.40
80	6	312	A	C4-C5-N7	6.52	113.96	110.70
80	6	898	A	C5-C6-N6	6.52	128.92	123.70
85	5	57	A	C6-N1-C2	6.52	122.51	118.60
85	5	68	C	O5'-P-OP1	6.52	118.52	110.70
85	5	1551	C	C5-C6-N1	-6.52	117.74	121.00
85	5	2912	G	N7-C8-N9	6.52	116.36	113.10
1	2	6	G	N1-C6-O6	-6.52	115.99	119.90
36	1	513	G	N1-C2-N3	6.52	127.81	123.90
36	1	711	A	C2-N3-C4	6.52	113.86	110.60
36	1	845	G	C5-N7-C8	6.52	107.56	104.30
36	1	2174	G	C4-C5-C6	6.52	122.71	118.80
36	1	2278	C	C5-C6-N1	6.52	124.26	121.00
36	1	2286	U	N3-C2-O2	-6.52	117.64	122.20
36	1	2427	U	O5'-P-OP1	6.52	118.52	110.70
36	1	2948	C	C6-N1-C2	6.52	122.91	120.30
37	3	87	G	N9-C4-C5	6.52	108.01	105.40
37	3	88	G	N3-C4-N9	6.52	129.91	126.00
85	5	87	U	O5'-P-OP2	-6.52	99.83	105.70
85	5	786	A	N7-C8-N9	6.52	117.06	113.80
85	5	864	G	C6-C5-N7	-6.52	126.49	130.40
85	5	2274	U	O5'-P-OP1	6.52	118.52	110.70
85	5	2610	G	C5-C6-N1	-6.52	108.24	111.50
85	5	2867	C	OP1-P-OP2	6.52	129.38	119.60
85	5	3048	A	N1-C6-N6	-6.52	114.69	118.60
38	8	140	G	N3-C4-N9	-6.52	122.09	126.00
36	1	3102	G	C4-N9-C1'	6.52	134.97	126.50
37	3	86	U	O5'-P-OP1	6.52	118.52	110.70
38	4	27	U	C2-N1-C1'	6.52	125.52	117.70
80	6	122	U	N3-C2-O2	6.52	126.76	122.20
80	6	595	G	N7-C8-N9	-6.52	109.84	113.10
80	6	1249	U	N3-C2-O2	6.52	126.76	122.20
85	5	237	G	N1-C2-N2	6.52	122.06	116.20
85	5	2708	C	N3-C4-C5	-6.52	119.29	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2807	U	N1-C2-N3	6.52	118.81	114.90
1	2	5	U	N3-C4-O4	6.51	123.96	119.40
1	2	709	C	C6-N1-C2	6.51	122.91	120.30
1	2	1614	A	N1-C2-N3	6.51	132.56	129.30
1	2	1721	U	N3-C4-C5	-6.51	110.69	114.60
36	1	149	U	N1-C2-N3	6.51	118.81	114.90
36	1	436	A	C5-C6-N6	-6.51	118.49	123.70
36	1	821	U	C5-C4-O4	6.51	129.81	125.90
36	1	884	A	N7-C8-N9	-6.51	110.54	113.80
36	1	924	G	C6-N1-C2	-6.51	121.19	125.10
36	1	948	C	OP1-P-O3'	-6.51	90.87	105.20
36	1	1730	G	N9-C4-C5	6.51	108.01	105.40
36	1	2125	A	O5'-P-OP2	-6.51	99.84	105.70
36	1	2208	A	C8-N9-C4	-6.51	103.19	105.80
36	1	3213	A	C6-N1-C2	-6.51	114.69	118.60
36	1	3342	A	C4-C5-N7	6.51	113.96	110.70
38	4	5	U	N3-C2-O2	6.51	126.76	122.20
80	6	451	A	OP1-P-OP2	-6.51	109.83	119.60
80	6	1100	G	C4-C5-N7	6.51	113.41	110.80
80	6	1761	U	C4-C5-C6	6.51	123.61	119.70
4	s2	169	LEU	CB-CG-CD2	-6.51	99.93	111.00
85	5	31	C	OP2-P-O3'	6.51	119.53	105.20
85	5	1879	A	N3-C4-C5	6.51	131.36	126.80
38	8	16	G	N1-C2-N3	6.51	127.81	123.90
36	1	43	A	N1-C6-N6	6.51	122.51	118.60
36	1	1343	A	N9-C4-C5	-6.51	103.19	105.80
36	1	1589	A	C5-C6-N6	6.51	128.91	123.70
36	1	1856	C	C5-C4-N4	-6.51	115.64	120.20
36	1	2773	C	OP1-P-OP2	6.51	129.37	119.60
80	6	94	U	N3-C4-O4	-6.51	114.84	119.40
80	6	784	C	N3-C4-N4	6.51	122.56	118.00
85	5	2636	A	N9-C4-C5	6.51	108.41	105.80
85	5	3126	C	C6-N1-C2	-6.51	117.69	120.30
1	2	320	U	N3-C2-O2	6.51	126.76	122.20
36	1	52	A	P-O3'-C3'	-6.51	111.89	119.70
36	1	406	G	C5-N7-C8	-6.51	101.04	104.30
36	1	817	A	C4-C5-C6	-6.51	113.75	117.00
36	1	1412	G	C4-C5-C6	6.51	122.71	118.80
36	1	1450	G	OP1-P-OP2	-6.51	109.83	119.60
37	3	51	A	C2-N3-C4	6.51	113.86	110.60
60	N4	25	ASP	CB-CG-OD1	6.51	124.16	118.30
85	5	845	G	C6-N1-C2	-6.51	121.19	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1129	A	C2-N3-C4	-6.51	107.34	110.60
85	5	2623	G	N3-C4-N9	6.51	129.91	126.00
85	5	2640	A	C5-N7-C8	-6.51	100.64	103.90
37	7	121	U	N3-C4-O4	6.51	123.96	119.40
1	2	347	G	C6-C5-N7	-6.51	126.49	130.40
1	2	395	U	OP1-P-OP2	6.51	129.36	119.60
36	1	265	A	OP1-P-OP2	-6.51	109.83	119.60
36	1	1139	G	C4-C5-C6	6.51	122.70	118.80
36	1	1207	G	C2-N3-C4	-6.51	108.65	111.90
36	1	1905	G	P-O3'-C3'	6.51	127.51	119.70
36	1	2773	C	C2-N3-C4	-6.51	116.65	119.90
36	1	2778	G	C6-C5-N7	-6.51	126.49	130.40
80	6	897	C	C5-C6-N1	-6.51	117.75	121.00
80	6	1715	G	C2-N3-C4	6.51	115.16	111.90
80	6	1745	G	O5'-P-OP2	-6.51	99.84	105.70
85	5	760	G	N3-C4-C5	6.51	131.85	128.60
85	5	1041	U	N1-C2-O2	-6.51	118.24	122.80
85	5	2152	A	C2-N3-C4	-6.51	107.34	110.60
85	5	2812	C	N1-C2-O2	-6.51	115.00	118.90
85	5	2852	C	N3-C4-N4	-6.51	113.44	118.00
85	5	2998	U	C6-N1-C2	6.51	124.91	121.00
37	7	93	C	C2-N3-C4	-6.51	116.65	119.90
36	1	48	A	OP2-P-O3'	6.51	119.52	105.20
36	1	2290	C	C5-C6-N1	-6.51	117.75	121.00
36	1	2929	C	N1-C2-N3	6.51	123.76	119.20
36	1	3001	C	N1-C2-O2	-6.51	115.00	118.90
36	1	3017	A	C2-N3-C4	-6.51	107.35	110.60
80	6	57	G	O5'-P-OP2	-6.51	99.84	105.70
80	6	421	A	C5-C6-N6	-6.51	118.49	123.70
85	5	607	A	C5-C6-N1	-6.51	114.45	117.70
85	5	610	G	N3-C4-C5	-6.51	125.35	128.60
85	5	1904	C	C5-C6-N1	-6.51	117.75	121.00
85	5	2249	G	N3-C4-C5	-6.51	125.35	128.60
85	5	2703	A	C6-C5-N7	-6.51	127.74	132.30
1	2	93	A	C4-C5-C6	6.51	120.25	117.00
36	1	221	A	N1-C6-N6	-6.51	114.70	118.60
36	1	300	G	C2-N3-C4	-6.51	108.65	111.90
36	1	973	A	N1-C6-N6	-6.51	114.70	118.60
36	1	1107	C	C5-C6-N1	-6.51	117.75	121.00
36	1	1130	A	O5'-P-OP1	-6.51	99.84	105.70
36	1	1152	G	N1-C2-N3	6.51	127.80	123.90
36	1	1169	A	C4-C5-N7	-6.51	107.45	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2624	G	C5-C6-O6	-6.51	124.70	128.60
36	1	2687	G	OP1-P-OP2	6.51	129.36	119.60
36	1	3053	G	C5-C6-O6	6.51	132.50	128.60
36	1	3242	G	O5'-P-OP2	-6.51	99.84	105.70
36	1	3243	A	N9-C4-C5	6.51	108.40	105.80
38	4	49	G	C6-N1-C2	-6.51	121.20	125.10
80	6	418	G	C5-C6-N1	6.51	114.75	111.50
80	6	816	G	C4-C5-N7	6.51	113.40	110.80
80	6	1335	U	C5-C4-O4	6.51	129.80	125.90
80	6	1614	A	N9-C4-C5	-6.51	103.20	105.80
85	5	74	G	O5'-P-OP1	-6.51	99.84	105.70
85	5	686	G	N1-C6-O6	6.51	123.80	119.90
85	5	1197	A	OP1-P-OP2	-6.51	109.84	119.60
85	5	1926	C	OP1-P-OP2	6.51	129.36	119.60
85	5	2628	A	N3-C4-N9	-6.51	122.19	127.40
85	5	2675	C	N3-C4-C5	-6.51	119.30	121.90
85	5	2801	A	C5-C6-N6	-6.51	118.49	123.70
85	5	3279	A	C4-C5-N7	-6.51	107.45	110.70
40	l3	193	ASP	CB-CG-OD1	-6.51	112.44	118.30
66	o0	41	LEU	CA-CB-CG	6.51	130.26	115.30
1	2	164	A	N7-C8-N9	-6.50	110.55	113.80
36	1	761	A	N7-C8-N9	6.50	117.05	113.80
36	1	3358	U	N1-C2-O2	6.50	127.35	122.80
85	5	364	G	OP2-P-O3'	6.50	119.51	105.20
85	5	1487	G	C4-C5-N7	-6.50	108.20	110.80
85	5	1688	U	O4'-C1'-N1	6.50	113.40	108.20
85	5	3173	G	N1-C6-O6	-6.50	116.00	119.90
1	2	886	U	C2-N3-C4	6.50	130.90	127.00
36	1	395	A	N1-C6-N6	-6.50	114.70	118.60
36	1	606	C	C6-N1-C2	6.50	122.90	120.30
36	1	703	G	N1-C2-N3	6.50	127.80	123.90
36	1	1371	G	C4-C5-C6	6.50	122.70	118.80
36	1	2374	C	C6-N1-C2	-6.50	117.70	120.30
36	1	2905	U	N3-C2-O2	6.50	126.75	122.20
80	6	438	A	C6-N1-C2	-6.50	114.70	118.60
80	6	715	U	N3-C2-O2	-6.50	117.65	122.20
85	5	584	G	N1-C2-N3	6.50	127.80	123.90
85	5	1158	A	OP1-P-O3'	6.50	119.51	105.20
85	5	1345	G	N1-C2-N3	6.50	127.80	123.90
85	5	1898	G	C5-C6-N1	-6.50	108.25	111.50
85	5	3260	G	OP1-P-OP2	6.50	129.36	119.60
85	5	3382	U	C6-N1-C2	-6.50	117.10	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	103	G	C6-N1-C2	-6.50	121.20	125.10
36	1	1284	C	N3-C4-C5	-6.50	119.30	121.90
36	1	1507	G	OP2-P-O3'	6.50	119.50	105.20
36	1	1694	U	N3-C4-C5	6.50	118.50	114.60
36	1	2561	A	C4-C5-C6	-6.50	113.75	117.00
36	1	3041	U	N3-C2-O2	6.50	126.75	122.20
36	1	3288	G	C5-C6-O6	-6.50	124.70	128.60
38	4	112	U	N1-C2-N3	6.50	118.80	114.90
80	6	607	G	OP1-P-OP2	-6.50	109.85	119.60
80	6	628	G	C6-N1-C2	-6.50	121.20	125.10
80	6	1729	C	C4-C5-C6	6.50	120.65	117.40
85	5	98	G	N1-C6-O6	-6.50	116.00	119.90
85	5	786	A	N1-C2-N3	6.50	132.55	129.30
85	5	868	C	OP1-P-OP2	-6.50	109.85	119.60
85	5	925	A	C8-N9-C4	6.50	108.40	105.80
85	5	1103	A	C5-C6-N1	6.50	120.95	117.70
85	5	3031	G	N1-C2-N2	6.50	122.05	116.20
37	7	81	U	N3-C2-O2	-6.50	117.65	122.20
36	1	183	G	C5-C6-N1	6.50	114.75	111.50
36	1	887	G	N7-C8-N9	-6.50	109.85	113.10
36	1	2425	G	N1-C2-N2	-6.50	110.35	116.20
36	1	2943	G	C4-N9-C1'	6.50	134.95	126.50
85	5	2968	G	N7-C8-N9	-6.50	109.85	113.10
1	2	155	U	N1-C2-N3	-6.50	111.00	114.90
1	2	1123	G	OP1-P-O3'	6.50	119.50	105.20
36	1	117	U	C5-C6-N1	-6.50	119.45	122.70
36	1	434	U	C2-N3-C4	-6.50	123.10	127.00
36	1	517	G	N7-C8-N9	6.50	116.35	113.10
36	1	557	A	C6-C5-N7	6.50	136.85	132.30
36	1	636	C	C4-C5-C6	6.50	120.65	117.40
36	1	778	U	C4-C5-C6	6.50	123.60	119.70
36	1	1623	G	C6-N1-C2	-6.50	121.20	125.10
36	1	1797	A	N9-C4-C5	-6.50	103.20	105.80
36	1	2658	G	O4'-C1'-N9	-6.50	103.00	108.20
80	6	282	C	N3-C2-O2	6.50	126.45	121.90
85	5	56	G	C4-C5-N7	6.50	113.40	110.80
85	5	975	C	C5-C6-N1	6.50	124.25	121.00
85	5	1447	G	C8-N9-C4	6.50	109.00	106.40
85	5	2326	A	C6-C5-N7	6.50	136.85	132.30
85	5	2610	G	O5'-P-OP2	-6.50	99.85	105.70
36	1	537	A	C6-N1-C2	-6.50	114.70	118.60
36	1	2811	A	C4-C5-C6	6.50	120.25	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3334	U	N3-C2-O2	-6.50	117.65	122.20
37	3	34	C	C2-N3-C4	-6.50	116.65	119.90
80	6	415	C	C5-C6-N1	6.50	124.25	121.00
80	6	768	C	C2-N3-C4	-6.50	116.65	119.90
85	5	69	C	N3-C4-C5	-6.50	119.30	121.90
85	5	211	A	N1-C6-N6	-6.50	114.70	118.60
85	5	1140	G	N1-C6-O6	-6.50	116.00	119.90
85	5	1508	C	N3-C2-O2	-6.50	117.35	121.90
85	5	2519	A	C2-N3-C4	-6.50	107.35	110.60
85	5	2993	G	N3-C4-C5	-6.50	125.35	128.60
37	7	16	U	C4-C5-C6	6.50	123.60	119.70
38	8	70	G	C6-N1-C2	-6.50	121.20	125.10
1	2	634	G	C2-N3-C4	-6.50	108.65	111.90
36	1	380	U	OP1-P-OP2	-6.50	109.86	119.60
36	1	1194	G	N9-C4-C5	6.50	108.00	105.40
85	5	356	C	C5-C6-N1	-6.50	117.75	121.00
85	5	1672	U	N1-C2-O2	-6.50	118.25	122.80
85	5	2329	C	C5-C6-N1	-6.50	117.75	121.00
85	5	2723	U	N1-C2-O2	-6.50	118.25	122.80
37	7	9	C	C5-C6-N1	-6.50	117.75	121.00
1	2	6	G	N1-C2-N2	-6.49	110.36	116.20
1	2	1162	G	O5'-P-OP1	6.49	118.49	110.70
1	2	1246	G	C5-C6-N1	-6.49	108.25	111.50
36	1	119	U	N3-C2-O2	-6.49	117.66	122.20
36	1	2292	U	C6-N1-C2	-6.49	117.10	121.00
36	1	2395	G	C5-C6-O6	-6.49	124.70	128.60
36	1	2409	G	N9-C4-C5	6.49	108.00	105.40
38	4	18	U	C6-N1-C2	-6.49	117.10	121.00
80	6	1348	A	C4-C5-N7	6.49	113.95	110.70
85	5	101	G	N1-C2-N3	6.49	127.80	123.90
85	5	113	C	N3-C4-C5	6.49	124.50	121.90
85	5	150	A	C5-C6-N6	-6.49	118.51	123.70
85	5	678	G	O5'-P-OP1	-6.49	99.86	105.70
85	5	1016	C	N1-C2-N3	-6.49	114.65	119.20
85	5	1291	A	N7-C8-N9	-6.49	110.55	113.80
85	5	1355	A	N1-C6-N6	6.49	122.50	118.60
85	5	1449	A	O5'-P-OP1	6.49	118.49	110.70
85	5	1528	G	N1-C2-N2	-6.49	110.36	116.20
85	5	2194	G	N1-C2-N2	-6.49	110.36	116.20
85	5	2840	C	O5'-P-OP1	-6.49	99.86	105.70
85	5	3025	C	N1-C2-N3	6.49	123.75	119.20
1	2	1267	C	C6-N1-C2	6.49	122.90	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1113	G	N7-C8-N9	6.49	116.35	113.10
36	1	1341	U	OP1-P-O3'	-6.49	90.92	105.20
36	1	2397	A	N3-C4-C5	6.49	131.34	126.80
37	3	5	G	C5-N7-C8	6.49	107.55	104.30
38	4	105	A	C8-N9-C4	-6.49	103.20	105.80
80	6	1009	U	N1-C2-O2	-6.49	118.26	122.80
80	6	1180	C	C5-C6-N1	6.49	124.25	121.00
85	5	495	G	OP2-P-O3'	6.49	119.48	105.20
85	5	3240	C	C5-C4-N4	-6.49	115.66	120.20
38	8	58	G	O5'-P-OP2	6.49	118.49	110.70
43	l6	77	ARG	NE-CZ-NH1	6.49	123.55	120.30
55	m9	20	ARG	NE-CZ-NH2	-6.49	117.05	120.30
36	1	809	G	O5'-P-OP2	-6.49	99.86	105.70
36	1	1002	A	C2-N3-C4	-6.49	107.36	110.60
36	1	1256	G	N1-C6-O6	6.49	123.79	119.90
36	1	1316	C	O5'-P-OP2	-6.49	99.86	105.70
36	1	1847	A	C4-C5-N7	-6.49	107.45	110.70
36	1	2965	U	N1-C2-N3	6.49	118.80	114.90
80	6	1549	C	N3-C4-N4	6.49	122.54	118.00
85	5	976	U	N1-C2-N3	6.49	118.80	114.90
85	5	1080	A	N1-C6-N6	6.49	122.49	118.60
85	5	1143	A	N1-C6-N6	6.49	122.49	118.60
85	5	1441	G	C8-N9-C1'	6.49	135.44	127.00
85	5	1612	A	N1-C6-N6	6.49	122.49	118.60
85	5	1679	A	O5'-P-OP2	6.49	118.49	110.70
85	5	1757	A	C6-N1-C2	-6.49	114.71	118.60
85	5	2419	A	N7-C8-N9	6.49	117.05	113.80
85	5	3059	G	N1-C2-N2	-6.49	110.36	116.20
85	5	3099	C	O5'-P-OP2	-6.49	99.86	105.70
85	5	3347	A	N9-C4-C5	-6.49	103.20	105.80
37	7	116	C	N3-C4-C5	-6.49	119.30	121.90
38	8	97	A	C4-C5-N7	-6.49	107.45	110.70
1	2	528	U	C5-C6-N1	-6.49	119.46	122.70
1	2	1225	A	N9-C4-C5	6.49	108.40	105.80
36	1	15	C	O5'-P-OP1	6.49	118.49	110.70
36	1	16	A	C2-N3-C4	-6.49	107.36	110.60
36	1	2602	G	N1-C2-N2	-6.49	110.36	116.20
36	1	2847	A	C6-N1-C2	-6.49	114.71	118.60
80	6	539	G	C5-N7-C8	-6.49	101.06	104.30
80	6	1682	U	N3-C2-O2	6.49	126.74	122.20
80	6	1727	G	C5-N7-C8	6.49	107.54	104.30
85	5	9	U	C2-N1-C1'	-6.49	109.91	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	51	A	O5'-P-OP2	6.49	118.49	110.70
85	5	391	A	C6-C5-N7	6.49	136.84	132.30
85	5	843	A	C2-N3-C4	-6.49	107.36	110.60
85	5	941	G	N3-C4-C5	-6.49	125.36	128.60
85	5	970	A	N1-C2-N3	6.49	132.54	129.30
85	5	1898	G	C5-N7-C8	6.49	107.55	104.30
85	5	2777	G	C2-N3-C4	-6.49	108.66	111.90
85	5	3030	G	N3-C2-N2	-6.49	115.36	119.90
85	5	3216	G	OP1-P-OP2	6.49	129.33	119.60
1	2	4	C	C2-N3-C4	6.49	123.14	119.90
1	2	945	C	N3-C4-N4	6.49	122.54	118.00
36	1	1207	G	C6-C5-N7	-6.49	126.51	130.40
36	1	1429	G	C4-C5-C6	6.49	122.69	118.80
36	1	2844	C	N1-C2-O2	6.49	122.79	118.90
80	6	105	A	C4-C5-N7	6.49	113.94	110.70
85	5	89	A	C6-C5-N7	-6.49	127.76	132.30
85	5	991	G	OP1-P-OP2	-6.49	109.87	119.60
85	5	1592	G	C4-C5-C6	6.49	122.69	118.80
37	7	121	U	OP1-P-OP2	-6.49	109.87	119.60
36	1	204	A	N7-C8-N9	6.49	117.04	113.80
36	1	820	A	OP2-P-O3'	6.49	119.47	105.20
36	1	1788	C	N3-C2-O2	-6.49	117.36	121.90
36	1	2664	C	N1-C2-O2	6.49	122.79	118.90
36	1	2756	C	N1-C2-O2	6.49	122.79	118.90
36	1	2934	A	C4-C5-N7	-6.49	107.46	110.70
36	1	3106	A	C6-C5-N7	-6.49	127.76	132.30
36	1	3173	G	C2-N3-C4	6.49	115.14	111.90
37	3	77	G	C5-N7-C8	-6.49	101.06	104.30
37	3	88	G	N7-C8-N9	-6.49	109.86	113.10
38	4	19	C	N3-C4-C5	-6.49	119.31	121.90
38	4	117	C	N3-C4-C5	6.49	124.49	121.90
75	O9	5	LYS	CD-CE-NZ	6.49	126.62	111.70
80	6	289	U	N1-C2-N3	6.49	118.79	114.90
80	6	720	G	C5-C6-O6	6.49	132.49	128.60
80	6	1764	C	C5-C4-N4	-6.49	115.66	120.20
85	5	1655	G	OP1-P-OP2	6.49	129.33	119.60
38	8	72	A	C5-C6-N1	-6.49	114.46	117.70
56	n0	113	ARG	NE-CZ-NH1	-6.49	117.06	120.30
36	1	814	U	C2-N3-C4	6.48	130.89	127.00
36	1	1390	A	C5-C6-N1	-6.48	114.46	117.70
85	5	97	U	N3-C4-C5	-6.48	110.71	114.60
85	5	1762	C	OP1-P-O3'	-6.48	90.94	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2238	G	C5-C6-N1	-6.48	108.26	111.50
85	5	2818	U	N3-C2-O2	-6.48	117.66	122.20
85	5	3383	G	C2-N3-C4	-6.48	108.66	111.90
1	2	612	U	N3-C4-C5	6.48	118.49	114.60
1	2	837	U	C6-N1-C2	-6.48	117.11	121.00
36	1	587	U	O5'-P-OP1	6.48	118.48	110.70
36	1	2592	G	C2-N3-C4	-6.48	108.66	111.90
36	1	3074	G	N3-C4-C5	6.48	131.84	128.60
38	4	73	U	N1-C2-O2	6.48	127.34	122.80
38	4	97	A	C4-C5-C6	6.48	120.24	117.00
75	O9	30	ARG	NE-CZ-NH1	6.48	123.54	120.30
85	5	244	G	C4-C5-C6	-6.48	114.91	118.80
85	5	381	U	O5'-P-OP2	-6.48	99.86	105.70
85	5	1003	A	OP1-P-OP2	-6.48	109.88	119.60
85	5	1720	U	C4-C5-C6	6.48	123.59	119.70
85	5	1813	A	O5'-P-OP2	-6.48	99.87	105.70
85	5	2673	A	N7-C8-N9	-6.48	110.56	113.80
85	5	3172	A	N3-C4-N9	6.48	132.59	127.40
1	2	544	A	O5'-P-OP2	-6.48	99.87	105.70
1	2	635	A	N1-C6-N6	6.48	122.49	118.60
1	2	1633	U	N3-C2-O2	-6.48	117.66	122.20
36	1	131	C	C2-N3-C4	-6.48	116.66	119.90
36	1	1117	G	N1-C6-O6	-6.48	116.01	119.90
36	1	1167	U	N1-C2-O2	-6.48	118.26	122.80
36	1	1512	U	OP1-P-OP2	6.48	129.32	119.60
36	1	1656	A	C6-N1-C2	-6.48	114.71	118.60
36	1	1661	G	C6-C5-N7	-6.48	126.51	130.40
36	1	1887	A	N7-C8-N9	-6.48	110.56	113.80
36	1	2761	G	C5-N7-C8	6.48	107.54	104.30
36	1	2957	G	C5-C6-O6	6.48	132.49	128.60
38	4	45	C	N3-C4-C5	-6.48	119.31	121.90
80	6	914	G	N7-C8-N9	-6.48	109.86	113.10
85	5	978	G	N1-C2-N3	6.48	127.79	123.90
85	5	1017	C	N1-C2-N3	-6.48	114.66	119.20
85	5	1136	A	O5'-P-OP1	-6.48	99.87	105.70
85	5	2301	U	N1-C2-N3	6.48	118.79	114.90
85	5	3110	C	O5'-P-OP1	6.48	118.48	110.70
85	5	3147	G	C5-C6-O6	-6.48	124.71	128.60
85	5	3328	G	C6-N1-C2	-6.48	121.21	125.10
44	17	229	PHE	CB-CG-CD1	6.48	125.34	120.80
36	1	54	C	N3-C2-O2	6.48	126.44	121.90
36	1	1537	A	C4-C5-N7	6.48	113.94	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2304	C	OP1-P-O3'	6.48	119.45	105.20
37	3	101	G	C8-N9-C1'	-6.48	118.58	127.00
80	6	816	G	C5-C6-N1	6.48	114.74	111.50
80	6	1476	C	C6-N1-C2	-6.48	117.71	120.30
85	5	828	A	N1-C2-N3	6.48	132.54	129.30
38	8	56	G	C4-C5-C6	6.48	122.69	118.80
1	2	6	G	C8-N9-C4	-6.48	103.81	106.40
1	2	718	C	N1-C2-O2	-6.48	115.01	118.90
1	2	1561	U	N3-C2-O2	-6.48	117.67	122.20
36	1	771	A	C2-N3-C4	-6.48	107.36	110.60
36	1	909	G	C6-N1-C2	-6.48	121.21	125.10
36	1	1362	G	C4-C5-N7	6.48	113.39	110.80
36	1	1431	G	N9-C4-C5	6.48	107.99	105.40
36	1	2735	U	N1-C2-O2	6.48	127.33	122.80
36	1	2959	C	N3-C4-N4	6.48	122.53	118.00
36	1	3139	A	C5-C6-N6	-6.48	118.52	123.70
36	1	3201	C	N3-C4-C5	-6.48	119.31	121.90
36	1	3278	C	OP1-P-OP2	6.48	129.32	119.60
36	1	3290	G	C5-C6-O6	-6.48	124.71	128.60
80	6	1081	A	N7-C8-N9	6.48	117.04	113.80
80	6	1597	A	C4-C5-N7	-6.48	107.46	110.70
85	5	660	A	OP1-P-O3'	6.48	119.45	105.20
85	5	734	C	C5-C4-N4	-6.48	115.67	120.20
85	5	1379	G	C8-N9-C1'	-6.48	118.58	127.00
85	5	2603	G	OP1-P-O3'	6.48	119.45	105.20
1	2	1642	A	C5-N7-C8	-6.48	100.66	103.90
36	1	1780	G	N3-C2-N2	-6.48	115.37	119.90
38	4	123	G	C5-N7-C8	-6.48	101.06	104.30
80	6	360	A	O5'-P-OP2	-6.48	99.87	105.70
80	6	1029	U	C6-N1-C2	-6.48	117.11	121.00
1	2	748	G	N3-C4-N9	6.47	129.88	126.00
1	2	1003	A	C5-C6-N6	6.47	128.88	123.70
36	1	187	A	N9-C4-C5	6.47	108.39	105.80
36	1	941	G	C6-C5-N7	-6.47	126.52	130.40
36	1	943	U	OP1-P-OP2	6.47	129.31	119.60
36	1	2095	G	N3-C2-N2	6.47	124.43	119.90
36	1	2267	C	C6-N1-C2	-6.47	117.71	120.30
36	1	2345	A	C6-C5-N7	-6.47	127.77	132.30
36	1	2933	A	N1-C6-N6	-6.47	114.72	118.60
36	1	3033	A	N1-C2-N3	6.47	132.54	129.30
36	1	3323	A	C2-N3-C4	-6.47	107.36	110.60
80	6	1299	G	C5-C6-N1	-6.47	108.26	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	110	G	N7-C8-N9	-6.47	109.86	113.10
85	5	231	G	C6-C5-N7	-6.47	126.52	130.40
85	5	957	C	C2-N1-C1'	6.47	125.92	118.80
85	5	1114	U	C4-C5-C6	6.47	123.58	119.70
85	5	1373	A	C4-C5-N7	6.47	113.94	110.70
85	5	1883	A	O5'-P-OP2	6.47	118.47	110.70
85	5	2271	A	OP2-P-O3'	6.47	119.44	105.20
85	5	2958	A	C6-C5-N7	-6.47	127.77	132.30
85	5	3126	C	N1-C2-O2	6.47	122.78	118.90
85	5	3167	A	N1-C2-N3	6.47	132.54	129.30
1	2	563	U	C2-N3-C4	-6.47	123.12	127.00
1	2	1148	G	N9-C4-C5	-6.47	102.81	105.40
36	1	248	U	N1-C2-N3	-6.47	111.02	114.90
36	1	784	A	N3-C4-C5	-6.47	122.27	126.80
36	1	1008	U	OP2-P-O3'	6.47	119.44	105.20
36	1	1138	U	C2-N3-C4	-6.47	123.12	127.00
36	1	1475	A	C6-N1-C2	-6.47	114.72	118.60
36	1	1695	U	N3-C4-O4	-6.47	114.87	119.40
36	1	1724	U	C5-C4-O4	-6.47	122.02	125.90
36	1	1823	A	C6-C5-N7	-6.47	127.77	132.30
36	1	2408	U	N3-C4-O4	6.47	123.93	119.40
37	3	102	A	O4'-C1'-N9	-6.47	103.02	108.20
80	6	299	A	C6-N1-C2	6.47	122.48	118.60
80	6	1065	A	OP1-P-OP2	-6.47	109.89	119.60
80	6	1455	G	N3-C4-N9	-6.47	122.12	126.00
85	5	354	U	O4'-C1'-N1	-6.47	103.02	108.20
85	5	915	A	OP1-P-O3'	6.47	119.44	105.20
85	5	1513	G	C8-N9-C4	-6.47	103.81	106.40
85	5	2888	U	C6-N1-C1'	-6.47	112.14	121.20
85	5	3020	U	C5-C6-N1	6.47	125.94	122.70
1	2	459	G	C6-N1-C2	6.47	128.98	125.10
36	1	617	G	C4-C5-C6	6.47	122.68	118.80
36	1	2724	U	OP1-P-OP2	-6.47	109.89	119.60
80	6	962	C	C2-N3-C4	-6.47	116.66	119.90
80	6	1606	C	N3-C4-C5	-6.47	119.31	121.90
85	5	2725	U	OP1-P-OP2	-6.47	109.89	119.60
38	8	139	U	C5-C4-O4	6.47	129.78	125.90
1	2	1560	A	N7-C8-N9	6.47	117.03	113.80
36	1	27	C	C6-N1-C2	-6.47	117.71	120.30
36	1	49	A	C2-N3-C4	-6.47	107.36	110.60
36	1	1116	G	OP1-P-OP2	6.47	129.30	119.60
36	1	1414	G	OP1-P-O3'	6.47	119.43	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1598	G	C4-C5-N7	-6.47	108.21	110.80
36	1	1648	A	C8-N9-C4	6.47	108.39	105.80
37	3	19	C	O5'-P-OP2	-6.47	99.88	105.70
80	6	33	U	O5'-P-OP1	-6.47	99.88	105.70
85	5	1147	G	C8-N9-C4	-6.47	103.81	106.40
85	5	1514	G	N9-C4-C5	6.47	107.99	105.40
85	5	1780	G	C4-C5-N7	6.47	113.39	110.80
85	5	2153	U	N1-C2-O2	-6.47	118.27	122.80
85	5	3191	G	N1-C2-N2	-6.47	110.38	116.20
85	5	3200	G	N3-C4-C5	6.47	131.84	128.60
36	1	1071	U	N3-C4-C5	-6.47	110.72	114.60
36	1	3300	U	C2-N3-C4	-6.47	123.12	127.00
37	3	21	G	OP2-P-O3'	6.47	119.43	105.20
85	5	1361	U	N1-C2-N3	6.47	118.78	114.90
85	5	1526	U	C2-N1-C1'	6.47	125.46	117.70
85	5	2180	G	C5-C6-O6	-6.47	124.72	128.60
85	5	2240	G	OP1-P-OP2	-6.47	109.90	119.60
85	5	2276	G	C4-C5-N7	6.47	113.39	110.80
38	8	82	U	N3-C4-C5	-6.47	110.72	114.60
1	2	639	U	N1-C2-O2	6.47	127.33	122.80
1	2	988	A	N9-C4-C5	6.47	108.39	105.80
36	1	5	G	N1-C2-N2	6.47	122.02	116.20
36	1	14	U	OP1-P-O3'	6.47	119.43	105.20
36	1	14	U	O4'-C1'-N1	-6.47	103.03	108.20
36	1	33	G	C5-C6-O6	-6.47	124.72	128.60
36	1	763	G	C4-C5-N7	-6.47	108.21	110.80
36	1	862	U	N1-C2-N3	6.47	118.78	114.90
36	1	912	G	C4-N9-C1'	6.47	134.91	126.50
36	1	2961	G	OP1-P-O3'	6.47	119.43	105.20
64	N8	9	ARG	NE-CZ-NH1	-6.47	117.07	120.30
80	6	340	U	OP1-P-OP2	-6.47	109.90	119.60
80	6	1124	A	C5-C6-N1	6.47	120.93	117.70
85	5	341	G	N9-C4-C5	6.47	107.99	105.40
85	5	540	U	N3-C4-C5	-6.47	110.72	114.60
85	5	1829	G	N3-C4-C5	6.47	131.83	128.60
85	5	1881	A	N1-C2-N3	6.47	132.53	129.30
38	8	25	G	OP1-P-O3'	6.47	119.42	105.20
1	2	206	A	N9-C4-C5	-6.46	103.21	105.80
1	2	405	C	C5-C4-N4	-6.46	115.67	120.20
1	2	424	C	N1-C2-O2	6.46	122.78	118.90
1	2	703	G	P-O3'-C3'	6.46	127.46	119.70
36	1	115	A	C4-C5-N7	-6.46	107.47	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	519	A	N1-C2-N3	6.46	132.53	129.30
36	1	908	G	C5-C6-O6	-6.46	124.72	128.60
36	1	998	A	C4-C5-N7	6.46	113.93	110.70
36	1	1415	U	N1-C2-O2	-6.46	118.27	122.80
36	1	1597	C	N3-C4-C5	-6.46	119.31	121.90
36	1	3013	U	N3-C4-O4	-6.46	114.88	119.40
36	1	3050	U	N3-C4-C5	-6.46	110.72	114.60
80	6	1746	A	N1-C2-N3	6.46	132.53	129.30
85	5	2833	A	OP1-P-OP2	6.46	129.30	119.60
85	5	2962	U	C5-C6-N1	6.46	125.93	122.70
85	5	3120	C	O5'-P-OP1	-6.46	99.88	105.70
85	5	3167	A	P-O3'-C3'	6.46	127.46	119.70
85	5	3347	A	C5-N7-C8	6.46	107.13	103.90
1	2	931	G	C5-C6-N1	-6.46	108.27	111.50
1	2	1566	A	C4-C5-N7	-6.46	107.47	110.70
36	1	1379	G	OP1-P-O3'	-6.46	90.98	105.20
36	1	1716	U	P-O3'-C3'	6.46	127.45	119.70
36	1	1859	A	N7-C8-N9	-6.46	110.57	113.80
36	1	2923	U	N1-C2-N3	6.46	118.78	114.90
80	6	782	U	C5-C6-N1	-6.46	119.47	122.70
80	6	930	A	C8-N9-C4	6.46	108.39	105.80
80	6	1473	U	C5-C6-N1	6.46	125.93	122.70
85	5	10	C	C4-C5-C6	6.46	120.63	117.40
85	5	1778	G	N3-C2-N2	6.46	124.42	119.90
1	2	102	U	N3-C4-C5	-6.46	110.72	114.60
1	2	1527	U	C5-C4-O4	6.46	129.78	125.90
1	2	1595	U	O5'-P-OP1	-6.46	99.89	105.70
36	1	64	G	N1-C2-N3	6.46	127.78	123.90
36	1	202	G	N1-C6-O6	6.46	123.78	119.90
36	1	885	U	N3-C2-O2	-6.46	117.68	122.20
36	1	1486	G	N1-C6-O6	6.46	123.78	119.90
36	1	1928	G	C4-C5-N7	6.46	113.39	110.80
36	1	2317	A	O5'-P-OP1	6.46	118.45	110.70
36	1	3192	U	N3-C2-O2	6.46	126.72	122.20
37	3	8	G	C5-N7-C8	-6.46	101.07	104.30
49	M3	51	LEU	CB-CG-CD2	-6.46	100.02	111.00
80	6	761	G	C6-N1-C2	-6.46	121.22	125.10
80	6	1176	G	C5-C6-N1	6.46	114.73	111.50
85	5	161	G	OP2-P-O3'	6.46	119.42	105.20
85	5	643	U	C2-N1-C1'	6.46	125.45	117.70
85	5	970	A	C5-N7-C8	6.46	107.13	103.90
85	5	1942	U	N1-C2-N3	6.46	118.78	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2132	C	N1-C2-O2	-6.46	115.02	118.90
85	5	2205	U	C6-N1-C2	6.46	124.88	121.00
85	5	2392	C	C2-N3-C4	-6.46	116.67	119.90
85	5	2593	A	C6-N1-C2	-6.46	114.72	118.60
37	7	114	U	N3-C4-C5	-6.46	110.72	114.60
38	8	94	C	N1-C2-N3	6.46	123.72	119.20
1	2	711	U	N1-C2-O2	6.46	127.32	122.80
36	1	690	A	C6-C5-N7	6.46	136.82	132.30
36	1	1161	G	C8-N9-C4	-6.46	103.82	106.40
36	1	2169	G	N3-C2-N2	6.46	124.42	119.90
80	6	327	U	N3-C4-C5	-6.46	110.72	114.60
80	6	1676	U	N3-C4-C5	-6.46	110.72	114.60
85	5	107	A	C8-N9-C4	-6.46	103.22	105.80
85	5	843	A	N9-C4-C5	-6.46	103.22	105.80
85	5	934	G	C5-C6-N1	6.46	114.73	111.50
85	5	1053	A	C8-N9-C4	-6.46	103.22	105.80
85	5	2368	A	C5-C6-N6	6.46	128.87	123.70
85	5	2723	U	N1-C2-N3	6.46	118.78	114.90
85	5	2881	C	N3-C2-O2	6.46	126.42	121.90
85	5	2925	C	N3-C4-C5	6.46	124.48	121.90
38	8	97	A	OP1-P-OP2	-6.46	109.91	119.60
56	n0	13	ARG	NE-CZ-NH2	-6.46	117.07	120.30
36	1	46	U	OP2-P-O3'	6.46	119.41	105.20
36	1	159	A	C5-N7-C8	-6.46	100.67	103.90
36	1	552	G	N1-C6-O6	6.46	123.78	119.90
36	1	582	G	N3-C2-N2	-6.46	115.38	119.90
36	1	717	C	C5-C6-N1	-6.46	117.77	121.00
36	1	760	G	C2-N3-C4	-6.46	108.67	111.90
36	1	1035	G	C4-C5-N7	-6.46	108.22	110.80
36	1	1854	C	OP1-P-OP2	-6.46	109.91	119.60
36	1	1890	U	C5-C4-O4	-6.46	122.03	125.90
36	1	2404	A	C2-N3-C4	6.46	113.83	110.60
36	1	3177	G	N3-C2-N2	6.46	124.42	119.90
80	6	252	U	N3-C4-C5	-6.46	110.72	114.60
85	5	90	C	O5'-P-OP1	-6.46	99.89	105.70
85	5	337	G	C5-C6-O6	-6.46	124.72	128.60
85	5	552	G	C8-N9-C4	6.46	108.98	106.40
85	5	639	G	OP1-P-O3'	6.46	119.41	105.20
85	5	731	U	C4-C5-C6	6.46	123.58	119.70
85	5	734	C	C4-C5-C6	-6.46	114.17	117.40
85	5	789	A	N1-C2-N3	6.46	132.53	129.30
85	5	880	G	N9-C4-C5	6.46	107.98	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2354	C	OP1-P-O3'	6.46	119.41	105.20
54	m8	147	ARG	NE-CZ-NH1	-6.46	117.07	120.30
1	2	79	C	C2-N3-C4	-6.46	116.67	119.90
1	2	594	A	O5'-P-OP2	-6.46	99.89	105.70
36	1	308	A	O5'-P-OP1	6.46	118.45	110.70
36	1	1142	G	N3-C4-C5	-6.46	125.37	128.60
36	1	1200	A	C8-N9-C4	-6.46	103.22	105.80
36	1	1317	A	C5-C6-N1	6.46	120.93	117.70
36	1	3002	C	N1-C2-O2	6.46	122.77	118.90
80	6	85	A	C4-C5-C6	6.46	120.23	117.00
80	6	385	A	O5'-P-OP2	-6.46	99.89	105.70
80	6	884	A	C5-N7-C8	6.46	107.13	103.90
85	5	798	G	N3-C4-N9	-6.46	122.13	126.00
85	5	2217	U	C5-C4-O4	-6.46	122.03	125.90
85	5	2788	C	C6-N1-C2	6.46	122.88	120.30
85	5	2906	C	C5-C6-N1	-6.46	117.77	121.00
37	7	64	A	N7-C8-N9	-6.46	110.57	113.80
1	2	1022	A	C5-C6-N1	6.46	120.93	117.70
1	2	1542	A	C5-C6-N6	-6.46	118.54	123.70
1	2	1583	A	C5-N7-C8	-6.46	100.67	103.90
36	1	649	A	C5-N7-C8	-6.46	100.67	103.90
36	1	1140	G	C5-N7-C8	6.46	107.53	104.30
36	1	2837	A	C2-N3-C4	-6.46	107.37	110.60
36	1	3174	A	N1-C6-N6	6.46	122.47	118.60
38	4	83	C	C5-C6-N1	6.46	124.23	121.00
80	6	1402	G	N1-C6-O6	-6.46	116.03	119.90
24	d2	112	ASP	CB-CG-OD2	-6.46	112.49	118.30
85	5	12	A	C2-N3-C4	-6.46	107.37	110.60
85	5	524	U	C2-N3-C4	-6.46	123.13	127.00
85	5	1207	G	O5'-P-OP2	6.46	118.45	110.70
85	5	3147	G	C2-N3-C4	-6.46	108.67	111.90
1	2	25	C	N1-C2-O2	6.45	122.77	118.90
1	2	144	U	N1-C2-O2	6.45	127.32	122.80
1	2	1198	C	N3-C2-O2	-6.45	117.38	121.90
24	D2	28	ARG	NE-CZ-NH1	-6.45	117.07	120.30
36	1	1122	U	C4-C5-C6	6.45	123.57	119.70
36	1	1352	A	N9-C4-C5	-6.45	103.22	105.80
36	1	1687	U	N3-C2-O2	6.45	126.72	122.20
36	1	2660	G	C2-N3-C4	6.45	115.13	111.90
36	1	2768	U	N3-C2-O2	6.45	126.72	122.20
36	1	2801	A	OP1-P-OP2	6.45	129.28	119.60
37	3	109	G	C6-N1-C2	-6.45	121.23	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	268	C	O5'-P-OP2	-6.45	99.89	105.70
80	6	576	G	C5-N7-C8	-6.45	101.07	104.30
80	6	1154	G	C6-N1-C2	-6.45	121.23	125.10
80	6	1156	C	C5-C6-N1	6.45	124.23	121.00
80	6	1498	G	O4'-C1'-N9	6.45	113.36	108.20
85	5	293	C	C2-N3-C4	-6.45	116.67	119.90
85	5	629	U	N3-C4-C5	-6.45	110.73	114.60
85	5	1444	G	O4'-C1'-N9	-6.45	103.04	108.20
85	5	2417	U	N1-C2-N3	6.45	118.77	114.90
85	5	2540	A	N1-C6-N6	-6.45	114.73	118.60
36	1	1429	G	C8-N9-C1'	-6.45	118.61	127.00
37	3	21	G	C4-C5-N7	6.45	113.38	110.80
38	4	132	G	N1-C6-O6	-6.45	116.03	119.90
80	6	963	A	C5-C6-N1	6.45	120.93	117.70
80	6	1060	U	C5-C4-O4	6.45	129.77	125.90
80	6	1722	A	N1-C2-N3	6.45	132.53	129.30
85	5	201	A	C5-N7-C8	-6.45	100.67	103.90
85	5	411	U	OP1-P-OP2	-6.45	109.92	119.60
85	5	1443	G	C4-C5-C6	6.45	122.67	118.80
85	5	2668	U	N3-C4-C5	-6.45	110.73	114.60
85	5	2975	U	N3-C2-O2	-6.45	117.68	122.20
1	2	1101	G	C8-N9-C4	-6.45	103.82	106.40
1	2	1235	C	N3-C2-O2	-6.45	117.38	121.90
36	1	650	C	N3-C4-N4	6.45	122.52	118.00
36	1	668	G	O5'-P-OP1	6.45	118.44	110.70
36	1	3215	A	N1-C6-N6	-6.45	114.73	118.60
36	1	3364	C	N1-C2-O2	-6.45	115.03	118.90
37	3	75	G	N9-C4-C5	-6.45	102.82	105.40
37	3	97	A	C4-C5-C6	6.45	120.22	117.00
80	6	524	U	C4-C5-C6	6.45	123.57	119.70
80	6	1426	C	OP1-P-OP2	-6.45	109.92	119.60
85	5	1738	C	N1-C2-O2	-6.45	115.03	118.90
85	5	1922	A	C5-C6-N1	-6.45	114.47	117.70
37	7	121	U	C5-C6-N1	-6.45	119.47	122.70
1	2	83	G	N3-C4-C5	-6.45	125.38	128.60
1	2	659	G	C4-C5-N7	6.45	113.38	110.80
1	2	1068	G	N9-C4-C5	-6.45	102.82	105.40
1	2	1566	A	N1-C6-N6	-6.45	114.73	118.60
36	1	17	G	N1-C2-N2	6.45	122.00	116.20
36	1	345	G	C5-C6-N1	-6.45	108.28	111.50
36	1	573	C	N3-C2-O2	-6.45	117.39	121.90
36	1	673	U	O4'-C1'-N1	6.45	113.36	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1137	C	C5-C6-N1	-6.45	117.78	121.00
36	1	1142	G	N7-C8-N9	-6.45	109.88	113.10
36	1	2115	G	N3-C2-N2	-6.45	115.39	119.90
36	1	2172	A	C4-C5-N7	6.45	113.92	110.70
36	1	2209	U	C6-N1-C2	-6.45	117.13	121.00
36	1	2240	G	N9-C4-C5	-6.45	102.82	105.40
36	1	2354	C	N3-C4-C5	-6.45	119.32	121.90
38	4	36	G	N1-C2-N3	6.45	127.77	123.90
80	6	458	G	C5-C6-N1	-6.45	108.28	111.50
85	5	404	G	N1-C6-O6	6.45	123.77	119.90
85	5	590	G	C5-N7-C8	-6.45	101.08	104.30
85	5	594	U	C2-N3-C4	6.45	130.87	127.00
85	5	817	A	C6-N1-C2	-6.45	114.73	118.60
85	5	1602	A	OP2-P-O3'	6.45	119.39	105.20
85	5	1604	G	N3-C4-N9	6.45	129.87	126.00
85	5	2613	U	OP1-P-OP2	-6.45	109.93	119.60
85	5	2625	C	N3-C4-N4	6.45	122.51	118.00
37	7	79	A	C5-N7-C8	-6.45	100.67	103.90
1	2	670	G	C8-N9-C4	-6.45	103.82	106.40
36	1	883	A	C2-N3-C4	-6.45	107.38	110.60
36	1	1435	A	O4'-C1'-N9	6.45	113.36	108.20
36	1	2392	C	N3-C4-C5	-6.45	119.32	121.90
36	1	2934	A	C5-N7-C8	6.45	107.12	103.90
37	3	104	A	C5-C6-N1	-6.45	114.48	117.70
85	5	2847	A	C2-N3-C4	-6.45	107.38	110.60
1	2	414	C	N1-C2-N3	-6.45	114.69	119.20
36	1	1305	U	O5'-P-OP2	-6.45	99.90	105.70
36	1	1724	U	N1-C2-O2	-6.45	118.29	122.80
36	1	1825	G	C5-N7-C8	-6.45	101.08	104.30
36	1	2699	G	P-O3'-C3'	-6.45	111.97	119.70
36	1	3213	A	OP1-P-OP2	6.45	129.27	119.60
36	1	3370	A	C8-N9-C4	-6.45	103.22	105.80
38	4	112	U	N1-C2-O2	-6.45	118.29	122.80
80	6	555	A	N9-C4-C5	6.45	108.38	105.80
80	6	1128	C	N3-C2-O2	-6.45	117.39	121.90
85	5	642	U	O5'-P-OP2	-6.45	99.90	105.70
85	5	822	G	N1-C6-O6	6.45	123.77	119.90
85	5	1164	G	N1-C2-N3	-6.45	120.03	123.90
85	5	1363	A	C5-N7-C8	6.45	107.12	103.90
85	5	3010	U	N3-C4-O4	-6.45	114.89	119.40
1	2	356	G	C6-C5-N7	-6.44	126.53	130.40
1	2	1302	A	N7-C8-N9	6.44	117.02	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1787	A	OP1-P-OP2	-6.44	109.93	119.60
37	3	109	G	C5-N7-C8	-6.44	101.08	104.30
85	5	398	A	OP2-P-O3'	6.44	119.38	105.20
85	5	656	A	N1-C2-N3	6.44	132.52	129.30
85	5	2392	C	C6-N1-C2	6.44	122.88	120.30
85	5	3366	G	N3-C4-C5	-6.44	125.38	128.60
1	2	1040	U	N1-C2-N3	-6.44	111.03	114.90
1	2	1550	U	N3-C2-O2	-6.44	117.69	122.20
1	2	1709	G	N1-C6-O6	-6.44	116.03	119.90
36	1	781	G	C8-N9-C4	-6.44	103.82	106.40
36	1	1710	C	C2-N1-C1'	6.44	125.89	118.80
36	1	2181	C	C4-C5-C6	-6.44	114.18	117.40
36	1	2314	U	C2-N1-C1'	6.44	125.43	117.70
36	1	2648	G	C8-N9-C4	-6.44	103.82	106.40
80	6	411	C	N3-C4-C5	6.44	124.48	121.90
80	6	441	A	C5-C6-N1	-6.44	114.48	117.70
80	6	1381	U	N1-C2-O2	6.44	127.31	122.80
80	6	1550	A	C6-C5-N7	-6.44	127.79	132.30
85	5	494	G	N1-C6-O6	6.44	123.77	119.90
85	5	1166	G	N1-C2-N2	-6.44	110.40	116.20
85	5	1452	A	C5-C6-N6	-6.44	118.55	123.70
85	5	1523	U	C2-N3-C4	6.44	130.87	127.00
85	5	2117	A	C8-N9-C4	-6.44	103.22	105.80
85	5	2623	G	C5-C6-O6	-6.44	124.73	128.60
85	5	2745	G	C4-C5-C6	6.44	122.67	118.80
85	5	3196	U	C4-C5-C6	-6.44	115.83	119.70
85	5	3309	G	N3-C4-C5	-6.44	125.38	128.60
38	8	55	U	N1-C2-N3	-6.44	111.03	114.90
1	2	1100	U	C5-C4-O4	-6.44	122.04	125.90
36	1	61	A	C2-N3-C4	-6.44	107.38	110.60
36	1	511	G	OP1-P-OP2	6.44	129.26	119.60
36	1	787	G	N7-C8-N9	6.44	116.32	113.10
36	1	1037	C	C6-N1-C2	-6.44	117.72	120.30
36	1	1400	G	C5-C6-O6	6.44	132.47	128.60
36	1	1462	A	C4-C5-C6	6.44	120.22	117.00
36	1	2383	C	C5-C6-N1	6.44	124.22	121.00
36	1	2619	G	OP1-P-O3'	6.44	119.37	105.20
80	6	1174	C	C6-N1-C2	-6.44	117.72	120.30
80	6	1415	U	C2-N3-C4	6.44	130.86	127.00
85	5	1332	A	C5-C6-N6	6.44	128.85	123.70
85	5	1455	U	N3-C4-C5	6.44	118.46	114.60
85	5	1814	A	N1-C6-N6	-6.44	114.74	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2234	G	C4-C5-N7	6.44	113.38	110.80
85	5	2275	A	N7-C8-N9	6.44	117.02	113.80
62	n6	115	ARG	NE-CZ-NH2	6.44	123.52	120.30
36	1	608	A	O5'-P-OP2	6.44	118.43	110.70
36	1	1535	A	C2-N3-C4	-6.44	107.38	110.60
36	1	2375	G	C2-N3-C4	6.44	115.12	111.90
36	1	3092	C	N3-C4-N4	6.44	122.51	118.00
80	6	256	A	N7-C8-N9	6.44	117.02	113.80
80	6	518	A	C5-C6-N6	6.44	128.85	123.70
85	5	1607	U	C5-C6-N1	6.44	125.92	122.70
85	5	2270	A	N1-C6-N6	6.44	122.46	118.60
1	2	16	G	C2-N3-C4	6.44	115.12	111.90
1	2	1810	A	C8-N9-C4	-6.44	103.22	105.80
36	1	231	G	C8-N9-C4	-6.44	103.83	106.40
36	1	511	G	N1-C2-N2	6.44	121.99	116.20
36	1	1406	A	N7-C8-N9	6.44	117.02	113.80
36	1	1510	G	N9-C4-C5	-6.44	102.83	105.40
36	1	2863	G	C5-N7-C8	-6.44	101.08	104.30
36	1	3219	G	N1-C6-O6	6.44	123.76	119.90
37	3	65	G	C5-C6-O6	6.44	132.46	128.60
80	6	535	A	N1-C6-N6	6.44	122.46	118.60
80	6	1107	G	C6-C5-N7	-6.44	126.54	130.40
80	6	1304	G	C5-N7-C8	6.44	107.52	104.30
80	6	1436	A	C8-N9-C4	-6.44	103.22	105.80
85	5	90	C	C4-C5-C6	6.44	120.62	117.40
85	5	327	A	C4-C5-N7	6.44	113.92	110.70
85	5	373	A	N1-C2-N3	6.44	132.52	129.30
85	5	1086	C	N3-C4-N4	6.44	122.51	118.00
85	5	1259	A	C8-N9-C4	-6.44	103.22	105.80
85	5	1314	C	C2-N1-C1'	6.44	125.88	118.80
85	5	1801	U	OP2-P-O3'	6.44	119.36	105.20
85	5	1838	G	O5'-P-OP1	6.44	118.43	110.70
85	5	2847	A	N9-C4-C5	-6.44	103.22	105.80
38	8	154	C	C5-C4-N4	6.44	124.71	120.20
1	2	362	G	N3-C4-C5	6.44	131.82	128.60
1	2	1367	A	N7-C8-N9	-6.44	110.58	113.80
36	1	724	U	N1-C2-O2	-6.44	118.30	122.80
36	1	756	U	C5-C6-N1	-6.44	119.48	122.70
36	1	2173	U	C6-N1-C1'	6.44	130.21	121.20
38	4	79	A	C6-N1-C2	6.44	122.46	118.60
52	M6	156	LEU	CB-CG-CD2	-6.44	100.06	111.00
85	5	325	A	O5'-P-OP2	-6.44	99.91	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	582	G	C5-N7-C8	-6.44	101.08	104.30
85	5	1837	U	C6-N1-C2	-6.44	117.14	121.00
85	5	1896	A	C6-N1-C2	-6.44	114.74	118.60
85	5	3393	U	C6-N1-C2	-6.44	117.14	121.00
1	2	145	A	N9-C4-C5	6.43	108.37	105.80
1	2	936	G	N1-C2-N2	-6.43	110.41	116.20
36	1	343	U	N3-C2-O2	-6.43	117.69	122.20
36	1	659	G	C2-N3-C4	6.43	115.12	111.90
36	1	1181	U	N1-C2-N3	6.43	118.76	114.90
36	1	1427	U	N3-C4-O4	6.43	123.90	119.40
36	1	1774	C	N3-C2-O2	-6.43	117.40	121.90
36	1	2832	C	N3-C4-C5	6.43	124.47	121.90
36	1	3337	G	C6-N1-C2	-6.43	121.24	125.10
80	6	146	U	N3-C4-O4	6.43	123.90	119.40
80	6	164	A	N9-C4-C5	6.43	108.37	105.80
80	6	1421	A	C5-C6-N1	-6.43	114.48	117.70
85	5	440	A	C5-C6-N1	-6.43	114.48	117.70
85	5	763	G	N1-C2-N3	6.43	127.76	123.90
85	5	803	C	C2-N3-C4	6.43	123.12	119.90
85	5	927	C	C5-C6-N1	6.43	124.22	121.00
85	5	1163	A	N1-C2-N3	6.43	132.52	129.30
85	5	1778	G	N9-C4-C5	-6.43	102.83	105.40
85	5	2273	G	C4-C5-C6	6.43	122.66	118.80
85	5	2846	U	OP1-P-OP2	-6.43	109.95	119.60
85	5	3011	A	N9-C4-C5	-6.43	103.23	105.80
85	5	3013	U	N3-C4-C5	-6.43	110.74	114.60
85	5	3100	U	C5-C6-N1	6.43	125.92	122.70
85	5	3175	U	C6-N1-C2	-6.43	117.14	121.00
38	8	135	G	C6-C5-N7	6.43	134.26	130.40
36	1	179	C	N3-C4-C5	6.43	124.47	121.90
36	1	680	G	O5'-P-OP1	-6.43	99.91	105.70
36	1	1298	C	C6-N1-C2	6.43	122.87	120.30
36	1	1818	U	C5-C6-N1	6.43	125.92	122.70
36	1	2828	G	C4-N9-C1'	6.43	134.86	126.50
80	6	1079	U	OP1-P-OP2	6.43	129.25	119.60
80	6	1671	A	C8-N9-C4	6.43	108.37	105.80
85	5	598	A	C5-C6-N6	-6.43	118.55	123.70
85	5	856	G	N3-C4-N9	6.43	129.86	126.00
85	5	1383	G	C4-C5-N7	-6.43	108.23	110.80
85	5	2761	G	N1-C2-N2	-6.43	110.41	116.20
1	2	733	U	N3-C2-O2	-6.43	117.70	122.20
1	2	1560	A	C8-N9-C4	-6.43	103.23	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	320	G	C5-C6-N1	6.43	114.72	111.50
36	1	1332	A	OP2-P-O3'	6.43	119.35	105.20
36	1	2232	A	N1-C2-N3	6.43	132.51	129.30
80	6	317	C	N3-C4-C5	-6.43	119.33	121.90
1	2	1284	U	OP1-P-O3'	6.43	119.34	105.20
1	2	1461	G	N7-C8-N9	6.43	116.31	113.10
36	1	821	U	C2-N1-C1'	-6.43	109.98	117.70
36	1	1936	A	C6-N1-C2	-6.43	114.74	118.60
36	1	2227	C	N1-C2-N3	6.43	123.70	119.20
36	1	2417	U	O5'-P-OP1	6.43	118.42	110.70
36	1	2816	G	C8-N9-C4	6.43	108.97	106.40
36	1	2941	A	N7-C8-N9	6.43	117.02	113.80
36	1	2996	U	O5'-P-OP2	-6.43	99.91	105.70
38	4	44	A	N1-C2-N3	6.43	132.51	129.30
80	6	503	G	C8-N9-C4	-6.43	103.83	106.40
85	5	108	A	O5'-P-OP1	6.43	118.41	110.70
85	5	1081	U	C5-C6-N1	6.43	125.92	122.70
85	5	1114	U	C6-N1-C2	-6.43	117.14	121.00
85	5	1474	A	N7-C8-N9	6.43	117.02	113.80
85	5	1941	C	C5-C4-N4	-6.43	115.70	120.20
85	5	2250	G	N3-C4-C5	6.43	131.81	128.60
85	5	2625	C	C5-C4-N4	-6.43	115.70	120.20
85	5	3127	A	N7-C8-N9	6.43	117.02	113.80
36	1	234	G	N1-C6-O6	6.43	123.76	119.90
36	1	348	A	O5'-P-OP2	-6.43	99.92	105.70
36	1	1525	G	O5'-P-OP2	-6.43	99.91	105.70
36	1	2812	C	N3-C2-O2	6.43	126.40	121.90
38	4	10	A	C6-N1-C2	-6.43	114.74	118.60
80	6	297	U	C2-N3-C4	6.43	130.86	127.00
80	6	541	A	P-O3'-C3'	-6.43	111.99	119.70
85	5	1129	A	N1-C2-N3	6.43	132.51	129.30
85	5	1374	G	O5'-P-OP1	6.43	118.41	110.70
85	5	2800	G	C5-C6-O6	6.43	132.46	128.60
42	l5	107	ARG	NE-CZ-NH1	6.43	123.51	120.30
1	2	737	A	C5-C6-N6	6.43	128.84	123.70
36	1	379	C	C2-N3-C4	-6.43	116.69	119.90
36	1	496	C	OP1-P-OP2	-6.43	109.96	119.60
36	1	750	G	C4-C5-N7	-6.43	108.23	110.80
36	1	1060	U	N3-C2-O2	6.43	126.70	122.20
36	1	1525	G	N9-C4-C5	6.43	107.97	105.40
37	3	78	U	N1-C2-N3	-6.43	111.04	114.90
85	5	244	G	N1-C2-N2	-6.43	110.42	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	400	G	C4-C5-N7	6.43	113.37	110.80
85	5	1369	A	C5-C6-N6	6.43	128.84	123.70
85	5	1595	U	N1-C2-O2	-6.43	118.30	122.80
85	5	2274	U	N1-C2-N3	6.43	118.76	114.90
85	5	2868	U	C2-N1-C1'	6.43	125.41	117.70
85	5	2934	A	C5-C6-N1	6.43	120.91	117.70
85	5	2965	U	O5'-P-OP1	-6.43	99.92	105.70
1	2	440	U	N3-C2-O2	-6.42	117.70	122.20
1	2	1109	G	N1-C6-O6	-6.42	116.05	119.90
36	1	1041	U	C2-N3-C4	-6.42	123.14	127.00
36	1	1176	C	O5'-P-OP1	6.42	118.41	110.70
36	1	1228	C	C6-N1-C2	-6.42	117.73	120.30
36	1	1820	U	C5-C6-N1	-6.42	119.49	122.70
36	1	3093	C	OP1-P-OP2	-6.42	109.96	119.60
36	1	3275	U	N3-C2-O2	6.42	126.70	122.20
38	4	128	U	O5'-P-OP2	-6.42	99.92	105.70
80	6	7	G	N7-C8-N9	6.42	116.31	113.10
80	6	347	G	N3-C2-N2	-6.42	115.40	119.90
80	6	352	A	OP2-P-O3'	6.42	119.33	105.20
80	6	544	A	C5-C6-N1	6.42	120.91	117.70
80	6	903	U	O5'-P-OP2	-6.42	99.92	105.70
80	6	1129	U	C2-N3-C4	6.42	130.85	127.00
85	5	419	G	N3-C2-N2	6.42	124.40	119.90
85	5	1530	U	O5'-P-OP2	-6.42	99.92	105.70
85	5	1769	G	N1-C6-O6	6.42	123.75	119.90
85	5	2324	A	C5-C6-N6	-6.42	118.56	123.70
85	5	2648	G	N3-C4-N9	-6.42	122.15	126.00
85	5	2807	U	N1-C2-O2	-6.42	118.30	122.80
68	o2	125	ARG	NE-CZ-NH2	6.42	123.51	120.30
36	1	1475	A	N1-C2-N3	6.42	132.51	129.30
36	1	1846	C	C5-C6-N1	6.42	124.21	121.00
36	1	1902	G	C4-C5-N7	6.42	113.37	110.80
36	1	1913	A	N3-C4-C5	-6.42	122.30	126.80
36	1	2741	C	N1-C2-O2	-6.42	115.05	118.90
36	1	2889	C	N3-C4-N4	-6.42	113.50	118.00
36	1	3058	U	C5-C4-O4	6.42	129.75	125.90
80	6	1016	C	N3-C4-N4	6.42	122.50	118.00
80	6	1105	C	N1-C2-O2	-6.42	115.05	118.90
85	5	106	A	C5-C6-N1	6.42	120.91	117.70
85	5	303	G	N7-C8-N9	6.42	116.31	113.10
85	5	736	A	C6-N1-C2	6.42	122.45	118.60
1	2	907	A	C5-C6-N1	6.42	120.91	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	283	G	O5'-P-OP1	6.42	118.41	110.70
36	1	1619	A	C5-C6-N1	-6.42	114.49	117.70
36	1	2312	A	OP2-P-O3'	6.42	119.33	105.20
36	1	2714	G	C2-N3-C4	-6.42	108.69	111.90
36	1	2829	U	N3-C4-O4	6.42	123.89	119.40
80	6	32	U	C2-N1-C1'	6.42	125.41	117.70
80	6	1002	G	OP1-P-OP2	-6.42	109.97	119.60
80	6	1604	U	C5-C6-N1	6.42	125.91	122.70
80	6	1656	U	C5-C4-O4	-6.42	122.05	125.90
85	5	394	G	N3-C4-N9	-6.42	122.15	126.00
85	5	906	A	N1-C2-N3	6.42	132.51	129.30
85	5	1104	G	N1-C6-O6	-6.42	116.05	119.90
85	5	1116	G	N3-C2-N2	6.42	124.40	119.90
85	5	1541	G	N1-C2-N2	6.42	121.98	116.20
37	7	23	A	N3-C4-C5	-6.42	122.30	126.80
36	1	894	G	N7-C8-N9	6.42	116.31	113.10
36	1	1435	A	N1-C6-N6	-6.42	114.75	118.60
36	1	2720	G	C5-N7-C8	-6.42	101.09	104.30
36	1	2933	A	OP1-P-OP2	6.42	129.23	119.60
36	1	2955	U	C2-N3-C4	-6.42	123.15	127.00
36	1	3344	A	N1-C6-N6	6.42	122.45	118.60
38	4	16	G	N3-C4-C5	-6.42	125.39	128.60
85	5	1711	C	OP2-P-O3'	6.42	119.32	105.20
85	5	2911	A	C5-N7-C8	-6.42	100.69	103.90
1	2	165	G	C4-C5-C6	6.42	122.65	118.80
1	2	230	C	N1-C2-O2	6.42	122.75	118.90
1	2	1020	C	N3-C4-C5	-6.42	119.33	121.90
36	1	507	U	C2-N3-C4	6.42	130.85	127.00
36	1	625	G	C6-C5-N7	6.42	134.25	130.40
36	1	961	C	N1-C2-N3	6.42	123.69	119.20
36	1	1125	U	N3-C2-O2	-6.42	117.71	122.20
36	1	1780	G	C4-C5-N7	-6.42	108.23	110.80
36	1	2306	C	N3-C4-C5	6.42	124.47	121.90
36	1	2645	G	C5-C6-O6	6.42	132.45	128.60
36	1	3104	U	C6-N1-C2	6.42	124.85	121.00
38	4	28	C	C2-N1-C1'	6.42	125.86	118.80
80	6	119	A	C6-C5-N7	-6.42	127.81	132.30
80	6	419	G	N3-C4-C5	6.42	131.81	128.60
80	6	1196	A	C8-N9-C4	-6.42	103.23	105.80
85	5	660	A	N9-C4-C5	6.42	108.37	105.80
85	5	1934	G	N1-C2-N2	6.42	121.98	116.20
85	5	2554	A	C4-C5-C6	6.42	120.21	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2587	U	C5-C6-N1	6.42	125.91	122.70
85	5	2700	G	N9-C4-C5	-6.42	102.83	105.40
85	5	2730	G	N3-C4-C5	6.42	131.81	128.60
85	5	2838	A	C6-N1-C2	-6.42	114.75	118.60
85	5	3089	C	C5-C6-N1	6.42	124.21	121.00
37	7	46	A	C4-C5-C6	6.42	120.21	117.00
1	2	719	C	C2-N3-C4	6.42	123.11	119.90
1	2	1263	C	N3-C4-N4	6.42	122.49	118.00
1	2	1634	A	C2-N3-C4	-6.42	107.39	110.60
36	1	69	C	N3-C4-C5	-6.42	119.33	121.90
36	1	391	A	C5-N7-C8	6.42	107.11	103.90
36	1	438	A	C5-C6-N6	-6.42	118.57	123.70
36	1	776	U	N3-C2-O2	-6.42	117.71	122.20
36	1	811	U	C2-N3-C4	-6.42	123.15	127.00
36	1	925	A	N7-C8-N9	6.42	117.01	113.80
36	1	1557	A	C2-N3-C4	-6.42	107.39	110.60
36	1	2718	U	N3-C4-C5	6.42	118.45	114.60
36	1	3239	G	O5'-P-OP1	6.42	118.40	110.70
38	4	19	C	C4-C5-C6	6.42	120.61	117.40
38	4	65	A	C6-N1-C2	-6.42	114.75	118.60
80	6	331	A	N9-C4-C5	6.42	108.37	105.80
80	6	612	U	N1-C2-O2	6.42	127.29	122.80
80	6	978	A	N1-C2-N3	6.42	132.51	129.30
85	5	219	A	C8-N9-C4	6.42	108.37	105.80
85	5	542	G	N1-C2-N3	-6.42	120.05	123.90
85	5	763	G	C5-N7-C8	-6.42	101.09	104.30
85	5	1149	G	C5-C6-N1	6.42	114.71	111.50
85	5	1584	U	C4-C5-C6	-6.42	115.85	119.70
85	5	2192	C	C4-C5-C6	6.42	120.61	117.40
85	5	2620	G	C8-N9-C1'	6.42	135.34	127.00
85	5	2880	U	N3-C4-O4	-6.42	114.91	119.40
1	2	101	U	C5-C4-O4	-6.42	122.05	125.90
36	1	1086	C	N3-C4-C5	6.42	124.47	121.90
36	1	1732	U	N1-C2-O2	6.42	127.29	122.80
36	1	3121	U	N1-C2-O2	6.42	127.29	122.80
80	6	1040	G	C2-N3-C4	6.42	115.11	111.90
80	6	1755	A	OP2-P-O3'	6.42	119.31	105.20
85	5	1902	G	C8-N9-C4	-6.42	103.83	106.40
85	5	1947	G	N7-C8-N9	-6.42	109.89	113.10
85	5	2196	C	N3-C4-N4	-6.42	113.51	118.00
85	5	2219	A	C4-C5-C6	6.42	120.21	117.00
85	5	2304	C	C2-N3-C4	-6.42	116.69	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2978	U	O4'-C1'-N1	6.42	113.33	108.20
85	5	3016	A	OP2-P-O3'	6.42	119.31	105.20
1	2	3	U	OP1-P-OP2	6.41	129.22	119.60
1	2	1610	U	C6-N1-C2	-6.41	117.15	121.00
36	1	694	C	OP1-P-O3'	6.41	119.31	105.20
36	1	740	G	N1-C2-N2	-6.41	110.43	116.20
36	1	1664	G	C5-N7-C8	-6.41	101.09	104.30
36	1	1682	U	O5'-P-OP2	6.41	118.39	110.70
36	1	1733	G	OP1-P-OP2	6.41	129.22	119.60
36	1	3187	A	N3-C4-N9	6.41	132.53	127.40
36	1	3251	U	C6-N1-C2	6.41	124.85	121.00
80	6	543	C	C2-N3-C4	6.41	123.11	119.90
80	6	616	G	OP2-P-O3'	6.41	119.31	105.20
85	5	205	C	N3-C4-C5	6.41	124.47	121.90
85	5	303	G	C5-C6-N1	6.41	114.71	111.50
85	5	924	G	C5-C6-O6	6.41	132.45	128.60
85	5	1557	A	N7-C8-N9	6.41	117.01	113.80
85	5	1916	U	N3-C2-O2	6.41	126.69	122.20
85	5	2194	G	C6-N1-C2	-6.41	121.25	125.10
85	5	2591	A	N3-C4-C5	6.41	131.29	126.80
85	5	2635	A	C6-N1-C2	-6.41	114.75	118.60
85	5	3221	C	OP1-P-OP2	-6.41	109.98	119.60
85	5	3243	A	C6-C5-N7	-6.41	127.81	132.30
85	5	3344	A	C8-N9-C4	-6.41	103.23	105.80
36	1	1534	A	C4-C5-N7	6.41	113.91	110.70
36	1	2133	U	OP1-P-OP2	-6.41	109.98	119.60
37	3	40	C	N3-C4-C5	-6.41	119.33	121.90
85	5	352	A	C2-N3-C4	6.41	113.81	110.60
85	5	987	U	N1-C2-N3	6.41	118.75	114.90
85	5	1780	G	C5-C6-O6	-6.41	124.75	128.60
85	5	2205	U	N3-C4-C5	6.41	118.45	114.60
85	5	2441	A	C2-N3-C4	6.41	113.81	110.60
85	5	2596	U	OP2-P-O3'	6.41	119.31	105.20
62	n6	115	ARG	NE-CZ-NH1	-6.41	117.09	120.30
1	2	306	U	N3-C4-C5	-6.41	110.75	114.60
1	2	540	G	C5-C6-O6	-6.41	124.75	128.60
1	2	1126	A	C5-C6-N6	-6.41	118.57	123.70
36	1	106	A	N1-C2-N3	6.41	132.50	129.30
36	1	1383	G	C8-N9-C4	-6.41	103.84	106.40
36	1	2300	G	N3-C2-N2	-6.41	115.41	119.90
36	1	2634	U	O5'-P-OP1	6.41	118.39	110.70
36	1	2879	C	C4-C5-C6	-6.41	114.19	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	210	A	N1-C2-N3	6.41	132.51	129.30
80	6	1773	C	N3-C2-O2	6.41	126.39	121.90
85	5	412	G	N9-C4-C5	6.41	107.96	105.40
85	5	1330	A	C2-N3-C4	6.41	113.81	110.60
85	5	1729	A	C6-C5-N7	-6.41	127.81	132.30
85	5	1886	A	OP2-P-O3'	6.41	119.30	105.20
85	5	2232	A	N7-C8-N9	-6.41	110.59	113.80
85	5	2872	A	P-O3'-C3'	-6.41	112.01	119.70
85	5	2956	A	N3-C4-C5	6.41	131.29	126.80
85	5	2985	C	N3-C4-N4	-6.41	113.51	118.00
36	1	764	U	C5-C6-N1	6.41	125.90	122.70
36	1	1345	G	N7-C8-N9	6.41	116.31	113.10
36	1	1443	G	C2-N3-C4	-6.41	108.70	111.90
36	1	1948	G	C5-C6-N1	-6.41	108.30	111.50
36	1	2423	U	C5-C4-O4	6.41	129.75	125.90
36	1	2556	C	OP1-P-OP2	6.41	129.21	119.60
36	1	2818	U	N1-C2-O2	-6.41	118.31	122.80
36	1	3263	G	C5-C6-O6	6.41	132.44	128.60
80	6	1779	U	C5-C6-N1	-6.41	119.50	122.70
85	5	247	C	C6-N1-C2	-6.41	117.74	120.30
85	5	298	U	N3-C4-O4	-6.41	114.91	119.40
85	5	333	G	N1-C2-N2	-6.41	110.43	116.20
85	5	707	U	OP2-P-O3'	6.41	119.30	105.20
85	5	974	G	N7-C8-N9	6.41	116.31	113.10
85	5	1256	G	OP1-P-OP2	6.41	129.21	119.60
85	5	1438	U	C6-N1-C2	-6.41	117.16	121.00
85	5	1493	G	N3-C2-N2	-6.41	115.41	119.90
85	5	1661	G	N3-C4-C5	6.41	131.80	128.60
85	5	1681	U	C2-N1-C1'	-6.41	110.01	117.70
85	5	2259	A	C4-C5-C6	6.41	120.20	117.00
85	5	2288	G	OP1-P-OP2	-6.41	109.99	119.60
85	5	3229	G	N3-C2-N2	6.41	124.39	119.90
37	7	84	A	OP1-P-O3'	6.41	119.30	105.20
1	2	1628	G	N1-C2-N3	6.41	127.74	123.90
36	1	115	A	C5-N7-C8	6.41	107.10	103.90
36	1	611	A	N9-C4-C5	6.41	108.36	105.80
36	1	1367	G	C5-C6-N1	-6.41	108.30	111.50
36	1	1807	G	C5-C6-O6	-6.41	124.76	128.60
36	1	1860	G	OP1-P-OP2	-6.41	109.99	119.60
36	1	2874	G	C8-N9-C1'	-6.41	118.67	127.00
36	1	3310	A	OP1-P-OP2	6.41	129.21	119.60
80	6	760	A	C5-C6-N1	-6.41	114.50	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1047	G	N3-C4-C5	6.41	131.80	128.60
85	5	13	A	OP1-P-OP2	6.41	129.21	119.60
85	5	2396	G	N9-C4-C5	6.41	107.96	105.40
1	2	917	C	C2-N1-C1'	6.41	125.85	118.80
1	2	1755	C	C5-C4-N4	6.41	124.68	120.20
36	1	199	A	N7-C8-N9	6.41	117.00	113.80
36	1	313	A	C8-N9-C4	-6.41	103.24	105.80
36	1	407	A	N1-C6-N6	6.41	122.44	118.60
36	1	879	U	O5'-P-OP2	-6.41	99.94	105.70
36	1	1390	A	C4-C5-C6	6.41	120.20	117.00
36	1	1705	U	N1-C2-O2	6.41	127.28	122.80
80	6	69	G	N3-C2-N2	6.41	124.38	119.90
80	6	1041	G	O4'-C1'-N9	6.41	113.32	108.20
80	6	1523	G	N3-C4-C5	-6.41	125.40	128.60
80	6	1675	C	C5-C6-N1	6.41	124.20	121.00
85	5	1065	A	N7-C8-N9	-6.41	110.60	113.80
85	5	1292	C	C5-C4-N4	-6.41	115.72	120.20
1	2	1103	U	N3-C4-O4	-6.40	114.92	119.40
1	2	1244	G	C5-C6-O6	6.40	132.44	128.60
36	1	24	G	N1-C2-N2	-6.40	110.44	116.20
36	1	2365	C	C6-N1-C2	6.40	122.86	120.30
36	1	3034	C	N1-C2-O2	6.40	122.74	118.90
38	4	141	C	N1-C2-O2	6.40	122.74	118.90
85	5	2172	A	O5'-P-OP1	-6.40	99.94	105.70
85	5	3139	A	C6-N1-C2	-6.40	114.76	118.60
85	5	3213	A	N9-C4-C5	6.40	108.36	105.80
1	2	551	G	N7-C8-N9	6.40	116.30	113.10
1	2	603	U	N1-C2-O2	6.40	127.28	122.80
36	1	878	G	N9-C4-C5	6.40	107.96	105.40
36	1	2589	G	N7-C8-N9	6.40	116.30	113.10
36	1	2886	U	N1-C2-N3	6.40	118.74	114.90
36	1	3101	G	N9-C4-C5	6.40	107.96	105.40
80	6	1143	A	C6-C5-N7	6.40	136.78	132.30
80	6	1294	G	N3-C4-C5	6.40	131.80	128.60
85	5	367	A	C4-C5-N7	6.40	113.90	110.70
85	5	680	G	C4-C5-N7	6.40	113.36	110.80
85	5	998	A	C8-N9-C4	-6.40	103.24	105.80
85	5	1403	C	C6-N1-C2	6.40	122.86	120.30
85	5	1862	U	C5-C6-N1	6.40	125.90	122.70
85	5	3366	G	C8-N9-C4	-6.40	103.84	106.40
37	7	91	G	C8-N9-C1'	-6.40	118.68	127.00
1	2	226	A	N1-C6-N6	-6.40	114.76	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1267	C	C4-C5-C6	6.40	120.60	117.40
36	1	202	G	OP1-P-OP2	-6.40	110.00	119.60
36	1	338	A	N3-C4-N9	-6.40	122.28	127.40
36	1	850	U	OP2-P-O3'	6.40	119.28	105.20
36	1	2941	A	O5'-P-OP1	6.40	118.38	110.70
36	1	3241	G	C6-C5-N7	6.40	134.24	130.40
38	4	1	A	C6-C5-N7	-6.40	127.82	132.30
80	6	863	A	C5-N7-C8	-6.40	100.70	103.90
80	6	1115	U	C2-N1-C1'	-6.40	110.02	117.70
80	6	1584	G	C6-C5-N7	-6.40	126.56	130.40
85	5	217	U	C5-C4-O4	-6.40	122.06	125.90
85	5	1353	U	N3-C4-O4	-6.40	114.92	119.40
85	5	1353	U	O4'-C1'-N1	6.40	113.32	108.20
85	5	1431	G	C5-N7-C8	-6.40	101.10	104.30
85	5	1712	G	N7-C8-N9	6.40	116.30	113.10
85	5	1743	G	N9-C4-C5	6.40	107.96	105.40
85	5	2713	U	C4-C5-C6	-6.40	115.86	119.70
85	5	2832	C	OP1-P-OP2	-6.40	110.00	119.60
85	5	2841	G	N7-C8-N9	-6.40	109.90	113.10
85	5	3135	U	C5-C6-N1	-6.40	119.50	122.70
85	5	3220	G	C5-C6-O6	6.40	132.44	128.60
85	5	3308	C	C2-N1-C1'	6.40	125.84	118.80
1	2	1651	G	N3-C4-C5	6.40	131.80	128.60
36	1	604	G	C5-C6-N1	-6.40	108.30	111.50
36	1	1022	U	N1-C2-N3	-6.40	111.06	114.90
36	1	1109	U	OP1-P-O3'	6.40	119.28	105.20
37	3	6	C	O5'-P-OP2	-6.40	99.94	105.70
37	3	6	C	C2-N3-C4	6.40	123.10	119.90
41	L4	318	LEU	CB-CG-CD1	-6.40	100.12	111.00
85	5	188	U	N3-C4-O4	6.40	123.88	119.40
85	5	1367	G	C6-C5-N7	-6.40	126.56	130.40
85	5	2173	U	C5-C6-N1	-6.40	119.50	122.70
38	8	65	A	N1-C6-N6	-6.40	114.76	118.60
38	8	84	C	C2-N3-C4	6.40	123.10	119.90
1	2	691	C	C5-C6-N1	6.40	124.20	121.00
1	2	1296	A	C5-N7-C8	-6.40	100.70	103.90
36	1	582	G	C6-C5-N7	6.40	134.24	130.40
36	1	1187	C	N1-C2-O2	-6.40	115.06	118.90
36	1	1202	A	C8-N9-C4	-6.40	103.24	105.80
36	1	2186	U	N1-C2-O2	6.40	127.28	122.80
36	1	2796	G	OP1-P-OP2	6.40	129.20	119.60
37	3	22	A	C6-N1-C2	-6.40	114.76	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	69	U	O5'-P-OP1	6.40	118.38	110.70
80	6	639	U	O5'-P-OP2	-6.40	99.94	105.70
80	6	1783	C	N3-C4-N4	6.40	122.48	118.00
85	5	915	A	N1-C2-N3	-6.40	126.10	129.30
85	5	1421	G	N1-C2-N2	6.40	121.96	116.20
85	5	1868	G	O5'-P-OP2	6.40	118.38	110.70
85	5	3101	G	C8-N9-C4	6.40	108.96	106.40
38	8	129	C	C6-N1-C2	6.40	122.86	120.30
50	m4	123	LEU	CB-CG-CD2	-6.40	100.12	111.00
1	2	412	A	C5-C6-N1	-6.40	114.50	117.70
1	2	804	U	N3-C4-O4	6.40	123.88	119.40
36	1	580	C	OP1-P-OP2	-6.40	110.01	119.60
36	1	672	A	N9-C4-C5	-6.40	103.24	105.80
36	1	2514	U	C5-C6-N1	-6.40	119.50	122.70
36	1	2804	A	OP2-P-O3'	6.40	119.27	105.20
36	1	2918	G	C4-C5-C6	6.40	122.64	118.80
36	1	3010	U	N3-C2-O2	-6.40	117.72	122.20
85	5	1077	U	N3-C2-O2	6.40	126.68	122.20
85	5	1371	G	C6-N1-C2	-6.40	121.26	125.10
85	5	1602	A	C4-C5-C6	6.40	120.20	117.00
85	5	3034	C	C5-C6-N1	-6.40	117.80	121.00
85	5	3156	U	C5-C6-N1	-6.40	119.50	122.70
38	8	145	U	C5-C4-O4	-6.40	122.06	125.90
1	2	435	C	N3-C4-N4	-6.39	113.52	118.00
1	2	1075	A	C5-N7-C8	-6.39	100.70	103.90
1	2	1102	G	C5-C6-O6	6.39	132.44	128.60
36	1	1331	U	N3-C4-C5	-6.39	110.76	114.60
36	1	1710	C	O5'-P-OP2	-6.39	99.94	105.70
36	1	2777	G	N7-C8-N9	6.39	116.30	113.10
36	1	3014	U	C6-N1-C2	6.39	124.84	121.00
36	1	3143	C	OP1-P-OP2	6.39	129.19	119.60
38	4	58	G	C8-N9-C1'	-6.39	118.69	127.00
80	6	414	C	O5'-P-OP2	-6.39	99.94	105.70
80	6	1479	A	C4-C5-C6	6.39	120.20	117.00
80	6	1763	A	O5'-P-OP2	-6.39	99.94	105.70
85	5	385	A	C5-C6-N1	-6.39	114.50	117.70
85	5	1075	A	C6-N1-C2	-6.39	114.76	118.60
85	5	1320	C	O4'-C1'-N1	-6.39	103.08	108.20
85	5	1366	A	N1-C2-N3	6.39	132.50	129.30
85	5	1936	A	C2-N3-C4	-6.39	107.40	110.60
85	5	2551	U	C4-C5-C6	-6.39	115.86	119.70
37	7	49	G	N3-C4-C5	-6.39	125.40	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	33	A	C6-C5-N7	-6.39	127.82	132.30
1	2	688	U	N3-C2-O2	-6.39	117.72	122.20
36	1	13	A	C6-N1-C2	-6.39	114.77	118.60
36	1	77	A	C5-C6-N1	-6.39	114.50	117.70
36	1	107	A	N3-C4-C5	-6.39	122.33	126.80
36	1	1792	C	O5'-P-OP1	6.39	118.37	110.70
36	1	2153	U	C2-N3-C4	-6.39	123.17	127.00
36	1	2409	G	C6-N1-C2	-6.39	121.26	125.10
80	6	856	A	C6-N1-C2	-6.39	114.77	118.60
80	6	1697	G	C2-N3-C4	6.39	115.10	111.90
80	6	1740	A	C5-C6-N6	6.39	128.81	123.70
85	5	589	A	C2-N3-C4	-6.39	107.40	110.60
85	5	610	G	C2-N3-C4	6.39	115.10	111.90
85	5	1127	G	OP2-P-O3'	6.39	119.26	105.20
85	5	1142	G	N9-C4-C5	6.39	107.96	105.40
85	5	1343	A	N9-C4-C5	-6.39	103.24	105.80
85	5	2132	C	C5-C4-N4	-6.39	115.72	120.20
52	m6	28	LEU	CB-CG-CD1	-6.39	100.13	111.00
36	1	1676	A	N7-C8-N9	6.39	117.00	113.80
36	1	2977	G	O5'-P-OP1	6.39	118.37	110.70
80	6	51	A	C2-N3-C4	-6.39	107.41	110.60
80	6	510	G	C6-C5-N7	-6.39	126.57	130.40
80	6	701	U	C6-N1-C2	-6.39	117.17	121.00
85	5	2257	C	P-O3'-C3'	6.39	127.37	119.70
85	5	2365	C	C5-C4-N4	-6.39	115.73	120.20
1	2	1622	C	N3-C4-C5	-6.39	119.34	121.90
36	1	1362	G	N1-C6-O6	-6.39	116.07	119.90
36	1	2598	G	N1-C2-N3	6.39	127.73	123.90
36	1	2609	A	C4-C5-C6	6.39	120.19	117.00
36	1	3036	G	OP1-P-OP2	6.39	129.19	119.60
36	1	3109	G	O4'-C1'-N9	6.39	113.31	108.20
80	6	992	A	C4-C5-C6	-6.39	113.81	117.00
80	6	1574	G	N3-C4-N9	6.39	129.83	126.00
85	5	306	A	C6-N1-C2	-6.39	114.77	118.60
85	5	419	G	OP1-P-OP2	-6.39	110.02	119.60
85	5	1171	G	C6-N1-C2	-6.39	121.27	125.10
85	5	2732	G	OP1-P-OP2	6.39	129.18	119.60
85	5	2929	C	C2-N1-C1'	6.39	125.83	118.80
40	l3	34	LYS	CD-CE-NZ	6.39	126.39	111.70
47	m0	3	ARG	NE-CZ-NH2	-6.39	117.11	120.30
1	2	1218	C	C2-N3-C4	-6.39	116.71	119.90
1	2	1570	A	O5'-P-OP1	6.39	118.36	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	642	U	N3-C4-O4	-6.39	114.93	119.40
36	1	3007	U	C6-N1-C2	6.39	124.83	121.00
85	5	1343	A	C8-N9-C4	6.39	108.36	105.80
85	5	1869	C	OP2-P-O3'	6.39	119.25	105.20
85	5	3282	U	OP1-P-OP2	6.39	129.18	119.60
1	2	837	U	N3-C4-C5	-6.39	110.77	114.60
1	2	1287	G	N9-C4-C5	6.39	107.95	105.40
36	1	415	G	N3-C4-C5	6.39	131.79	128.60
36	1	740	G	C4-C5-N7	-6.39	108.25	110.80
36	1	1072	G	C8-N9-C4	6.39	108.95	106.40
36	1	1551	C	N3-C2-O2	-6.39	117.43	121.90
36	1	1659	U	C5-C6-N1	6.39	125.89	122.70
36	1	2145	A	C5-N7-C8	-6.39	100.71	103.90
36	1	3024	A	O5'-P-OP1	-6.39	99.95	105.70
80	6	228	G	N7-C8-N9	-6.39	109.91	113.10
80	6	1428	G	C8-N9-C4	-6.39	103.84	106.40
80	6	1433	G	N9-C4-C5	6.39	107.95	105.40
80	6	1624	C	C2-N3-C4	-6.39	116.71	119.90
85	5	222	A	N7-C8-N9	6.39	116.99	113.80
85	5	866	A	OP1-P-OP2	-6.39	110.02	119.60
85	5	1511	U	N3-C2-O2	-6.39	117.73	122.20
85	5	1586	G	O5'-P-OP2	-6.39	99.95	105.70
85	5	1667	A	N3-C4-C5	6.39	131.27	126.80
85	5	2302	G	N1-C2-N3	6.39	127.73	123.90
85	5	2366	C	O5'-P-OP1	-6.39	99.95	105.70
85	5	2737	C	O5'-P-OP1	6.39	118.36	110.70
38	8	23	U	C2-N3-C4	-6.39	123.17	127.00
1	2	1091	G	C6-N1-C2	-6.38	121.27	125.10
36	1	721	G	C5-N7-C8	-6.38	101.11	104.30
36	1	838	G	C2-N3-C4	-6.38	108.71	111.90
36	1	958	C	N1-C2-O2	-6.38	115.07	118.90
36	1	1082	U	N3-C4-O4	-6.38	114.93	119.40
36	1	1190	A	C4-C5-N7	6.38	113.89	110.70
36	1	2118	C	OP1-P-O3'	6.38	119.25	105.20
36	1	2569	A	C2-N3-C4	6.38	113.79	110.60
36	1	2756	C	N1-C2-N3	6.38	123.67	119.20
80	6	1103	U	C4-C5-C6	-6.38	115.87	119.70
80	6	1553	G	C5-C6-O6	-6.38	124.77	128.60
85	5	655	C	C5-C4-N4	-6.38	115.73	120.20
85	5	760	G	C2-N3-C4	-6.38	108.71	111.90
85	5	2340	U	C6-N1-C2	-6.38	117.17	121.00
85	5	2667	A	C6-N1-C2	-6.38	114.77	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2873	U	C4-C5-C6	6.38	123.53	119.70
85	5	2956	A	C6-C5-N7	-6.38	127.83	132.30
85	5	3141	A	N1-C6-N6	6.38	122.43	118.60
85	5	3254	G	N7-C8-N9	6.38	116.29	113.10
85	5	3379	C	N3-C2-O2	6.38	126.37	121.90
1	2	133	U	N3-C2-O2	-6.38	117.73	122.20
36	1	2394	G	N7-C8-N9	-6.38	109.91	113.10
36	1	2659	G	C2-N3-C4	-6.38	108.71	111.90
68	O2	23	ASP	CB-CG-OD1	-6.38	112.56	118.30
80	6	58	U	O4'-C1'-N1	6.38	113.31	108.20
80	6	322	G	O5'-P-OP2	6.38	118.36	110.70
80	6	384	G	C5-N7-C8	-6.38	101.11	104.30
80	6	1112	G	N1-C6-O6	-6.38	116.07	119.90
80	6	1641	C	N3-C2-O2	6.38	126.37	121.90
85	5	1149	G	O5'-P-OP2	-6.38	99.95	105.70
85	5	1648	A	N3-C4-C5	6.38	131.27	126.80
85	5	2354	C	C5-C4-N4	6.38	124.67	120.20
85	5	2522	G	N1-C2-N2	6.38	121.94	116.20
85	5	2732	G	C4-C5-N7	-6.38	108.25	110.80
38	8	60	U	C2-N3-C4	-6.38	123.17	127.00
1	2	13	C	C6-N1-C2	-6.38	117.75	120.30
1	2	1347	G	N1-C2-N2	6.38	121.94	116.20
1	2	1524	G	N3-C4-C5	-6.38	125.41	128.60
36	1	299	G	C2-N3-C4	-6.38	108.71	111.90
36	1	343	U	OP1-P-O3'	6.38	119.24	105.20
36	1	1205	A	N1-C6-N6	6.38	122.43	118.60
36	1	2668	U	C6-N1-C2	6.38	124.83	121.00
36	1	2714	G	N3-C4-N9	-6.38	122.17	126.00
80	6	679	U	OP1-P-OP2	-6.38	110.03	119.60
80	6	938	G	N7-C8-N9	6.38	116.29	113.10
85	5	521	A	N1-C6-N6	-6.38	114.77	118.60
85	5	777	U	C6-N1-C2	-6.38	117.17	121.00
85	5	996	A	OP2-P-O3'	6.38	119.24	105.20
85	5	1012	G	C5-N7-C8	-6.38	101.11	104.30
85	5	2707	C	N1-C2-N3	6.38	123.67	119.20
85	5	2849	C	C5-C4-N4	-6.38	115.73	120.20
85	5	3132	C	OP2-P-O3'	6.38	119.24	105.20
85	5	3172	A	C2-N3-C4	6.38	113.79	110.60
85	5	3308	C	C6-N1-C1'	-6.38	113.14	120.80
37	7	78	U	N3-C4-O4	6.38	123.87	119.40
37	7	98	C	O5'-P-OP1	6.38	118.36	110.70
36	1	26	A	C8-N9-C4	6.38	108.35	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1199	C	O5'-P-OP1	-6.38	99.96	105.70
36	1	1299	U	C5-C6-N1	6.38	125.89	122.70
36	1	1544	G	N3-C4-N9	6.38	129.83	126.00
80	6	915	A	C2-N3-C4	6.38	113.79	110.60
80	6	1082	C	N3-C2-O2	-6.38	117.43	121.90
80	6	1433	G	N1-C6-O6	-6.38	116.07	119.90
80	6	1794	A	C8-N9-C4	6.38	108.35	105.80
85	5	1055	A	N9-C4-C5	6.38	108.35	105.80
85	5	2353	G	N9-C4-C5	-6.38	102.85	105.40
1	2	517	U	O5'-P-OP1	-6.38	99.96	105.70
1	2	792	A	C2-N3-C4	-6.38	107.41	110.60
1	2	1480	U	O5'-P-OP1	-6.38	99.96	105.70
36	1	108	A	C6-N1-C2	-6.38	114.77	118.60
36	1	109	A	OP1-P-O3'	6.38	119.23	105.20
36	1	672	A	O4'-C1'-N9	-6.38	103.10	108.20
36	1	686	G	C5-C6-N1	-6.38	108.31	111.50
36	1	1174	G	N1-C6-O6	6.38	123.73	119.90
36	1	1699	A	O5'-P-OP2	-6.38	99.96	105.70
36	1	3238	G	C5-C6-N1	-6.38	108.31	111.50
80	6	1715	G	N3-C4-C5	-6.38	125.41	128.60
85	5	180	C	C6-N1-C2	-6.38	117.75	120.30
85	5	654	C	N3-C2-O2	6.38	126.36	121.90
85	5	667	C	C5-C6-N1	-6.38	117.81	121.00
85	5	1188	U	C2-N3-C4	-6.38	123.17	127.00
85	5	1351	U	C5-C4-O4	6.38	129.73	125.90
85	5	2123	G	C8-N9-C1'	-6.38	118.71	127.00
85	5	2763	U	N1-C2-O2	-6.38	118.34	122.80
1	2	1543	U	C2-N1-C1'	6.38	125.35	117.70
36	1	781	G	N1-C2-N3	-6.38	120.08	123.90
36	1	1390	A	N1-C6-N6	-6.38	114.77	118.60
36	1	1477	A	N1-C6-N6	6.38	122.43	118.60
36	1	1886	A	N7-C8-N9	6.38	116.99	113.80
36	1	2304	C	O5'-P-OP2	6.38	118.35	110.70
36	1	2685	C	OP1-P-OP2	-6.38	110.03	119.60
36	1	3056	U	N1-C2-N3	6.38	118.72	114.90
37	3	14	U	C5-C4-O4	-6.38	122.07	125.90
38	4	101	U	N1-C2-N3	6.38	118.73	114.90
80	6	278	U	N3-C2-O2	-6.38	117.74	122.20
80	6	1653	C	N3-C4-N4	6.38	122.46	118.00
85	5	176	G	C8-N9-C4	6.38	108.95	106.40
85	5	1103	A	N1-C2-N3	-6.38	126.11	129.30
85	5	1474	A	OP1-P-OP2	-6.38	110.03	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1560	G	N1-C6-O6	6.38	123.73	119.90
85	5	2379	U	N3-C4-C5	-6.38	110.78	114.60
85	5	2894	C	C2-N3-C4	-6.38	116.71	119.90
1	2	190	C	C6-N1-C2	6.38	122.85	120.30
1	2	768	U	N3-C2-O2	-6.38	117.74	122.20
1	2	1541	U	O5'-P-OP2	6.38	118.35	110.70
36	1	392	G	C5-C6-O6	-6.38	124.78	128.60
36	1	1606	U	O5'-P-OP1	-6.38	99.96	105.70
36	1	2247	G	N3-C4-N9	-6.38	122.17	126.00
80	6	1150	G	N1-C6-O6	6.38	123.72	119.90
80	6	1779	U	C4-C5-C6	6.38	123.53	119.70
85	5	1164	G	O5'-P-OP1	-6.38	99.96	105.70
85	5	2242	A	C4-C5-N7	-6.38	107.51	110.70
1	2	36	C	N3-C4-C5	-6.37	119.35	121.90
36	1	1104	G	O4'-C1'-N9	-6.37	103.10	108.20
37	3	82	G	C6-N1-C2	-6.37	121.28	125.10
80	6	86	A	N9-C4-C5	6.37	108.35	105.80
80	6	1612	U	N1-C2-O2	6.37	127.26	122.80
80	6	1623	C	N3-C2-O2	6.37	126.36	121.90
85	5	388	G	OP1-P-O3'	6.37	119.22	105.20
85	5	887	G	C8-N9-C4	-6.37	103.85	106.40
85	5	1508	C	C6-N1-C2	-6.37	117.75	120.30
85	5	1540	U	OP1-P-OP2	-6.37	110.04	119.60
85	5	1602	A	C2-N3-C4	-6.37	107.41	110.60
85	5	1664	G	O5'-P-OP2	-6.37	99.96	105.70
85	5	1780	G	C8-N9-C4	-6.37	103.85	106.40
85	5	2659	G	N3-C2-N2	6.37	124.36	119.90
85	5	3086	A	OP1-P-O3'	6.37	119.22	105.20
38	8	112	U	N3-C4-O4	-6.37	114.94	119.40
1	2	671	G	C5-C6-O6	6.37	132.42	128.60
1	2	952	C	C6-N1-C2	6.37	122.85	120.30
1	2	1034	G	C5-C6-O6	-6.37	124.78	128.60
1	2	1431	G	C5-C6-N1	6.37	114.69	111.50
1	2	1519	G	N1-C2-N2	-6.37	110.47	116.20
1	2	1631	A	C6-N1-C2	-6.37	114.78	118.60
1	2	1653	G	N3-C2-N2	-6.37	115.44	119.90
36	1	816	A	N3-C4-N9	6.37	132.50	127.40
36	1	1862	U	N1-C2-O2	6.37	127.26	122.80
36	1	2136	C	N3-C4-N4	6.37	122.46	118.00
36	1	2962	U	N1-C2-N3	6.37	118.72	114.90
36	1	3219	G	N3-C4-N9	-6.37	122.18	126.00
80	6	105	A	C5-C6-N6	-6.37	118.60	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	348	U	N1-C2-O2	-6.37	118.34	122.80
80	6	398	G	C5-N7-C8	6.37	107.48	104.30
80	6	541	A	C2-N3-C4	6.37	113.79	110.60
80	6	840	U	C6-N1-C2	6.37	124.82	121.00
80	6	1354	G	C6-C5-N7	-6.37	126.58	130.40
85	5	397	A	C8-N9-C4	6.37	108.35	105.80
85	5	864	G	N9-C4-C5	-6.37	102.85	105.40
85	5	1466	G	N1-C2-N3	6.37	127.72	123.90
85	5	2339	C	O5'-P-OP2	-6.37	99.97	105.70
85	5	2509	U	C5-C4-O4	6.37	129.72	125.90
85	5	2523	A	N3-C4-C5	-6.37	122.34	126.80
85	5	2608	G	C5-C6-O6	-6.37	124.78	128.60
85	5	2636	A	O5'-P-OP2	6.37	118.35	110.70
85	5	2828	G	C5-C6-N1	6.37	114.69	111.50
85	5	2957	G	N1-C2-N3	6.37	127.72	123.90
85	5	3092	C	C6-N1-C2	6.37	122.85	120.30
38	8	66	A	O5'-P-OP2	-6.37	99.97	105.70
38	8	112	U	N1-C2-N3	-6.37	111.08	114.90
36	1	439	C	OP1-P-OP2	6.37	129.16	119.60
36	1	499	G	C2-N3-C4	-6.37	108.72	111.90
36	1	632	G	N1-C6-O6	6.37	123.72	119.90
36	1	940	G	C6-C5-N7	6.37	134.22	130.40
36	1	1549	U	C5-C6-N1	-6.37	119.52	122.70
36	1	1662	G	N7-C8-N9	-6.37	109.92	113.10
80	6	371	G	OP1-P-OP2	-6.37	110.04	119.60
80	6	437	A	C4-C5-C6	6.37	120.19	117.00
85	5	420	G	C2-N3-C4	6.37	115.08	111.90
85	5	585	A	O5'-P-OP2	6.37	118.34	110.70
85	5	824	C	OP1-P-OP2	6.37	129.16	119.60
85	5	2359	C	N3-C4-C5	6.37	124.45	121.90
85	5	2742	C	C2-N3-C4	-6.37	116.72	119.90
85	5	3021	A	C2-N3-C4	-6.37	107.42	110.60
85	5	3031	G	C5-C6-O6	-6.37	124.78	128.60
37	7	28	C	C4-C5-C6	6.37	120.58	117.40
1	2	1218	C	N3-C4-C5	6.37	124.45	121.90
36	1	83	U	N1-C2-N3	6.37	118.72	114.90
36	1	137	G	C4-C5-N7	6.37	113.35	110.80
36	1	376	G	C5-C6-O6	6.37	132.42	128.60
36	1	778	U	N1-C2-N3	6.37	118.72	114.90
36	1	1078	U	N3-C4-C5	-6.37	110.78	114.60
36	1	1337	A	C6-N1-C2	-6.37	114.78	118.60
36	1	1435	A	C5-C6-N1	6.37	120.89	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2218	G	C5-N7-C8	6.37	107.48	104.30
36	1	2398	A	C4-C5-N7	-6.37	107.52	110.70
36	1	3125	U	N3-C4-C5	-6.37	110.78	114.60
80	6	689	G	C4-C5-N7	-6.37	108.25	110.80
85	5	32	U	N3-C4-O4	-6.37	114.94	119.40
85	5	114	A	C6-C5-N7	-6.37	127.84	132.30
85	5	115	A	C5-N7-C8	-6.37	100.72	103.90
85	5	621	A	C8-N9-C4	6.37	108.35	105.80
85	5	677	A	N1-C6-N6	-6.37	114.78	118.60
85	5	1096	U	C5-C6-N1	-6.37	119.52	122.70
85	5	1404	G	C5-N7-C8	-6.37	101.12	104.30
85	5	1918	C	C2-N3-C4	6.37	123.08	119.90
85	5	2118	C	OP1-P-O3'	6.37	119.21	105.20
85	5	2337	C	N1-C2-N3	6.37	123.66	119.20
85	5	3221	C	N3-C4-N4	6.37	122.46	118.00
1	2	1363	U	N3-C2-O2	-6.37	117.74	122.20
36	1	4	U	C2-N3-C4	6.37	130.82	127.00
36	1	156	G	N3-C4-N9	6.37	129.82	126.00
36	1	300	G	N1-C6-O6	-6.37	116.08	119.90
36	1	1509	A	N7-C8-N9	6.37	116.98	113.80
36	1	2650	U	C2-N3-C4	-6.37	123.18	127.00
38	4	64	U	C5-C4-O4	-6.37	122.08	125.90
80	6	1326	A	C6-N1-C2	6.37	122.42	118.60
85	5	423	A	C5-C6-N1	6.37	120.88	117.70
85	5	1195	A	N3-C4-N9	-6.37	122.31	127.40
85	5	1611	G	OP1-P-OP2	-6.37	110.05	119.60
85	5	2292	U	N1-C2-O2	6.37	127.26	122.80
85	5	3147	G	OP2-P-O3'	6.37	119.21	105.20
1	2	561	G	C5-C6-O6	6.37	132.42	128.60
1	2	1481	G	N3-C4-C5	-6.37	125.42	128.60
1	2	1727	A	C4-C5-C6	6.37	120.18	117.00
36	1	172	G	C2-N3-C4	6.37	115.08	111.90
36	1	256	G	OP1-P-O3'	6.37	119.20	105.20
36	1	577	C	N1-C2-N3	6.37	123.66	119.20
36	1	1398	U	C6-N1-C2	-6.37	117.18	121.00
36	1	3085	G	C4-C5-C6	6.37	122.62	118.80
80	6	997	G	O5'-P-OP1	-6.37	99.97	105.70
80	6	1368	G	N3-C4-C5	6.37	131.78	128.60
85	5	858	A	C4-C5-N7	6.37	113.88	110.70
85	5	1297	C	OP2-P-O3'	6.37	119.20	105.20
85	5	1655	G	C8-N9-C4	6.37	108.95	106.40
85	5	2950	G	C5-C6-N1	-6.37	108.32	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3068	U	N1-C2-N3	6.37	118.72	114.90
85	5	3300	U	N1-C2-N3	6.37	118.72	114.90
1	2	40	A	C4-C5-N7	-6.36	107.52	110.70
1	2	589	C	C6-N1-C2	6.36	122.84	120.30
1	2	1215	U	OP1-P-O3'	6.36	119.20	105.20
1	2	1588	G	N3-C4-N9	-6.36	122.18	126.00
36	1	48	A	C5-C6-N1	-6.36	114.52	117.70
36	1	210	U	OP1-P-O3'	6.36	119.20	105.20
36	1	1471	U	N3-C4-C5	6.36	118.42	114.60
36	1	2403	G	C2-N3-C4	-6.36	108.72	111.90
36	1	2741	C	C6-N1-C2	6.36	122.84	120.30
36	1	2915	U	C4-C5-C6	6.36	123.52	119.70
38	4	37	A	OP1-P-OP2	-6.36	110.05	119.60
59	N3	25	CYS	CA-CB-SG	-6.36	102.55	114.00
80	6	838	G	O5'-P-OP1	-6.36	99.97	105.70
80	6	1002	G	N3-C4-N9	-6.36	122.18	126.00
85	5	1195	A	C5-C6-N1	-6.36	114.52	117.70
85	5	1928	G	C2-N3-C4	-6.36	108.72	111.90
85	5	3106	A	N7-C8-N9	6.36	116.98	113.80
85	5	3138	U	N3-C2-O2	6.36	126.65	122.20
36	1	1143	A	C4-C5-N7	-6.36	107.52	110.70
36	1	2412	G	C5-N7-C8	6.36	107.48	104.30
36	1	3055	U	C6-N1-C2	6.36	124.82	121.00
80	6	157	A	N7-C8-N9	-6.36	110.62	113.80
85	5	234	G	N1-C2-N2	6.36	121.93	116.20
85	5	1245	A	N1-C6-N6	-6.36	114.78	118.60
85	5	2693	C	C6-N1-C2	6.36	122.84	120.30
85	5	2712	U	C5-C6-N1	6.36	125.88	122.70
85	5	2787	G	C5-N7-C8	-6.36	101.12	104.30
85	5	3128	G	C4-C5-N7	6.36	113.34	110.80
1	2	96	G	C8-N9-C4	-6.36	103.86	106.40
1	2	1355	U	C5-C6-N1	6.36	125.88	122.70
1	2	1399	G	N1-C6-O6	6.36	123.72	119.90
36	1	880	G	C2-N3-C4	-6.36	108.72	111.90
36	1	1508	C	N1-C2-O2	-6.36	115.08	118.90
36	1	2813	A	C8-N9-C4	6.36	108.34	105.80
36	1	2838	A	C2-N3-C4	-6.36	107.42	110.60
36	1	3234	A	N9-C4-C5	-6.36	103.26	105.80
36	1	3258	U	N3-C4-O4	6.36	123.85	119.40
80	6	1122	G	C8-N9-C1'	-6.36	118.73	127.00
80	6	1142	A	N1-C2-N3	6.36	132.48	129.30
85	5	710	A	C2-N3-C4	-6.36	107.42	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1415	U	C2-N1-C1'	6.36	125.33	117.70
85	5	1725	C	C2-N3-C4	-6.36	116.72	119.90
85	5	2808	A	C5-C6-N6	6.36	128.79	123.70
85	5	2814	G	C6-C5-N7	-6.36	126.58	130.40
85	5	3019	U	C5-C4-O4	6.36	129.72	125.90
85	5	3109	G	C5-N7-C8	-6.36	101.12	104.30
85	5	3303	G	C4-C5-N7	6.36	113.34	110.80
36	1	78	U	O5'-P-OP1	-6.36	99.98	105.70
36	1	1165	A	C5-C6-N6	6.36	128.79	123.70
36	1	1834	U	N1-C2-N3	6.36	118.72	114.90
36	1	2118	C	N1-C2-N3	6.36	123.65	119.20
36	1	2354	C	C6-N1-C2	-6.36	117.76	120.30
36	1	2659	G	N3-C4-C5	6.36	131.78	128.60
36	1	2715	A	N7-C8-N9	-6.36	110.62	113.80
80	6	1079	U	N3-C4-C5	6.36	118.42	114.60
80	6	1184	A	C2-N3-C4	-6.36	107.42	110.60
80	6	1479	A	OP1-P-OP2	-6.36	110.06	119.60
85	5	529	A	C2-N3-C4	-6.36	107.42	110.60
85	5	1641	U	N1-C2-N3	6.36	118.72	114.90
85	5	2910	A	C6-N1-C2	-6.36	114.78	118.60
85	5	3114	A	C5-C6-N1	-6.36	114.52	117.70
1	2	131	C	C5-C6-N1	6.36	124.18	121.00
1	2	932	C	C6-N1-C2	-6.36	117.76	120.30
36	1	60	A	C2-N3-C4	-6.36	107.42	110.60
36	1	290	G	N3-C2-N2	-6.36	115.45	119.90
36	1	304	G	N1-C2-N3	6.36	127.72	123.90
36	1	967	A	C8-N9-C4	-6.36	103.26	105.80
36	1	2433	U	N3-C4-C5	6.36	118.42	114.60
36	1	3190	C	N3-C4-C5	-6.36	119.36	121.90
75	O9	30	ARG	NE-CZ-NH2	-6.36	117.12	120.30
80	6	1139	A	C5-N7-C8	6.36	107.08	103.90
80	6	1468	U	N3-C4-C5	-6.36	110.79	114.60
85	5	377	A	C5-N7-C8	-6.36	100.72	103.90
85	5	599	C	C4-C5-C6	6.36	120.58	117.40
85	5	779	G	C5-N7-C8	-6.36	101.12	104.30
85	5	1178	G	N1-C2-N2	-6.36	110.48	116.20
85	5	1180	A	OP2-P-O3'	-6.36	91.22	105.20
85	5	1392	G	N3-C4-N9	6.36	129.81	126.00
85	5	1509	A	C6-C5-N7	6.36	136.75	132.30
85	5	2274	U	C5-C6-N1	-6.36	119.52	122.70
85	5	2937	G	C5-C6-N1	-6.36	108.32	111.50
85	5	3046	A	N7-C8-N9	-6.36	110.62	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	99	C	O5'-P-OP2	-6.36	99.98	105.70
1	2	46	A	O5'-P-OP2	-6.36	99.98	105.70
1	2	144	U	N1-C2-N3	6.36	118.71	114.90
1	2	1432	U	C5-C4-O4	-6.36	122.09	125.90
1	2	1446	C	OP1-P-OP2	-6.36	110.07	119.60
36	1	701	G	C8-N9-C4	6.36	108.94	106.40
36	1	803	C	O5'-P-OP1	6.36	118.33	110.70
36	1	1150	A	C5-C6-N1	6.36	120.88	117.70
36	1	1652	G	N3-C4-C5	6.36	131.78	128.60
36	1	2236	G	C4-C5-C6	6.36	122.61	118.80
36	1	2612	U	N1-C2-N3	6.36	118.71	114.90
36	1	2680	A	C5-N7-C8	-6.36	100.72	103.90
36	1	3210	A	C6-N1-C2	-6.36	114.79	118.60
37	3	43	U	C2-N3-C4	-6.36	123.19	127.00
62	N6	57	LEU	CA-CB-CG	6.36	129.92	115.30
80	6	759	U	N3-C4-O4	-6.36	114.95	119.40
80	6	1295	G	OP2-P-O3'	6.36	119.18	105.20
80	6	1749	A	N3-C4-C5	6.36	131.25	126.80
85	5	210	U	OP1-P-OP2	6.36	129.13	119.60
85	5	1750	A	N7-C8-N9	6.36	116.98	113.80
85	5	1800	A	C5-C6-N1	6.36	120.88	117.70
85	5	2142	A	OP1-P-O3'	6.36	119.18	105.20
85	5	2337	C	C5-C6-N1	-6.36	117.82	121.00
85	5	2745	G	N3-C4-N9	-6.36	122.19	126.00
85	5	3344	A	OP1-P-OP2	6.36	129.13	119.60
38	8	29	U	OP2-P-O3'	6.36	119.18	105.20
36	1	709	A	N3-C4-C5	-6.35	122.35	126.80
36	1	760	G	N1-C2-N3	6.35	127.71	123.90
36	1	1899	G	N1-C2-N3	6.35	127.71	123.90
85	5	1519	G	N9-C4-C5	-6.35	102.86	105.40
85	5	1863	G	C2-N3-C4	-6.35	108.72	111.90
85	5	2640	A	C4-C5-N7	6.35	113.88	110.70
85	5	2735	U	N3-C2-O2	-6.35	117.75	122.20
37	7	31	U	O5'-P-OP1	-6.35	99.98	105.70
1	2	297	U	N1-C2-O2	6.35	127.25	122.80
1	2	920	C	C6-N1-C2	-6.35	117.76	120.30
1	2	924	A	C8-N9-C4	-6.35	103.26	105.80
36	1	160	G	N7-C8-N9	-6.35	109.92	113.10
36	1	824	C	C2-N1-C1'	6.35	125.79	118.80
36	1	2385	G	C6-C5-N7	6.35	134.21	130.40
36	1	2525	G	O5'-P-OP1	-6.35	99.98	105.70
37	3	3	U	C4-C5-C6	6.35	123.51	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	244	A	C5-C6-N1	-6.35	114.52	117.70
80	6	1406	A	C8-N9-C4	-6.35	103.26	105.80
85	5	826	G	C2-N3-C4	-6.35	108.72	111.90
85	5	1054	A	C8-N9-C4	6.35	108.34	105.80
85	5	2639	G	N7-C8-N9	6.35	116.28	113.10
85	5	3185	U	C5-C4-O4	-6.35	122.09	125.90
85	5	3370	A	C2-N3-C4	6.35	113.78	110.60
38	8	72	A	N3-C4-C5	6.35	131.25	126.80
38	8	132	G	OP1-P-OP2	6.35	129.13	119.60
1	2	234	G	C4-C5-N7	-6.35	108.26	110.80
1	2	596	C	OP1-P-OP2	-6.35	110.07	119.60
36	1	781	G	N3-C2-N2	-6.35	115.45	119.90
36	1	943	U	N1-C2-O2	-6.35	118.36	122.80
36	1	2220	A	O5'-P-OP2	6.35	118.32	110.70
41	L4	309	ARG	NE-CZ-NH2	-6.35	117.12	120.30
80	6	155	U	N3-C2-O2	-6.35	117.75	122.20
80	6	876	G	C5-C6-N1	6.35	114.67	111.50
85	5	258	G	C4-C5-C6	6.35	122.61	118.80
85	5	1057	A	C6-N1-C2	-6.35	114.79	118.60
85	5	1135	A	C2-N3-C4	-6.35	107.42	110.60
85	5	2623	G	C5-C6-N1	6.35	114.68	111.50
1	2	131	C	O5'-P-OP2	-6.35	99.98	105.70
1	2	709	C	C5-C6-N1	-6.35	117.83	121.00
36	1	73	C	N3-C4-N4	6.35	122.44	118.00
36	1	333	G	OP1-P-OP2	-6.35	110.08	119.60
36	1	511	G	O5'-P-OP1	-6.35	99.99	105.70
36	1	2127	U	C4-C5-C6	6.35	123.51	119.70
36	1	2318	U	N3-C4-O4	6.35	123.84	119.40
36	1	2820	A	C8-N9-C4	-6.35	103.26	105.80
37	3	43	U	C4-C5-C6	6.35	123.51	119.70
80	6	95	G	N3-C4-C5	-6.35	125.42	128.60
80	6	971	A	N1-C6-N6	-6.35	114.79	118.60
85	5	1072	G	C4-N9-C1'	6.35	134.75	126.50
85	5	1560	G	N1-C2-N2	6.35	121.92	116.20
85	5	1604	G	C6-C5-N7	6.35	134.21	130.40
85	5	1884	A	OP2-P-O3'	6.35	119.17	105.20
85	5	2315	G	C2-N3-C4	-6.35	108.73	111.90
85	5	2738	A	C8-N9-C4	-6.35	103.26	105.80
1	2	230	C	C6-N1-C2	6.35	122.84	120.30
1	2	1094	G	O5'-P-OP2	-6.35	99.99	105.70
1	2	1201	G	N3-C2-N2	-6.35	115.46	119.90
1	2	1390	U	N3-C2-O2	6.35	126.64	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1394	A	C5-C6-N1	6.35	120.87	117.70
36	1	673	U	N1-C2-N3	-6.35	111.09	114.90
36	1	996	A	OP1-P-O3'	-6.35	91.24	105.20
36	1	1382	G	N1-C2-N3	6.35	127.71	123.90
36	1	1393	A	N1-C2-N3	6.35	132.47	129.30
36	1	1441	G	N1-C6-O6	-6.35	116.09	119.90
36	1	2534	G	N7-C8-N9	6.35	116.27	113.10
36	1	3243	A	N1-C6-N6	-6.35	114.79	118.60
37	3	96	U	OP2-P-O3'	6.35	119.16	105.20
38	4	23	U	N3-C2-O2	-6.35	117.76	122.20
80	6	256	A	C8-N9-C4	-6.35	103.26	105.80
80	6	371	G	C4-C5-C6	6.35	122.61	118.80
80	6	1004	U	OP1-P-O3'	6.35	119.17	105.20
80	6	1430	U	N1-C2-N3	-6.35	111.09	114.90
80	6	1550	A	C2-N3-C4	-6.35	107.43	110.60
80	6	1657	U	N1-C2-O2	6.35	127.24	122.80
85	5	276	U	N3-C2-O2	6.35	126.64	122.20
85	5	855	U	C2-N3-C4	6.35	130.81	127.00
85	5	1213	G	C6-N1-C2	-6.35	121.29	125.10
85	5	2663	G	C4-N9-C1'	6.35	134.75	126.50
85	5	3223	A	N3-C4-C5	-6.35	122.36	126.80
85	5	3266	G	C5-N7-C8	6.35	107.47	104.30
37	7	106	U	N3-C4-O4	6.35	123.84	119.40
36	1	1734	G	N7-C8-N9	-6.35	109.93	113.10
36	1	1859	A	N1-C6-N6	-6.35	114.79	118.60
36	1	2177	G	C6-N1-C2	-6.35	121.29	125.10
36	1	3290	G	N1-C6-O6	6.35	123.71	119.90
80	6	425	A	C4-C5-N7	6.35	113.87	110.70
80	6	1592	A	C6-C5-N7	-6.35	127.86	132.30
85	5	2435	G	O5'-P-OP2	6.35	118.31	110.70
85	5	2782	U	C5-C6-N1	-6.35	119.53	122.70
85	5	2886	U	O5'-P-OP2	-6.35	99.99	105.70
1	2	1029	G	N7-C8-N9	-6.34	109.93	113.10
1	2	1375	U	C5-C6-N1	-6.34	119.53	122.70
1	2	1484	C	N1-C2-O2	-6.34	115.09	118.90
36	1	653	A	OP1-P-OP2	-6.34	110.08	119.60
36	1	727	G	C4-N9-C1'	6.34	134.75	126.50
36	1	796	U	C2-N1-C1'	6.34	125.31	117.70
36	1	2212	C	C6-N1-C2	6.34	122.84	120.30
36	1	2240	G	OP1-P-O3'	6.34	119.16	105.20
36	1	2918	G	N1-C2-N2	-6.34	110.49	116.20
36	1	2996	U	C5-C4-O4	-6.34	122.09	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3243	A	C5-N7-C8	-6.34	100.73	103.90
80	6	64	U	N3-C4-O4	-6.34	114.96	119.40
80	6	1315	U	C5-C6-N1	-6.34	119.53	122.70
85	5	76	G	N7-C8-N9	6.34	116.27	113.10
85	5	153	U	C5-C6-N1	-6.34	119.53	122.70
85	5	535	G	N3-C2-N2	6.34	124.34	119.90
85	5	697	A	N1-C2-N3	6.34	132.47	129.30
85	5	1095	U	C6-N1-C2	-6.34	117.19	121.00
85	5	2184	U	OP2-P-O3'	6.34	119.16	105.20
85	5	2875	U	C2-N1-C1'	-6.34	110.09	117.70
85	5	3189	G	N1-C6-O6	6.34	123.71	119.90
85	5	3333	G	N1-C2-N2	-6.34	110.49	116.20
38	8	83	C	OP1-P-OP2	-6.34	110.08	119.60
36	1	192	C	O5'-P-OP2	-6.34	99.99	105.70
36	1	1924	U	N3-C4-O4	-6.34	114.96	119.40
36	1	2199	G	C2-N3-C4	-6.34	108.73	111.90
36	1	2231	C	N1-C2-O2	-6.34	115.09	118.90
36	1	2342	U	N1-C2-O2	-6.34	118.36	122.80
36	1	2869	U	C4-C5-C6	6.34	123.51	119.70
36	1	3031	G	O5'-P-OP1	6.34	118.31	110.70
80	6	965	U	N3-C2-O2	-6.34	117.76	122.20
80	6	1162	C	C5-C6-N1	-6.34	117.83	121.00
85	5	60	A	N3-C4-C5	-6.34	122.36	126.80
85	5	769	G	N1-C2-N3	6.34	127.71	123.90
85	5	1194	G	N1-C6-O6	-6.34	116.09	119.90
85	5	2162	U	C4-C5-C6	6.34	123.51	119.70
85	5	2264	U	C5-C6-N1	6.34	125.87	122.70
85	5	2785	A	OP1-P-OP2	-6.34	110.09	119.60
85	5	2970	C	C2-N3-C4	-6.34	116.73	119.90
88	n4	48	ARG	NE-CZ-NH1	6.34	123.47	120.30
1	2	1111	C	N3-C4-N4	-6.34	113.56	118.00
1	2	1469	G	C4-C5-N7	6.34	113.34	110.80
36	1	333	G	C4-C5-N7	6.34	113.34	110.80
36	1	808	A	N3-C4-N9	6.34	132.47	127.40
36	1	852	U	O5'-P-OP1	6.34	118.31	110.70
36	1	901	G	N1-C2-N2	6.34	121.91	116.20
36	1	996	A	OP2-P-O3'	6.34	119.15	105.20
36	1	1904	C	N3-C4-C5	-6.34	119.36	121.90
36	1	2207	A	O5'-P-OP2	6.34	118.31	110.70
36	1	2279	A	C5-N7-C8	-6.34	100.73	103.90
36	1	2588	U	OP1-P-OP2	-6.34	110.09	119.60
36	1	2700	G	N3-C4-N9	6.34	129.81	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2744	U	N1-C2-O2	-6.34	118.36	122.80
36	1	2986	U	OP2-P-O3'	6.34	119.15	105.20
80	6	30	G	OP1-P-OP2	-6.34	110.09	119.60
80	6	310	C	N1-C2-O2	-6.34	115.09	118.90
80	6	813	U	O5'-P-OP2	-6.34	99.99	105.70
80	6	1712	A	C5-C6-N1	-6.34	114.53	117.70
85	5	123	A	N7-C8-N9	-6.34	110.63	113.80
85	5	1583	A	N1-C2-N3	6.34	132.47	129.30
85	5	1676	A	OP1-P-OP2	-6.34	110.09	119.60
85	5	3316	A	C4-C5-N7	-6.34	107.53	110.70
1	2	8	U	N1-C2-N3	-6.34	111.10	114.90
1	2	169	A	C5-N7-C8	-6.34	100.73	103.90
1	2	449	C	C5-C6-N1	6.34	124.17	121.00
1	2	863	C	C5-C6-N1	6.34	124.17	121.00
1	2	1411	G	C5-C6-N1	-6.34	108.33	111.50
36	1	949	C	N1-C2-N3	6.34	123.64	119.20
36	1	1075	A	C4-C5-N7	6.34	113.87	110.70
36	1	1776	G	C8-N9-C4	-6.34	103.86	106.40
36	1	2681	U	C2-N3-C4	-6.34	123.20	127.00
36	1	2876	C	N3-C2-O2	6.34	126.34	121.90
36	1	3204	C	C4-C5-C6	-6.34	114.23	117.40
38	4	142	C	N3-C4-C5	-6.34	119.36	121.90
70	O4	84	CYS	CA-CB-SG	6.34	125.41	114.00
80	6	333	A	C6-N1-C2	-6.34	114.80	118.60
80	6	384	G	C5-C6-O6	-6.34	124.80	128.60
80	6	894	U	N3-C4-C5	6.34	118.40	114.60
80	6	1777	G	C8-N9-C4	-6.34	103.86	106.40
85	5	726	G	C5-N7-C8	-6.34	101.13	104.30
85	5	1672	U	C2-N1-C1'	-6.34	110.09	117.70
85	5	2167	A	C6-N1-C2	-6.34	114.80	118.60
85	5	2307	G	C2-N3-C4	6.34	115.07	111.90
85	5	3204	C	O5'-P-OP2	6.34	118.31	110.70
85	5	3266	G	C2-N3-C4	6.34	115.07	111.90
85	5	3355	U	N3-C4-O4	-6.34	114.96	119.40
37	7	72	A	N3-C4-N9	6.34	132.47	127.40
38	8	78	G	C4-C5-N7	6.34	113.34	110.80
36	1	86	G	C8-N9-C4	-6.34	103.86	106.40
36	1	1662	G	C8-N9-C1'	-6.34	118.76	127.00
36	1	2600	C	O5'-P-OP2	-6.34	100.00	105.70
36	1	3159	C	N3-C4-C5	-6.34	119.36	121.90
80	6	228	G	C4-C5-N7	-6.34	108.27	110.80
80	6	1372	U	N1-C2-N3	6.34	118.70	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2127	U	C5-C6-N1	6.34	125.87	122.70
1	2	438	A	C8-N9-C4	-6.34	103.27	105.80
1	2	942	U	C2-N1-C1'	6.34	125.30	117.70
1	2	1382	C	N3-C2-O2	6.34	126.34	121.90
36	1	57	A	C4-C5-C6	6.34	120.17	117.00
36	1	626	U	O5'-P-OP2	6.34	118.30	110.70
36	1	787	G	N3-C2-N2	-6.34	115.47	119.90
36	1	1183	C	OP1-P-OP2	-6.34	110.10	119.60
36	1	1625	A	OP1-P-OP2	6.34	129.10	119.60
36	1	2165	G	N9-C4-C5	6.34	107.94	105.40
36	1	2199	G	N1-C6-O6	6.34	123.70	119.90
36	1	2709	C	N3-C4-C5	6.34	124.44	121.90
36	1	3178	A	N9-C4-C5	-6.34	103.27	105.80
36	1	3219	G	C4-C5-C6	6.34	122.60	118.80
80	6	43	A	C2-N3-C4	6.34	113.77	110.60
80	6	277	U	N1-C2-N3	-6.34	111.10	114.90
80	6	1310	U	OP2-P-O3'	6.34	119.14	105.20
80	6	1341	A	C8-N9-C4	-6.34	103.27	105.80
80	6	1488	G	N3-C4-C5	-6.34	125.43	128.60
85	5	41	G	OP1-P-O3'	-6.34	91.26	105.20
85	5	220	G	N1-C6-O6	-6.34	116.10	119.90
85	5	226	C	C2-N3-C4	6.34	123.07	119.90
85	5	1276	U	C5-C6-N1	-6.34	119.53	122.70
85	5	1375	G	N9-C4-C5	6.34	107.94	105.40
85	5	1426	C	C5-C4-N4	-6.34	115.77	120.20
85	5	2228	A	C6-N1-C2	-6.34	114.80	118.60
85	5	2270	A	N9-C4-C5	-6.34	103.27	105.80
85	5	2583	C	N1-C2-O2	-6.34	115.10	118.90
85	5	2746	A	C5-C6-N1	-6.34	114.53	117.70
85	5	2860	U	C4-C5-C6	6.34	123.50	119.70
85	5	2891	U	C6-N1-C2	-6.34	117.20	121.00
85	5	3199	G	N1-C2-N3	6.34	127.70	123.90
85	5	3260	G	O5'-P-OP2	-6.34	100.00	105.70
85	5	3378	C	OP2-P-O3'	6.34	119.14	105.20
36	1	134	U	C4-C5-C6	-6.33	115.90	119.70
36	1	2937	G	C5-C6-O6	6.33	132.40	128.60
36	1	3296	A	N1-C6-N6	6.33	122.40	118.60
37	3	22	A	O5'-P-OP2	-6.33	100.00	105.70
85	5	579	G	C6-C5-N7	6.33	134.20	130.40
85	5	1392	G	C5-C6-N1	6.33	114.67	111.50
85	5	1466	G	C6-C5-N7	-6.33	126.60	130.40
85	5	2553	U	N3-C2-O2	-6.33	117.77	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2840	C	C6-N1-C2	6.33	122.83	120.30
1	2	724	C	N1-C2-O2	6.33	122.70	118.90
1	2	1657	C	C5-C4-N4	-6.33	115.77	120.20
36	1	258	G	N1-C6-O6	-6.33	116.10	119.90
36	1	902	G	N7-C8-N9	6.33	116.27	113.10
36	1	918	C	C6-N1-C1'	6.33	128.40	120.80
36	1	1379	G	C8-N9-C1'	-6.33	118.77	127.00
36	1	2398	A	C5-C6-N1	6.33	120.87	117.70
36	1	2687	G	C4-C5-N7	-6.33	108.27	110.80
36	1	3297	U	N1-C2-N3	6.33	118.70	114.90
80	6	95	G	C5-C6-N1	6.33	114.67	111.50
80	6	346	G	OP1-P-OP2	-6.33	110.10	119.60
80	6	917	U	N1-C2-O2	-6.33	118.37	122.80
85	5	101	G	C5-N7-C8	-6.33	101.13	104.30
85	5	103	G	C5-N7-C8	6.33	107.47	104.30
85	5	266	A	C5-C6-N6	6.33	128.77	123.70
85	5	498	A	C6-N1-C2	-6.33	114.80	118.60
85	5	879	U	C5-C4-O4	6.33	129.70	125.90
85	5	1007	U	C2-N3-C4	-6.33	123.20	127.00
85	5	1048	A	N1-C2-N3	-6.33	126.13	129.30
85	5	1509	A	C4-C5-C6	-6.33	113.83	117.00
85	5	2208	A	C4-N9-C1'	6.33	137.70	126.30
85	5	2661	G	N3-C4-N9	6.33	129.80	126.00
85	5	3072	C	C2-N3-C4	6.33	123.07	119.90
85	5	3391	A	OP2-P-O3'	6.33	119.13	105.20
38	8	14	C	O5'-P-OP2	-6.33	100.00	105.70
38	8	107	G	N1-C6-O6	6.33	123.70	119.90
49	m3	148	ALA	C-N-CA	-6.33	105.87	121.70
1	2	1265	U	C5-C6-N1	-6.33	119.53	122.70
36	1	941	G	N1-C2-N2	-6.33	110.50	116.20
36	1	1393	A	C6-N1-C2	-6.33	114.80	118.60
36	1	1789	G	N1-C2-N3	-6.33	120.10	123.90
36	1	2402	A	OP2-P-O3'	6.33	119.13	105.20
36	1	2727	A	O4'-C1'-N9	-6.33	103.14	108.20
36	1	3102	G	N3-C4-C5	-6.33	125.44	128.60
36	1	3247	G	N1-C2-N3	6.33	127.70	123.90
80	6	272	U	N3-C4-O4	6.33	123.83	119.40
80	6	601	A	N7-C8-N9	6.33	116.97	113.80
85	5	200	C	O5'-P-OP1	-6.33	100.00	105.70
85	5	231	G	C5-C6-O6	-6.33	124.80	128.60
85	5	647	A	C5-N7-C8	6.33	107.07	103.90
85	5	703	G	N1-C2-N3	6.33	127.70	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1165	A	C4-C5-C6	6.33	120.17	117.00
85	5	1246	G	O5'-P-OP2	6.33	118.30	110.70
85	5	1289	G	C5-N7-C8	-6.33	101.13	104.30
85	5	1673	G	N9-C4-C5	6.33	107.93	105.40
85	5	2560	C	C5-C6-N1	6.33	124.17	121.00
1	2	165	G	C6-C5-N7	-6.33	126.60	130.40
36	1	1291	A	C2-N3-C4	-6.33	107.44	110.60
85	5	869	G	OP1-P-OP2	-6.33	110.10	119.60
85	5	939	U	N3-C4-O4	6.33	123.83	119.40
85	5	1200	A	C5-C6-N6	-6.33	118.64	123.70
85	5	1706	C	C2-N1-C1'	6.33	125.76	118.80
85	5	1784	G	C5-C6-O6	6.33	132.40	128.60
85	5	2861	U	OP1-P-OP2	6.33	129.09	119.60
1	2	21	U	O5'-P-OP2	-6.33	100.00	105.70
1	2	620	A	C8-N9-C4	-6.33	103.27	105.80
1	2	1163	C	N1-C2-O2	6.33	122.70	118.90
36	1	21	G	C6-N1-C2	-6.33	121.30	125.10
36	1	993	G	OP1-P-OP2	6.33	129.09	119.60
36	1	1324	U	C2-N3-C4	-6.33	123.20	127.00
36	1	2297	U	C4-C5-C6	6.33	123.50	119.70
36	1	2534	G	N3-C4-C5	-6.33	125.44	128.60
80	6	701	U	C5-C6-N1	6.33	125.86	122.70
80	6	1018	U	C6-N1-C2	6.33	124.80	121.00
80	6	1365	C	C6-N1-C2	-6.33	117.77	120.30
85	5	589	A	N1-C2-N3	6.33	132.46	129.30
85	5	745	C	C2-N3-C4	-6.33	116.74	119.90
85	5	1184	A	C5-C6-N6	6.33	128.76	123.70
85	5	1681	U	C6-N1-C2	6.33	124.80	121.00
85	5	1924	U	N3-C4-O4	-6.33	114.97	119.40
85	5	2404	A	O5'-P-OP1	6.33	118.30	110.70
85	5	2610	G	N9-C1'-C2'	-6.33	105.04	112.00
85	5	2997	G	C5-N7-C8	-6.33	101.14	104.30
85	5	3042	U	N1-C2-O2	-6.33	118.37	122.80
42	l5	152	ARG	NE-CZ-NH1	-6.33	117.14	120.30
36	1	858	A	N1-C6-N6	-6.33	114.80	118.60
36	1	1247	U	C6-N1-C2	-6.33	117.20	121.00
36	1	1335	C	OP2-P-O3'	6.33	119.12	105.20
36	1	2195	C	N3-C2-O2	6.33	126.33	121.90
38	4	119	C	N3-C4-N4	6.33	122.43	118.00
40	L3	369	ARG	NE-CZ-NH1	-6.33	117.14	120.30
55	M9	119	LEU	CB-CG-CD1	-6.33	100.25	111.00
80	6	57	G	N1-C2-N3	6.33	127.70	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	75	U	N1-C2-N3	-6.33	111.10	114.90
80	6	909	U	N3-C2-O2	-6.33	117.77	122.20
85	5	13	A	C2-N3-C4	-6.33	107.44	110.60
85	5	2147	A	OP1-P-O3'	6.33	119.12	105.20
85	5	2429	G	N3-C4-N9	-6.33	122.20	126.00
85	5	2797	C	OP2-P-O3'	6.33	119.12	105.20
85	5	3392	U	N3-C2-O2	-6.33	117.77	122.20
38	8	38	U	N1-C2-N3	6.33	118.70	114.90
1	2	1330	U	N3-C4-C5	-6.33	110.81	114.60
36	1	1295	G	C8-N9-C4	-6.33	103.87	106.40
36	1	1352	A	N3-C4-N9	6.33	132.46	127.40
36	1	1427	U	N3-C4-C5	-6.33	110.81	114.60
36	1	1521	G	C4-C5-C6	6.33	122.59	118.80
36	1	1888	U	C6-N1-C2	-6.33	117.20	121.00
36	1	2997	G	C5-N7-C8	-6.33	101.14	104.30
36	1	3286	G	C5-C6-N1	6.33	114.66	111.50
37	3	28	C	N3-C4-N4	6.33	122.43	118.00
40	L3	332	ARG	NE-CZ-NH1	6.33	123.46	120.30
80	6	589	C	C5-C6-N1	6.33	124.16	121.00
80	6	879	G	C5-N7-C8	6.33	107.46	104.30
80	6	1649	G	C5-C6-O6	-6.33	124.81	128.60
85	5	66	A	C4-C5-N7	-6.33	107.54	110.70
85	5	287	G	N3-C4-C5	-6.33	125.44	128.60
85	5	1509	A	C5-C6-N6	6.33	128.76	123.70
85	5	1662	G	C8-N9-C1'	-6.33	118.78	127.00
85	5	2240	G	N3-C4-C5	6.33	131.76	128.60
85	5	3111	U	O5'-P-OP1	6.33	118.29	110.70
85	5	3387	U	C4-C5-C6	6.33	123.50	119.70
1	2	411	C	C5-C4-N4	6.32	124.63	120.20
1	2	1075	A	C4-C5-N7	6.32	113.86	110.70
30	D8	22	ARG	NE-CZ-NH1	6.32	123.46	120.30
36	1	1581	C	N3-C4-N4	6.32	122.43	118.00
36	1	2187	G	OP1-P-OP2	-6.32	110.11	119.60
36	1	2639	G	OP2-P-O3'	6.32	119.11	105.20
36	1	2895	G	N1-C6-O6	6.32	123.69	119.90
37	3	114	U	N3-C4-C5	6.32	118.39	114.60
80	6	799	A	N7-C8-N9	6.32	116.96	113.80
80	6	897	C	C5-C4-N4	6.32	124.63	120.20
85	5	817	A	C2-N3-C4	6.32	113.76	110.60
85	5	831	G	N3-C2-N2	-6.32	115.47	119.90
85	5	1456	A	C5-C6-N1	-6.32	114.54	117.70
85	5	1458	U	C2-N1-C1'	6.32	125.29	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2831	G	N3-C2-N2	-6.32	115.47	119.90
1	2	1552	A	C8-N9-C4	-6.32	103.27	105.80
36	1	718	G	C8-N9-C4	-6.32	103.87	106.40
36	1	1337	A	N1-C6-N6	-6.32	114.81	118.60
36	1	1856	C	O5'-P-OP1	-6.32	100.01	105.70
36	1	2546	C	N1-C2-O2	-6.32	115.11	118.90
36	1	2902	A	C6-N1-C2	-6.32	114.81	118.60
37	3	102	A	C2-N3-C4	-6.32	107.44	110.60
85	5	299	G	O5'-P-OP2	-6.32	100.01	105.70
85	5	1126	G	N9-C4-C5	6.32	107.93	105.40
85	5	1428	A	C8-N9-C4	6.32	108.33	105.80
85	5	2972	G	C5-C6-O6	-6.32	124.81	128.60
85	5	3083	G	C8-N9-C4	6.32	108.93	106.40
37	7	85	G	N3-C4-N9	6.32	129.79	126.00
69	o3	89	LEU	CB-CG-CD2	-6.32	100.25	111.00
1	2	722	G	N7-C8-N9	-6.32	109.94	113.10
36	1	583	G	N3-C2-N2	-6.32	115.48	119.90
36	1	1521	G	C5-N7-C8	-6.32	101.14	104.30
36	1	1562	C	N1-C2-O2	6.32	122.69	118.90
36	1	2172	A	N1-C6-N6	6.32	122.39	118.60
36	1	2175	U	OP1-P-OP2	6.32	129.08	119.60
36	1	2405	C	O5'-P-OP2	-6.32	100.01	105.70
36	1	2538	U	N1-C2-O2	6.32	127.22	122.80
37	3	13	A	C6-N1-C2	6.32	122.39	118.60
38	4	21	C	O5'-P-OP2	-6.32	100.01	105.70
80	6	110	U	C5-C6-N1	6.32	125.86	122.70
80	6	521	A	N1-C6-N6	-6.32	114.81	118.60
80	6	594	A	C5-C6-N6	6.32	128.76	123.70
80	6	1655	A	C5-C6-N1	6.32	120.86	117.70
80	6	1655	A	N9-C4-C5	6.32	108.33	105.80
8	s6	23	ARG	NE-CZ-NH2	6.32	123.46	120.30
85	5	339	C	C4-C5-C6	-6.32	114.24	117.40
85	5	1428	A	N7-C8-N9	-6.32	110.64	113.80
85	5	1434	G	C4-C5-N7	6.32	113.33	110.80
85	5	1752	A	C4-C5-N7	6.32	113.86	110.70
1	2	450	U	N1-C2-N3	6.32	118.69	114.90
1	2	982	U	OP1-P-OP2	-6.32	110.12	119.60
36	1	292	U	O5'-P-OP2	-6.32	100.01	105.70
36	1	2172	A	C2-N3-C4	-6.32	107.44	110.60
80	6	546	U	C2-N1-C1'	-6.32	110.12	117.70
85	5	246	U	C5-C6-N1	-6.32	119.54	122.70
85	5	2548	C	C2-N3-C4	6.32	123.06	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3016	A	C4-C5-C6	6.32	120.16	117.00
85	5	3052	G	N3-C4-C5	-6.32	125.44	128.60
1	2	539	G	C8-N9-C4	6.32	108.93	106.40
1	2	577	G	C4-C5-N7	6.32	113.33	110.80
1	2	1131	C	N3-C4-C5	6.32	124.43	121.90
36	1	37	U	C5-C6-N1	-6.32	119.54	122.70
36	1	498	A	N3-C4-C5	-6.32	122.38	126.80
36	1	888	A	C5-C6-N6	6.32	128.75	123.70
36	1	1211	U	C4-C5-C6	6.32	123.49	119.70
36	1	1508	C	P-O3'-C3'	-6.32	112.12	119.70
36	1	1544	G	C6-N1-C2	-6.32	121.31	125.10
36	1	1816	A	C4-C5-C6	-6.32	113.84	117.00
36	1	2218	G	O5'-P-OP1	6.32	118.28	110.70
36	1	2705	A	C5-N7-C8	6.32	107.06	103.90
36	1	2885	C	C6-N1-C1'	-6.32	113.22	120.80
36	1	3175	U	C6-N1-C2	-6.32	117.21	121.00
80	6	1199	G	N3-C4-C5	6.32	131.76	128.60
80	6	1761	U	C5-C4-O4	6.32	129.69	125.90
85	5	785	G	N1-C6-O6	6.32	123.69	119.90
85	5	823	C	C2-N3-C4	-6.32	116.74	119.90
85	5	1142	G	N3-C4-C5	-6.32	125.44	128.60
85	5	1885	U	N1-C2-N3	6.32	118.69	114.90
85	5	2231	C	C5-C4-N4	6.32	124.62	120.20
85	5	2717	U	N3-C4-C5	-6.32	110.81	114.60
85	5	2725	U	C4-C5-C6	6.32	123.49	119.70
85	5	2797	C	C5-C6-N1	6.32	124.16	121.00
85	5	3006	A	N9-C4-C5	6.32	108.33	105.80
85	5	3021	A	O5'-P-OP2	6.32	118.28	110.70
85	5	3087	A	OP1-P-OP2	-6.32	110.12	119.60
85	5	3246	G	C4-C5-C6	6.32	122.59	118.80
85	5	3301	U	C6-N1-C2	6.32	124.79	121.00
1	2	753	A	C8-N9-C4	6.32	108.33	105.80
36	1	128	G	C4-C5-C6	6.32	122.59	118.80
36	1	434	U	OP1-P-OP2	6.32	129.07	119.60
36	1	1337	A	OP2-P-O3'	6.32	119.09	105.20
36	1	1661	G	C5-C6-N1	-6.32	108.34	111.50
36	1	1809	A	C4-C5-N7	-6.32	107.54	110.70
36	1	2369	G	O4'-C1'-N9	6.32	113.25	108.20
80	6	493	U	C5-C6-N1	6.32	125.86	122.70
80	6	520	A	C2-N3-C4	-6.32	107.44	110.60
85	5	1074	U	N3-C4-C5	6.32	118.39	114.60
38	8	150	G	N1-C2-N3	6.32	127.69	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	l3	26	ARG	NE-CZ-NH2	6.32	123.46	120.30
1	2	57	G	C4-C5-N7	6.31	113.33	110.80
1	2	247	A	C5-C6-N6	6.31	128.75	123.70
1	2	950	A	C4-C5-N7	6.31	113.86	110.70
1	2	1078	U	C4-C5-C6	6.31	123.49	119.70
36	1	21	G	N3-C4-C5	-6.31	125.44	128.60
36	1	553	U	C5-C4-O4	6.31	129.69	125.90
36	1	1519	G	C4-C5-N7	6.31	113.33	110.80
36	1	2750	U	N1-C2-N3	6.31	118.69	114.90
36	1	2849	C	N3-C2-O2	-6.31	117.48	121.90
38	4	50	C	N1-C2-N3	6.31	123.62	119.20
47	M0	156	ARG	NE-CZ-NH1	-6.31	117.14	120.30
80	6	235	G	C5-C6-N1	-6.31	108.34	111.50
80	6	1746	A	OP2-P-O3'	6.31	119.09	105.20
85	5	2213	A	C5-C6-N1	-6.31	114.54	117.70
85	5	2799	A	N1-C6-N6	-6.31	114.81	118.60
1	2	228	G	N1-C6-O6	6.31	123.69	119.90
36	1	209	A	C8-N9-C4	6.31	108.33	105.80
36	1	397	A	C5-N7-C8	6.31	107.06	103.90
36	1	2215	A	N3-C4-N9	-6.31	122.35	127.40
36	1	2280	A	N1-C2-N3	6.31	132.46	129.30
36	1	2932	U	C2-N3-C4	-6.31	123.21	127.00
36	1	2987	A	N7-C8-N9	-6.31	110.64	113.80
36	1	3106	A	C8-N9-C4	-6.31	103.28	105.80
36	1	3184	A	N9-C4-C5	-6.31	103.28	105.80
36	1	3193	C	N1-C2-O2	-6.31	115.11	118.90
80	6	84	A	C8-N9-C4	6.31	108.33	105.80
80	6	783	G	C8-N9-C4	6.31	108.92	106.40
80	6	979	A	N1-C6-N6	-6.31	114.81	118.60
80	6	1029	U	C5-C4-O4	6.31	129.69	125.90
85	5	44	U	C5-C6-N1	-6.31	119.54	122.70
85	5	1449	A	N3-C4-C5	-6.31	122.38	126.80
85	5	1511	U	OP1-P-OP2	-6.31	110.13	119.60
85	5	2119	A	C5-C6-N6	-6.31	118.65	123.70
85	5	2867	C	OP1-P-O3'	6.31	119.09	105.20
85	5	2956	A	N1-C6-N6	6.31	122.39	118.60
85	5	3195	U	C5-C4-O4	-6.31	122.11	125.90
85	5	3232	G	C6-C5-N7	-6.31	126.61	130.40
37	7	12	U	C2-N3-C4	6.31	130.79	127.00
37	7	101	G	C6-N1-C2	-6.31	121.31	125.10
1	2	1181	G	C2-N3-C4	-6.31	108.75	111.90
36	1	531	G	N9-C4-C5	6.31	107.92	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1307	G	C8-N9-C4	6.31	108.92	106.40
38	4	157	U	C5-C4-O4	6.31	129.69	125.90
38	4	158	U	N1-C2-N3	-6.31	111.11	114.90
80	6	104	A	O5'-P-OP1	-6.31	100.02	105.70
80	6	1665	U	N3-C2-O2	6.31	126.62	122.20
1	2	362	G	O5'-P-OP2	-6.31	100.02	105.70
36	1	800	G	N3-C4-N9	-6.31	122.21	126.00
36	1	1018	G	C4-C5-N7	-6.31	108.28	110.80
36	1	1378	U	C5-C4-O4	-6.31	122.11	125.90
36	1	2337	C	N3-C4-C5	6.31	124.42	121.90
36	1	2701	U	OP1-P-OP2	6.31	129.06	119.60
80	6	463	U	C5-C6-N1	6.31	125.86	122.70
80	6	1745	G	C4-C5-N7	-6.31	108.28	110.80
85	5	883	A	N7-C8-N9	6.31	116.95	113.80
85	5	1069	C	N1-C2-N3	6.31	123.62	119.20
85	5	1778	G	N1-C2-N2	-6.31	110.52	116.20
85	5	1894	U	N1-C2-O2	-6.31	118.38	122.80
85	5	2330	C	N3-C4-C5	6.31	124.42	121.90
85	5	2374	C	C2-N1-C1'	6.31	125.74	118.80
85	5	2784	G	N3-C2-N2	6.31	124.32	119.90
85	5	2910	A	O5'-P-OP2	-6.31	100.02	105.70
37	7	46	A	OP2-P-O3'	6.31	119.08	105.20
37	7	91	G	N1-C2-N2	-6.31	110.52	116.20
38	8	103	G	C5-N7-C8	-6.31	101.15	104.30
1	2	1332	G	N3-C2-N2	-6.31	115.48	119.90
1	2	1578	U	N3-C4-C5	-6.31	110.81	114.60
36	1	306	A	N1-C6-N6	6.31	122.38	118.60
36	1	692	A	N3-C4-C5	-6.31	122.38	126.80
36	1	1227	C	N1-C2-O2	6.31	122.68	118.90
36	1	1495	U	C2-N1-C1'	-6.31	110.13	117.70
36	1	2369	G	C6-N1-C2	-6.31	121.32	125.10
36	1	2514	U	C2-N3-C4	-6.31	123.22	127.00
36	1	2895	G	C8-N9-C1'	-6.31	118.80	127.00
36	1	3246	G	C2-N3-C4	-6.31	108.75	111.90
38	4	46	G	C8-N9-C1'	-6.31	118.80	127.00
80	6	42	G	O5'-P-OP1	-6.31	100.02	105.70
80	6	143	G	C8-N9-C4	-6.31	103.88	106.40
80	6	1358	G	N7-C8-N9	-6.31	109.95	113.10
85	5	41	G	O5'-P-OP1	6.31	118.27	110.70
85	5	977	C	N1-C2-O2	-6.31	115.12	118.90
85	5	1345	G	C5-C6-N1	-6.31	108.35	111.50
85	5	3106	A	C6-N1-C2	-6.31	114.82	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3145	C	N3-C2-O2	6.31	126.31	121.90
38	8	1	A	C4-C5-C6	6.31	120.15	117.00
1	2	204	G	N3-C4-C5	-6.31	125.45	128.60
1	2	606	A	C6-N1-C2	6.31	122.38	118.60
1	2	920	C	C2-N3-C4	6.31	123.05	119.90
36	1	650	C	C5-C4-N4	-6.31	115.79	120.20
36	1	654	C	N3-C4-N4	6.31	122.41	118.00
36	1	1421	G	C5-C6-O6	-6.31	124.82	128.60
36	1	2269	U	N3-C4-C5	-6.31	110.82	114.60
36	1	3202	G	C5-N7-C8	-6.31	101.15	104.30
80	6	414	C	N3-C4-N4	6.31	122.41	118.00
85	5	258	G	N7-C8-N9	6.31	116.25	113.10
85	5	1861	G	N7-C8-N9	6.31	116.25	113.10
85	5	2550	U	N1-C2-O2	-6.31	118.39	122.80
85	5	3153	U	C2-N3-C4	-6.31	123.22	127.00
85	5	3246	G	C6-C5-N7	-6.31	126.62	130.40
85	5	3328	G	C2-N3-C4	6.31	115.05	111.90
1	2	672	G	C5-C6-N1	-6.30	108.35	111.50
1	2	1638	A	OP1-P-O3'	6.30	119.07	105.20
36	1	313	A	OP1-P-OP2	6.30	129.06	119.60
36	1	366	A	C5-C6-N6	6.30	128.74	123.70
36	1	933	A	C4-C5-C6	6.30	120.15	117.00
36	1	1181	U	N1-C2-O2	6.30	127.21	122.80
36	1	1805	C	N1-C2-N3	6.30	123.61	119.20
37	3	67	G	C8-N9-C4	6.30	108.92	106.40
37	3	112	G	C2-N3-C4	6.30	115.05	111.90
80	6	783	G	C4-C5-N7	-6.30	108.28	110.80
80	6	920	U	C2-N3-C4	6.30	130.78	127.00
80	6	1503	A	C5-C6-N1	-6.30	114.55	117.70
85	5	518	G	OP1-P-OP2	6.30	129.06	119.60
85	5	1131	G	C2-N3-C4	-6.30	108.75	111.90
85	5	2429	G	N3-C4-C5	6.30	131.75	128.60
37	7	24	A	C4-C5-C6	6.30	120.15	117.00
38	8	87	G	N3-C2-N2	6.30	124.31	119.90
38	8	89	A	OP1-P-O3'	6.30	119.07	105.20
55	m9	9	ARG	NE-CZ-NH2	-6.30	117.15	120.30
55	m9	136	ARG	NE-CZ-NH1	-6.30	117.15	120.30
59	n3	120	LYS	CD-CE-NZ	6.30	126.20	111.70
1	2	78	A	C8-N9-C4	-6.30	103.28	105.80
1	2	937	G	C5-C6-O6	-6.30	124.82	128.60
1	2	1190	C	N1-C2-N3	6.30	123.61	119.20
1	2	1352	U	C5-C4-O4	-6.30	122.12	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2244	A	C4-C5-N7	-6.30	107.55	110.70
36	1	3342	A	C6-N1-C2	6.30	122.38	118.60
38	4	26	U	N3-C4-O4	6.30	123.81	119.40
85	5	503	C	OP1-P-O3'	6.30	119.07	105.20
85	5	875	G	N3-C4-C5	-6.30	125.45	128.60
85	5	1087	G	C4-C5-N7	6.30	113.32	110.80
85	5	1506	A	O5'-P-OP2	-6.30	100.03	105.70
85	5	1683	A	N1-C2-N3	6.30	132.45	129.30
85	5	3369	G	C5-C6-O6	-6.30	124.82	128.60
1	2	1454	A	N7-C8-N9	6.30	116.95	113.80
36	1	100	A	C5-N7-C8	-6.30	100.75	103.90
36	1	223	U	N3-C2-O2	6.30	126.61	122.20
36	1	267	G	N1-C2-N2	6.30	121.87	116.20
36	1	933	A	C5-N7-C8	-6.30	100.75	103.90
36	1	1804	A	C4-C5-C6	6.30	120.15	117.00
36	1	1905	G	C4-C5-C6	6.30	122.58	118.80
36	1	2953	U	N3-C4-O4	6.30	123.81	119.40
36	1	2969	A	C6-C5-N7	-6.30	127.89	132.30
36	1	3212	C	C5-C6-N1	-6.30	117.85	121.00
36	1	3317	U	C5-C6-N1	-6.30	119.55	122.70
36	1	3330	A	N3-C4-N9	6.30	132.44	127.40
80	6	102	U	C4-C5-C6	-6.30	115.92	119.70
80	6	192	U	O5'-P-OP1	6.30	118.26	110.70
80	6	958	U	C5-C4-O4	6.30	129.68	125.90
80	6	1703	C	C4-C5-C6	-6.30	114.25	117.40
85	5	634	C	O5'-P-OP1	-6.30	100.03	105.70
85	5	830	A	C5-N7-C8	-6.30	100.75	103.90
85	5	1517	G	C8-N9-C4	-6.30	103.88	106.40
85	5	2866	U	C4-C5-C6	-6.30	115.92	119.70
1	2	1165	U	OP1-P-OP2	6.30	129.05	119.60
1	2	1424	C	N1-C2-N3	-6.30	114.79	119.20
36	1	92	G	N3-C4-C5	-6.30	125.45	128.60
36	1	356	C	N1-C2-N3	6.30	123.61	119.20
36	1	1519	G	N1-C6-O6	6.30	123.68	119.90
36	1	1680	G	N1-C2-N3	6.30	127.68	123.90
36	1	2312	A	N1-C2-N3	6.30	132.45	129.30
36	1	2940	A	C6-N1-C2	-6.30	114.82	118.60
36	1	2985	C	N3-C2-O2	-6.30	117.49	121.90
36	1	3251	U	N3-C4-C5	6.30	118.38	114.60
36	1	3325	G	N3-C4-C5	-6.30	125.45	128.60
80	6	568	G	C5-C6-O6	-6.30	124.82	128.60
80	6	1099	U	C4-C5-C6	6.30	123.48	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1139	A	O5'-P-OP1	-6.30	100.03	105.70
80	6	1439	C	C2-N3-C4	6.30	123.05	119.90
85	5	111	C	N3-C4-C5	6.30	124.42	121.90
85	5	327	A	C5-N7-C8	-6.30	100.75	103.90
85	5	1456	A	OP1-P-O3'	6.30	119.06	105.20
85	5	2989	U	O5'-P-OP1	6.30	118.26	110.70
85	5	3090	U	N3-C2-O2	6.30	126.61	122.20
37	7	65	G	C5-C6-O6	-6.30	124.82	128.60
36	1	388	G	N1-C2-N3	6.30	127.68	123.90
36	1	695	C	C4-C5-C6	6.30	120.55	117.40
36	1	900	G	N7-C8-N9	6.30	116.25	113.10
36	1	1230	G	N1-C6-O6	6.30	123.68	119.90
36	1	2691	A	C5-C6-N1	6.30	120.85	117.70
36	1	3360	C	C6-N1-C2	-6.30	117.78	120.30
85	5	613	G	N3-C2-N2	-6.30	115.49	119.90
85	5	2188	A	C5-C6-N6	6.30	128.74	123.70
85	5	3309	G	C5-N7-C8	-6.30	101.15	104.30
38	8	89	A	O5'-P-OP2	-6.30	100.03	105.70
61	n5	42	ARG	NE-CZ-NH2	6.30	123.45	120.30
1	2	416	A	C4-C5-N7	6.30	113.85	110.70
1	2	440	U	N1-C2-N3	6.30	118.68	114.90
1	2	753	A	N7-C8-N9	-6.30	110.65	113.80
1	2	1400	A	C5-C6-N1	-6.30	114.55	117.70
36	1	278	U	N3-C2-O2	-6.30	117.79	122.20
36	1	404	G	OP1-P-OP2	6.30	129.04	119.60
36	1	531	G	C8-N9-C4	-6.30	103.88	106.40
36	1	2182	A	N3-C4-C5	-6.30	122.39	126.80
36	1	2411	U	C5-C6-N1	-6.30	119.55	122.70
36	1	2680	A	C5-C6-N6	-6.30	118.66	123.70
36	1	2756	C	C2-N1-C1'	6.30	125.73	118.80
36	1	3063	C	N1-C2-N3	6.30	123.61	119.20
36	1	3194	C	C6-N1-C2	-6.30	117.78	120.30
36	1	3213	A	O5'-P-OP1	-6.30	100.03	105.70
38	4	111	A	C5-N7-C8	-6.30	100.75	103.90
80	6	305	C	C5-C4-N4	-6.30	115.79	120.20
85	5	295	A	C5-C6-N6	-6.30	118.66	123.70
85	5	406	G	C8-N9-C4	-6.30	103.88	106.40
85	5	432	G	C4-C5-C6	6.30	122.58	118.80
85	5	641	C	C2-N1-C1'	-6.30	111.87	118.80
85	5	1130	A	N3-C4-C5	-6.30	122.39	126.80
85	5	1272	C	C2-N3-C4	6.30	123.05	119.90
85	5	1455	U	N3-C2-O2	-6.30	117.79	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1666	G	N1-C6-O6	6.30	123.68	119.90
85	5	1794	G	C8-N9-C4	-6.30	103.88	106.40
85	5	1931	U	N1-C2-N3	6.30	118.68	114.90
85	5	2155	G	N3-C4-N9	6.30	129.78	126.00
85	5	2843	U	OP1-P-OP2	-6.30	110.16	119.60
85	5	2909	U	C2-N3-C4	-6.30	123.22	127.00
37	7	64	A	N1-C2-N3	-6.30	126.15	129.30
38	8	42	G	OP1-P-O3'	6.30	119.05	105.20
1	2	441	A	O5'-P-OP2	-6.29	100.03	105.70
36	1	1511	U	C6-N1-C2	-6.29	117.22	121.00
36	1	1566	A	N7-C8-N9	6.29	116.95	113.80
36	1	2275	A	C5-N7-C8	-6.29	100.75	103.90
85	5	954	U	C4-C5-C6	6.29	123.48	119.70
85	5	1065	A	N1-C2-N3	6.29	132.45	129.30
85	5	2882	U	N1-C2-N3	6.29	118.68	114.90
38	8	87	G	C5-N7-C8	6.29	107.45	104.30
1	2	388	G	N1-C2-N2	6.29	121.86	116.20
1	2	971	A	OP1-P-OP2	6.29	129.04	119.60
36	1	296	A	C5-N7-C8	-6.29	100.75	103.90
36	1	717	C	C4-C5-C6	6.29	120.55	117.40
36	1	761	A	N1-C6-N6	6.29	122.38	118.60
36	1	1803	C	N3-C2-O2	6.29	126.31	121.90
38	4	107	G	C5-N7-C8	6.29	107.45	104.30
80	6	57	G	C4-C5-N7	-6.29	108.28	110.80
80	6	320	U	C5-C4-O4	6.29	129.68	125.90
80	6	946	U	C5-C4-O4	6.29	129.68	125.90
80	6	1300	A	C8-N9-C4	-6.29	103.28	105.80
80	6	1323	C	N3-C4-N4	-6.29	113.59	118.00
80	6	1450	U	N1-C2-N3	-6.29	111.12	114.90
80	6	1792	G	N1-C2-N3	6.29	127.68	123.90
85	5	317	A	C2-N3-C4	-6.29	107.45	110.60
85	5	406	G	N1-C2-N2	-6.29	110.54	116.20
85	5	511	G	N3-C4-N9	-6.29	122.22	126.00
85	5	835	G	N3-C4-N9	6.29	129.78	126.00
85	5	1894	U	N3-C4-C5	6.29	118.38	114.60
85	5	1917	C	C6-N1-C2	-6.29	117.78	120.30
85	5	2106	A	N7-C8-N9	6.29	116.95	113.80
85	5	2401	A	N1-C6-N6	-6.29	114.82	118.60
85	5	2575	G	C4-C5-N7	-6.29	108.28	110.80
85	5	2655	U	N3-C4-O4	-6.29	114.99	119.40
1	2	19	A	C5-C6-N1	-6.29	114.55	117.70
1	2	98	U	N1-C2-N3	-6.29	111.12	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	408	C	C5-C6-N1	-6.29	117.85	121.00
1	2	822	U	N3-C4-O4	6.29	123.80	119.40
1	2	1523	G	C8-N9-C4	-6.29	103.88	106.40
36	1	155	G	C6-N1-C2	-6.29	121.33	125.10
36	1	507	U	N3-C4-O4	6.29	123.81	119.40
36	1	1186	G	N7-C8-N9	-6.29	109.95	113.10
36	1	1880	U	N3-C4-C5	-6.29	110.83	114.60
36	1	2306	C	C5-C4-N4	-6.29	115.80	120.20
36	1	2333	C	O5'-P-OP1	-6.29	100.04	105.70
36	1	2877	G	N7-C8-N9	6.29	116.25	113.10
41	L4	327	LEU	CA-CB-CG	6.29	129.77	115.30
80	6	65	A	N1-C6-N6	6.29	122.38	118.60
80	6	789	A	C5-C6-N1	-6.29	114.55	117.70
80	6	1399	C	N3-C4-C5	-6.29	119.38	121.90
85	5	154	U	OP1-P-O3'	6.29	119.04	105.20
85	5	533	A	C6-N1-C2	-6.29	114.83	118.60
85	5	1359	C	N3-C2-O2	6.29	126.30	121.90
85	5	1567	U	C6-N1-C2	-6.29	117.22	121.00
85	5	2216	G	N1-C2-N3	6.29	127.67	123.90
85	5	2323	G	N7-C8-N9	6.29	116.25	113.10
85	5	2651	G	C4-C5-N7	-6.29	108.28	110.80
85	5	2867	C	N3-C2-O2	6.29	126.30	121.90
85	5	3030	G	C6-N1-C2	-6.29	121.33	125.10
1	2	1485	G	N1-C2-N2	-6.29	110.54	116.20
36	1	650	C	C2-N3-C4	6.29	123.05	119.90
36	1	1168	U	N1-C2-N3	6.29	118.67	114.90
37	3	6	C	C5-C6-N1	6.29	124.14	121.00
38	4	6	U	C5-C4-O4	-6.29	122.13	125.90
85	5	267	G	N1-C6-O6	6.29	123.67	119.90
85	5	1111	U	C6-N1-C2	6.29	124.77	121.00
85	5	2219	A	O5'-P-OP2	6.29	118.25	110.70
85	5	2333	C	OP2-P-O3'	6.29	119.04	105.20
85	5	2743	A	C4-C5-C6	6.29	120.14	117.00
85	5	3276	G	O4'-C1'-N9	6.29	113.23	108.20
1	2	298	C	C5-C4-N4	-6.29	115.80	120.20
1	2	651	G	C4-C5-N7	-6.29	108.28	110.80
36	1	298	U	O5'-P-OP1	-6.29	100.04	105.70
36	1	429	U	C5-C6-N1	-6.29	119.56	122.70
36	1	648	C	OP1-P-O3'	6.29	119.03	105.20
36	1	1100	U	C5-C6-N1	-6.29	119.56	122.70
36	1	1135	A	N7-C8-N9	6.29	116.94	113.80
36	1	1194	G	N7-C8-N9	6.29	116.25	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2117	A	C4-C5-N7	-6.29	107.56	110.70
36	1	2390	A	C5-C6-N1	6.29	120.84	117.70
36	1	2903	A	C4-C5-N7	-6.29	107.56	110.70
38	4	49	G	N1-C6-O6	-6.29	116.13	119.90
38	4	107	G	OP1-P-OP2	6.29	129.03	119.60
44	L7	175	LYS	CD-CE-NZ	6.29	126.16	111.70
80	6	1182	U	C5-C6-N1	-6.29	119.56	122.70
85	5	599	C	N3-C4-C5	6.29	124.42	121.90
85	5	801	A	C5-C6-N6	6.29	128.73	123.70
85	5	914	A	C5-N7-C8	-6.29	100.75	103.90
85	5	1134	G	N1-C2-N2	-6.29	110.54	116.20
85	5	1873	U	N3-C4-C5	-6.29	110.83	114.60
85	5	1931	U	N3-C2-O2	-6.29	117.80	122.20
85	5	2903	A	OP1-P-OP2	6.29	129.03	119.60
85	5	3093	C	O5'-P-OP1	-6.29	100.04	105.70
36	1	137	G	C5-N7-C8	-6.29	101.16	104.30
36	1	200	C	OP1-P-O3'	6.29	119.03	105.20
36	1	610	G	N7-C8-N9	6.29	116.24	113.10
36	1	815	G	C2-N3-C4	-6.29	108.76	111.90
36	1	1301	A	N1-C2-N3	-6.29	126.16	129.30
36	1	1396	C	N3-C4-N4	6.29	122.40	118.00
36	1	1463	U	C4-C5-C6	6.29	123.47	119.70
85	5	329	U	O4'-C1'-N1	6.29	113.23	108.20
85	5	554	A	C6-N1-C2	6.29	122.37	118.60
85	5	897	U	N3-C2-O2	-6.29	117.80	122.20
85	5	1556	C	N3-C2-O2	-6.29	117.50	121.90
38	8	17	A	N9-C4-C5	-6.29	103.28	105.80
1	2	235	G	N1-C2-N2	6.29	121.86	116.20
1	2	583	C	N1-C2-O2	-6.29	115.13	118.90
1	2	822	U	N1-C2-O2	-6.29	118.40	122.80
36	1	782	U	N3-C4-O4	-6.29	115.00	119.40
36	1	1946	A	OP1-P-OP2	-6.29	110.17	119.60
36	1	2225	U	N1-C2-O2	-6.29	118.40	122.80
36	1	2630	C	OP1-P-OP2	6.29	129.03	119.60
36	1	2665	U	N3-C2-O2	-6.29	117.80	122.20
36	1	3124	G	C5-C6-O6	6.29	132.37	128.60
36	1	3326	G	C8-N9-C1'	-6.29	118.83	127.00
38	4	95	G	N7-C8-N9	-6.29	109.96	113.10
80	6	364	G	O5'-P-OP2	-6.29	100.04	105.70
80	6	379	U	C2-N1-C1'	6.29	125.24	117.70
80	6	1161	C	C2-N3-C4	-6.29	116.76	119.90
85	5	420	G	C6-C5-N7	6.29	134.17	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1108	U	C5-C4-O4	6.29	129.67	125.90
85	5	2171	G	C5-C6-N1	6.29	114.64	111.50
85	5	2172	A	C4-C5-N7	6.29	113.84	110.70
85	5	2349	U	N3-C2-O2	6.29	126.60	122.20
85	5	2505	U	C5-C6-N1	6.29	125.84	122.70
85	5	2744	U	C2-N1-C1'	6.29	125.24	117.70
85	5	2956	A	OP1-P-OP2	-6.29	110.17	119.60
42	15	277	LEU	CB-CG-CD2	-6.29	100.31	111.00
1	2	923	A	C8-N9-C4	-6.28	103.29	105.80
1	2	1171	G	C4-C5-C6	6.28	122.57	118.80
1	2	1640	U	N3-C4-C5	6.28	118.37	114.60
36	1	1417	G	C5-C6-O6	-6.28	124.83	128.60
36	1	1613	A	C2-N3-C4	-6.28	107.46	110.60
36	1	1876	U	C6-N1-C2	-6.28	117.23	121.00
36	1	2139	A	N1-C2-N3	6.28	132.44	129.30
36	1	2916	U	N1-C2-N3	-6.28	111.13	114.90
38	4	37	A	N3-C4-C5	-6.28	122.40	126.80
80	6	119	A	C4-C5-C6	6.28	120.14	117.00
80	6	801	G	C6-N1-C2	-6.28	121.33	125.10
80	6	909	U	C6-N1-C2	-6.28	117.23	121.00
85	5	711	A	O5'-P-OP2	-6.28	100.05	105.70
85	5	933	A	C5-N7-C8	6.28	107.04	103.90
85	5	1190	A	N3-C4-N9	-6.28	122.37	127.40
85	5	2258	U	C2-N1-C1'	6.28	125.24	117.70
85	5	2353	G	C5-N7-C8	-6.28	101.16	104.30
85	5	2372	A	N3-C4-N9	6.28	132.43	127.40
85	5	2725	U	O4'-C1'-N1	6.28	113.23	108.20
1	2	1626	U	C5-C6-N1	-6.28	119.56	122.70
36	1	2514	U	OP1-P-OP2	6.28	129.02	119.60
36	1	2557	A	C2-N3-C4	-6.28	107.46	110.60
37	3	27	A	C6-C5-N7	-6.28	127.90	132.30
80	6	228	G	C5-C6-O6	6.28	132.37	128.60
85	5	39	A	O5'-P-OP1	6.28	118.24	110.70
85	5	425	G	N3-C4-N9	-6.28	122.23	126.00
85	5	2754	G	C5-N7-C8	6.28	107.44	104.30
38	8	103	G	C4-C5-C6	6.28	122.57	118.80
1	2	507	U	OP1-P-OP2	-6.28	110.18	119.60
1	2	621	A	C4-C5-C6	-6.28	113.86	117.00
1	2	1150	G	C4-C5-N7	6.28	113.31	110.80
36	1	787	G	C4-C5-N7	6.28	113.31	110.80
36	1	835	G	N1-C6-O6	-6.28	116.13	119.90
36	1	1181	U	N3-C4-O4	-6.28	115.00	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1417	G	OP2-P-O3'	6.28	119.02	105.20
36	1	2736	A	O5'-P-OP1	-6.28	100.05	105.70
36	1	3102	G	N1-C6-O6	-6.28	116.13	119.90
37	3	50	U	N3-C4-C5	-6.28	110.83	114.60
80	6	477	A	C8-N9-C4	6.28	108.31	105.80
80	6	534	A	C2-N3-C4	6.28	113.74	110.60
80	6	648	G	C2-N3-C4	6.28	115.04	111.90
80	6	1589	C	N1-C2-N3	6.28	123.60	119.20
85	5	106	A	C4-C5-C6	-6.28	113.86	117.00
85	5	723	U	N1-C2-O2	-6.28	118.40	122.80
85	5	828	A	C5-C6-N6	6.28	128.72	123.70
85	5	1024	G	C2-N3-C4	6.28	115.04	111.90
85	5	1567	U	C2-N3-C4	6.28	130.77	127.00
85	5	2701	U	OP1-P-OP2	-6.28	110.18	119.60
85	5	2851	A	O5'-P-OP2	-6.28	100.05	105.70
85	5	3141	A	C5-N7-C8	-6.28	100.76	103.90
85	5	3248	C	C5-C4-N4	-6.28	115.80	120.20
37	7	64	A	N9-C4-C5	-6.28	103.29	105.80
49	m3	49	ARG	NE-CZ-NH1	-6.28	117.16	120.30
36	1	1132	C	N3-C4-C5	-6.28	119.39	121.90
36	1	1401	A	N9-C4-C5	-6.28	103.29	105.80
36	1	2246	G	N1-C2-N2	6.28	121.85	116.20
80	6	99	C	N3-C4-C5	6.28	124.41	121.90
80	6	337	G	C4-C5-N7	6.28	113.31	110.80
85	5	876	A	C6-N1-C2	-6.28	114.83	118.60
85	5	898	U	N3-C4-C5	-6.28	110.83	114.60
85	5	2256	A	C8-N9-C4	6.28	108.31	105.80
85	5	2523	A	OP2-P-O3'	6.28	119.01	105.20
85	5	3371	G	C2-N3-C4	6.28	115.04	111.90
36	1	2319	U	C5-C6-N1	6.28	125.84	122.70
36	1	2758	A	C4-C5-C6	-6.28	113.86	117.00
36	1	3390	G	C2-N3-C4	-6.28	108.76	111.90
80	6	1335	U	C4-C5-C6	6.28	123.47	119.70
80	6	1670	G	C5-C6-O6	-6.28	124.83	128.60
85	5	129	U	C2-N3-C4	6.28	130.77	127.00
85	5	564	G	C2-N3-C4	6.28	115.04	111.90
85	5	690	A	C2-N3-C4	-6.28	107.46	110.60
85	5	2646	C	C4-C5-C6	-6.28	114.26	117.40
85	5	2703	A	C5-C6-N1	6.28	120.84	117.70
85	5	3074	G	C2-N3-C4	6.28	115.04	111.90
85	5	3243	A	C4-C5-C6	6.28	120.14	117.00
1	2	1260	G	C5-C6-N1	-6.28	108.36	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1616	A	C5-C6-N6	6.28	128.72	123.70
36	1	1310	G	C8-N9-C4	-6.28	103.89	106.40
36	1	1374	G	C2-N3-C4	-6.28	108.76	111.90
36	1	1409	G	C4-C5-N7	-6.28	108.29	110.80
36	1	2293	C	C2-N3-C4	6.28	123.04	119.90
36	1	2528	G	C6-C5-N7	-6.28	126.63	130.40
36	1	2843	U	O4'-C1'-N1	6.28	113.22	108.20
36	1	2959	C	OP1-P-OP2	-6.28	110.19	119.60
80	6	87	C	N1-C2-N3	6.28	123.59	119.20
80	6	271	A	OP2-P-O3'	6.28	119.00	105.20
80	6	292	U	O5'-P-OP2	-6.28	100.05	105.70
80	6	423	G	O5'-P-OP1	-6.28	100.05	105.70
80	6	937	C	N1-C2-N3	6.28	123.59	119.20
80	6	1036	A	N1-C6-N6	-6.28	114.83	118.60
80	6	1291	G	C4-C5-N7	-6.28	108.29	110.80
85	5	57	A	N3-C4-C5	6.28	131.19	126.80
85	5	1739	U	O5'-P-OP1	6.28	118.23	110.70
85	5	2229	A	OP1-P-OP2	-6.28	110.19	119.60
85	5	2656	A	C8-N9-C4	-6.28	103.29	105.80
36	1	757	C	N1-C2-N3	6.27	123.59	119.20
36	1	2520	A	C2-N3-C4	-6.27	107.46	110.60
36	1	3288	G	C5-N7-C8	-6.27	101.16	104.30
37	3	63	A	N9-C4-C5	6.27	108.31	105.80
80	6	919	A	C2-N3-C4	-6.27	107.46	110.60
80	6	1137	A	C5-C6-N1	-6.27	114.56	117.70
85	5	1107	C	N3-C4-C5	-6.27	119.39	121.90
85	5	3078	U	N3-C4-C5	-6.27	110.84	114.60
85	5	3335	A	N9-C4-C5	-6.27	103.29	105.80
38	8	81	U	N1-C2-N3	-6.27	111.14	114.90
1	2	1135	A	N9-C4-C5	6.27	108.31	105.80
1	2	1301	G	N3-C2-N2	6.27	124.29	119.90
36	1	626	U	C6-N1-C2	-6.27	117.24	121.00
36	1	836	A	OP2-P-O3'	6.27	119.00	105.20
36	1	2430	A	C6-C5-N7	-6.27	127.91	132.30
80	6	298	C	N3-C2-O2	6.27	126.29	121.90
80	6	418	G	O5'-P-OP1	-6.27	100.06	105.70
80	6	1111	G	C8-N9-C1'	-6.27	118.85	127.00
85	5	210	U	O5'-P-OP1	-6.27	100.06	105.70
85	5	565	U	N3-C4-C5	6.27	118.36	114.60
85	5	847	A	N1-C2-N3	6.27	132.44	129.30
85	5	2216	G	C5-C6-O6	6.27	132.36	128.60
37	7	92	A	O5'-P-OP2	-6.27	100.06	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	254	A	C2-N3-C4	-6.27	107.47	110.60
1	2	860	G	C5-C6-N1	6.27	114.64	111.50
1	2	1068	G	C6-N1-C2	-6.27	121.34	125.10
36	1	2818	U	C4-C5-C6	-6.27	115.94	119.70
36	1	2927	C	N3-C4-N4	-6.27	113.61	118.00
37	3	78	U	N1-C2-O2	-6.27	118.41	122.80
80	6	634	G	N3-C2-N2	-6.27	115.51	119.90
85	5	421	G	C6-N1-C2	-6.27	121.34	125.10
85	5	1722	U	N1-C2-N3	6.27	118.66	114.90
85	5	3100	U	C4-C5-C6	-6.27	115.94	119.70
85	5	3116	G	N7-C8-N9	6.27	116.23	113.10
38	8	19	C	N1-C2-N3	6.27	123.59	119.20
1	2	140	A	C5-C6-N1	-6.27	114.57	117.70
1	2	421	A	C2-N3-C4	-6.27	107.47	110.60
1	2	443	C	N3-C2-O2	-6.27	117.51	121.90
1	2	1463	G	N1-C6-O6	6.27	123.66	119.90
36	1	330	G	O5'-P-OP1	-6.27	100.06	105.70
36	1	354	U	C5-C6-N1	6.27	125.83	122.70
36	1	360	G	C6-N1-C2	-6.27	121.34	125.10
36	1	691	A	OP1-P-O3'	6.27	118.99	105.20
36	1	955	U	N1-C2-N3	6.27	118.66	114.90
36	1	989	A	C5-N7-C8	-6.27	100.77	103.90
36	1	1169	A	OP2-P-O3'	6.27	118.99	105.20
36	1	1906	G	N7-C8-N9	6.27	116.23	113.10
36	1	2800	G	N3-C4-N9	6.27	129.76	126.00
37	3	84	A	N1-C2-N3	6.27	132.43	129.30
85	5	1118	C	C6-N1-C2	-6.27	117.79	120.30
85	5	2339	C	N3-C4-C5	-6.27	119.39	121.90
85	5	3109	G	C8-N9-C4	-6.27	103.89	106.40
85	5	3167	A	N7-C8-N9	6.27	116.94	113.80
38	8	2	A	O5'-P-OP1	6.27	118.22	110.70
36	1	91	G	O5'-P-OP1	6.27	118.22	110.70
36	1	802	C	C5-C6-N1	6.27	124.13	121.00
36	1	1147	G	C6-C5-N7	6.27	134.16	130.40
36	1	2119	A	C5-C6-N1	6.27	120.83	117.70
36	1	2715	A	N9-C4-C5	6.27	108.31	105.80
37	3	91	G	N1-C6-O6	6.27	123.66	119.90
44	L7	108	LEU	CB-CG-CD2	-6.27	100.34	111.00
51	M5	83	LYS	CD-CE-NZ	6.27	126.11	111.70
80	6	50	C	C5-C6-N1	-6.27	117.87	121.00
80	6	475	A	N3-C4-C5	-6.27	122.41	126.80
80	6	1270	G	O5'-P-OP2	-6.27	100.06	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1499	G	N3-C2-N2	6.27	124.29	119.90
80	6	1579	U	C6-N1-C2	6.27	124.76	121.00
85	5	1355	A	O4'-C1'-N9	6.27	113.21	108.20
85	5	2139	A	C2-N3-C4	-6.27	107.47	110.60
85	5	2397	A	C6-N1-C2	-6.27	114.84	118.60
85	5	2618	G	O5'-P-OP1	-6.27	100.06	105.70
85	5	2800	G	C5-N7-C8	6.27	107.43	104.30
85	5	2925	C	OP2-P-O3'	6.27	118.99	105.20
1	2	1643	A	C6-N1-C2	-6.27	114.84	118.60
36	1	2889	C	N3-C4-C5	6.27	124.41	121.90
36	1	3350	C	C2-N3-C4	6.27	123.03	119.90
85	5	268	A	C8-N9-C4	-6.27	103.29	105.80
85	5	961	C	C4-C5-C6	6.27	120.53	117.40
85	5	1181	U	OP1-P-OP2	6.27	129.00	119.60
85	5	1333	C	OP2-P-O3'	6.27	118.98	105.20
85	5	1466	G	C4-C5-N7	-6.27	108.29	110.80
85	5	2117	A	OP1-P-OP2	6.27	129.00	119.60
85	5	2402	A	C6-N1-C2	-6.27	114.84	118.60
85	5	3345	G	N1-C2-N2	6.27	121.84	116.20
38	8	86	U	C4-C5-C6	-6.27	115.94	119.70
1	2	611	U	N3-C2-O2	-6.26	117.81	122.20
36	1	128	G	N1-C2-N3	6.26	127.66	123.90
36	1	782	U	N3-C4-C5	6.26	118.36	114.60
36	1	2290	C	C5-C4-N4	6.26	124.58	120.20
36	1	2523	A	N3-C4-C5	-6.26	122.42	126.80
71	O5	23	ASP	CB-CG-OD1	6.26	123.94	118.30
80	6	348	U	C4-C5-C6	6.26	123.46	119.70
85	5	306	A	O4'-C1'-N9	-6.26	103.19	108.20
85	5	1393	A	C4-N9-C1'	6.26	137.58	126.30
85	5	1898	G	C8-N9-C4	-6.26	103.89	106.40
85	5	2257	C	C5-C6-N1	6.26	124.13	121.00
85	5	2383	C	C2-N1-C1'	6.26	125.69	118.80
85	5	2548	C	C5-C4-N4	6.26	124.58	120.20
85	5	2627	C	C4-C5-C6	6.26	120.53	117.40
85	5	3269	U	N3-C4-O4	-6.26	115.02	119.40
37	7	26	C	O5'-P-OP2	-6.26	100.06	105.70
1	2	749	U	N3-C4-C5	-6.26	110.84	114.60
1	2	1164	U	N3-C2-O2	-6.26	117.82	122.20
36	1	106	A	C2-N3-C4	-6.26	107.47	110.60
36	1	869	G	C2-N3-C4	-6.26	108.77	111.90
36	1	1102	A	C2-N3-C4	-6.26	107.47	110.60
36	1	1559	A	C4-C5-C6	6.26	120.13	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	948	G	OP1-P-O3'	6.26	118.98	105.20
85	5	235	A	C2-N3-C4	-6.26	107.47	110.60
1	2	555	A	N3-C4-C5	-6.26	122.42	126.80
1	2	1745	A	O5'-P-OP1	-6.26	100.06	105.70
36	1	209	A	O5'-P-OP2	-6.26	100.06	105.70
36	1	1783	U	C2-N3-C4	6.26	130.76	127.00
36	1	2161	G	C4-C5-N7	6.26	113.31	110.80
36	1	2285	C	N3-C4-N4	-6.26	113.62	118.00
36	1	2582	C	C6-N1-C2	-6.26	117.80	120.30
36	1	2681	U	N3-C4-C5	6.26	118.36	114.60
36	1	2767	U	N3-C4-O4	-6.26	115.02	119.40
80	6	1115	U	C2-N3-C4	-6.26	123.24	127.00
80	6	1280	C	N3-C2-O2	6.26	126.28	121.90
85	5	3149	G	N3-C4-C5	6.26	131.73	128.60
38	8	32	C	OP1-P-O3'	6.26	118.98	105.20
38	8	134	G	N3-C2-N2	6.26	124.28	119.90
1	2	1026	A	C5-C6-N1	-6.26	114.57	117.70
36	1	392	G	O5'-P-OP1	-6.26	100.07	105.70
36	1	610	G	C5-N7-C8	-6.26	101.17	104.30
36	1	773	G	C4-C5-N7	-6.26	108.30	110.80
36	1	1201	C	N1-C2-O2	6.26	122.66	118.90
36	1	1328	C	OP1-P-OP2	6.26	128.99	119.60
36	1	1546	A	N7-C8-N9	6.26	116.93	113.80
36	1	1656	A	C8-N9-C4	6.26	108.30	105.80
36	1	2099	A	C5-C6-N6	6.26	128.71	123.70
36	1	3205	G	N1-C6-O6	-6.26	116.14	119.90
38	4	88	A	N9-C4-C5	6.26	108.30	105.80
80	6	412	A	C2-N3-C4	6.26	113.73	110.60
80	6	1064	G	O5'-P-OP2	6.26	118.21	110.70
80	6	1320	U	OP1-P-OP2	6.26	128.99	119.60
80	6	1531	G	N1-C6-O6	-6.26	116.14	119.90
80	6	1658	G	N1-C2-N2	-6.26	110.57	116.20
80	6	1671	A	OP2-P-O3'	6.26	118.97	105.20
85	5	611	A	C4-C5-C6	-6.26	113.87	117.00
85	5	1390	A	N1-C2-N3	6.26	132.43	129.30
85	5	1424	C	OP1-P-OP2	6.26	128.99	119.60
85	5	1594	A	N1-C2-N3	6.26	132.43	129.30
85	5	2138	A	C4-C5-C6	6.26	120.13	117.00
85	5	2740	A	C6-C5-N7	-6.26	127.92	132.30
85	5	2937	G	C2-N3-C4	-6.26	108.77	111.90
38	8	77	A	N1-C2-N3	6.26	132.43	129.30
1	2	223	U	N3-C4-C5	-6.26	110.84	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	511	A	C2-N3-C4	6.26	113.73	110.60
36	1	586	C	N3-C4-C5	6.26	124.40	121.90
36	1	724	U	O5'-P-OP1	6.26	118.21	110.70
36	1	935	U	OP1-P-OP2	6.26	128.99	119.60
36	1	1325	U	OP1-P-OP2	6.26	128.99	119.60
36	1	1629	U	C6-N1-C2	-6.26	117.25	121.00
36	1	2661	G	OP1-P-O3'	6.26	118.97	105.20
36	1	2968	G	C6-C5-N7	-6.26	126.64	130.40
80	6	354	C	N3-C4-C5	-6.26	119.40	121.90
85	5	159	A	C8-N9-C4	6.26	108.30	105.80
85	5	991	G	C5-C6-O6	-6.26	124.84	128.60
36	1	382	U	C5-C4-O4	-6.26	122.15	125.90
36	1	570	A	N1-C6-N6	6.26	122.35	118.60
36	1	1060	U	N3-C4-C5	6.26	118.35	114.60
36	1	1429	G	N3-C2-N2	6.26	124.28	119.90
36	1	1543	G	C2-N3-C4	6.26	115.03	111.90
36	1	1833	G	N3-C4-N9	6.26	129.75	126.00
36	1	2605	G	C6-N1-C2	-6.26	121.35	125.10
80	6	521	A	C4-C5-N7	-6.26	107.57	110.70
80	6	1165	G	N7-C8-N9	-6.26	109.97	113.10
32	e0	56	MET	CG-SD-CE	6.26	110.21	100.20
85	5	1747	G	C8-N9-C4	-6.26	103.90	106.40
85	5	2591	A	C5-C6-N1	-6.26	114.57	117.70
85	5	2651	G	N7-C8-N9	-6.26	109.97	113.10
85	5	2871	G	N3-C4-N9	-6.26	122.25	126.00
85	5	2910	A	N9-C4-C5	6.26	108.30	105.80
38	8	109	A	N9-C4-C5	6.26	108.30	105.80
36	1	173	G	C6-N1-C2	-6.25	121.35	125.10
36	1	407	A	C5-N7-C8	-6.25	100.77	103.90
36	1	1552	G	C4-N9-C1'	6.25	134.63	126.50
36	1	1868	G	N3-C4-C5	-6.25	125.47	128.60
36	1	2243	A	OP1-P-O3'	6.25	118.96	105.20
36	1	2798	C	C2-N1-C1'	6.25	125.68	118.80
80	6	355	G	OP2-P-O3'	6.25	118.96	105.20
85	5	1634	G	N7-C8-N9	6.25	116.23	113.10
85	5	2426	U	OP2-P-O3'	6.25	118.96	105.20
85	5	3204	C	N1-C2-O2	-6.25	115.15	118.90
1	2	279	G	N3-C4-C5	-6.25	125.47	128.60
36	1	431	U	N3-C2-O2	6.25	126.58	122.20
36	1	579	G	N1-C2-N2	-6.25	110.57	116.20
36	1	1420	C	C4-C5-C6	6.25	120.53	117.40
36	1	1484	U	N3-C2-O2	6.25	126.58	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1668	G	N1-C6-O6	6.25	123.65	119.90
36	1	1921	A	C5-C6-N1	6.25	120.83	117.70
36	1	2234	G	C8-N9-C4	6.25	108.90	106.40
36	1	2533	G	C4-C5-N7	6.25	113.30	110.80
36	1	2578	U	C4-C5-C6	6.25	123.45	119.70
80	6	1200	G	N9-C4-C5	-6.25	102.90	105.40
85	5	892	U	N1-C2-O2	-6.25	118.42	122.80
85	5	1612	A	N9-C4-C5	6.25	108.30	105.80
85	5	1820	U	N3-C2-O2	6.25	126.58	122.20
85	5	2119	A	C5-C6-N1	6.25	120.83	117.70
85	5	2580	A	C2-N3-C4	-6.25	107.47	110.60
85	5	2948	C	N3-C4-N4	6.25	122.38	118.00
85	5	3034	C	OP1-P-OP2	-6.25	110.22	119.60
85	5	3132	C	N1-C2-O2	-6.25	115.15	118.90
37	7	79	A	C5-C6-N1	-6.25	114.57	117.70
47	m0	178	ARG	NE-CZ-NH1	6.25	123.43	120.30
1	2	522	U	N3-C4-C5	6.25	118.35	114.60
1	2	1124	G	N7-C8-N9	6.25	116.23	113.10
36	1	567	G	C6-C5-N7	-6.25	126.65	130.40
36	1	762	U	N3-C4-O4	6.25	123.78	119.40
36	1	823	C	C2-N3-C4	-6.25	116.77	119.90
36	1	1896	A	N1-C6-N6	-6.25	114.85	118.60
36	1	3372	A	N7-C8-N9	-6.25	110.67	113.80
80	6	1495	C	O5'-P-OP2	-6.25	100.07	105.70
85	5	364	G	N3-C4-N9	-6.25	122.25	126.00
85	5	588	G	N1-C2-N2	6.25	121.83	116.20
85	5	2377	G	N1-C2-N2	-6.25	110.57	116.20
85	5	3128	G	C4-C5-C6	-6.25	115.05	118.80
85	5	3199	G	N9-C4-C5	6.25	107.90	105.40
85	5	3205	G	C5-C6-N1	-6.25	108.37	111.50
85	5	3375	A	O5'-P-OP2	-6.25	100.07	105.70
59	n3	88	ARG	NE-CZ-NH2	-6.25	117.17	120.30
1	2	353	A	C8-N9-C4	-6.25	103.30	105.80
1	2	428	A	O5'-P-OP1	-6.25	100.08	105.70
1	2	1118	U	C5-C6-N1	-6.25	119.58	122.70
36	1	1293	U	C2-N3-C4	-6.25	123.25	127.00
36	1	1627	U	N3-C2-O2	6.25	126.58	122.20
36	1	2358	A	OP1-P-OP2	-6.25	110.23	119.60
36	1	2755	C	N3-C4-N4	6.25	122.38	118.00
80	6	43	A	C4-C5-C6	6.25	120.12	117.00
80	6	550	A	N1-C2-N3	6.25	132.43	129.30
85	5	1428	A	O4'-C1'-N9	-6.25	103.20	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3353	G	C8-N9-C4	-6.25	103.90	106.40
1	2	450	U	C4-C5-C6	6.25	123.45	119.70
36	1	1076	C	OP1-P-OP2	6.25	128.97	119.60
36	1	2295	A	C5-C6-N1	6.25	120.82	117.70
36	1	2332	A	N1-C6-N6	6.25	122.35	118.60
36	1	2825	C	C2-N1-C1'	6.25	125.67	118.80
36	1	2957	G	C6-C5-N7	6.25	134.15	130.40
36	1	3002	C	N3-C4-C5	6.25	124.40	121.90
36	1	3379	C	C6-N1-C2	-6.25	117.80	120.30
53	M7	95	LEU	CB-CG-CD2	-6.25	100.38	111.00
75	O9	3	ALA	N-CA-CB	6.25	118.85	110.10
80	6	207	U	N1-C2-O2	6.25	127.17	122.80
80	6	859	A	C5-C6-N1	6.25	120.82	117.70
80	6	920	U	N3-C4-O4	6.25	123.78	119.40
85	5	572	A	OP1-P-OP2	6.25	128.97	119.60
85	5	701	G	C6-C5-N7	6.25	134.15	130.40
85	5	1008	U	N3-C4-O4	-6.25	115.03	119.40
85	5	1878	G	N3-C4-N9	6.25	129.75	126.00
85	5	2268	U	N3-C4-O4	6.25	123.77	119.40
85	5	2392	C	P-O3'-C3'	6.25	127.20	119.70
85	5	2568	C	N1-C2-N3	-6.25	114.83	119.20
38	8	155	A	C6-C5-N7	6.25	136.67	132.30
50	m4	14	LEU	CB-CG-CD2	-6.25	100.38	111.00
67	o1	84	ASP	CB-CG-OD1	6.25	123.92	118.30
1	2	727	U	C5-C6-N1	-6.25	119.58	122.70
1	2	730	C	N3-C4-N4	6.25	122.37	118.00
1	2	968	G	C2-N3-C4	6.25	115.02	111.90
1	2	1651	G	O5'-P-OP1	6.25	118.20	110.70
36	1	703	G	N1-C2-N2	-6.25	110.58	116.20
36	1	749	C	C6-N1-C2	6.25	122.80	120.30
36	1	1139	G	C6-N1-C2	6.25	128.85	125.10
36	1	1312	C	C5-C6-N1	6.25	124.12	121.00
36	1	1588	A	C2-N3-C4	6.25	113.72	110.60
36	1	1849	C	N3-C2-O2	-6.25	117.53	121.90
36	1	2215	A	C4-C5-N7	6.25	113.82	110.70
36	1	3084	C	N3-C2-O2	-6.25	117.53	121.90
36	1	3105	U	O5'-P-OP1	-6.25	100.08	105.70
37	3	25	G	N7-C8-N9	6.25	116.22	113.10
52	M6	10	ASP	CB-CG-OD2	-6.25	112.68	118.30
80	6	43	A	C5-C6-N1	6.25	120.82	117.70
80	6	1671	A	C5-C6-N1	6.25	120.82	117.70
85	5	80	G	C6-C5-N7	-6.25	126.65	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2191	U	N3-C4-C5	-6.25	110.85	114.60
85	5	2216	G	N1-C6-O6	-6.25	116.15	119.90
85	5	2222	A	OP1-P-OP2	6.25	128.97	119.60
85	5	2314	U	N3-C4-O4	6.25	123.77	119.40
85	5	2977	G	C4-C5-N7	-6.25	108.30	110.80
38	8	22	U	N1-C2-O2	6.25	127.17	122.80
1	2	1007	U	N1-C2-N3	6.25	118.65	114.90
1	2	1518	U	C5-C6-N1	-6.25	119.58	122.70
36	1	549	U	N1-C2-N3	-6.25	111.15	114.90
36	1	3008	A	N1-C2-N3	6.25	132.42	129.30
85	5	496	C	N3-C4-N4	-6.25	113.63	118.00
85	5	1226	G	C8-N9-C4	6.25	108.90	106.40
85	5	1422	G	C5-C6-N1	6.25	114.62	111.50
85	5	1715	A	OP1-P-OP2	-6.25	110.23	119.60
85	5	2368	A	C6-N1-C2	-6.25	114.85	118.60
38	8	63	G	N9-C4-C5	6.25	107.90	105.40
36	1	154	U	C6-N1-C2	6.24	124.75	121.00
36	1	617	G	C5-C6-N1	-6.24	108.38	111.50
36	1	932	U	N3-C2-O2	-6.24	117.83	122.20
36	1	1333	C	C2-N1-C1'	6.24	125.67	118.80
36	1	1397	C	N3-C4-C5	-6.24	119.40	121.90
36	1	2139	A	N3-C4-C5	-6.24	122.43	126.80
36	1	2304	C	OP1-P-OP2	-6.24	110.23	119.60
36	1	3351	U	N3-C2-O2	6.24	126.57	122.20
38	4	10	A	O5'-P-OP1	6.24	118.19	110.70
80	6	438	A	N1-C2-N3	6.24	132.42	129.30
80	6	517	U	C5-C4-O4	6.24	129.65	125.90
80	6	534	A	C5-C6-N1	6.24	120.82	117.70
80	6	1526	A	C6-N1-C2	-6.24	114.85	118.60
85	5	917	A	C5-C6-N6	-6.24	118.71	123.70
85	5	1286	A	C5-C6-N1	6.24	120.82	117.70
85	5	1494	U	O5'-P-OP2	6.24	118.19	110.70
85	5	1544	G	N1-C2-N3	6.24	127.65	123.90
85	5	2584	G	OP1-P-OP2	6.24	128.96	119.60
85	5	3195	U	C6-N1-C2	6.24	124.75	121.00
1	2	1641	G	C5-C6-O6	-6.24	124.86	128.60
36	1	746	A	C8-N9-C4	-6.24	103.30	105.80
36	1	1896	A	N3-C4-C5	-6.24	122.43	126.80
36	1	2323	G	N9-C4-C5	6.24	107.90	105.40
85	5	373	A	N7-C8-N9	-6.24	110.68	113.80
85	5	1691	U	C2-N1-C1'	6.24	125.19	117.70
85	5	2286	U	C6-N1-C2	-6.24	117.25	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3186	A	C6-N1-C2	-6.24	114.86	118.60
85	5	3277	U	OP1-P-OP2	6.24	128.96	119.60
1	2	245	U	C6-N1-C2	6.24	124.74	121.00
1	2	462	G	C8-N9-C4	-6.24	103.90	106.40
36	1	26	A	N1-C2-N3	6.24	132.42	129.30
36	1	587	U	OP2-P-O3'	6.24	118.93	105.20
36	1	904	A	OP1-P-O3'	6.24	118.93	105.20
36	1	1437	C	C2-N1-C1'	6.24	125.66	118.80
36	1	2430	A	C4-C5-N7	6.24	113.82	110.70
36	1	2636	A	C5-C6-N1	6.24	120.82	117.70
36	1	3181	C	N1-C2-N3	6.24	123.57	119.20
38	4	83	C	C2-N3-C4	6.24	123.02	119.90
85	5	9	U	C6-N1-C2	6.24	124.74	121.00
85	5	46	U	N3-C2-O2	6.24	126.57	122.20
85	5	577	C	C2-N3-C4	-6.24	116.78	119.90
85	5	630	A	C4-C5-C6	6.24	120.12	117.00
85	5	899	U	C2-N3-C4	-6.24	123.26	127.00
85	5	937	G	C4-C5-C6	6.24	122.54	118.80
85	5	1069	C	N1-C2-O2	6.24	122.64	118.90
85	5	1927	G	OP1-P-OP2	6.24	128.96	119.60
85	5	3078	U	N1-C2-N3	6.24	118.64	114.90
85	5	3222	U	C6-N1-C1'	6.24	129.94	121.20
1	2	1110	G	N1-C6-O6	-6.24	116.16	119.90
1	2	1345	U	N3-C4-O4	6.24	123.77	119.40
1	2	1411	G	C2-N3-C4	-6.24	108.78	111.90
1	2	1593	G	N9-C4-C5	-6.24	102.91	105.40
1	2	1641	G	N3-C2-N2	-6.24	115.53	119.90
36	1	138	U	C4-C5-C6	6.24	123.44	119.70
36	1	1374	G	OP1-P-OP2	6.24	128.96	119.60
36	1	2180	G	C4-C5-N7	6.24	113.30	110.80
63	N7	135	ARG	NE-CZ-NH2	6.24	123.42	120.30
85	5	198	A	N9-C4-C5	-6.24	103.31	105.80
85	5	318	A	C6-N1-C2	-6.24	114.86	118.60
85	5	403	C	N3-C2-O2	-6.24	117.53	121.90
85	5	1042	U	N3-C2-O2	-6.24	117.83	122.20
85	5	1110	U	C2-N1-C1'	6.24	125.19	117.70
85	5	1554	U	N3-C2-O2	6.24	126.57	122.20
85	5	2096	A	C5-C6-N1	-6.24	114.58	117.70
85	5	2304	C	C4-C5-C6	6.24	120.52	117.40
85	5	2912	G	C4-C5-C6	6.24	122.54	118.80
85	5	3114	A	C4-C5-C6	6.24	120.12	117.00
85	5	3146	G	OP1-P-O3'	6.24	118.93	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	S6	94	ARG	NE-CZ-NH1	-6.24	117.18	120.30
36	1	252	U	O5'-P-OP2	6.24	118.18	110.70
36	1	408	A	N1-C2-N3	6.24	132.42	129.30
36	1	1403	C	C4-C5-C6	-6.24	114.28	117.40
36	1	1662	G	C5-N7-C8	6.24	107.42	104.30
36	1	2373	A	N7-C8-N9	6.24	116.92	113.80
52	M6	52	LEU	CB-CG-CD1	-6.24	100.40	111.00
85	5	507	U	N1-C2-O2	6.24	127.17	122.80
85	5	1594	A	O5'-P-OP2	-6.24	100.09	105.70
85	5	3303	G	O5'-P-OP2	-6.24	100.09	105.70
1	2	599	A	C2-N3-C4	6.24	113.72	110.60
1	2	997	G	C4-C5-C6	6.24	122.54	118.80
1	2	1307	G	N7-C8-N9	6.24	116.22	113.10
36	1	653	A	C6-N1-C2	-6.24	114.86	118.60
36	1	709	A	C5-C6-N1	6.24	120.82	117.70
36	1	981	U	N3-C4-O4	6.24	123.76	119.40
36	1	1578	C	N1-C2-N3	-6.24	114.84	119.20
36	1	1721	U	C5-C4-O4	6.24	129.64	125.90
36	1	2626	A	C8-N9-C4	6.24	108.29	105.80
36	1	2782	U	C5-C6-N1	-6.24	119.58	122.70
80	6	252	U	N1-C2-O2	-6.24	118.44	122.80
80	6	901	G	N1-C6-O6	6.24	123.64	119.90
80	6	1481	C	N1-C2-N3	6.24	123.56	119.20
85	5	1435	A	O5'-P-OP2	6.24	118.18	110.70
85	5	2715	A	O4'-C1'-N9	6.24	113.19	108.20
85	5	3130	A	C5-N7-C8	6.24	107.02	103.90
85	5	3295	A	O4'-C1'-N9	-6.24	103.21	108.20
85	5	3391	A	C8-N9-C4	6.24	108.30	105.80
38	8	122	U	OP1-P-OP2	-6.24	110.25	119.60
1	2	222	A	C4-C5-N7	6.23	113.82	110.70
1	2	847	U	OP1-P-OP2	6.23	128.95	119.60
1	2	1262	C	N3-C4-C5	-6.23	119.41	121.90
36	1	82	C	N3-C2-O2	6.23	126.26	121.90
36	1	217	U	OP1-P-OP2	6.23	128.95	119.60
36	1	912	G	N9-C4-C5	6.23	107.89	105.40
36	1	1412	G	C2-N3-C4	-6.23	108.78	111.90
36	1	1604	G	C8-N9-C4	-6.23	103.91	106.40
36	1	1913	A	N1-C2-N3	-6.23	126.18	129.30
36	1	2715	A	C4-C5-N7	-6.23	107.58	110.70
80	6	720	G	N1-C6-O6	-6.23	116.16	119.90
85	5	406	G	N3-C4-N9	-6.23	122.26	126.00
85	5	1374	G	OP1-P-OP2	-6.23	110.25	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3112	G	N1-C6-O6	6.23	123.64	119.90
1	2	119	A	N1-C6-N6	-6.23	114.86	118.60
1	2	799	G	C2-N3-C4	6.23	115.02	111.90
1	2	1087	U	O5'-P-OP1	6.23	118.18	110.70
1	2	1328	A	O5'-P-OP2	-6.23	100.09	105.70
36	1	229	G	N1-C2-N3	6.23	127.64	123.90
36	1	508	U	OP2-P-O3'	6.23	118.91	105.20
36	1	665	A	OP2-P-O3'	6.23	118.91	105.20
36	1	964	G	C4-C5-C6	-6.23	115.06	118.80
36	1	2591	A	N7-C8-N9	6.23	116.92	113.80
36	1	2618	G	N3-C4-C5	-6.23	125.48	128.60
36	1	3018	C	C6-N1-C2	-6.23	117.81	120.30
36	1	3056	U	C6-N1-C2	-6.23	117.26	121.00
36	1	3128	G	N3-C4-N9	6.23	129.74	126.00
36	1	3229	G	OP1-P-OP2	-6.23	110.25	119.60
36	1	3232	G	N3-C2-N2	-6.23	115.54	119.90
36	1	3308	C	N1-C2-O2	-6.23	115.16	118.90
80	6	539	G	N7-C8-N9	6.23	116.22	113.10
80	6	1011	G	C4-C5-N7	6.23	113.29	110.80
80	6	1421	A	C2-N3-C4	-6.23	107.48	110.60
80	6	1650	U	OP1-P-OP2	-6.23	110.25	119.60
85	5	254	A	C5-C6-N6	6.23	128.69	123.70
85	5	1147	G	N1-C2-N3	6.23	127.64	123.90
85	5	1193	A	O5'-P-OP1	-6.23	100.09	105.70
85	5	2198	A	C5-N7-C8	-6.23	100.78	103.90
85	5	3216	G	C5-C6-N1	6.23	114.62	111.50
37	7	95	A	N7-C8-N9	6.23	116.92	113.80
38	8	42	G	N1-C6-O6	6.23	123.64	119.90
1	2	276	C	C6-N1-C2	6.23	122.79	120.30
1	2	1244	G	N9-C4-C5	6.23	107.89	105.40
1	2	1445	G	N1-C2-N2	-6.23	110.59	116.20
36	1	257	U	OP1-P-OP2	-6.23	110.25	119.60
36	1	646	A	C2-N3-C4	-6.23	107.48	110.60
36	1	675	C	C2-N3-C4	-6.23	116.78	119.90
36	1	851	C	C4-C5-C6	-6.23	114.28	117.40
36	1	996	A	C6-N1-C2	-6.23	114.86	118.60
36	1	1387	G	C5-C6-N1	6.23	114.61	111.50
36	1	1525	G	C5-N7-C8	-6.23	101.18	104.30
77	Q1	17	ARG	NE-CZ-NH1	6.23	123.42	120.30
80	6	28	A	OP1-P-OP2	-6.23	110.25	119.60
80	6	1200	G	N1-C2-N2	6.23	121.81	116.20
85	5	163	C	O4'-C1'-N1	6.23	113.19	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	592	A	C5-C6-N1	-6.23	114.58	117.70
85	5	1337	A	O5'-P-OP1	6.23	118.18	110.70
85	5	1454	A	N1-C2-N3	6.23	132.42	129.30
85	5	2138	A	N1-C2-N3	6.23	132.41	129.30
85	5	2590	A	C5-C6-N1	-6.23	114.58	117.70
85	5	2608	G	N7-C8-N9	-6.23	109.98	113.10
85	5	2609	A	C6-N1-C2	-6.23	114.86	118.60
36	1	510	G	C8-N9-C4	-6.23	103.91	106.40
36	1	2269	U	C4-C5-C6	6.23	123.44	119.70
36	1	3268	A	N1-C6-N6	6.23	122.34	118.60
80	6	118	U	C5-C6-N1	-6.23	119.59	122.70
80	6	1729	C	C5-C4-N4	-6.23	115.84	120.20
85	5	319	A	N1-C2-N3	6.23	132.41	129.30
85	5	1829	G	C5-N7-C8	-6.23	101.19	104.30
85	5	2631	U	C6-N1-C2	-6.23	117.26	121.00
85	5	2633	U	C4-C5-C6	6.23	123.44	119.70
85	5	3083	G	OP1-P-O3'	6.23	118.90	105.20
1	2	194	U	C5-C6-N1	6.23	125.81	122.70
1	2	549	G	C5-C6-O6	6.23	132.34	128.60
1	2	645	C	C6-N1-C2	-6.23	117.81	120.30
36	1	284	A	N9-C4-C5	6.23	108.29	105.80
36	1	359	U	N1-C2-O2	6.23	127.16	122.80
36	1	1579	C	C6-N1-C2	-6.23	117.81	120.30
36	1	2218	G	N1-C2-N3	6.23	127.64	123.90
36	1	2770	G	N7-C8-N9	6.23	116.21	113.10
36	1	2792	A	OP1-P-O3'	6.23	118.90	105.20
36	1	2903	A	C8-N9-C4	6.23	108.29	105.80
36	1	3229	G	N1-C2-N2	6.23	121.81	116.20
80	6	357	G	C4-C5-C6	6.23	122.54	118.80
80	6	909	U	N1-C2-N3	6.23	118.64	114.90
80	6	1546	G	N1-C2-N2	-6.23	110.59	116.20
85	5	66	A	C4-C5-C6	6.23	120.11	117.00
85	5	360	G	O5'-P-OP1	6.23	118.17	110.70
85	5	770	G	O5'-P-OP2	6.23	118.17	110.70
85	5	1471	U	O5'-P-OP2	6.23	118.17	110.70
85	5	1635	G	C2-N3-C4	-6.23	108.79	111.90
1	2	1010	A	OP1-P-OP2	-6.23	110.26	119.60
36	1	771	A	C5-C6-N1	-6.23	114.59	117.70
36	1	2375	G	N1-C2-N2	-6.23	110.60	116.20
38	4	154	C	N3-C4-C5	-6.23	119.41	121.90
56	N0	167	ARG	N-CA-C	-6.23	94.19	111.00
85	5	949	C	C2-N1-C1'	6.23	125.65	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1377	G	N3-C2-N2	6.23	124.26	119.90
85	5	2861	U	N3-C4-C5	-6.23	110.86	114.60
85	5	3088	G	C4-C5-N7	-6.23	108.31	110.80
36	1	965	A	C5-C6-N6	6.22	128.68	123.70
36	1	967	A	N9-C4-C5	6.22	108.29	105.80
36	1	1143	A	C6-N1-C2	-6.22	114.87	118.60
36	1	1324	U	N3-C4-O4	-6.22	115.04	119.40
36	1	1910	A	C5-C6-N6	6.22	128.68	123.70
36	1	2890	A	C5-C6-N6	6.22	128.68	123.70
36	1	3328	G	C5-N7-C8	-6.22	101.19	104.30
80	6	51	A	N1-C2-N3	6.22	132.41	129.30
80	6	1100	G	C4-N9-C1'	6.22	134.59	126.50
80	6	1291	G	C8-N9-C4	-6.22	103.91	106.40
85	5	70	A	N7-C8-N9	6.22	116.91	113.80
85	5	695	C	O4'-C1'-N1	-6.22	103.22	108.20
85	5	1444	G	C8-N9-C1'	-6.22	118.91	127.00
36	1	498	A	N1-C6-N6	-6.22	114.87	118.60
36	1	592	A	N1-C6-N6	6.22	122.33	118.60
36	1	694	C	C2-N3-C4	6.22	123.01	119.90
36	1	1022	U	C5-C4-O4	-6.22	122.17	125.90
36	1	1747	G	N1-C2-N2	6.22	121.80	116.20
38	4	26	U	C2-N3-C4	6.22	130.73	127.00
38	4	156	U	C5-C4-O4	-6.22	122.17	125.90
80	6	913	G	C6-N1-C2	6.22	128.83	125.10
80	6	1485	C	C4-C5-C6	-6.22	114.29	117.40
85	5	184	U	N3-C4-C5	6.22	118.33	114.60
85	5	363	G	N7-C8-N9	6.22	116.21	113.10
85	5	505	G	N1-C6-O6	6.22	123.63	119.90
85	5	1540	U	N1-C2-N3	6.22	118.63	114.90
85	5	1673	G	N3-C4-N9	6.22	129.73	126.00
85	5	1708	C	C6-N1-C2	6.22	122.79	120.30
85	5	1818	U	C5-C4-O4	-6.22	122.17	125.90
85	5	2163	C	C5-C6-N1	6.22	124.11	121.00
37	7	64	A	OP1-P-O3'	-6.22	91.51	105.20
1	2	1619	C	C6-N1-C2	-6.22	117.81	120.30
36	1	115	A	C6-N1-C2	-6.22	114.87	118.60
36	1	3080	G	C8-N9-C4	-6.22	103.91	106.40
85	5	346	C	OP1-P-OP2	6.22	128.93	119.60
85	5	1024	G	N3-C4-N9	6.22	129.73	126.00
38	8	93	U	N3-C4-C5	6.22	118.33	114.60
1	2	325	G	N1-C6-O6	6.22	123.63	119.90
1	2	712	G	C2-N3-C4	6.22	115.01	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	954	A	O5'-P-OP2	6.22	118.16	110.70
36	1	274	G	N3-C4-C5	6.22	131.71	128.60
36	1	341	G	C4-C5-C6	6.22	122.53	118.80
36	1	721	G	C4-C5-N7	6.22	113.29	110.80
36	1	2186	U	N3-C2-O2	-6.22	117.85	122.20
80	6	315	A	C8-N9-C4	-6.22	103.31	105.80
85	5	365	A	OP1-P-O3'	6.22	118.88	105.20
85	5	803	C	N3-C4-C5	-6.22	119.41	121.90
85	5	963	G	OP2-P-O3'	-6.22	91.52	105.20
85	5	967	A	C8-N9-C4	-6.22	103.31	105.80
85	5	1405	U	O5'-P-OP2	-6.22	100.10	105.70
85	5	1596	C	N3-C4-N4	6.22	122.35	118.00
85	5	2101	C	C6-N1-C2	6.22	122.79	120.30
85	5	3023	U	N1-C2-N3	-6.22	111.17	114.90
38	8	97	A	C5-C6-N6	6.22	128.68	123.70
1	2	817	G	N1-C6-O6	6.22	123.63	119.90
1	2	1151	U	N1-C2-N3	6.22	118.63	114.90
36	1	781	G	C5-N7-C8	-6.22	101.19	104.30
36	1	1101	G	OP1-P-OP2	6.22	128.93	119.60
37	3	13	A	C4-C5-N7	6.22	113.81	110.70
85	5	325	A	C4-C5-C6	6.22	120.11	117.00
85	5	785	G	C5-C6-O6	-6.22	124.87	128.60
85	5	2865	U	OP1-P-OP2	-6.22	110.27	119.60
85	5	2943	G	OP1-P-O3'	6.22	118.88	105.20
1	2	1160	C	N1-C2-O2	6.22	122.63	118.90
36	1	639	G	N1-C2-N3	6.22	127.63	123.90
36	1	639	G	C4-C5-N7	-6.22	108.31	110.80
36	1	1399	A	N3-C4-C5	6.22	131.15	126.80
36	1	1680	G	C4-C5-N7	-6.22	108.31	110.80
36	1	2221	G	N3-C4-C5	6.22	131.71	128.60
38	4	155	A	C2-N3-C4	-6.22	107.49	110.60
59	N3	45	ARG	NE-CZ-NH1	-6.22	117.19	120.30
80	6	41	A	C6-N1-C2	-6.22	114.87	118.60
80	6	108	A	N1-C6-N6	-6.22	114.87	118.60
80	6	318	U	C5-C6-N1	-6.22	119.59	122.70
85	5	1483	G	C5-N7-C8	6.22	107.41	104.30
85	5	1641	U	C2-N3-C4	-6.22	123.27	127.00
85	5	1896	A	C5-C6-N1	6.22	120.81	117.70
85	5	2272	G	O5'-P-OP1	-6.22	100.11	105.70
85	5	2295	A	C6-N1-C2	-6.22	114.87	118.60
85	5	2846	U	C4-C5-C6	-6.22	115.97	119.70
38	8	26	U	C5-C4-O4	6.22	129.63	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	277	U	N3-C4-O4	6.21	123.75	119.40
36	1	58	G	C5-C6-O6	6.21	132.33	128.60
36	1	322	U	C5-C6-N1	-6.21	119.59	122.70
36	1	717	C	N3-C4-N4	-6.21	113.65	118.00
36	1	1067	U	OP1-P-OP2	6.21	128.92	119.60
36	1	1500	G	N3-C4-N9	-6.21	122.27	126.00
36	1	1605	A	C8-N9-C4	-6.21	103.31	105.80
36	1	1790	G	C4-C5-C6	6.21	122.53	118.80
36	1	3107	U	C4-C5-C6	6.21	123.43	119.70
44	L7	106	LEU	CB-CG-CD2	-6.21	100.43	111.00
80	6	21	U	C4-C5-C6	6.21	123.43	119.70
80	6	539	G	N1-C6-O6	6.21	123.63	119.90
80	6	1055	U	C6-N1-C2	-6.21	117.27	121.00
80	6	1565	C	C5-C4-N4	-6.21	115.85	120.20
80	6	1613	U	C5-C6-N1	-6.21	119.59	122.70
80	6	1654	G	O5'-P-OP2	-6.21	100.11	105.70
80	6	1703	C	C6-N1-C2	-6.21	117.81	120.30
85	5	268	A	C6-N1-C2	-6.21	114.87	118.60
85	5	1087	G	C8-N9-C4	-6.21	103.91	106.40
85	5	1776	G	N3-C4-N9	-6.21	122.27	126.00
85	5	3251	U	N1-C2-O2	6.21	127.15	122.80
85	5	3389	U	O5'-P-OP1	-6.21	100.11	105.70
1	2	356	G	N1-C6-O6	6.21	123.63	119.90
36	1	228	U	C2-N3-C4	-6.21	123.27	127.00
36	1	1708	C	C2-N3-C4	-6.21	116.79	119.90
36	1	2215	A	C5-C6-N1	-6.21	114.59	117.70
36	1	2910	A	N1-C2-N3	6.21	132.41	129.30
80	6	25	C	N3-C4-C5	-6.21	119.42	121.90
85	5	420	G	N3-C4-N9	6.21	129.73	126.00
85	5	1336	U	N1-C2-O2	-6.21	118.45	122.80
85	5	1430	U	N1-C2-O2	-6.21	118.45	122.80
85	5	1894	U	C5-C6-N1	-6.21	119.59	122.70
85	5	3129	A	C5-C6-N1	6.21	120.81	117.70
85	5	3140	G	N1-C2-N3	6.21	127.63	123.90
85	5	3169	U	C5-C6-N1	-6.21	119.59	122.70
1	2	315	A	C5-C6-N6	-6.21	118.73	123.70
1	2	761	G	C6-N1-C2	6.21	128.83	125.10
1	2	881	A	C2-N3-C4	6.21	113.70	110.60
1	2	1289	C	C5-C4-N4	-6.21	115.85	120.20
36	1	345	G	C2-N3-C4	-6.21	108.79	111.90
36	1	507	U	C5-C6-N1	6.21	125.81	122.70
36	1	623	U	N3-C4-C5	6.21	118.33	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	940	G	C6-N1-C2	-6.21	121.37	125.10
36	1	1228	C	N3-C2-O2	-6.21	117.55	121.90
36	1	1640	G	N1-C6-O6	-6.21	116.17	119.90
36	1	1709	C	C6-N1-C2	6.21	122.78	120.30
36	1	2511	A	C8-N9-C4	-6.21	103.31	105.80
36	1	3075	G	N7-C8-N9	-6.21	110.00	113.10
37	3	119	U	C5-C6-N1	-6.21	119.59	122.70
80	6	789	A	C2-N3-C4	-6.21	107.49	110.60
80	6	1376	C	N3-C2-O2	6.21	126.25	121.90
85	5	206	G	OP1-P-OP2	-6.21	110.28	119.60
85	5	1718	G	C4-C5-N7	6.21	113.28	110.80
85	5	1792	C	N1-C2-N3	6.21	123.55	119.20
85	5	2261	G	C8-N9-C4	6.21	108.88	106.40
85	5	2962	U	N1-C2-O2	-6.21	118.45	122.80
85	5	3368	U	C5-C6-N1	-6.21	119.59	122.70
38	8	54	A	N1-C2-N3	6.21	132.41	129.30
38	8	80	A	OP2-P-O3'	6.21	118.86	105.20
1	2	361	C	OP1-P-O3'	6.21	118.86	105.20
1	2	1579	C	OP1-P-OP2	-6.21	110.28	119.60
36	1	3362	A	N3-C4-C5	6.21	131.15	126.80
38	4	54	A	C6-C5-N7	-6.21	127.95	132.30
80	6	103	A	C6-N1-C2	-6.21	114.87	118.60
85	5	868	C	O5'-P-OP1	6.21	118.15	110.70
85	5	914	A	C4-C5-N7	6.21	113.81	110.70
85	5	3125	U	N1-C2-N3	6.21	118.63	114.90
85	5	3296	A	OP2-P-O3'	6.21	118.86	105.20
1	2	92	A	C6-C5-N7	6.21	136.65	132.30
1	2	723	A	OP1-P-OP2	6.21	128.91	119.60
1	2	1409	C	C4-C5-C6	-6.21	114.30	117.40
36	1	173	G	C4-C5-N7	-6.21	108.32	110.80
36	1	1163	A	C6-N1-C2	-6.21	114.88	118.60
36	1	2150	G	N1-C6-O6	6.21	123.63	119.90
36	1	2326	A	N3-C4-N9	-6.21	122.43	127.40
36	1	2998	U	C6-N1-C2	-6.21	117.28	121.00
80	6	461	G	N3-C2-N2	6.21	124.25	119.90
80	6	1118	G	C6-C5-N7	-6.21	126.67	130.40
80	6	1312	A	C8-N9-C4	6.21	108.28	105.80
85	5	1114	U	OP1-P-O3'	6.21	118.86	105.20
85	5	1689	U	C5-C6-N1	6.21	125.80	122.70
85	5	1782	U	OP1-P-OP2	6.21	128.91	119.60
85	5	2669	G	O5'-P-OP1	6.21	118.15	110.70
85	5	2783	U	C2-N3-C4	-6.21	123.27	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3200	G	N1-C6-O6	6.21	123.62	119.90
1	2	1153	G	C5-C6-O6	-6.21	124.88	128.60
1	2	1344	U	N1-C2-N3	-6.21	111.18	114.90
36	1	366	A	C2-N3-C4	-6.21	107.50	110.60
36	1	848	A	C8-N9-C4	6.21	108.28	105.80
36	1	1830	G	C8-N9-C4	-6.21	103.92	106.40
36	1	2951	G	C5-C6-N1	6.21	114.60	111.50
36	1	2969	A	N1-C2-N3	6.21	132.40	129.30
80	6	318	U	N3-C4-C5	-6.21	110.88	114.60
80	6	998	A	N9-C4-C5	6.21	108.28	105.80
80	6	1658	G	N3-C4-C5	6.21	131.70	128.60
85	5	217	U	OP1-P-O3'	6.21	118.85	105.20
85	5	978	G	N3-C2-N2	6.21	124.24	119.90
85	5	1002	A	O5'-P-OP2	-6.21	100.11	105.70
85	5	2231	C	N1-C2-O2	-6.21	115.18	118.90
85	5	2617	U	N3-C2-O2	6.21	126.55	122.20
85	5	2680	A	C2-N3-C4	6.21	113.70	110.60
85	5	2885	C	O5'-P-OP1	6.21	118.15	110.70
85	5	3299	A	C5-C6-N6	6.21	128.66	123.70
37	7	33	U	N3-C4-O4	6.21	123.75	119.40
38	8	12	A	C6-N1-C2	-6.21	114.88	118.60
40	13	43	LEU	CB-CG-CD1	-6.21	100.45	111.00
1	2	1121	A	N1-C6-N6	-6.21	114.88	118.60
36	1	92	G	C5'-C4'-C3'	-6.21	106.07	116.00
36	1	589	A	C2-N3-C4	6.21	113.70	110.60
36	1	1131	G	N3-C4-C5	-6.21	125.50	128.60
36	1	3196	U	N1-C2-O2	6.21	127.14	122.80
80	6	7	G	O5'-P-OP1	-6.21	100.12	105.70
80	6	20	G	C2-N3-C4	-6.21	108.80	111.90
80	6	840	U	N3-C4-O4	-6.21	115.06	119.40
80	6	1044	U	OP1-P-O3'	6.21	118.85	105.20
85	5	78	U	N1-C2-N3	6.21	118.62	114.90
85	5	520	U	O5'-P-OP1	-6.21	100.12	105.70
85	5	2197	C	N3-C4-N4	6.21	122.34	118.00
85	5	2623	G	C5-N7-C8	6.21	107.40	104.30
36	1	91	G	P-O3'-C3'	-6.20	112.26	119.70
36	1	347	G	N1-C2-N2	-6.20	110.62	116.20
36	1	848	A	C5-C6-N6	6.20	128.66	123.70
36	1	1199	C	C5-C4-N4	6.20	124.54	120.20
36	1	1419	A	C4-C5-C6	6.20	120.10	117.00
36	1	1420	C	N1-C2-N3	6.20	123.54	119.20
36	1	3189	G	C5-C6-O6	6.20	132.32	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	537	G	C4-C5-N7	6.20	113.28	110.80
80	6	1477	G	C5-C6-N1	-6.20	108.40	111.50
80	6	1568	C	P-O3'-C3'	6.20	127.14	119.70
85	5	1559	A	C5-C6-N1	-6.20	114.60	117.70
85	5	1686	U	N1-C2-N3	6.20	118.62	114.90
85	5	1849	C	OP1-P-OP2	-6.20	110.30	119.60
85	5	1896	A	C4-C5-N7	6.20	113.80	110.70
85	5	1953	G	N3-C2-N2	6.20	124.24	119.90
85	5	2112	U	OP1-P-OP2	6.20	128.91	119.60
85	5	2588	U	C4-C5-C6	6.20	123.42	119.70
85	5	3056	U	C6-N1-C2	-6.20	117.28	121.00
85	5	3060	C	O5'-P-OP1	-6.20	100.12	105.70
38	8	3	A	C6-N1-C2	-6.20	114.88	118.60
1	2	304	U	N3-C4-C5	-6.20	110.88	114.60
1	2	685	G	C4-C5-N7	6.20	113.28	110.80
36	1	440	A	C4-C5-C6	-6.20	113.90	117.00
36	1	1517	G	O5'-P-OP1	6.20	118.14	110.70
36	1	2777	G	N1-C2-N3	6.20	127.62	123.90
85	5	236	G	C6-N1-C2	6.20	128.82	125.10
85	5	582	G	N9-C4-C5	6.20	107.88	105.40
1	2	1150	G	N1-C6-O6	6.20	123.62	119.90
1	2	1543	U	C6-N1-C2	-6.20	117.28	121.00
36	1	77	A	N9-C4-C5	6.20	108.28	105.80
36	1	224	C	C4-C5-C6	-6.20	114.30	117.40
36	1	617	G	C2-N3-C4	-6.20	108.80	111.90
36	1	1392	G	C5-N7-C8	6.20	107.40	104.30
38	4	144	G	C4-C5-C6	6.20	122.52	118.80
80	6	265	A	N1-C2-N3	6.20	132.40	129.30
80	6	1058	U	P-O3'-C3'	6.20	127.14	119.70
80	6	1396	U	C6-N1-C2	-6.20	117.28	121.00
80	6	1788	G	N1-C6-O6	6.20	123.62	119.90
85	5	503	C	OP1-P-OP2	-6.20	110.30	119.60
85	5	526	C	N3-C2-O2	-6.20	117.56	121.90
85	5	700	C	OP1-P-OP2	-6.20	110.30	119.60
85	5	771	A	C8-N9-C4	-6.20	103.32	105.80
85	5	1018	G	N3-C4-C5	-6.20	125.50	128.60
85	5	1131	G	N7-C8-N9	6.20	116.20	113.10
85	5	1307	G	C2'-C3'-O3'	6.20	123.62	113.70
85	5	2236	G	OP2-P-O3'	6.20	118.84	105.20
85	5	2319	U	C5-C4-O4	6.20	129.62	125.90
85	5	2794	G	N3-C4-C5	-6.20	125.50	128.60
85	5	3042	U	N3-C2-O2	6.20	126.54	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	19	C	O5'-P-OP1	6.20	118.14	110.70
37	7	72	A	C5-C6-N6	-6.20	118.74	123.70
1	2	1035	U	C2-N1-C1'	6.20	125.14	117.70
1	2	1172	A	C8-N9-C4	6.20	108.28	105.80
36	1	263	C	OP1-P-OP2	6.20	128.90	119.60
36	1	421	G	C8-N9-C4	6.20	108.88	106.40
36	1	2759	U	OP2-P-O3'	6.20	118.84	105.20
36	1	2852	C	C2-N1-C1'	6.20	125.62	118.80
45	L8	65	LEU	CA-CB-CG	6.20	129.56	115.30
80	6	8	U	O5'-P-OP2	-6.20	100.12	105.70
80	6	869	A	N1-C2-N3	6.20	132.40	129.30
80	6	1286	U	N3-C4-O4	-6.20	115.06	119.40
80	6	1473	U	C2-N3-C4	6.20	130.72	127.00
85	5	638	C	C5-C6-N1	6.20	124.10	121.00
85	5	990	U	OP1-P-OP2	-6.20	110.30	119.60
85	5	1136	A	N1-C6-N6	6.20	122.32	118.60
85	5	1523	U	N3-C2-O2	-6.20	117.86	122.20
85	5	2104	A	C2-N3-C4	-6.20	107.50	110.60
1	2	140	A	OP1-P-OP2	-6.20	110.31	119.60
1	2	920	C	N3-C4-C5	-6.20	119.42	121.90
1	2	1287	G	C5-C6-N1	-6.20	108.40	111.50
1	2	1538	A	C4-C5-C6	6.20	120.10	117.00
36	1	172	G	N3-C4-N9	6.20	129.72	126.00
36	1	761	A	C6-C5-N7	-6.20	127.96	132.30
36	1	805	G	OP2-P-O3'	6.20	118.83	105.20
36	1	988	U	N3-C4-O4	6.20	123.74	119.40
36	1	1045	C	N3-C4-N4	6.20	122.34	118.00
36	1	1066	G	N1-C2-N2	-6.20	110.62	116.20
36	1	1501	U	N1-C2-N3	-6.20	111.18	114.90
36	1	1648	A	N7-C8-N9	-6.20	110.70	113.80
36	1	2777	G	N3-C4-N9	-6.20	122.28	126.00
80	6	1044	U	C5-C6-N1	-6.20	119.60	122.70
80	6	1221	A	C8-N9-C4	6.20	108.28	105.80
85	5	860	G	O5'-P-OP2	-6.20	100.12	105.70
85	5	2563	G	C2-N3-C4	6.20	115.00	111.90
1	2	6	G	C5-C6-O6	6.20	132.32	128.60
1	2	1256	G	O5'-P-OP1	-6.20	100.12	105.70
1	2	1400	A	N1-C2-N3	6.20	132.40	129.30
1	2	1489	G	N1-C6-O6	-6.20	116.18	119.90
36	1	264	G	N3-C4-C5	6.20	131.70	128.60
36	1	331	G	N1-C2-N3	6.20	127.62	123.90
36	1	939	U	OP2-P-O3'	6.20	118.83	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1359	C	C2-N3-C4	-6.20	116.80	119.90
36	1	1386	A	O5'-P-OP1	-6.20	100.12	105.70
36	1	1619	A	C5-C6-N6	-6.20	118.74	123.70
36	1	2152	A	C8-N9-C4	-6.20	103.32	105.80
38	4	32	C	C5-C4-N4	-6.20	115.86	120.20
80	6	12	U	C6-N1-C2	-6.20	117.28	121.00
80	6	1607	G	N1-C6-O6	-6.20	116.18	119.90
85	5	41	G	N1-C2-N2	-6.20	110.62	116.20
85	5	44	U	N1-C2-O2	6.20	127.14	122.80
85	5	93	C	C2-N3-C4	6.20	123.00	119.90
85	5	404	G	C5-N7-C8	-6.20	101.20	104.30
85	5	437	G	C4-N9-C1'	-6.20	118.45	126.50
85	5	843	A	C5-N7-C8	-6.20	100.80	103.90
85	5	1102	A	C5-N7-C8	-6.20	100.80	103.90
85	5	2219	A	O4'-C1'-N9	6.20	113.16	108.20
85	5	2724	U	C2-N3-C4	6.20	130.72	127.00
71	o5	38	ARG	NE-CZ-NH2	6.20	123.40	120.30
1	2	36	C	OP1-P-O3'	6.19	118.83	105.20
36	1	1030	A	N9-C4-C5	-6.19	103.32	105.80
36	1	1898	G	C2-N3-C4	6.19	115.00	111.90
80	6	1459	C	N1-C2-O2	6.19	122.62	118.90
85	5	315	C	C6-N1-C2	-6.19	117.82	120.30
85	5	1323	G	OP1-P-OP2	-6.19	110.31	119.60
85	5	2341	A	N1-C2-N3	6.19	132.40	129.30
38	8	148	G	C2-N3-C4	-6.19	108.80	111.90
1	2	717	A	P-O3'-C3'	6.19	127.13	119.70
1	2	975	A	N7-C8-N9	6.19	116.90	113.80
36	1	2608	G	OP2-P-O3'	6.19	118.82	105.20
80	6	76	A	OP1-P-O3'	6.19	118.82	105.20
80	6	368	U	N1-C2-O2	6.19	127.14	122.80
80	6	389	G	OP1-P-OP2	6.19	128.89	119.60
80	6	1738	U	N1-C2-N3	6.19	118.62	114.90
85	5	66	A	N1-C2-N3	6.19	132.40	129.30
85	5	560	G	N1-C6-O6	6.19	123.62	119.90
85	5	1603	A	C5-N7-C8	6.19	107.00	103.90
85	5	2375	G	N7-C8-N9	6.19	116.20	113.10
85	5	2900	A	C5-C6-N1	6.19	120.80	117.70
40	l3	233	TRP	C-N-CA	-6.19	109.29	122.30
1	2	1265	U	C2-N3-C4	-6.19	123.29	127.00
1	2	1377	G	C5-C6-N1	6.19	114.59	111.50
36	1	76	G	N1-C2-N3	6.19	127.61	123.90
36	1	687	U	N3-C4-O4	6.19	123.73	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	912	G	OP2-P-O3'	6.19	118.82	105.20
36	1	1146	C	N3-C4-C5	6.19	124.38	121.90
36	1	1820	U	N3-C4-O4	-6.19	115.07	119.40
36	1	1853	U	C5-C4-O4	6.19	129.61	125.90
36	1	1885	U	N3-C2-O2	6.19	126.53	122.20
36	1	2297	U	N3-C4-C5	-6.19	110.89	114.60
36	1	3038	U	C2-N3-C4	6.19	130.71	127.00
36	1	3147	G	C8-N9-C4	6.19	108.88	106.40
80	6	106	U	OP2-P-O3'	6.19	118.82	105.20
80	6	677	G	N9-C4-C5	-6.19	102.92	105.40
80	6	678	A	N1-C2-N3	-6.19	126.20	129.30
80	6	1666	U	OP1-P-O3'	-6.19	91.58	105.20
4	s2	76	LEU	CB-CG-CD2	-6.19	100.48	111.00
85	5	413	U	C5-C4-O4	-6.19	122.19	125.90
85	5	2197	C	O5'-P-OP1	-6.19	100.13	105.70
85	5	2637	A	C4-C5-C6	6.19	120.09	117.00
37	7	71	G	C2-N3-C4	-6.19	108.81	111.90
38	8	75	G	C5-C6-N1	-6.19	108.40	111.50
1	2	810	C	C5-C6-N1	6.19	124.09	121.00
36	1	430	U	N3-C4-C5	-6.19	110.89	114.60
36	1	1912	U	N1-C2-N3	-6.19	111.19	114.90
36	1	3061	G	O5'-P-OP2	6.19	118.13	110.70
80	6	1300	A	N9-C4-C5	6.19	108.28	105.80
85	5	868	C	N3-C4-N4	6.19	122.33	118.00
85	5	1174	G	C5-N7-C8	-6.19	101.21	104.30
85	5	2707	C	C5-C4-N4	6.19	124.53	120.20
85	5	2972	G	OP1-P-O3'	6.19	118.81	105.20
36	1	348	A	OP1-P-OP2	6.19	128.88	119.60
36	1	999	G	C6-C5-N7	6.19	134.11	130.40
36	1	1445	U	C5-C6-N1	6.19	125.79	122.70
36	1	2761	G	N1-C2-N3	6.19	127.61	123.90
36	1	3033	A	C6-C5-N7	-6.19	127.97	132.30
36	1	3113	A	N9-C4-C5	6.19	108.28	105.80
36	1	3245	A	C2-N3-C4	-6.19	107.51	110.60
36	1	3257	C	N1-C2-O2	6.19	122.61	118.90
38	4	95	G	OP1-P-OP2	6.19	128.88	119.60
58	N2	74	LYS	CD-CE-NZ	6.19	125.93	111.70
71	O5	46	THR	CA-C-O	-6.19	107.11	120.10
80	6	144	U	N1-C2-N3	6.19	118.61	114.90
80	6	1636	C	C2-N1-C1'	6.19	125.61	118.80
85	5	1807	G	C6-C5-N7	-6.19	126.69	130.40
85	5	2157	G	N3-C4-N9	6.19	129.71	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2374	C	OP2-P-O3'	6.19	118.81	105.20
85	5	2854	U	N3-C2-O2	6.19	126.53	122.20
75	o9	42	ARG	NE-CZ-NH2	6.19	123.39	120.30
1	2	36	C	N1-C2-O2	-6.19	115.19	118.90
1	2	1251	G	C2-N3-C4	6.19	114.99	111.90
36	1	663	C	OP1-P-OP2	-6.19	110.32	119.60
36	1	1189	C	C2-N3-C4	-6.19	116.81	119.90
36	1	2373	A	C4-C5-C6	6.19	120.09	117.00
36	1	2381	G	C4-N9-C1'	6.19	134.54	126.50
36	1	2410	U	OP2-P-O3'	6.19	118.81	105.20
46	L9	153	ASP	CB-CG-OD1	-6.19	112.73	118.30
80	6	320	U	N3-C4-O4	-6.19	115.07	119.40
80	6	379	U	O5'-P-OP1	-6.19	100.13	105.70
80	6	1526	A	OP1-P-OP2	6.19	128.88	119.60
80	6	1733	C	C6-N1-C2	-6.19	117.83	120.30
80	6	1781	A	O5'-P-OP2	-6.19	100.13	105.70
85	5	149	U	N1-C2-N3	6.19	118.61	114.90
85	5	562	C	N3-C2-O2	6.19	126.23	121.90
85	5	1534	A	N1-C6-N6	6.19	122.31	118.60
85	5	1586	G	C4-C5-N7	-6.19	108.33	110.80
1	2	292	U	C6-N1-C2	-6.18	117.29	121.00
36	1	290	G	C2-N3-C4	6.18	114.99	111.90
36	1	368	G	O5'-P-OP1	6.18	118.12	110.70
36	1	860	G	N3-C2-N2	-6.18	115.57	119.90
36	1	2820	A	N9-C4-C5	6.18	108.27	105.80
36	1	3328	G	O5'-P-OP1	-6.18	100.14	105.70
38	4	50	C	C5-C6-N1	-6.18	117.91	121.00
80	6	10	G	C6-C5-N7	-6.18	126.69	130.40
80	6	692	C	C2-N3-C4	6.18	122.99	119.90
80	6	1122	G	C4-C5-C6	6.18	122.51	118.80
80	6	1761	U	N3-C4-C5	-6.18	110.89	114.60
85	5	742	G	C6-N1-C2	-6.18	121.39	125.10
85	5	1115	G	C4-C5-C6	6.18	122.51	118.80
85	5	2150	G	O4'-C1'-N9	6.18	113.15	108.20
85	5	2179	C	OP2-P-O3'	6.18	118.81	105.20
85	5	2209	U	N3-C4-C5	-6.18	110.89	114.60
85	5	2216	G	OP1-P-OP2	-6.18	110.32	119.60
85	5	2955	U	OP2-P-O3'	6.18	118.81	105.20
85	5	3183	A	C4-C5-C6	6.18	120.09	117.00
85	5	3232	G	N1-C2-N3	6.18	127.61	123.90
1	2	565	C	C2-N1-C1'	6.18	125.60	118.80
1	2	608	U	OP2-P-O3'	6.18	118.80	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	144	A	O5'-P-OP1	6.18	118.12	110.70
36	1	494	G	C5-N7-C8	6.18	107.39	104.30
36	1	653	A	C5-C6-N1	6.18	120.79	117.70
36	1	801	A	C4-C5-C6	6.18	120.09	117.00
36	1	1418	A	C5-C6-N6	-6.18	118.75	123.70
36	1	1438	U	OP1-P-O3'	6.18	118.80	105.20
36	1	2864	A	OP2-P-O3'	6.18	118.80	105.20
80	6	971	A	N1-C2-N3	6.18	132.39	129.30
80	6	1537	C	N1-C2-N3	-6.18	114.87	119.20
80	6	1792	G	C4-C5-N7	-6.18	108.33	110.80
85	5	674	G	N3-C4-C5	6.18	131.69	128.60
85	5	857	G	N1-C2-N2	6.18	121.76	116.20
85	5	873	C	N3-C4-C5	-6.18	119.43	121.90
85	5	1369	A	C2-N3-C4	-6.18	107.51	110.60
85	5	2250	G	C4-C5-C6	-6.18	115.09	118.80
1	2	450	U	N3-C4-C5	-6.18	110.89	114.60
1	2	1736	A	C6-C5-N7	-6.18	127.97	132.30
36	1	721	G	N7-C8-N9	6.18	116.19	113.10
36	1	2406	C	N1-C2-O2	-6.18	115.19	118.90
36	1	3208	G	C2-N3-C4	6.18	114.99	111.90
80	6	1018	U	N1-C2-O2	-6.18	118.47	122.80
85	5	45	A	N1-C6-N6	6.18	122.31	118.60
85	5	1088	U	C2-N3-C4	6.18	130.71	127.00
85	5	1528	G	N1-C6-O6	-6.18	116.19	119.90
85	5	2437	G	C5-C6-O6	-6.18	124.89	128.60
85	5	2619	G	O4'-C1'-N9	-6.18	103.25	108.20
85	5	3234	A	C4-C5-N7	-6.18	107.61	110.70
1	2	470	A	C8-N9-C4	6.18	108.27	105.80
1	2	832	C	N3-C2-O2	-6.18	117.57	121.90
1	2	1157	C	C6-N1-C2	6.18	122.77	120.30
1	2	1486	A	O4'-C1'-N9	6.18	113.14	108.20
36	1	24	G	C4-C5-C6	6.18	122.51	118.80
36	1	666	A	C8-N9-C4	6.18	108.27	105.80
36	1	1148	G	C8-N9-C4	6.18	108.87	106.40
36	1	2190	U	C6-N1-C2	-6.18	117.29	121.00
80	6	25	C	C4-C5-C6	-6.18	114.31	117.40
80	6	709	C	C6-N1-C2	6.18	122.77	120.30
80	6	796	A	C5-N7-C8	-6.18	100.81	103.90
80	6	1610	G	C8-N9-C4	6.18	108.87	106.40
85	5	115	A	C5-C6-N1	-6.18	114.61	117.70
85	5	416	A	OP2-P-O3'	6.18	118.80	105.20
85	5	945	C	C5-C6-N1	-6.18	117.91	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1395	G	N1-C2-N3	6.18	127.61	123.90
85	5	1433	A	OP1-P-OP2	-6.18	110.33	119.60
85	5	2138	A	C5-N7-C8	-6.18	100.81	103.90
85	5	2705	A	N1-C6-N6	6.18	122.31	118.60
85	5	2967	A	N3-C4-C5	-6.18	122.47	126.80
37	7	22	A	C8-N9-C4	6.18	108.27	105.80
38	8	93	U	C6-N1-C2	6.18	124.71	121.00
36	1	1012	G	C5-C6-N1	6.18	114.59	111.50
36	1	1704	A	N1-C2-N3	6.18	132.39	129.30
36	1	2764	C	N3-C4-C5	-6.18	119.43	121.90
36	1	2887	A	OP1-P-OP2	6.18	128.87	119.60
85	5	104	G	C5-N7-C8	-6.18	101.21	104.30
85	5	1115	G	C5-N7-C8	-6.18	101.21	104.30
85	5	1118	C	O5'-P-OP1	6.18	118.11	110.70
85	5	1529	A	C2-N3-C4	-6.18	107.51	110.60
85	5	1775	G	N3-C4-N9	6.18	129.71	126.00
85	5	2280	A	C4-C5-C6	6.18	120.09	117.00
85	5	2794	G	OP2-P-O3'	6.18	118.79	105.20
37	7	4	U	C4-C5-C6	6.18	123.41	119.70
1	2	207	U	C5-C6-N1	-6.18	119.61	122.70
36	1	14	U	C4-C5-C6	6.18	123.41	119.70
36	1	502	U	OP1-P-OP2	-6.18	110.33	119.60
36	1	868	C	N3-C4-N4	6.18	122.32	118.00
36	1	901	G	C6-N1-C2	-6.18	121.39	125.10
36	1	944	C	N1-C2-N3	-6.18	114.88	119.20
36	1	1146	C	C5-C4-N4	-6.18	115.88	120.20
36	1	1901	A	C5-C6-N1	6.18	120.79	117.70
36	1	2114	C	C5-C6-N1	-6.18	117.91	121.00
80	6	655	G	C5-N7-C8	-6.18	101.21	104.30
85	5	805	G	N7-C8-N9	-6.18	110.01	113.10
85	5	2167	A	C4-C5-C6	6.18	120.09	117.00
85	5	2305	G	N1-C6-O6	-6.18	116.19	119.90
85	5	2598	G	O5'-P-OP2	-6.18	100.14	105.70
85	5	2705	A	N7-C8-N9	6.18	116.89	113.80
85	5	3191	G	C8-N9-C1'	-6.18	118.97	127.00
85	5	3349	C	N3-C4-N4	-6.18	113.68	118.00
1	2	105	A	C5-C6-N6	6.17	128.64	123.70
1	2	951	U	C2-N3-C4	-6.17	123.30	127.00
1	2	1181	G	N1-C6-O6	6.17	123.61	119.90
1	2	1285	U	C2-N3-C4	-6.17	123.30	127.00
1	2	1621	G	N1-C2-N3	6.17	127.60	123.90
36	1	41	G	C4-C5-N7	6.17	113.27	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	270	U	C5-C4-O4	-6.17	122.19	125.90
36	1	655	C	N1-C2-N3	6.17	123.52	119.20
36	1	884	A	O5'-P-OP1	-6.17	100.14	105.70
36	1	1147	G	C6-N1-C2	-6.17	121.39	125.10
36	1	1203	A	C8-N9-C4	6.17	108.27	105.80
36	1	1598	G	OP1-P-O3'	6.17	118.78	105.20
36	1	1666	G	OP1-P-OP2	-6.17	110.34	119.60
36	1	2601	A	O5'-P-OP2	-6.17	100.14	105.70
36	1	3148	U	N3-C2-O2	6.17	126.52	122.20
37	3	85	G	N3-C2-N2	-6.17	115.58	119.90
38	4	22	U	C4-C5-C6	6.17	123.40	119.70
38	4	132	G	C5-C6-O6	6.17	132.30	128.60
80	6	348	U	N1-C2-N3	6.17	118.61	114.90
80	6	834	G	N1-C6-O6	6.17	123.61	119.90
80	6	877	G	C8-N9-C4	-6.17	103.93	106.40
80	6	1360	A	C2-N3-C4	6.17	113.69	110.60
85	5	731	U	N3-C4-C5	-6.17	110.89	114.60
85	5	758	C	C5-C4-N4	6.17	124.52	120.20
85	5	1498	A	OP1-P-OP2	6.17	128.86	119.60
85	5	1514	G	O4'-C1'-N9	6.17	113.14	108.20
85	5	1880	U	O5'-P-OP2	-6.17	100.14	105.70
85	5	1948	G	N7-C8-N9	6.17	116.19	113.10
85	5	1949	G	N1-C2-N2	6.17	121.76	116.20
85	5	2093	A	N1-C2-N3	-6.17	126.21	129.30
1	2	1173	C	N3-C2-O2	6.17	126.22	121.90
36	1	428	A	OP2-P-O3'	6.17	118.78	105.20
36	1	2816	G	C5-N7-C8	6.17	107.39	104.30
36	1	2901	G	N3-C2-N2	-6.17	115.58	119.90
38	4	37	A	N1-C6-N6	-6.17	114.90	118.60
80	6	1138	A	C5-C6-N6	6.17	128.64	123.70
36	1	422	A	N9-C4-C5	6.17	108.27	105.80
36	1	810	A	C4-C5-N7	6.17	113.79	110.70
36	1	1421	G	OP1-P-OP2	-6.17	110.34	119.60
36	1	2349	U	C6-N1-C2	6.17	124.70	121.00
36	1	2717	U	C5-C4-O4	-6.17	122.20	125.90
37	3	30	G	C5-C6-O6	-6.17	124.90	128.60
80	6	383	G	N3-C4-C5	6.17	131.69	128.60
80	6	923	A	N1-C2-N3	6.17	132.39	129.30
80	6	1473	U	C2-N1-C1'	6.17	125.11	117.70
80	6	1645	G	C8-N9-C1'	6.17	135.02	127.00
85	5	793	C	C4-C5-C6	-6.17	114.31	117.40
85	5	1915	A	C5-C6-N1	6.17	120.78	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3182	G	C4-C5-N7	-6.17	108.33	110.80
37	7	1	G	C4-C5-N7	6.17	113.27	110.80
37	7	89	G	C2-N3-C4	-6.17	108.81	111.90
1	2	688	U	N3-C4-O4	-6.17	115.08	119.40
1	2	1724	U	N3-C4-O4	6.17	123.72	119.40
36	1	1325	U	N1-C2-O2	-6.17	118.48	122.80
36	1	2939	G	C6-N1-C2	-6.17	121.40	125.10
85	5	609	G	N3-C4-N9	-6.17	122.30	126.00
85	5	1779	C	C2-N3-C4	-6.17	116.81	119.90
85	5	2814	G	OP1-P-OP2	-6.17	110.34	119.60
1	2	419	G	C8-N9-C4	6.17	108.87	106.40
1	2	1194	A	C2-N3-C4	-6.17	107.52	110.60
1	2	1398	U	N3-C4-C5	-6.17	110.90	114.60
36	1	104	G	C8-N9-C4	-6.17	103.93	106.40
36	1	208	C	P-O3'-C3'	-6.17	112.30	119.70
36	1	704	U	C4-C5-C6	6.17	123.40	119.70
36	1	1905	G	O5'-P-OP1	-6.17	100.15	105.70
36	1	3101	G	C6-N1-C2	-6.17	121.40	125.10
36	1	3331	U	N3-C2-O2	6.17	126.52	122.20
36	1	3369	G	O5'-P-OP1	-6.17	100.15	105.70
38	4	39	G	N1-C6-O6	-6.17	116.20	119.90
38	4	139	U	N1-C2-N3	6.17	118.60	114.90
80	6	306	U	C4-C5-C6	6.17	123.40	119.70
80	6	356	G	C8-N9-C4	-6.17	103.93	106.40
80	6	423	G	C4-N9-C1'	-6.17	118.48	126.50
80	6	484	C	C6-N1-C2	-6.17	117.83	120.30
80	6	604	A	O5'-P-OP1	-6.17	100.15	105.70
80	6	1155	G	N3-C4-N9	-6.17	122.30	126.00
80	6	1298	U	N1-C2-N3	6.17	118.60	114.90
80	6	1451	C	C5-C4-N4	-6.17	115.88	120.20
80	6	1758	U	C5-C6-N1	6.17	125.78	122.70
9	s7	128	ASP	CB-CG-OD1	6.17	123.85	118.30
85	5	244	G	N7-C8-N9	-6.17	110.02	113.10
85	5	628	A	C5-C6-N1	-6.17	114.62	117.70
85	5	737	G	C4-C5-N7	-6.17	108.33	110.80
85	5	1174	G	N1-C6-O6	-6.17	116.20	119.90
85	5	1291	A	N3-C4-C5	6.17	131.12	126.80
85	5	2151	C	N1-C2-O2	-6.17	115.20	118.90
85	5	2393	G	C8-N9-C4	-6.17	103.93	106.40
85	5	2595	A	OP1-P-OP2	-6.17	110.35	119.60
85	5	2780	A	C6-C5-N7	-6.17	127.98	132.30
37	7	117	A	N1-C6-N6	6.17	122.30	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1288	U	C6-N1-C2	-6.17	117.30	121.00
36	1	862	U	N1-C2-O2	-6.17	118.48	122.80
36	1	879	U	N1-C2-O2	6.17	127.12	122.80
36	1	1116	G	N1-C2-N3	6.17	127.60	123.90
36	1	1812	G	N1-C6-O6	-6.17	116.20	119.90
36	1	2174	G	OP1-P-O3'	6.17	118.77	105.20
37	3	69	C	C4-C5-C6	6.17	120.48	117.40
38	4	66	A	C5-C6-N6	6.17	128.63	123.70
80	6	95	G	C5-N7-C8	6.17	107.38	104.30
80	6	1512	G	C5-C6-N1	-6.17	108.42	111.50
85	5	1128	U	N3-C2-O2	6.17	126.52	122.20
85	5	1173	U	C2-N1-C1'	6.17	125.10	117.70
85	5	1489	A	C5-N7-C8	-6.17	100.82	103.90
43	16	31	ARG	NE-CZ-NH1	-6.17	117.22	120.30
1	2	429	G	C5-C6-N1	-6.17	108.42	111.50
36	1	8	C	C5-C4-N4	-6.17	115.89	120.20
36	1	2309	A	N9-C4-C5	6.17	108.27	105.80
36	1	2808	A	C2-N3-C4	-6.17	107.52	110.60
80	6	1323	C	C5-C6-N1	-6.17	117.92	121.00
85	5	1198	C	C2-N3-C4	-6.17	116.82	119.90
85	5	1271	A	C8-N9-C4	6.17	108.27	105.80
85	5	1443	G	C4-N9-C1'	6.17	134.51	126.50
85	5	1503	A	N3-C4-C5	6.17	131.12	126.80
85	5	2937	G	C6-C5-N7	-6.17	126.70	130.40
1	2	584	C	C5-C6-N1	-6.16	117.92	121.00
1	2	950	A	C5-N7-C8	-6.16	100.82	103.90
1	2	1262	C	N3-C2-O2	6.16	126.21	121.90
1	2	1307	G	N3-C2-N2	-6.16	115.58	119.90
1	2	1316	C	C6-N1-C2	-6.16	117.83	120.30
36	1	1049	C	C6-N1-C2	-6.16	117.83	120.30
36	1	1174	G	C5-C6-O6	-6.16	124.90	128.60
36	1	1517	G	N1-C2-N3	6.16	127.60	123.90
36	1	2143	A	C5-C6-N1	6.16	120.78	117.70
36	1	2408	U	C5-C4-O4	-6.16	122.20	125.90
36	1	2956	A	C8-N9-C4	-6.16	103.33	105.80
36	1	3292	A	C5-N7-C8	6.16	106.98	103.90
38	4	124	G	N7-C8-N9	6.16	116.18	113.10
80	6	1063	U	N1-C2-N3	-6.16	111.20	114.90
80	6	1100	G	C8-N9-C4	-6.16	103.94	106.40
80	6	1139	A	C2-N3-C4	6.16	113.68	110.60
85	5	22	G	N3-C2-N2	-6.16	115.58	119.90
85	5	47	C	C4-C5-C6	6.16	120.48	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	164	A	N9-C4-C5	-6.16	103.33	105.80
85	5	260	C	N1-C2-O2	6.16	122.60	118.90
85	5	492	U	OP2-P-O3'	6.16	118.76	105.20
85	5	559	A	C6-N1-C2	-6.16	114.90	118.60
85	5	962	A	C4-C5-C6	6.16	120.08	117.00
85	5	1096	U	O5'-P-OP2	-6.16	100.15	105.70
85	5	2506	U	C2-N3-C4	6.16	130.70	127.00
85	5	2623	G	C8-N9-C1'	-6.16	118.99	127.00
85	5	2754	G	O5'-P-OP1	6.16	118.10	110.70
37	7	37	G	C2-N3-C4	6.16	114.98	111.90
36	1	357	A	O5'-P-OP2	-6.16	100.15	105.70
36	1	779	G	C6-C5-N7	-6.16	126.70	130.40
36	1	1632	A	N1-C2-N3	6.16	132.38	129.30
80	6	575	C	C6-N1-C2	-6.16	117.83	120.30
85	5	563	U	C6-N1-C2	6.16	124.70	121.00
85	5	628	A	N7-C8-N9	-6.16	110.72	113.80
85	5	857	G	C5-C6-N1	-6.16	108.42	111.50
85	5	2916	U	N3-C4-O4	6.16	123.71	119.40
85	5	3146	G	N3-C4-C5	6.16	131.68	128.60
37	7	42	A	C5-C6-N1	-6.16	114.62	117.70
1	2	323	A	OP1-P-OP2	-6.16	110.36	119.60
36	1	231	G	N1-C6-O6	-6.16	116.20	119.90
36	1	321	C	OP2-P-O3'	6.16	118.75	105.20
36	1	756	U	O5'-P-OP1	6.16	118.09	110.70
36	1	1476	G	OP2-P-O3'	6.16	118.75	105.20
36	1	1599	G	OP1-P-OP2	6.16	128.84	119.60
36	1	2244	A	N1-C6-N6	-6.16	114.90	118.60
36	1	2561	A	N9-C4-C5	-6.16	103.34	105.80
36	1	2850	G	N1-C6-O6	6.16	123.60	119.90
80	6	1538	U	N3-C2-O2	6.16	126.51	122.20
85	5	329	U	C2-N3-C4	-6.16	123.30	127.00
85	5	368	G	C4-C5-N7	-6.16	108.34	110.80
85	5	888	A	N1-C6-N6	6.16	122.30	118.60
85	5	901	G	C4-C5-C6	6.16	122.50	118.80
85	5	923	C	N1-C2-N3	6.16	123.51	119.20
85	5	934	G	N3-C4-C5	-6.16	125.52	128.60
85	5	2324	A	N9-C4-C5	-6.16	103.34	105.80
85	5	2376	G	N1-C2-N3	6.16	127.60	123.90
85	5	2644	C	O4'-C1'-N1	-6.16	103.27	108.20
85	5	2976	A	N3-C4-C5	-6.16	122.49	126.80
85	5	3053	G	C5-C6-N1	-6.16	108.42	111.50
85	5	3373	U	N3-C4-C5	6.16	118.30	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	109	G	C4-C5-N7	6.16	113.26	110.80
43	16	63	LEU	CB-CG-CD1	-6.16	100.53	111.00
1	2	1093	G	C4-C5-N7	-6.16	108.34	110.80
1	2	1715	A	N7-C8-N9	6.16	116.88	113.80
1	2	1756	C	N3-C2-O2	6.16	126.21	121.90
1	2	1765	A	C6-N1-C2	6.16	122.30	118.60
36	1	992	A	C5-C6-N6	6.16	128.63	123.70
36	1	1748	G	C4-C5-C6	6.16	122.50	118.80
36	1	2180	G	N3-C4-C5	6.16	131.68	128.60
36	1	2419	A	N9-C4-C5	6.16	108.26	105.80
36	1	2918	G	N3-C4-C5	-6.16	125.52	128.60
36	1	2995	A	C8-N9-C4	6.16	108.26	105.80
36	1	3217	C	N1-C2-O2	6.16	122.59	118.90
80	6	294	C	C5-C6-N1	-6.16	117.92	121.00
80	6	570	A	C6-C5-N7	-6.16	127.99	132.30
80	6	1051	G	O4'-C1'-N9	6.16	113.13	108.20
80	6	1399	C	C5-C6-N1	6.16	124.08	121.00
85	5	346	C	O5'-P-OP2	-6.16	100.16	105.70
85	5	895	A	C8-N9-C4	-6.16	103.34	105.80
85	5	952	A	N1-C6-N6	-6.16	114.90	118.60
85	5	1108	U	C5-C6-N1	-6.16	119.62	122.70
85	5	1417	G	C5-C6-O6	-6.16	124.91	128.60
85	5	2238	G	N1-C2-N2	-6.16	110.66	116.20
85	5	2888	U	C4-C5-C6	6.16	123.39	119.70
37	7	107	C	OP1-P-OP2	-6.16	110.36	119.60
1	2	997	G	C6-C5-N7	-6.16	126.71	130.40
36	1	105	C	O5'-P-OP2	-6.16	100.16	105.70
36	1	199	A	C4-C5-C6	6.16	120.08	117.00
36	1	273	A	N1-C2-N3	6.16	132.38	129.30
36	1	334	A	C4-C5-N7	6.16	113.78	110.70
36	1	1170	A	OP1-P-OP2	6.16	128.84	119.60
36	1	1204	A	OP2-P-O3'	6.16	118.75	105.20
36	1	1826	C	N3-C4-C5	-6.16	119.44	121.90
36	1	3103	A	C8-N9-C4	6.16	108.26	105.80
37	3	109	G	C8-N9-C4	-6.16	103.94	106.40
38	4	111	A	N1-C6-N6	6.16	122.29	118.60
80	6	20	G	OP1-P-O3'	6.16	118.75	105.20
80	6	673	A	N1-C6-N6	-6.16	114.91	118.60
85	5	665	A	N1-C6-N6	6.16	122.29	118.60
85	5	3049	A	N1-C6-N6	-6.16	114.91	118.60
85	5	3106	A	OP1-P-O3'	6.16	118.74	105.20
85	5	3225	C	C6-N1-C2	-6.16	117.84	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	l5	48	LYS	CD-CE-NZ	6.16	125.86	111.70
36	1	83	U	N3-C2-O2	-6.16	117.89	122.20
36	1	218	G	N1-C6-O6	6.16	123.59	119.90
36	1	429	U	N3-C4-O4	6.16	123.71	119.40
36	1	1345	G	C5-C6-N1	-6.16	108.42	111.50
36	1	1381	A	OP1-P-OP2	-6.16	110.36	119.60
36	1	1472	U	C4-C5-C6	6.16	123.39	119.70
36	1	1507	G	O4'-C1'-N9	-6.16	103.28	108.20
36	1	1811	G	C5-N7-C8	6.16	107.38	104.30
36	1	2391	G	N1-C2-N3	6.16	127.59	123.90
36	1	2677	G	C8-N9-C4	-6.16	103.94	106.40
36	1	2923	U	C2-N3-C4	-6.16	123.31	127.00
36	1	3095	U	N3-C4-C5	-6.16	110.91	114.60
36	1	3369	G	N1-C2-N3	6.16	127.59	123.90
36	1	3372	A	C5-N7-C8	6.16	106.98	103.90
50	M4	47	ASP	CB-CG-OD2	-6.16	112.76	118.30
80	6	323	A	C6-C5-N7	-6.16	127.99	132.30
80	6	677	G	N1-C6-O6	6.16	123.59	119.90
80	6	1472	C	C2-N3-C4	-6.16	116.82	119.90
80	6	1662	G	N1-C6-O6	6.16	123.59	119.90
85	5	227	G	N1-C2-N2	-6.16	110.66	116.20
85	5	510	G	N3-C2-N2	-6.16	115.59	119.90
85	5	826	G	C4-C5-C6	6.16	122.49	118.80
85	5	2677	G	OP1-P-OP2	-6.16	110.37	119.60
85	5	2719	U	C6-N1-C2	6.16	124.69	121.00
85	5	2858	U	N1-C2-N3	6.16	118.59	114.90
85	5	2871	G	C8-N9-C1'	6.16	135.00	127.00
85	5	2957	G	C6-C5-N7	-6.16	126.71	130.40
85	5	2976	A	C5-N7-C8	6.16	106.98	103.90
85	5	3103	A	C6-N1-C2	-6.16	114.91	118.60
37	7	82	G	C5-C6-N1	6.16	114.58	111.50
1	2	49	C	C4-C5-C6	6.15	120.48	117.40
1	2	694	U	C6-N1-C2	6.15	124.69	121.00
1	2	1768	U	C2-N3-C4	-6.15	123.31	127.00
36	1	331	G	N3-C2-N2	-6.15	115.59	119.90
36	1	976	U	N3-C2-O2	6.15	126.51	122.20
36	1	1155	C	N3-C2-O2	6.15	126.21	121.90
36	1	1302	A	C2-N3-C4	-6.15	107.52	110.60
36	1	3161	C	OP1-P-OP2	-6.15	110.37	119.60
37	3	101	G	C6-C5-N7	-6.15	126.71	130.40
80	6	417	A	N1-C6-N6	6.15	122.29	118.60
80	6	757	A	N1-C2-N3	6.15	132.38	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	792	U	C6-N1-C2	-6.15	117.31	121.00
85	5	1156	C	C2-N3-C4	-6.15	116.82	119.90
85	5	2278	C	C6-N1-C2	6.15	122.76	120.30
85	5	2694	A	C5-N7-C8	-6.15	100.82	103.90
1	2	77	U	C6-N1-C2	6.15	124.69	121.00
1	2	1185	A	N3-C4-C5	-6.15	122.49	126.80
1	2	1593	G	N3-C4-N9	6.15	129.69	126.00
1	2	1637	G	N3-C4-N9	6.15	129.69	126.00
36	1	648	C	O4'-C1'-N1	-6.15	103.28	108.20
36	1	780	A	N3-C4-N9	-6.15	122.48	127.40
36	1	847	A	OP1-P-OP2	-6.15	110.37	119.60
36	1	2335	G	N9-C4-C5	6.15	107.86	105.40
36	1	2372	A	N3-C4-N9	6.15	132.32	127.40
36	1	3102	G	C2-N3-C4	-6.15	108.82	111.90
38	4	61	A	OP2-P-O3'	6.15	118.74	105.20
38	4	151	C	N3-C4-N4	6.15	122.31	118.00
47	M0	142	ASP	CB-CG-OD2	6.15	123.84	118.30
80	6	453	U	N1-C2-O2	-6.15	118.49	122.80
80	6	1107	G	C8-N9-C4	-6.15	103.94	106.40
85	5	513	G	C4-N9-C1'	6.15	134.50	126.50
85	5	1191	U	N1-C2-N3	-6.15	111.21	114.90
85	5	1424	C	N3-C2-O2	6.15	126.21	121.90
85	5	1590	G	O5'-P-OP1	-6.15	100.16	105.70
85	5	1904	C	C6-N1-C1'	-6.15	113.42	120.80
85	5	2342	U	C5-C4-O4	-6.15	122.21	125.90
85	5	2682	C	N1-C2-O2	6.15	122.59	118.90
85	5	2978	U	N1-C1'-C2'	6.15	122.00	114.00
38	8	143	U	N3-C4-C5	-6.15	110.91	114.60
1	2	149	C	N3-C4-C5	6.15	124.36	121.90
1	2	1071	A	C5-C6-N6	-6.15	118.78	123.70
1	2	1284	U	OP2-P-O3'	-6.15	91.67	105.20
36	1	355	A	O5'-P-OP2	6.15	118.08	110.70
36	1	954	U	N3-C4-O4	6.15	123.71	119.40
36	1	1165	A	O5'-P-OP1	6.15	118.08	110.70
36	1	1318	A	C2-N3-C4	-6.15	107.53	110.60
36	1	2280	A	C5-C6-N6	6.15	128.62	123.70
80	6	1669	U	C5-C6-N1	6.15	125.78	122.70
85	5	586	C	N3-C4-N4	-6.15	113.69	118.00
85	5	611	A	N1-C2-N3	-6.15	126.22	129.30
85	5	1068	C	C2-N1-C1'	-6.15	112.03	118.80
85	5	1412	G	C2-N3-C4	-6.15	108.83	111.90
85	5	1516	C	OP2-P-O3'	6.15	118.73	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2114	C	C2-N3-C4	6.15	122.97	119.90
85	5	2696	A	N1-C6-N6	-6.15	114.91	118.60
85	5	2705	A	C8-N9-C4	-6.15	103.34	105.80
85	5	3002	C	C6-N1-C2	6.15	122.76	120.30
85	5	3180	A	OP1-P-OP2	6.15	128.83	119.60
85	5	3188	G	C6-N1-C2	-6.15	121.41	125.10
36	1	71	A	C5-C6-N1	6.15	120.78	117.70
36	1	1366	A	OP2-P-O3'	6.15	118.73	105.20
36	1	1839	A	C2-N3-C4	-6.15	107.53	110.60
36	1	2375	G	OP2-P-O3'	6.15	118.73	105.20
36	1	2732	G	N9-C4-C5	-6.15	102.94	105.40
85	5	277	G	OP1-P-OP2	-6.15	110.38	119.60
85	5	512	U	C2-N3-C4	-6.15	123.31	127.00
85	5	575	G	C4-C5-N7	-6.15	108.34	110.80
85	5	2418	G	C5-N7-C8	-6.15	101.22	104.30
85	5	3134	A	C5-N7-C8	-6.15	100.83	103.90
1	2	1724	U	N1-C2-N3	6.15	118.59	114.90
36	1	20	A	OP2-P-O3'	6.15	118.72	105.20
36	1	361	A	C8-N9-C4	6.15	108.26	105.80
36	1	921	A	N7-C8-N9	-6.15	110.73	113.80
36	1	1075	A	C5-C6-N6	-6.15	118.78	123.70
36	1	1857	C	OP1-P-O3'	6.15	118.72	105.20
36	1	2840	C	N1-C2-N3	6.15	123.50	119.20
36	1	3170	A	C6-C5-N7	-6.15	128.00	132.30
72	O6	56	ARG	NE-CZ-NH2	-6.15	117.23	120.30
80	6	615	A	N1-C6-N6	-6.15	114.91	118.60
80	6	1555	A	N1-C2-N3	-6.15	126.23	129.30
85	5	536	U	O5'-P-OP2	-6.15	100.17	105.70
85	5	737	G	C6-N1-C2	-6.15	121.41	125.10
85	5	1721	U	N1-C2-O2	-6.15	118.50	122.80
85	5	2757	U	N3-C4-O4	6.15	123.70	119.40
85	5	2829	U	C5-C6-N1	6.15	125.77	122.70
75	o9	42	ARG	NE-CZ-NH1	-6.15	117.23	120.30
36	1	61	A	O5'-P-OP1	-6.15	100.17	105.70
36	1	1850	A	N3-C4-C5	6.15	131.10	126.80
36	1	2285	C	C6-N1-C2	-6.15	117.84	120.30
36	1	2614	G	N1-C6-O6	-6.15	116.21	119.90
36	1	2747	A	OP1-P-OP2	-6.15	110.38	119.60
36	1	2837	A	O5'-P-OP1	6.15	118.08	110.70
36	1	3346	U	N3-C4-O4	-6.15	115.10	119.40
37	3	56	A	N9-C4-C5	-6.15	103.34	105.80
80	6	136	C	N1-C2-N3	-6.15	114.90	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1429	G	O5'-P-OP2	6.15	118.08	110.70
85	5	1513	G	N7-C8-N9	6.15	116.17	113.10
85	5	2299	A	N9-C1'-C2'	-6.15	105.24	112.00
85	5	3022	G	N7-C8-N9	6.15	116.17	113.10
68	o2	89	THR	CA-CB-CG2	-6.15	103.80	112.40
1	2	19	A	C8-N9-C4	-6.14	103.34	105.80
1	2	114	C	C5-C6-N1	-6.14	117.93	121.00
1	2	557	G	C5-C6-N1	-6.14	108.43	111.50
1	2	1630	U	N1-C2-N3	6.14	118.59	114.90
36	1	899	U	N3-C4-O4	-6.14	115.10	119.40
36	1	1071	U	C5-C6-N1	6.14	125.77	122.70
36	1	1493	G	C6-N1-C2	-6.14	121.41	125.10
36	1	1745	C	N3-C4-C5	-6.14	119.44	121.90
36	1	1760	A	N1-C2-N3	-6.14	126.23	129.30
36	1	1823	A	N1-C2-N3	6.14	132.37	129.30
36	1	2661	G	C4-C5-C6	6.14	122.49	118.80
36	1	2929	C	C4-C5-C6	6.14	120.47	117.40
80	6	171	A	N1-C2-N3	6.14	132.37	129.30
80	6	423	G	N9-C1'-C2'	6.14	121.99	114.00
80	6	467	G	C5-C6-O6	6.14	132.29	128.60
80	6	581	U	N1-C2-N3	-6.14	111.21	114.90
80	6	801	G	N9-C4-C5	6.14	107.86	105.40
85	5	122	A	O5'-P-OP2	-6.14	100.17	105.70
85	5	200	C	O5'-P-OP2	6.14	118.08	110.70
85	5	358	G	C4-C5-C6	6.14	122.49	118.80
85	5	570	A	N3-C4-C5	-6.14	122.50	126.80
85	5	613	G	N3-C4-C5	6.14	131.67	128.60
85	5	893	C	C6-N1-C2	-6.14	117.84	120.30
85	5	1121	U	N3-C4-C5	6.14	118.29	114.60
85	5	1312	C	C5-C4-N4	6.14	124.50	120.20
85	5	1894	U	C2-N3-C4	-6.14	123.31	127.00
85	5	2187	G	N3-C2-N2	6.14	124.20	119.90
85	5	2190	U	O5'-P-OP2	-6.14	100.17	105.70
85	5	2206	G	C5-C6-O6	-6.14	124.91	128.60
85	5	3153	U	N3-C2-O2	-6.14	117.90	122.20
1	2	273	G	N7-C8-N9	6.14	116.17	113.10
1	2	356	G	O5'-P-OP1	6.14	118.07	110.70
1	2	370	A	C4-C5-N7	-6.14	107.63	110.70
36	1	525	C	C6-N1-C2	6.14	122.76	120.30
36	1	1094	U	N3-C4-O4	6.14	123.70	119.40
36	1	1749	A	C5-N7-C8	-6.14	100.83	103.90
36	1	1879	A	C4-C5-N7	-6.14	107.63	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2427	U	C4-C5-C6	-6.14	116.01	119.70
36	1	2956	A	C5-C6-N6	-6.14	118.79	123.70
38	4	63	G	C8-N9-C1'	6.14	134.99	127.00
38	4	82	U	C2-N3-C4	6.14	130.69	127.00
41	L4	185	LYS	CD-CE-NZ	6.14	125.83	111.70
80	6	358	U	O5'-P-OP2	-6.14	100.17	105.70
80	6	1084	A	C5-C6-N1	6.14	120.77	117.70
85	5	589	A	C4-C5-N7	6.14	113.77	110.70
85	5	858	A	C5-C6-N6	-6.14	118.78	123.70
85	5	1938	U	OP1-P-OP2	-6.14	110.39	119.60
85	5	2093	A	N1-C6-N6	6.14	122.28	118.60
85	5	2733	A	C5-C6-N6	6.14	128.61	123.70
85	5	2901	G	C6-N1-C2	-6.14	121.41	125.10
85	5	3148	U	OP1-P-O3'	-6.14	91.69	105.20
85	5	3240	C	C6-N1-C2	6.14	122.76	120.30
85	5	3338	C	OP1-P-OP2	-6.14	110.39	119.60
85	5	3361	G	C4-C5-N7	-6.14	108.34	110.80
36	1	589	A	N7-C8-N9	-6.14	110.73	113.80
36	1	1519	G	C2-N3-C4	-6.14	108.83	111.90
36	1	2102	U	O5'-P-OP2	-6.14	100.17	105.70
36	1	2291	A	C2-N3-C4	6.14	113.67	110.60
36	1	2797	C	OP1-P-OP2	-6.14	110.39	119.60
36	1	2978	U	N1-C2-N3	6.14	118.58	114.90
80	6	277	U	N3-C4-C5	6.14	118.28	114.60
80	6	947	U	C6-N1-C2	-6.14	117.31	121.00
80	6	1773	C	N3-C4-N4	6.14	122.30	118.00
85	5	789	A	C5-C6-N1	-6.14	114.63	117.70
85	5	997	A	OP2-P-O3'	6.14	118.71	105.20
85	5	1441	G	C2-N3-C4	-6.14	108.83	111.90
1	2	830	A	N1-C6-N6	6.14	122.28	118.60
1	2	1058	C	OP1-P-OP2	-6.14	110.39	119.60
36	1	205	C	C4-C5-C6	6.14	120.47	117.40
36	1	383	G	C5-N7-C8	6.14	107.37	104.30
36	1	515	C	OP1-P-OP2	6.14	128.81	119.60
36	1	517	G	C5-C6-N1	-6.14	108.43	111.50
36	1	632	G	N7-C8-N9	6.14	116.17	113.10
36	1	769	G	O5'-P-OP2	-6.14	100.17	105.70
36	1	1127	G	N1-C2-N3	-6.14	120.22	123.90
36	1	1803	C	N1-C2-N3	-6.14	114.90	119.20
36	1	2239	G	N3-C2-N2	-6.14	115.60	119.90
36	1	2782	U	N3-C4-C5	-6.14	110.92	114.60
36	1	3330	A	N9-C4-C5	6.14	108.26	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1110	G	C5-C6-N1	-6.14	108.43	111.50
80	6	1373	C	N1-C2-O2	6.14	122.58	118.90
85	5	418	A	N7-C8-N9	6.14	116.87	113.80
85	5	693	A	C6-C5-N7	-6.14	128.00	132.30
85	5	1446	A	C5-C6-N1	6.14	120.77	117.70
85	5	1518	U	O5'-P-OP1	-6.14	100.17	105.70
85	5	1737	U	N1-C2-O2	-6.14	118.50	122.80
85	5	3087	A	C5-C6-N6	-6.14	118.79	123.70
85	5	3243	A	N9-C4-C5	-6.14	103.34	105.80
52	m6	145	VAL	CA-CB-CG2	-6.14	101.69	110.90
1	2	426	G	N1-C2-N2	-6.14	110.68	116.20
1	2	972	U	OP1-P-OP2	6.14	128.81	119.60
36	1	1192	C	C5-C4-N4	6.14	124.50	120.20
36	1	1388	U	O5'-P-OP1	-6.14	100.18	105.70
36	1	1920	U	C2-N3-C4	-6.14	123.32	127.00
36	1	2303	A	C5-C6-N1	6.14	120.77	117.70
36	1	2920	U	C2-N3-C4	-6.14	123.32	127.00
36	1	3011	A	C6-N1-C2	-6.14	114.92	118.60
36	1	3028	G	OP1-P-OP2	-6.14	110.39	119.60
36	1	3320	A	N1-C2-N3	6.14	132.37	129.30
80	6	978	A	C8-N9-C4	-6.14	103.34	105.80
85	5	707	U	N1-C2-O2	-6.14	118.50	122.80
85	5	1379	G	O5'-P-OP1	6.14	118.07	110.70
85	5	1872	C	C2-N3-C4	-6.14	116.83	119.90
85	5	1935	G	C6-N1-C2	6.14	128.78	125.10
38	8	112	U	C2-N1-C1'	-6.14	110.33	117.70
1	2	678	U	C5-C4-O4	6.14	129.58	125.90
36	1	77	A	N7-C8-N9	6.14	116.87	113.80
36	1	608	A	C2-N3-C4	6.14	113.67	110.60
36	1	690	A	C4-C5-N7	-6.14	107.63	110.70
36	1	1157	G	N7-C8-N9	6.14	116.17	113.10
36	1	1803	C	C4-C5-C6	-6.14	114.33	117.40
36	1	2884	C	C2-N3-C4	6.14	122.97	119.90
36	1	3015	G	C4-C5-N7	6.14	113.25	110.80
45	L8	200	LEU	CB-CG-CD2	-6.14	100.57	111.00
80	6	33	U	C2-N3-C4	6.14	130.68	127.00
80	6	142	G	N3-C4-N9	6.14	129.68	126.00
80	6	309	C	N3-C4-N4	6.14	122.30	118.00
80	6	349	U	C4-C5-C6	6.14	123.38	119.70
80	6	463	U	C2-N3-C4	6.14	130.68	127.00
80	6	712	G	C2-N3-C4	6.14	114.97	111.90
80	6	1038	U	N3-C4-O4	6.14	123.70	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1402	G	N1-C2-N2	-6.14	110.68	116.20
85	5	346	C	C4-C5-C6	6.14	120.47	117.40
85	5	904	A	C5-C6-N1	6.14	120.77	117.70
85	5	976	U	C2-N3-C4	-6.14	123.32	127.00
85	5	1003	A	N7-C8-N9	6.14	116.87	113.80
85	5	1393	A	C6-N1-C2	-6.14	114.92	118.60
85	5	1560	G	N3-C2-N2	-6.14	115.60	119.90
85	5	1944	U	C2-N3-C4	-6.14	123.32	127.00
85	5	2312	A	N1-C2-N3	6.14	132.37	129.30
85	5	2505	U	N1-C2-O2	6.14	127.09	122.80
1	2	978	A	OP1-P-OP2	6.13	128.80	119.60
1	2	1174	U	N1-C2-N3	6.13	118.58	114.90
36	1	10	C	O5'-P-OP1	6.13	118.06	110.70
36	1	96	G	N9-C4-C5	-6.13	102.95	105.40
36	1	1929	G	N9-C4-C5	6.13	107.85	105.40
36	1	3183	A	C5-C6-N6	6.13	128.61	123.70
36	1	3227	A	C2-N3-C4	-6.13	107.53	110.60
36	1	3249	C	N1-C2-N3	-6.13	114.91	119.20
80	6	256	A	C5-N7-C8	-6.13	100.83	103.90
80	6	334	G	N9-C4-C5	6.13	107.85	105.40
80	6	1187	U	N1-C2-O2	-6.13	118.50	122.80
80	6	1192	C	C5-C4-N4	6.13	124.49	120.20
80	6	1275	A	C5-C6-N1	-6.13	114.63	117.70
80	6	1606	C	O5'-P-OP2	-6.13	100.18	105.70
85	5	154	U	C5-C6-N1	6.13	125.77	122.70
85	5	286	U	N3-C4-C5	-6.13	110.92	114.60
85	5	388	G	N1-C2-N2	6.13	121.72	116.20
85	5	1297	C	C5-C4-N4	-6.13	115.91	120.20
85	5	2283	G	N7-C8-N9	6.13	116.17	113.10
85	5	2810	C	O4'-C1'-N1	6.13	113.11	108.20
85	5	3292	A	N9-C4-C5	-6.13	103.35	105.80
37	7	110	G	C2-N3-C4	-6.13	108.83	111.90
1	2	187	G	C5-N7-C8	6.13	107.37	104.30
1	2	757	A	C4-C5-N7	6.13	113.77	110.70
36	1	938	C	C4-C5-C6	-6.13	114.33	117.40
36	1	1113	G	C6-N1-C2	-6.13	121.42	125.10
36	1	2699	G	N3-C4-C5	6.13	131.67	128.60
36	1	3144	G	OP1-P-OP2	6.13	128.80	119.60
37	3	72	A	N3-C4-C5	6.13	131.09	126.80
38	4	98	U	N1-C2-O2	-6.13	118.51	122.80
80	6	457	G	C5-C6-N1	-6.13	108.43	111.50
85	5	12	A	C5-C6-N6	-6.13	118.79	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	931	C	O4'-C1'-N1	-6.13	103.29	108.20
85	5	2872	A	N7-C8-N9	6.13	116.87	113.80
1	2	1022	A	O4'-C1'-N9	6.13	113.11	108.20
36	1	39	A	OP1-P-OP2	-6.13	110.40	119.60
36	1	775	A	C4-C5-N7	6.13	113.77	110.70
36	1	1051	U	O5'-P-OP1	-6.13	100.18	105.70
36	1	1410	U	N3-C4-O4	-6.13	115.11	119.40
36	1	1681	U	N1-C2-N3	6.13	118.58	114.90
36	1	2179	C	C4-C5-C6	6.13	120.47	117.40
36	1	3262	U	C5-C6-N1	-6.13	119.63	122.70
80	6	793	A	C8-N9-C4	6.13	108.25	105.80
85	5	325	A	C6-N1-C2	-6.13	114.92	118.60
85	5	351	A	C2-N3-C4	-6.13	107.53	110.60
85	5	379	C	OP1-P-OP2	-6.13	110.40	119.60
85	5	841	A	C5-C6-N6	-6.13	118.80	123.70
85	5	914	A	N1-C2-N3	6.13	132.37	129.30
85	5	2266	U	OP1-P-OP2	-6.13	110.40	119.60
85	5	2780	A	C5-N7-C8	-6.13	100.83	103.90
38	8	52	A	N3-C4-C5	-6.13	122.51	126.80
1	2	234	G	C8-N9-C4	-6.13	103.95	106.40
1	2	989	C	N1-C2-N3	6.13	123.49	119.20
1	2	1065	C	C2-N1-C1'	6.13	125.54	118.80
36	1	96	G	C8-N9-C1'	6.13	134.97	127.00
36	1	420	G	C6-C5-N7	-6.13	126.72	130.40
36	1	1057	A	C5-C6-N1	-6.13	114.64	117.70
36	1	1104	G	C2-N3-C4	-6.13	108.83	111.90
36	1	2352	A	OP1-P-O3'	6.13	118.69	105.20
80	6	583	C	C5-C6-N1	6.13	124.06	121.00
80	6	1146	G	C2-N3-C4	-6.13	108.83	111.90
85	5	1118	C	O5'-P-OP2	-6.13	100.18	105.70
85	5	1209	G	O5'-P-OP1	-6.13	100.18	105.70
85	5	1643	A	C8-N9-C4	-6.13	103.35	105.80
85	5	2220	A	C4-C5-N7	6.13	113.77	110.70
85	5	3212	C	C2-N3-C4	-6.13	116.83	119.90
62	n6	6	LEU	CA-C-O	-6.13	107.23	120.10
1	2	167	U	C5-C4-O4	-6.13	122.22	125.90
1	2	377	G	N1-C2-N2	6.13	121.72	116.20
1	2	1665	U	N3-C4-C5	6.13	118.28	114.60
36	1	92	G	N3-C4-N9	6.13	129.68	126.00
36	1	1482	A	C2-N3-C4	6.13	113.66	110.60
36	1	2364	G	C5-C6-N1	-6.13	108.44	111.50
36	1	2382	G	C5-C6-O6	-6.13	124.92	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2941	A	N1-C2-N3	-6.13	126.24	129.30
36	1	3209	A	N1-C6-N6	6.13	122.28	118.60
80	6	332	U	N1-C2-N3	6.13	118.58	114.90
80	6	370	A	N1-C6-N6	-6.13	114.92	118.60
85	5	302	U	N3-C4-O4	-6.13	115.11	119.40
85	5	411	U	N1-C2-O2	-6.13	118.51	122.80
85	5	429	U	C2-N3-C4	6.13	130.68	127.00
85	5	795	G	N1-C2-N3	6.13	127.58	123.90
85	5	1097	G	C5-C6-N1	-6.13	108.44	111.50
85	5	1346	G	N9-C4-C5	6.13	107.85	105.40
85	5	2924	U	C4-C5-C6	6.13	123.38	119.70
85	5	3128	G	N3-C4-N9	-6.13	122.32	126.00
85	5	3238	G	C5-N7-C8	-6.13	101.24	104.30
47	m0	145	LYS	CD-CE-NZ	6.13	125.80	111.70
1	2	598	U	C2-N3-C4	-6.13	123.33	127.00
1	2	887	G	N1-C6-O6	-6.13	116.22	119.90
1	2	1014	U	N3-C4-C5	6.13	118.28	114.60
1	2	1108	A	N7-C8-N9	6.13	116.86	113.80
1	2	1231	C	C6-N1-C2	6.13	122.75	120.30
36	1	793	C	N3-C4-N4	6.13	122.29	118.00
36	1	894	G	N3-C4-C5	-6.13	125.54	128.60
36	1	896	A	C5-C6-N1	6.13	120.76	117.70
36	1	2128	C	O5'-P-OP1	6.13	118.05	110.70
36	1	2623	G	C8-N9-C4	-6.13	103.95	106.40
36	1	2771	U	O4'-C1'-N1	6.13	113.10	108.20
36	1	3174	A	N9-C4-C5	6.13	108.25	105.80
38	4	53	A	C5-C6-N6	6.13	128.60	123.70
85	5	1381	A	N1-C2-N3	6.13	132.36	129.30
85	5	1437	C	C4-C5-C6	6.13	120.46	117.40
85	5	2255	A	N1-C6-N6	-6.13	114.92	118.60
85	5	2373	A	C5'-C4'-C3'	-6.13	106.20	116.00
85	5	2421	U	OP1-P-OP2	6.13	128.79	119.60
85	5	3252	G	C8-N9-C4	6.13	108.85	106.40
1	2	703	G	OP1-P-O3'	6.12	118.68	105.20
36	1	138	U	C2-N3-C4	-6.12	123.33	127.00
36	1	665	A	C4-C5-N7	6.12	113.76	110.70
36	1	1512	U	C6-N1-C2	-6.12	117.33	121.00
36	1	1586	G	C5-C6-N1	-6.12	108.44	111.50
36	1	2748	A	C8-N9-C4	6.12	108.25	105.80
38	4	21	C	C6-N1-C2	6.12	122.75	120.30
38	4	28	C	O5'-P-OP1	6.12	118.05	110.70
85	5	82	C	C5-C4-N4	6.12	124.49	120.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	622	A	N9-C4-C5	-6.12	103.35	105.80
85	5	954	U	OP2-P-O3'	6.12	118.67	105.20
85	5	2791	G	C2-N3-C4	-6.12	108.84	111.90
85	5	2861	U	N3-C4-O4	6.12	123.69	119.40
1	2	961	A	C4-C5-C6	6.12	120.06	117.00
36	1	195	U	C2-N3-C4	-6.12	123.33	127.00
36	1	820	A	O5'-P-OP1	6.12	118.05	110.70
36	1	1052	U	N3-C4-O4	-6.12	115.11	119.40
36	1	1700	G	C5-C6-N1	-6.12	108.44	111.50
36	1	2793	G	N3-C4-C5	6.12	131.66	128.60
36	1	3322	A	C4-C5-N7	6.12	113.76	110.70
80	6	51	A	O5'-P-OP2	6.12	118.05	110.70
80	6	78	A	C6-N1-C2	-6.12	114.93	118.60
80	6	591	A	C4-C5-C6	-6.12	113.94	117.00
80	6	599	A	OP1-P-O3'	6.12	118.67	105.20
80	6	748	U	C6-N1-C2	-6.12	117.33	121.00
80	6	925	G	C5-C6-O6	-6.12	124.93	128.60
80	6	1114	G	C4-C5-C6	6.12	122.47	118.80
80	6	1368	G	C5-C6-O6	6.12	132.27	128.60
85	5	571	U	N3-C4-O4	6.12	123.69	119.40
85	5	716	A	N1-C2-N3	6.12	132.36	129.30
85	5	727	G	C4-C5-N7	6.12	113.25	110.80
85	5	1608	C	C5-C4-N4	-6.12	115.91	120.20
85	5	2241	U	N3-C2-O2	6.12	126.49	122.20
85	5	2773	C	C5-C6-N1	6.12	124.06	121.00
85	5	3066	U	N3-C4-O4	-6.12	115.11	119.40
85	5	3386	G	O5'-P-OP1	-6.12	100.19	105.70
37	7	27	A	C6-C5-N7	-6.12	128.01	132.30
1	2	234	G	N9-C4-C5	6.12	107.85	105.40
1	2	461	G	C5-C6-N1	-6.12	108.44	111.50
36	1	107	A	C2-N3-C4	6.12	113.66	110.60
36	1	658	G	C6-C5-N7	-6.12	126.73	130.40
36	1	1222	G	N1-C6-O6	-6.12	116.23	119.90
36	1	1377	G	O5'-P-OP1	-6.12	100.19	105.70
36	1	1435	A	N3-C4-C5	-6.12	122.52	126.80
36	1	2626	A	C5-C6-N6	6.12	128.60	123.70
36	1	2683	U	C4-C5-C6	6.12	123.37	119.70
36	1	3289	G	N1-C2-N3	-6.12	120.23	123.90
74	O8	17	ARG	NE-CZ-NH2	-6.12	117.24	120.30
80	6	105	A	C6-C5-N7	-6.12	128.01	132.30
85	5	1768	U	N3-C4-C5	6.12	118.27	114.60
85	5	2936	A	C4-C5-C6	-6.12	113.94	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	50	U	C4-C5-C6	-6.12	116.03	119.70
48	m1	80	LEU	CA-CB-CG	6.12	129.38	115.30
36	1	2242	A	C8-N9-C4	-6.12	103.35	105.80
80	6	478	A	C4-C5-C6	6.12	120.06	117.00
80	6	1328	G	C5-C6-O6	6.12	132.27	128.60
85	5	344	A	N3-C4-N9	-6.12	122.50	127.40
85	5	602	A	O5'-P-OP2	-6.12	100.19	105.70
85	5	1418	A	C5-N7-C8	-6.12	100.84	103.90
85	5	2219	A	N9-C4-C5	6.12	108.25	105.80
85	5	3188	G	C5-C6-N1	6.12	114.56	111.50
1	2	727	U	N3-C4-O4	-6.12	115.12	119.40
1	2	1385	G	C2-N3-C4	-6.12	108.84	111.90
36	1	1666	G	C2-N3-C4	-6.12	108.84	111.90
36	1	1677	G	C2-N3-C4	-6.12	108.84	111.90
36	1	1850	A	N3-C4-N9	-6.12	122.50	127.40
36	1	2597	U	C2-N1-C1'	6.12	125.04	117.70
36	1	3059	G	N1-C2-N3	6.12	127.57	123.90
36	1	3307	A	OP1-P-O3'	6.12	118.66	105.20
38	4	45	C	C2-N3-C4	6.12	122.96	119.90
80	6	46	A	C6-C5-N7	-6.12	128.02	132.30
80	6	345	U	N1-C2-O2	-6.12	118.52	122.80
80	6	1137	A	OP1-P-OP2	-6.12	110.42	119.60
85	5	147	U	C5-C6-N1	6.12	125.76	122.70
85	5	402	A	C4-C5-C6	6.12	120.06	117.00
85	5	858	A	N1-C2-N3	6.12	132.36	129.30
85	5	896	A	C5-C6-N6	-6.12	118.81	123.70
85	5	1851	G	C5-C6-O6	-6.12	124.93	128.60
85	5	2948	C	N3-C2-O2	6.12	126.18	121.90
37	7	27	A	C4-C5-C6	6.12	120.06	117.00
1	2	94	U	N3-C2-O2	-6.12	117.92	122.20
1	2	1188	C	N3-C4-C5	-6.12	119.45	121.90
36	1	1680	G	N3-C2-N2	-6.12	115.62	119.90
85	5	2842	U	C2-N3-C4	6.12	130.67	127.00
85	5	3359	A	N1-C2-N3	-6.12	126.24	129.30
37	7	121	U	C4-C5-C6	6.12	123.37	119.70
1	2	69	G	N9-C4-C5	-6.12	102.95	105.40
1	2	690	A	C5-C6-N1	6.12	120.76	117.70
1	2	997	G	N7-C8-N9	6.12	116.16	113.10
1	2	1008	A	N7-C8-N9	6.12	116.86	113.80
1	2	1331	A	N1-C6-N6	6.12	122.27	118.60
1	2	1734	C	C6-N1-C2	-6.12	117.85	120.30
36	1	22	G	N1-C6-O6	-6.12	116.23	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1545	A	N1-C6-N6	-6.12	114.93	118.60
36	1	1783	U	OP1-P-OP2	6.12	128.77	119.60
36	1	2616	C	OP2-P-O3'	6.12	118.66	105.20
36	1	3285	C	C5-C6-N1	6.12	124.06	121.00
36	1	3391	A	C5-C6-N1	6.12	120.76	117.70
37	3	51	A	C4-C5-N7	6.12	113.76	110.70
37	3	51	A	C5-C6-N1	6.12	120.76	117.70
80	6	858	G	C5-N7-C8	-6.12	101.24	104.30
85	5	733	G	N7-C8-N9	6.12	116.16	113.10
85	5	1260	A	N1-C6-N6	6.12	122.27	118.60
85	5	2197	C	N3-C2-O2	6.12	126.18	121.90
85	5	2881	C	N3-C4-C5	-6.12	119.45	121.90
85	5	2950	G	N1-C6-O6	6.12	123.57	119.90
85	5	3339	A	C5-N7-C8	-6.12	100.84	103.90
1	2	121	U	C5-C6-N1	-6.11	119.64	122.70
1	2	1628	G	C5-C6-N1	6.11	114.56	111.50
1	2	1703	G	C4-C5-C6	-6.11	115.13	118.80
36	1	85	A	N3-C4-C5	6.11	131.08	126.80
36	1	350	C	C2-N1-C1'	6.11	125.52	118.80
36	1	389	A	C4-C5-N7	-6.11	107.64	110.70
36	1	2557	A	C5-C6-N1	-6.11	114.64	117.70
36	1	3253	G	C6-C5-N7	-6.11	126.73	130.40
36	1	3360	C	C5-C6-N1	6.11	124.06	121.00
37	3	2	G	O5'-P-OP1	-6.11	100.20	105.70
80	6	299	A	N3-C4-C5	6.11	131.08	126.80
80	6	735	C	N1-C2-O2	6.11	122.57	118.90
85	5	680	G	C5-N7-C8	-6.11	101.24	104.30
85	5	2750	U	C4-C5-C6	6.11	123.37	119.70
85	5	2834	G	N3-C2-N2	-6.11	115.62	119.90
85	5	2983	C	C5-C4-N4	6.11	124.48	120.20
36	1	992	A	N3-C4-N9	-6.11	122.51	127.40
36	1	2898	G	N3-C4-C5	-6.11	125.54	128.60
80	6	885	G	N1-C2-N2	6.11	121.70	116.20
85	5	190	U	N3-C2-O2	-6.11	117.92	122.20
85	5	1229	G	C5-C6-O6	-6.11	124.93	128.60
85	5	2914	G	C5-N7-C8	-6.11	101.24	104.30
37	7	82	G	N1-C6-O6	-6.11	116.23	119.90
1	2	8	U	OP1-P-O3'	6.11	118.64	105.20
1	2	426	G	C2-N3-C4	-6.11	108.84	111.90
1	2	671	G	N1-C6-O6	-6.11	116.23	119.90
1	2	857	C	C2-N3-C4	6.11	122.96	119.90
1	2	977	G	C5-N7-C8	6.11	107.36	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1331	A	C8-N9-C4	6.11	108.25	105.80
1	2	1716	C	C5-C6-N1	6.11	124.06	121.00
36	1	743	C	O5'-P-OP1	-6.11	100.20	105.70
36	1	1217	A	N1-C6-N6	-6.11	114.93	118.60
36	1	1447	G	C5-N7-C8	6.11	107.36	104.30
36	1	3097	C	N3-C4-N4	-6.11	113.72	118.00
36	1	3336	A	C4-C5-C6	6.11	120.06	117.00
80	6	2	A	N1-C2-N3	6.11	132.36	129.30
80	6	786	C	C2-N3-C4	6.11	122.95	119.90
80	6	904	G	N3-C2-N2	6.11	124.18	119.90
80	6	1016	C	C2-N3-C4	6.11	122.95	119.90
80	6	1103	U	N3-C4-O4	-6.11	115.12	119.40
80	6	1773	C	C6-N1-C2	-6.11	117.86	120.30
85	5	128	G	N3-C4-C5	-6.11	125.55	128.60
85	5	560	G	C4-C5-N7	6.11	113.24	110.80
85	5	725	G	N1-C2-N3	6.11	127.57	123.90
85	5	2615	G	N7-C8-N9	6.11	116.16	113.10
36	1	53	G	C6-N1-C2	-6.11	121.44	125.10
36	1	1824	U	N1-C2-O2	-6.11	118.52	122.80
36	1	2273	G	OP1-P-OP2	6.11	128.76	119.60
80	6	263	C	N3-C4-N4	6.11	122.28	118.00
85	5	737	G	N1-C2-N2	-6.11	110.70	116.20
85	5	953	G	C6-N1-C2	-6.11	121.43	125.10
85	5	977	C	C2-N3-C4	-6.11	116.85	119.90
85	5	1321	G	N7-C8-N9	6.11	116.15	113.10
85	5	1661	G	N3-C2-N2	6.11	124.18	119.90
85	5	3222	U	C5-C4-O4	6.11	129.56	125.90
85	5	3361	G	C8-N9-C4	-6.11	103.96	106.40
47	m0	76	MET	CA-CB-CG	6.11	123.69	113.30
1	2	779	A	C8-N9-C4	-6.11	103.36	105.80
1	2	835	C	N1-C2-O2	6.11	122.56	118.90
36	1	140	C	N3-C2-O2	-6.11	117.62	121.90
36	1	164	A	N1-C6-N6	6.11	122.27	118.60
36	1	189	G	N3-C2-N2	-6.11	115.62	119.90
36	1	401	U	OP1-P-O3'	6.11	118.63	105.20
36	1	528	U	C2-N3-C4	6.11	130.66	127.00
36	1	564	G	C6-C5-N7	6.11	134.06	130.40
36	1	635	G	N3-C2-N2	-6.11	115.62	119.90
36	1	943	U	C2-N3-C4	-6.11	123.34	127.00
36	1	1135	A	OP1-P-OP2	6.11	128.76	119.60
36	1	1352	A	C2-N3-C4	6.11	113.65	110.60
36	1	1480	G	O4'-C1'-N9	6.11	113.09	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2360	C	C5-C6-N1	-6.11	117.95	121.00
36	1	2608	G	N3-C4-C5	6.11	131.65	128.60
36	1	2609	A	C5-C6-N6	6.11	128.59	123.70
36	1	2951	G	C4-C5-N7	-6.11	108.36	110.80
36	1	3186	A	N1-C2-N3	6.11	132.35	129.30
36	1	3209	A	C8-N9-C4	-6.11	103.36	105.80
36	1	3255	U	C6-N1-C2	6.11	124.66	121.00
38	4	60	U	N1-C2-O2	6.11	127.08	122.80
80	6	327	U	O4'-C1'-N1	6.11	113.09	108.20
80	6	1000	C	C5-C4-N4	-6.11	115.92	120.20
85	5	114	A	N3-C4-C5	6.11	131.08	126.80
85	5	2702	A	C8-N9-C4	-6.11	103.36	105.80
1	2	222	A	N1-C6-N6	6.11	122.26	118.60
1	2	1587	U	C5-C6-N1	6.11	125.75	122.70
36	1	323	A	N1-C6-N6	-6.11	114.94	118.60
36	1	618	C	N3-C2-O2	-6.11	117.63	121.90
36	1	659	G	OP1-P-OP2	-6.11	110.44	119.60
36	1	951	A	C4-C5-C6	6.11	120.05	117.00
36	1	1468	A	N1-C6-N6	6.11	122.26	118.60
36	1	3271	G	C5-N7-C8	6.11	107.35	104.30
44	L7	89	ILE	CG1-CB-CG2	-6.11	97.97	111.40
80	6	60	U	N1-C2-O2	6.11	127.07	122.80
85	5	667	C	OP2-P-O3'	-6.11	91.77	105.20
85	5	998	A	C4-C5-N7	-6.11	107.65	110.70
85	5	1044	U	C6-N1-C2	-6.11	117.34	121.00
85	5	1510	G	N1-C6-O6	6.11	123.56	119.90
85	5	2862	U	C6-N1-C2	6.11	124.66	121.00
85	5	3013	U	N3-C2-O2	-6.11	117.93	122.20
85	5	3182	G	OP1-P-OP2	-6.11	110.44	119.60
1	2	6	G	N1-C2-N3	6.10	127.56	123.90
36	1	120	G	C4-C5-C6	-6.10	115.14	118.80
36	1	1161	G	C6-C5-N7	-6.10	126.74	130.40
36	1	2353	G	C4-C5-N7	-6.10	108.36	110.80
36	1	2406	C	N3-C2-O2	6.10	126.17	121.90
36	1	2422	C	C6-N1-C1'	6.10	128.12	120.80
36	1	3132	C	OP1-P-OP2	-6.10	110.44	119.60
38	4	156	U	N3-C4-O4	6.10	123.67	119.40
80	6	1034	C	C5-C6-N1	6.10	124.05	121.00
85	5	215	G	O4'-C1'-N9	6.10	113.08	108.20
85	5	757	C	N1-C2-N3	-6.10	114.93	119.20
85	5	1681	U	N1-C2-O2	-6.10	118.53	122.80
1	2	137	U	N1-C2-O2	6.10	127.07	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1471	G	N3-C4-C5	-6.10	125.55	128.60
36	1	244	G	C2-N3-C4	6.10	114.95	111.90
36	1	779	G	C2-N3-C4	-6.10	108.85	111.90
36	1	894	G	C4-N9-C1'	6.10	134.43	126.50
36	1	1726	C	O5'-P-OP2	-6.10	100.21	105.70
36	1	2896	A	O5'-P-OP1	6.10	118.02	110.70
36	1	3214	U	O5'-P-OP2	-6.10	100.21	105.70
36	1	3315	G	N7-C8-N9	-6.10	110.05	113.10
37	3	18	C	N3-C2-O2	-6.10	117.63	121.90
37	3	103	A	C5-C6-N1	6.10	120.75	117.70
80	6	1274	C	N3-C4-C5	-6.10	119.46	121.90
85	5	99	A	C4-C5-N7	6.10	113.75	110.70
85	5	846	A	N7-C8-N9	6.10	116.85	113.80
85	5	957	C	C2-N3-C4	-6.10	116.85	119.90
85	5	1289	G	O5'-P-OP1	-6.10	100.21	105.70
85	5	1742	U	N1-C2-N3	-6.10	111.24	114.90
85	5	2253	G	C6-C5-N7	-6.10	126.74	130.40
85	5	2287	C	OP1-P-OP2	6.10	128.75	119.60
85	5	2919	A	O4'-C1'-N9	-6.10	103.32	108.20
85	5	3043	C	C5-C6-N1	6.10	124.05	121.00
38	8	54	A	C2-N3-C4	-6.10	107.55	110.60
1	2	295	A	OP1-P-OP2	6.10	128.75	119.60
36	1	589	A	C5-N7-C8	6.10	106.95	103.90
38	4	52	A	P-O3'-C3'	-6.10	112.38	119.70
80	6	12	U	N1-C2-O2	-6.10	118.53	122.80
80	6	309	C	C6-N1-C2	6.10	122.74	120.30
80	6	473	A	C6-N1-C2	-6.10	114.94	118.60
80	6	882	U	C6-N1-C2	-6.10	117.34	121.00
80	6	1800	A	C2-N3-C4	6.10	113.65	110.60
85	5	3148	U	N1-C2-N3	6.10	118.56	114.90
1	2	946	A	N1-C6-N6	-6.10	114.94	118.60
1	2	978	A	C6-N1-C2	-6.10	114.94	118.60
1	2	1525	G	N3-C4-C5	-6.10	125.55	128.60
36	1	934	G	N1-C2-N3	6.10	127.56	123.90
36	1	2710	C	N1-C2-O2	-6.10	115.24	118.90
36	1	3187	A	C5-C6-N6	-6.10	118.82	123.70
38	4	8	C	C2-N3-C4	-6.10	116.85	119.90
80	6	1147	A	OP1-P-OP2	6.10	128.75	119.60
80	6	1195	C	N3-C4-N4	6.10	122.27	118.00
80	6	1305	U	N1-C2-N3	-6.10	111.24	114.90
80	6	1451	C	C5-C6-N1	6.10	124.05	121.00
85	5	115	A	N1-C6-N6	6.10	122.26	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	776	U	C4-C5-C6	6.10	123.36	119.70
85	5	846	A	N9-C4-C5	6.10	108.24	105.80
85	5	929	A	N7-C8-N9	-6.10	110.75	113.80
85	5	1145	G	C2-N3-C4	6.10	114.95	111.90
85	5	1345	G	N1-C6-O6	-6.10	116.24	119.90
85	5	1850	A	C6-N1-C2	-6.10	114.94	118.60
85	5	2258	U	C5-C4-O4	-6.10	122.24	125.90
85	5	2731	U	N3-C4-O4	6.10	123.67	119.40
85	5	3055	U	C4-C5-C6	6.10	123.36	119.70
85	5	3239	G	C6-C5-N7	-6.10	126.74	130.40
85	5	3390	G	O5'-P-OP2	-6.10	100.21	105.70
36	1	115	A	C6-C5-N7	6.10	136.57	132.30
36	1	165	A	N7-C8-N9	6.10	116.85	113.80
36	1	347	G	C4-C5-C6	6.10	122.46	118.80
36	1	631	U	O5'-P-OP2	-6.10	100.21	105.70
36	1	1169	A	N3-C4-C5	-6.10	122.53	126.80
36	1	3251	U	N3-C4-O4	-6.10	115.13	119.40
36	1	3383	G	OP1-P-O3'	6.10	118.61	105.20
85	5	575	G	N9-C4-C5	6.10	107.84	105.40
85	5	808	A	N3-C4-C5	-6.10	122.53	126.80
85	5	824	C	P-O3'-C3'	-6.10	112.38	119.70
85	5	1008	U	C5-C4-O4	6.10	129.56	125.90
85	5	1690	C	N3-C2-O2	-6.10	117.63	121.90
85	5	1815	U	N3-C4-C5	6.10	118.26	114.60
85	5	1834	U	C4-C5-C6	6.10	123.36	119.70
85	5	2220	A	C6-C5-N7	-6.10	128.03	132.30
85	5	2541	U	N3-C4-C5	6.10	118.26	114.60
38	8	125	U	N3-C4-C5	6.10	118.26	114.60
47	m0	153	ARG	NE-CZ-NH2	-6.10	117.25	120.30
1	2	1019	A	C6-N1-C2	-6.10	114.94	118.60
1	2	1486	A	C4-C5-N7	6.10	113.75	110.70
36	1	625	G	OP1-P-OP2	-6.10	110.46	119.60
36	1	747	A	OP1-P-OP2	-6.10	110.46	119.60
36	1	2871	G	O5'-P-OP2	6.10	118.02	110.70
36	1	3146	G	N3-C4-C5	6.10	131.65	128.60
36	1	3215	A	C4-C5-N7	-6.10	107.65	110.70
85	5	362	U	N1-C2-N3	-6.10	111.24	114.90
85	5	856	G	C5-C6-N1	6.10	114.55	111.50
85	5	2791	G	C8-N9-C4	6.10	108.84	106.40
85	5	2997	G	C2-N3-C4	-6.10	108.85	111.90
1	2	741	U	N3-C2-O2	-6.09	117.93	122.20
1	2	823	U	C5-C4-O4	-6.09	122.24	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1113	G	C6-C5-N7	-6.09	126.74	130.40
1	2	1198	C	N3-C4-C5	-6.09	119.46	121.90
1	2	1603	C	C2-N3-C4	6.09	122.95	119.90
36	1	182	U	N3-C4-C5	6.09	118.26	114.60
36	1	754	G	N1-C2-N3	-6.09	120.24	123.90
36	1	1359	C	N3-C4-C5	6.09	124.34	121.90
36	1	1927	G	N3-C4-C5	6.09	131.65	128.60
36	1	2508	U	OP1-P-OP2	-6.09	110.46	119.60
36	1	2815	G	N3-C2-N2	-6.09	115.63	119.90
36	1	3099	C	N3-C4-N4	6.09	122.27	118.00
38	4	12	A	N7-C8-N9	6.09	116.85	113.80
80	6	92	A	N3-C4-C5	6.09	131.07	126.80
80	6	103	A	C4-N9-C1'	6.09	137.27	126.30
80	6	416	A	C4-C5-C6	6.09	120.05	117.00
80	6	1074	G	C2-N3-C4	-6.09	108.85	111.90
80	6	1399	C	N3-C4-N4	6.09	122.27	118.00
80	6	1750	A	OP2-P-O3'	6.09	118.61	105.20
85	5	915	A	N1-C6-N6	-6.09	114.94	118.60
85	5	1097	G	N3-C2-N2	-6.09	115.63	119.90
85	5	1472	U	C6-N1-C2	6.09	124.66	121.00
85	5	1493	G	OP1-P-O3'	6.09	118.61	105.20
85	5	1506	A	N9-C4-C5	-6.09	103.36	105.80
85	5	2550	U	C4-C5-C6	6.09	123.36	119.70
85	5	2818	U	C2-N3-C4	-6.09	123.34	127.00
37	7	117	A	C8-N9-C4	-6.09	103.36	105.80
38	8	97	A	O5'-P-OP2	6.09	118.01	110.70
1	2	474	A	N1-C6-N6	6.09	122.26	118.60
1	2	819	U	C4-C5-C6	-6.09	116.04	119.70
80	6	239	C	C5-C6-N1	6.09	124.05	121.00
80	6	903	U	C6-N1-C2	6.09	124.66	121.00
80	6	1549	C	O5'-P-OP2	6.09	118.01	110.70
85	5	600	G	C5-N7-C8	-6.09	101.25	104.30
85	5	1378	U	N1-C2-O2	-6.09	118.53	122.80
85	5	2669	G	C5-C6-N1	-6.09	108.45	111.50
85	5	3245	A	N7-C8-N9	6.09	116.85	113.80
1	2	847	U	N3-C4-C5	-6.09	110.94	114.60
36	1	57	A	N7-C8-N9	6.09	116.85	113.80
36	1	302	U	N1-C2-N3	6.09	118.56	114.90
36	1	405	U	N3-C4-C5	6.09	118.25	114.60
36	1	1788	C	C6-N1-C2	-6.09	117.86	120.30
36	1	2312	A	OP1-P-O3'	-6.09	91.80	105.20
36	1	2816	G	O5'-P-OP1	-6.09	100.22	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3031	G	N3-C2-N2	-6.09	115.64	119.90
36	1	3252	G	O5'-P-OP1	6.09	118.01	110.70
42	L5	285	ARG	NE-CZ-NH1	-6.09	117.25	120.30
80	6	145	A	N1-C6-N6	-6.09	114.95	118.60
80	6	569	C	N3-C4-C5	-6.09	119.46	121.90
85	5	224	C	C5-C4-N4	-6.09	115.94	120.20
85	5	332	C	N1-C2-O2	-6.09	115.25	118.90
85	5	685	G	N1-C2-N3	6.09	127.56	123.90
85	5	1152	G	C5-C6-N1	-6.09	108.45	111.50
85	5	1735	G	C4-C5-N7	6.09	113.24	110.80
85	5	2733	A	N1-C2-N3	6.09	132.35	129.30
85	5	2989	U	N1-C2-N3	-6.09	111.25	114.90
85	5	3050	U	N1-C2-N3	6.09	118.56	114.90
52	m6	116	LYS	CD-CE-NZ	-6.09	97.69	111.70
36	1	260	C	C4-C5-C6	-6.09	114.36	117.40
36	1	1209	G	N1-C6-O6	6.09	123.55	119.90
36	1	1213	G	C5-C6-O6	-6.09	124.95	128.60
36	1	1544	G	C2-N3-C4	6.09	114.94	111.90
36	1	1659	U	N3-C2-O2	-6.09	117.94	122.20
36	1	2288	G	C4-N9-C1'	6.09	134.42	126.50
36	1	2351	U	C5-C6-N1	6.09	125.75	122.70
36	1	2678	A	C2-N3-C4	-6.09	107.56	110.60
38	4	37	A	C6-N1-C2	-6.09	114.95	118.60
80	6	469	C	N3-C2-O2	6.09	126.16	121.90
80	6	1720	G	N3-C4-N9	6.09	129.65	126.00
85	5	1332	A	C6-C5-N7	-6.09	128.04	132.30
85	5	1393	A	OP1-P-OP2	6.09	128.73	119.60
85	5	1462	A	C4-C5-N7	6.09	113.75	110.70
85	5	1501	U	C2-N3-C4	6.09	130.65	127.00
85	5	1667	A	N7-C8-N9	6.09	116.84	113.80
85	5	2435	G	N9-C4-C5	-6.09	102.96	105.40
85	5	2835	U	O5'-P-OP1	-6.09	100.22	105.70
85	5	3377	G	OP1-P-OP2	6.09	128.74	119.60
37	7	10	C	O4'-C1'-N1	-6.09	103.33	108.20
37	7	61	G	N9-C4-C5	-6.09	102.96	105.40
37	7	100	C	O5'-P-OP1	6.09	118.01	110.70
1	2	322	G	N1-C6-O6	-6.09	116.25	119.90
1	2	610	G	C4-C5-C6	6.09	122.45	118.80
36	1	2443	A	C5-C6-N6	-6.09	118.83	123.70
80	6	1012	U	N3-C2-O2	-6.09	117.94	122.20
85	5	386	A	O4'-C1'-N9	-6.09	103.33	108.20
85	5	1446	A	OP1-P-O3'	6.09	118.59	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2180	G	C4-C5-N7	6.09	113.23	110.80
85	5	3369	G	N1-C2-N3	6.09	127.55	123.90
1	2	247	A	C5-C6-N1	-6.09	114.66	117.70
1	2	962	A	C6-N1-C2	-6.09	114.95	118.60
36	1	114	A	C5-C6-N6	-6.09	118.83	123.70
36	1	124	U	OP2-P-O3'	6.09	118.59	105.20
36	1	754	G	N9-C4-C5	-6.09	102.97	105.40
36	1	802	C	OP1-P-OP2	-6.09	110.47	119.60
36	1	979	U	P-O3'-C3'	6.09	127.00	119.70
36	1	1040	A	C5-C6-N6	6.09	128.57	123.70
36	1	1549	U	O5'-P-OP1	-6.09	100.22	105.70
36	1	1918	C	OP1-P-OP2	-6.09	110.47	119.60
36	1	2114	C	O5'-P-OP2	-6.09	100.22	105.70
80	6	190	C	C5-C4-N4	-6.09	115.94	120.20
80	6	1090	C	N1-C2-O2	6.09	122.55	118.90
80	6	1658	G	N3-C2-N2	6.09	124.16	119.90
85	5	104	G	N9-C4-C5	-6.09	102.97	105.40
85	5	352	A	C4-C5-C6	-6.09	113.96	117.00
85	5	401	U	C4-C5-C6	6.09	123.35	119.70
85	5	845	G	N3-C4-N9	6.09	129.65	126.00
85	5	1501	U	C5-C4-O4	6.09	129.55	125.90
85	5	1856	C	OP1-P-OP2	-6.09	110.47	119.60
85	5	3122	A	N1-C6-N6	-6.09	114.95	118.60
64	n8	42	ARG	NE-CZ-NH1	6.09	123.34	120.30
91	p	75	C	O5'-P-OP2	-6.09	100.22	105.70
1	2	659	G	C5-C6-O6	-6.08	124.95	128.60
1	2	1068	G	N3-C4-N9	6.08	129.65	126.00
36	1	289	A	N1-C2-N3	6.08	132.34	129.30
36	1	760	G	C6-C5-N7	-6.08	126.75	130.40
36	1	1644	C	C4-C5-C6	6.08	120.44	117.40
36	1	1887	A	C4-C5-N7	-6.08	107.66	110.70
36	1	2756	C	C2-N3-C4	-6.08	116.86	119.90
36	1	3134	A	N9-C4-C5	-6.08	103.37	105.80
85	5	651	G	C5-N7-C8	-6.08	101.26	104.30
85	5	822	G	C5-C6-O6	-6.08	124.95	128.60
85	5	929	A	N3-C4-C5	-6.08	122.54	126.80
85	5	1513	G	OP1-P-O3'	6.08	118.59	105.20
85	5	2380	U	N3-C2-O2	6.08	126.46	122.20
85	5	2425	G	C8-N9-C4	6.08	108.83	106.40
85	5	2600	C	C4-C5-C6	6.08	120.44	117.40
85	5	2793	G	N3-C4-C5	6.08	131.64	128.60
85	5	2976	A	C4-C5-C6	6.08	120.04	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	685	G	C5-C6-N1	-6.08	108.46	111.50
1	2	1229	C	C6-N1-C2	-6.08	117.87	120.30
1	2	1723	A	C5-C6-N6	-6.08	118.83	123.70
36	1	888	A	C2-N3-C4	-6.08	107.56	110.60
36	1	1848	G	N3-C4-N9	6.08	129.65	126.00
36	1	1856	C	OP1-P-OP2	-6.08	110.48	119.60
36	1	2205	U	N3-C2-O2	-6.08	117.94	122.20
36	1	2773	C	C5-C6-N1	-6.08	117.96	121.00
36	1	2775	U	N1-C2-N3	6.08	118.55	114.90
36	1	3377	G	C5-N7-C8	-6.08	101.26	104.30
80	6	518	A	C5-N7-C8	6.08	106.94	103.90
80	6	1718	G	N9-C4-C5	6.08	107.83	105.40
85	5	1699	A	N9-C4-C5	6.08	108.23	105.80
85	5	1951	C	N3-C4-C5	6.08	124.33	121.90
85	5	2521	U	C4-C5-C6	6.08	123.35	119.70
85	5	2687	G	N3-C4-C5	-6.08	125.56	128.60
85	5	2923	U	C5-C6-N1	6.08	125.74	122.70
85	5	3101	G	C4-C5-N7	-6.08	108.37	110.80
36	1	219	A	C2-N3-C4	6.08	113.64	110.60
36	1	435	C	C2-N1-C1'	-6.08	112.11	118.80
36	1	561	C	C5-C4-N4	-6.08	115.94	120.20
36	1	1193	A	N1-C6-N6	6.08	122.25	118.60
36	1	1304	A	N9-C4-C5	6.08	108.23	105.80
36	1	1325	U	P-O3'-C3'	-6.08	112.40	119.70
36	1	1538	G	C5-C6-O6	6.08	132.25	128.60
36	1	1930	A	C5-N7-C8	-6.08	100.86	103.90
36	1	2214	A	O5'-P-OP1	-6.08	100.23	105.70
36	1	2537	U	P-O3'-C3'	6.08	127.00	119.70
36	1	3064	U	N3-C4-C5	-6.08	110.95	114.60
36	1	3182	G	O5'-P-OP1	6.08	118.00	110.70
41	L4	98	ARG	NE-CZ-NH1	-6.08	117.26	120.30
80	6	195	G	C8-N9-C4	-6.08	103.97	106.40
80	6	196	G	N1-C6-O6	-6.08	116.25	119.90
80	6	1764	C	OP2-P-O3'	-6.08	91.82	105.20
85	5	417	A	C6-N1-C2	-6.08	114.95	118.60
85	5	1374	G	C5-C6-N1	6.08	114.54	111.50
85	5	1668	G	C8-N9-C4	6.08	108.83	106.40
85	5	2355	G	C5-N7-C8	-6.08	101.26	104.30
85	5	2610	G	N1-C2-N3	6.08	127.55	123.90
85	5	2619	G	N1-C2-N3	-6.08	120.25	123.90
1	2	330	G	N9-C4-C5	6.08	107.83	105.40
1	2	965	U	N1-C2-O2	-6.08	118.54	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	393	U	O5'-P-OP2	6.08	118.00	110.70
36	1	1336	U	C2-N3-C4	-6.08	123.35	127.00
36	1	2130	G	C8-N9-C4	-6.08	103.97	106.40
36	1	3197	G	N1-C6-O6	6.08	123.55	119.90
64	N8	9	ARG	NE-CZ-NH2	6.08	123.34	120.30
80	6	1162	C	C4-C5-C6	6.08	120.44	117.40
80	6	1676	U	C2-N3-C4	6.08	130.65	127.00
85	5	76	G	C4-C5-N7	6.08	113.23	110.80
85	5	246	U	N3-C4-O4	-6.08	115.14	119.40
85	5	400	G	C6-N1-C2	-6.08	121.45	125.10
85	5	1138	U	OP2-P-O3'	6.08	118.58	105.20
85	5	1636	U	N3-C2-O2	6.08	126.46	122.20
85	5	2712	U	C5-C4-O4	-6.08	122.25	125.90
1	2	99	C	N3-C4-N4	-6.08	113.75	118.00
1	2	1086	U	N1-C2-O2	6.08	127.06	122.80
1	2	1588	G	N3-C2-N2	-6.08	115.64	119.90
36	1	622	A	C2-N3-C4	-6.08	107.56	110.60
36	1	932	U	N3-C4-O4	-6.08	115.14	119.40
36	1	989	A	C8-N9-C4	6.08	108.23	105.80
36	1	1314	C	O5'-P-OP1	-6.08	100.23	105.70
36	1	2182	A	O5'-P-OP2	6.08	117.99	110.70
80	6	57	G	N9-C4-C5	6.08	107.83	105.40
80	6	306	U	N1-C2-N3	6.08	118.55	114.90
80	6	611	U	C6-N1-C1'	-6.08	112.69	121.20
80	6	1750	A	O5'-P-OP2	-6.08	100.23	105.70
80	6	1770	U	C5-C6-N1	-6.08	119.66	122.70
85	5	1264	G	C5-C6-N1	6.08	114.54	111.50
85	5	2560	C	N3-C2-O2	6.08	126.15	121.90
85	5	2620	G	C6-C5-N7	-6.08	126.75	130.40
85	5	3061	G	C4-C5-N7	6.08	113.23	110.80
38	8	109	A	C5-N7-C8	-6.08	100.86	103.90
36	1	2631	U	OP2-P-O3'	6.08	118.57	105.20
36	1	2828	G	N1-C2-N3	6.08	127.55	123.90
36	1	3128	G	C5-C6-N1	6.08	114.54	111.50
38	4	10	A	C4-C5-N7	-6.08	107.66	110.70
1	2	15	U	N3-C2-O2	-6.08	117.95	122.20
1	2	1103	U	C5-C6-N1	-6.08	119.66	122.70
36	1	56	G	N9-C4-C5	-6.08	102.97	105.40
36	1	408	A	C6-N1-C2	-6.08	114.95	118.60
36	1	1506	A	N1-C6-N6	-6.08	114.95	118.60
36	1	1616	U	N3-C4-O4	-6.08	115.15	119.40
36	1	1747	G	N7-C8-N9	6.08	116.14	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1909	A	C5-C6-N1	-6.08	114.66	117.70
80	6	153	G	N9-C4-C5	-6.08	102.97	105.40
80	6	243	G	N3-C4-C5	6.08	131.64	128.60
80	6	652	G	O5'-P-OP1	-6.08	100.23	105.70
85	5	507	U	N3-C2-O2	-6.08	117.95	122.20
85	5	1869	C	N3-C4-N4	-6.08	113.75	118.00
85	5	2401	A	C8-N9-C4	-6.08	103.37	105.80
85	5	3032	A	C4-C5-C6	6.08	120.04	117.00
1	2	1137	G	C6-C5-N7	-6.07	126.76	130.40
1	2	1558	G	C6-N1-C2	-6.07	121.46	125.10
1	2	1747	C	C2-N3-C4	-6.07	116.86	119.90
36	1	137	G	C5-C6-O6	-6.07	124.96	128.60
36	1	806	A	C6-C5-N7	-6.07	128.05	132.30
36	1	1298	C	N1-C2-N3	6.07	123.45	119.20
36	1	1386	A	C2-N3-C4	6.07	113.64	110.60
36	1	1664	G	C4-C5-N7	6.07	113.23	110.80
36	1	2873	U	O5'-P-OP2	6.07	117.99	110.70
80	6	140	A	N1-C2-N3	6.07	132.34	129.30
80	6	1285	U	O5'-P-OP2	-6.07	100.23	105.70
85	5	313	A	C8-N9-C4	-6.07	103.37	105.80
85	5	876	A	C5-C6-N1	6.07	120.74	117.70
85	5	920	A	OP2-P-O3'	6.07	118.56	105.20
85	5	1156	C	OP1-P-O3'	6.07	118.56	105.20
85	5	1441	G	N1-C2-N3	6.07	127.54	123.90
85	5	1446	A	C6-N1-C2	-6.07	114.96	118.60
85	5	2180	G	N3-C2-N2	-6.07	115.65	119.90
85	5	2769	A	C5-N7-C8	6.07	106.94	103.90
85	5	3024	A	C6-N1-C2	6.07	122.24	118.60
37	7	31	U	N3-C4-O4	6.07	123.65	119.40
1	2	625	C	N1-C2-N3	6.07	123.45	119.20
1	2	922	A	C5-N7-C8	-6.07	100.86	103.90
36	1	21	G	C4-N9-C1'	6.07	134.39	126.50
36	1	1708	C	OP1-P-OP2	6.07	128.71	119.60
80	6	770	A	O5'-P-OP1	6.07	117.99	110.70
85	5	385	A	C2-N3-C4	-6.07	107.56	110.60
85	5	743	C	OP1-P-O3'	6.07	118.56	105.20
85	5	1394	A	C8-N9-C4	6.07	108.23	105.80
85	5	1893	A	N7-C8-N9	-6.07	110.76	113.80
85	5	2238	G	C4-C5-N7	-6.07	108.37	110.80
1	2	74	U	N1-C2-N3	-6.07	111.26	114.90
1	2	1519	G	N1-C6-O6	-6.07	116.26	119.90
36	1	433	A	N7-C8-N9	-6.07	110.76	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	523	A	N1-C6-N6	-6.07	114.96	118.60
36	1	690	A	C6-N1-C2	6.07	122.24	118.60
36	1	1844	C	OP1-P-OP2	6.07	128.71	119.60
36	1	1865	A	O5'-P-OP1	6.07	117.98	110.70
36	1	2651	G	O5'-P-OP2	-6.07	100.24	105.70
36	1	2882	U	N3-C4-C5	-6.07	110.96	114.60
36	1	3248	C	N3-C4-C5	-6.07	119.47	121.90
38	4	33	A	N1-C6-N6	6.07	122.24	118.60
39	L2	142	ASP	CB-CG-OD2	6.07	123.76	118.30
80	6	204	G	N1-C2-N2	6.07	121.66	116.20
80	6	340	U	N3-C4-C5	-6.07	110.96	114.60
80	6	1557	U	N3-C4-O4	6.07	123.65	119.40
80	6	1777	G	N7-C8-N9	6.07	116.14	113.10
85	5	515	C	C4-C5-C6	-6.07	114.36	117.40
85	5	824	C	N1-C2-O2	-6.07	115.26	118.90
85	5	1725	C	N3-C2-O2	6.07	126.15	121.90
85	5	2399	A	C6-C5-N7	-6.07	128.05	132.30
85	5	2625	C	C6-N1-C2	-6.07	117.87	120.30
85	5	2786	G	C4-C5-C6	6.07	122.44	118.80
85	5	3190	C	N3-C4-N4	6.07	122.25	118.00
36	1	1530	U	O5'-P-OP2	-6.07	100.24	105.70
36	1	1658	G	N1-C2-N3	6.07	127.54	123.90
36	1	2943	G	C5-C6-O6	-6.07	124.96	128.60
80	6	69	G	N7-C8-N9	-6.07	110.07	113.10
85	5	99	A	N3-C4-C5	6.07	131.05	126.80
85	5	270	U	OP1-P-O3'	6.07	118.55	105.20
85	5	347	G	C6-N1-C2	-6.07	121.46	125.10
85	5	1249	G	N3-C2-N2	-6.07	115.65	119.90
85	5	1304	A	C8-N9-C4	6.07	108.23	105.80
85	5	2238	G	C4-C5-C6	6.07	122.44	118.80
1	2	165	G	C5-C6-N1	-6.07	108.47	111.50
1	2	747	U	C2-N3-C4	6.07	130.64	127.00
1	2	1166	A	C5-C6-N1	6.07	120.73	117.70
1	2	1624	C	N3-C4-N4	6.07	122.25	118.00
36	1	680	G	N1-C2-N3	6.07	127.54	123.90
36	1	902	G	C5-N7-C8	-6.07	101.27	104.30
36	1	1458	U	N3-C4-C5	-6.07	110.96	114.60
36	1	3182	G	C4-C5-C6	6.07	122.44	118.80
36	1	3255	U	OP1-P-OP2	6.07	128.70	119.60
80	6	80	A	O5'-P-OP1	-6.07	100.24	105.70
80	6	488	G	N1-C6-O6	6.07	123.54	119.90
85	5	588	G	C5-N7-C8	6.07	107.33	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1043	C	N3-C4-C5	6.07	124.33	121.90
85	5	2578	U	C5-C6-N1	-6.07	119.67	122.70
85	5	3302	U	C2-N1-C1'	-6.07	110.42	117.70
38	8	60	U	OP1-P-O3'	6.07	118.55	105.20
52	m6	41	LEU	CA-CB-CG	6.07	129.26	115.30
1	2	991	G	N1-C6-O6	-6.07	116.26	119.90
36	1	5	G	C5-C6-O6	-6.07	124.96	128.60
36	1	196	G	N1-C6-O6	-6.07	116.26	119.90
36	1	1225	A	C8-N9-C4	6.07	108.23	105.80
36	1	1747	G	C5-C6-N1	-6.07	108.47	111.50
36	1	1790	G	C5-C6-N1	-6.07	108.47	111.50
36	1	1851	G	N1-C6-O6	6.07	123.54	119.90
36	1	3029	A	N7-C8-N9	6.07	116.83	113.80
36	1	3287	U	N3-C2-O2	6.07	126.45	122.20
38	4	26	U	O5'-P-OP2	-6.07	100.24	105.70
76	Q0	82	LEU	CB-CG-CD1	-6.07	100.69	111.00
85	5	43	A	N9-C4-C5	-6.07	103.37	105.80
85	5	826	G	N3-C4-C5	6.07	131.63	128.60
85	5	1237	G	C4-C5-N7	-6.07	108.37	110.80
85	5	1846	C	N3-C2-O2	-6.07	117.65	121.90
85	5	2413	A	C4-C5-N7	6.07	113.73	110.70
85	5	2711	C	C6-N1-C2	-6.07	117.87	120.30
85	5	2932	U	OP1-P-O3'	6.07	118.55	105.20
85	5	3217	C	N1-C2-O2	6.07	122.54	118.90
1	2	1000	U	N1-C2-N3	6.06	118.54	114.90
1	2	1384	A	C2-N3-C4	6.06	113.63	110.60
36	1	818	C	C6-N1-C2	-6.06	117.87	120.30
36	1	1057	A	N1-C2-N3	6.06	132.33	129.30
36	1	1116	G	C5-C6-N1	-6.06	108.47	111.50
36	1	2553	U	OP1-P-OP2	-6.06	110.50	119.60
80	6	457	G	O5'-P-OP2	-6.06	100.24	105.70
85	5	425	G	C4-C5-C6	6.06	122.44	118.80
85	5	686	G	N3-C4-C5	6.06	131.63	128.60
85	5	1446	A	N9-C4-C5	6.06	108.22	105.80
85	5	1513	G	C4-C5-N7	6.06	113.23	110.80
85	5	2231	C	C2-N1-C1'	6.06	125.47	118.80
1	2	1509	A	C4-C5-N7	6.06	113.73	110.70
36	1	13	A	OP1-P-O3'	6.06	118.54	105.20
36	1	215	G	N3-C4-C5	-6.06	125.57	128.60
36	1	392	G	O5'-P-OP2	6.06	117.97	110.70
36	1	426	G	OP1-P-O3'	-6.06	91.86	105.20
36	1	494	G	C8-N9-C4	6.06	108.83	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	830	A	OP1-P-OP2	-6.06	110.51	119.60
36	1	1171	G	C6-N1-C2	-6.06	121.46	125.10
36	1	1358	C	C5-C6-N1	-6.06	117.97	121.00
36	1	1432	C	OP1-P-O3'	6.06	118.54	105.20
36	1	1454	A	C2-N3-C4	-6.06	107.57	110.60
36	1	2139	A	C6-N1-C2	-6.06	114.96	118.60
36	1	2615	G	C6-N1-C2	-6.06	121.46	125.10
36	1	2660	G	C5-N7-C8	-6.06	101.27	104.30
36	1	2889	C	OP1-P-OP2	-6.06	110.50	119.60
36	1	2934	A	O5'-P-OP1	-6.06	100.24	105.70
37	3	100	C	C4-C5-C6	6.06	120.43	117.40
37	3	111	U	C5-C4-O4	6.06	129.54	125.90
80	6	26	A	C8-N9-C4	-6.06	103.38	105.80
80	6	299	A	C5-N7-C8	-6.06	100.87	103.90
80	6	1730	A	OP1-P-OP2	-6.06	110.51	119.60
85	5	345	G	C8-N9-C1'	-6.06	119.12	127.00
85	5	389	A	C5-C6-N1	-6.06	114.67	117.70
85	5	591	G	N3-C2-N2	-6.06	115.66	119.90
85	5	1039	U	C6-N1-C2	6.06	124.64	121.00
85	5	1083	G	C6-C5-N7	6.06	134.04	130.40
85	5	1178	G	C4-C5-C6	6.06	122.44	118.80
85	5	1199	C	N3-C4-C5	-6.06	119.47	121.90
85	5	3202	G	N7-C8-N9	6.06	116.13	113.10
1	2	1757	G	N1-C6-O6	-6.06	116.26	119.90
36	1	369	A	O5'-P-OP1	6.06	117.97	110.70
36	1	1362	G	C4-C5-C6	-6.06	115.16	118.80
36	1	1722	U	C6-N1-C2	6.06	124.64	121.00
62	N6	104	LEU	CB-CG-CD2	-6.06	100.70	111.00
80	6	963	A	C8-N9-C4	6.06	108.22	105.80
85	5	514	G	C6-N1-C2	-6.06	121.46	125.10
85	5	925	A	N9-C4-C5	-6.06	103.38	105.80
85	5	1664	G	N7-C8-N9	-6.06	110.07	113.10
1	2	105	A	N9-C4-C5	6.06	108.22	105.80
1	2	1748	A	N1-C2-N3	6.06	132.33	129.30
36	1	30	G	N1-C6-O6	-6.06	116.26	119.90
36	1	1291	A	C6-C5-N7	-6.06	128.06	132.30
36	1	1589	A	N3-C4-N9	-6.06	122.55	127.40
36	1	2665	U	O5'-P-OP2	6.06	117.97	110.70
36	1	3200	G	C5-N7-C8	6.06	107.33	104.30
38	4	20	U	N3-C2-O2	6.06	126.44	122.20
80	6	523	G	OP2-P-O3'	6.06	118.53	105.20
85	5	87	U	N3-C4-O4	6.06	123.64	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	582	G	C4-N9-C1'	6.06	134.38	126.50
85	5	647	A	C5-C6-N1	6.06	120.73	117.70
85	5	824	C	N1-C2-N3	6.06	123.44	119.20
85	5	1294	A	C4-C5-C6	6.06	120.03	117.00
85	5	1453	A	C2-N3-C4	-6.06	107.57	110.60
85	5	1865	A	N3-C4-C5	6.06	131.04	126.80
85	5	2435	G	C5-N7-C8	-6.06	101.27	104.30
40	l3	161	LEU	CB-CG-CD2	-6.06	100.70	111.00
36	1	622	A	N9-C4-C5	-6.06	103.38	105.80
36	1	864	G	O5'-P-OP2	6.06	117.97	110.70
36	1	1896	A	OP1-P-OP2	6.06	128.69	119.60
36	1	2700	G	C6-N1-C2	-6.06	121.47	125.10
36	1	3213	A	N1-C2-N3	6.06	132.33	129.30
37	3	8	G	C8-N9-C4	6.06	108.82	106.40
80	6	302	U	C4-C5-C6	6.06	123.33	119.70
80	6	994	G	C5-C6-N1	-6.06	108.47	111.50
80	6	1661	U	N3-C2-O2	6.06	126.44	122.20
85	5	343	U	N1-C2-O2	-6.06	118.56	122.80
85	5	660	A	C6-C5-N7	6.06	136.54	132.30
85	5	672	A	N9-C4-C5	6.06	108.22	105.80
85	5	1755	C	O5'-P-OP2	6.06	117.97	110.70
85	5	1800	A	OP1-P-OP2	-6.06	110.52	119.60
85	5	1863	G	O5'-P-OP1	6.06	117.97	110.70
85	5	2346	C	C5-C6-N1	6.06	124.03	121.00
85	5	2714	G	N9-C4-C5	6.06	107.82	105.40
85	5	3231	U	C2-N3-C4	6.06	130.63	127.00
37	7	51	A	N9-C4-C5	6.06	108.22	105.80
38	8	15	G	C5-C6-N1	6.06	114.53	111.50
52	m6	189	ASP	CB-CG-OD1	6.06	123.75	118.30
1	2	555	A	C8-N9-C4	-6.06	103.38	105.80
36	1	1247	U	C5-C6-N1	6.06	125.73	122.70
36	1	2310	U	N3-C4-C5	-6.06	110.97	114.60
36	1	2604	U	O5'-P-OP2	6.06	117.97	110.70
36	1	3129	A	C6-N1-C2	-6.06	114.97	118.60
80	6	634	G	O5'-P-OP1	6.06	117.97	110.70
85	5	565	U	C4-C5-C6	-6.06	116.07	119.70
1	2	419	G	N1-C6-O6	-6.05	116.27	119.90
1	2	1000	U	OP1-P-OP2	6.05	128.68	119.60
1	2	1618	A	OP1-P-OP2	-6.05	110.52	119.60
36	1	416	A	OP1-P-OP2	-6.05	110.52	119.60
36	1	591	G	N1-C2-N3	6.05	127.53	123.90
36	1	1031	C	C6-N1-C2	6.05	122.72	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1367	G	O5'-P-OP2	6.05	117.97	110.70
36	1	1437	C	C5-C4-N4	6.05	124.44	120.20
36	1	1495	U	C6-N1-C2	6.05	124.63	121.00
36	1	1790	G	N3-C4-N9	6.05	129.63	126.00
36	1	2658	G	C8-N9-C4	6.05	108.82	106.40
36	1	2785	A	C6-N1-C2	-6.05	114.97	118.60
80	6	71	A	C8-N9-C4	6.05	108.22	105.80
80	6	911	U	N1-C2-N3	6.05	118.53	114.90
80	6	1105	C	N3-C4-N4	6.05	122.24	118.00
80	6	1228	G	C5-C6-N1	6.05	114.53	111.50
85	5	726	G	N1-C6-O6	6.05	123.53	119.90
85	5	1019	G	C2-N3-C4	6.05	114.93	111.90
85	5	1677	G	C2-N3-C4	6.05	114.93	111.90
85	5	2419	A	C5-N7-C8	-6.05	100.87	103.90
85	5	2683	U	N3-C2-O2	-6.05	117.96	122.20
85	5	3333	G	C4-C5-C6	6.05	122.43	118.80
38	8	102	U	O5'-P-OP2	-6.05	100.25	105.70
1	2	854	G	N9-C4-C5	6.05	107.82	105.40
1	2	1179	A	C8-N9-C4	-6.05	103.38	105.80
36	1	428	A	N1-C2-N3	6.05	132.33	129.30
36	1	1819	U	C2-N3-C4	6.05	130.63	127.00
38	4	60	U	OP2-P-O3'	6.05	118.52	105.20
38	4	102	U	C6-N1-C2	-6.05	117.37	121.00
80	6	85	A	C8-N9-C4	-6.05	103.38	105.80
80	6	742	U	N1-C2-O2	-6.05	118.56	122.80
85	5	420	G	N1-C6-O6	-6.05	116.27	119.90
85	5	1929	G	C6-N1-C2	-6.05	121.47	125.10
1	2	327	U	N3-C2-O2	6.05	126.44	122.20
1	2	1631	A	C5-C6-N1	6.05	120.73	117.70
36	1	137	G	OP1-P-OP2	6.05	128.68	119.60
36	1	1102	A	OP2-P-O3'	-6.05	91.89	105.20
36	1	1123	U	N3-C2-O2	6.05	126.44	122.20
36	1	1180	A	N7-C8-N9	-6.05	110.78	113.80
36	1	2254	U	N1-C2-N3	6.05	118.53	114.90
36	1	2804	A	P-O3'-C3'	6.05	126.96	119.70
36	1	3305	A	N7-C8-N9	6.05	116.83	113.80
38	4	15	G	OP1-P-O3'	6.05	118.51	105.20
38	4	87	G	C2-N3-C4	6.05	114.93	111.90
80	6	1051	G	N9-C4-C5	6.05	107.82	105.40
80	6	1079	U	C2-N3-C4	-6.05	123.37	127.00
80	6	1322	A	C5-C6-N1	6.05	120.73	117.70
80	6	1652	C	N3-C4-N4	6.05	122.24	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	914	A	N1-C6-N6	6.05	122.23	118.60
85	5	949	C	N3-C4-N4	6.05	122.24	118.00
85	5	2395	G	N3-C4-C5	6.05	131.63	128.60
85	5	2684	C	N1-C2-O2	-6.05	115.27	118.90
37	7	7	G	N9-C4-C5	6.05	107.82	105.40
91	P	75	C	O5'-P-OP2	-6.05	100.25	105.70
1	2	98	U	O4'-C1'-N1	-6.05	103.36	108.20
1	2	997	G	N1-C2-N3	6.05	127.53	123.90
36	1	76	G	N9-C4-C5	6.05	107.82	105.40
36	1	98	G	C8-N9-C4	-6.05	103.98	106.40
36	1	1127	G	C5-N7-C8	-6.05	101.28	104.30
36	1	1175	C	O5'-P-OP1	-6.05	100.25	105.70
36	1	1404	G	N1-C2-N3	6.05	127.53	123.90
36	1	1650	G	C5-C6-N1	6.05	114.53	111.50
36	1	2589	G	C5-N7-C8	-6.05	101.28	104.30
36	1	3204	C	OP2-P-O3'	6.05	118.51	105.20
38	4	10	A	C5-N7-C8	6.05	106.92	103.90
80	6	905	A	C5-C6-N6	6.05	128.54	123.70
80	6	1117	U	N3-C4-C5	-6.05	110.97	114.60
85	5	553	U	OP1-P-OP2	6.05	128.68	119.60
85	5	656	A	C6-N1-C2	-6.05	114.97	118.60
85	5	1162	U	C5-C4-O4	-6.05	122.27	125.90
85	5	1271	A	N9-C4-C5	-6.05	103.38	105.80
85	5	1586	G	N3-C2-N2	6.05	124.14	119.90
85	5	2169	G	C6-N1-C2	-6.05	121.47	125.10
85	5	2817	A	C5-C6-N6	-6.05	118.86	123.70
85	5	2836	C	C2-N3-C4	6.05	122.92	119.90
85	5	3127	A	N3-C4-C5	-6.05	122.56	126.80
85	5	3164	C	N3-C4-N4	-6.05	113.77	118.00
36	1	1377	G	N1-C2-N3	-6.05	120.27	123.90
36	1	1795	U	O5'-P-OP1	-6.05	100.26	105.70
36	1	3214	U	C2-N1-C1'	6.05	124.96	117.70
85	5	786	A	O5'-P-OP1	6.05	117.96	110.70
85	5	999	G	N9-C4-C5	-6.05	102.98	105.40
85	5	1148	G	C5-C6-O6	-6.05	124.97	128.60
85	5	1180	A	C4-C5-N7	-6.05	107.68	110.70
1	2	109	G	C8-N9-C4	-6.05	103.98	106.40
1	2	630	A	C5-N7-C8	6.05	106.92	103.90
1	2	1596	U	N3-C2-O2	6.05	126.43	122.20
36	1	524	U	C5-C4-O4	6.05	129.53	125.90
36	1	887	G	C5-C6-N1	6.05	114.52	111.50
36	1	936	A	P-O3'-C3'	6.05	126.96	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1623	G	N1-C2-N2	-6.05	110.76	116.20
36	1	2784	G	N1-C6-O6	-6.05	116.27	119.90
36	1	3207	U	C2-N1-C1'	-6.05	110.44	117.70
36	1	3272	C	N1-C2-N3	-6.05	114.97	119.20
38	4	141	C	C5-C4-N4	-6.05	115.97	120.20
80	6	37	U	N1-C2-N3	6.05	118.53	114.90
80	6	1330	G	C2-N3-C4	-6.05	108.88	111.90
85	5	107	A	C5-N7-C8	-6.05	100.88	103.90
85	5	905	U	N3-C2-O2	-6.05	117.97	122.20
85	5	1605	A	C6-N1-C2	-6.05	114.97	118.60
85	5	1790	G	C8-N9-C4	-6.05	103.98	106.40
85	5	2277	C	OP2-P-O3'	6.05	118.50	105.20
85	5	2336	U	N3-C4-C5	6.05	118.23	114.60
85	5	2408	U	C2-N3-C4	-6.05	123.37	127.00
85	5	3172	A	O5'-P-OP2	-6.05	100.26	105.70
85	5	3242	G	C5-C6-O6	6.05	132.23	128.60
37	7	11	A	C5-N7-C8	-6.05	100.88	103.90
37	7	81	U	N1-C2-N3	6.05	118.53	114.90
38	8	61	A	O5'-P-OP2	6.05	117.96	110.70
1	2	777	U	N1-C2-N3	6.04	118.53	114.90
36	1	1096	U	N1-C2-O2	6.04	127.03	122.80
36	1	1522	U	C6-N1-C2	-6.04	117.37	121.00
37	3	4	U	C4-C5-C6	6.04	123.33	119.70
85	5	1280	C	C4-C5-C6	-6.04	114.38	117.40
85	5	2137	U	C6-N1-C1'	-6.04	112.74	121.20
1	2	525	A	OP1-P-OP2	-6.04	110.53	119.60
1	2	1368	G	C2-N3-C4	-6.04	108.88	111.90
1	2	1541	U	N1-C2-O2	6.04	127.03	122.80
1	2	1647	C	N3-C4-C5	-6.04	119.48	121.90
36	1	102	C	C5-C6-N1	-6.04	117.98	121.00
36	1	210	U	C5'-C4'-O4'	-6.04	101.85	109.10
36	1	231	G	C6-N1-C2	-6.04	121.47	125.10
36	1	522	A	C4-C5-N7	6.04	113.72	110.70
36	1	575	G	C5-C6-N1	-6.04	108.48	111.50
36	1	653	A	N9-C4-C5	-6.04	103.38	105.80
36	1	686	G	N1-C2-N3	6.04	127.53	123.90
36	1	1076	C	N3-C4-C5	6.04	124.32	121.90
36	1	1800	A	N7-C8-N9	-6.04	110.78	113.80
36	1	2869	U	N1-C2-O2	-6.04	118.57	122.80
36	1	3253	G	N1-C2-N2	-6.04	110.76	116.20
77	Q1	23	ARG	NE-CZ-NH2	6.04	123.32	120.30
80	6	1124	A	OP1-P-OP2	-6.04	110.53	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1126	G	OP1-P-OP2	-6.04	110.53	119.60
85	5	268	A	C4-C5-C6	6.04	120.02	117.00
85	5	1617	G	C2-N3-C4	-6.04	108.88	111.90
85	5	2413	A	C2-N3-C4	-6.04	107.58	110.60
85	5	2520	A	C4-C5-N7	6.04	113.72	110.70
85	5	2765	C	C5-C6-N1	6.04	124.02	121.00
37	7	33	U	C5-C4-O4	-6.04	122.27	125.90
37	7	114	U	N1-C2-N3	6.04	118.53	114.90
1	2	97	C	N3-C2-O2	-6.04	117.67	121.90
36	1	775	A	C5-C6-N6	-6.04	118.87	123.70
36	1	2315	G	C5-C6-N1	6.04	114.52	111.50
36	1	2957	G	N3-C2-N2	-6.04	115.67	119.90
38	4	78	G	C4-C5-N7	-6.04	108.38	110.80
80	6	265	A	C2-N3-C4	-6.04	107.58	110.60
80	6	684	A	C8-N9-C4	6.04	108.22	105.80
85	5	282	G	C6-C5-N7	-6.04	126.78	130.40
85	5	314	U	OP1-P-OP2	6.04	128.66	119.60
85	5	340	C	OP1-P-OP2	-6.04	110.54	119.60
85	5	586	C	C2-N3-C4	-6.04	116.88	119.90
85	5	846	A	O5'-P-OP2	-6.04	100.26	105.70
85	5	926	A	C5-C6-N1	-6.04	114.68	117.70
85	5	1166	G	C2-N3-C4	-6.04	108.88	111.90
85	5	1604	G	N1-C2-N3	6.04	127.53	123.90
85	5	2409	G	C2-N3-C4	6.04	114.92	111.90
85	5	2697	A	C6-N1-C2	-6.04	114.97	118.60
1	2	69	G	N1-C2-N3	-6.04	120.28	123.90
1	2	145	A	C8-N9-C4	-6.04	103.38	105.80
36	1	289	A	N1-C6-N6	6.04	122.22	118.60
36	1	1662	G	N1-C2-N2	-6.04	110.76	116.20
36	1	3051	U	N1-C2-N3	-6.04	111.28	114.90
38	4	27	U	C6-N1-C1'	-6.04	112.74	121.20
38	4	144	G	C5-C6-N1	-6.04	108.48	111.50
80	6	885	G	C5-C6-O6	-6.04	124.98	128.60
85	5	197	G	C4-N9-C1'	6.04	134.35	126.50
85	5	1878	G	OP1-P-OP2	6.04	128.66	119.60
85	5	2858	U	C2-N3-C4	6.04	130.62	127.00
1	2	145	A	N1-C2-N3	6.04	132.32	129.30
1	2	264	G	N3-C4-C5	6.04	131.62	128.60
1	2	1159	G	C8-N9-C4	-6.04	103.98	106.40
36	1	274	G	C8-N9-C1'	-6.04	119.15	127.00
36	1	644	G	N3-C2-N2	-6.04	115.67	119.90
36	1	904	A	N3-C4-N9	-6.04	122.57	127.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1411	C	O5'-P-OP1	6.04	117.95	110.70
36	1	1412	G	N7-C8-N9	6.04	116.12	113.10
36	1	1842	A	OP1-P-OP2	6.04	128.66	119.60
36	1	3075	G	C2-N3-C4	-6.04	108.88	111.90
36	1	3104	U	N3-C4-O4	6.04	123.63	119.40
36	1	3242	G	C5-C6-N1	6.04	114.52	111.50
36	1	3345	G	N3-C4-N9	6.04	129.62	126.00
80	6	268	C	C5-C4-N4	-6.04	115.97	120.20
80	6	1523	G	N1-C6-O6	-6.04	116.28	119.90
80	6	1737	G	N7-C8-N9	6.04	116.12	113.10
85	5	378	A	N7-C8-N9	-6.04	110.78	113.80
85	5	718	G	O4'-C1'-N9	6.04	113.03	108.20
85	5	753	C	N1-C2-N3	-6.04	114.97	119.20
85	5	1080	A	C4-C5-C6	6.04	120.02	117.00
85	5	1221	A	N7-C8-N9	-6.04	110.78	113.80
85	5	1602	A	N9-C4-C5	6.04	108.22	105.80
85	5	1660	C	N1-C2-O2	6.04	122.52	118.90
85	5	2280	A	C5-N7-C8	-6.04	100.88	103.90
85	5	2382	G	C5-C6-N1	6.04	114.52	111.50
85	5	2662	G	C6-N1-C2	-6.04	121.48	125.10
85	5	2790	A	N3-C4-C5	6.04	131.03	126.80
1	2	1478	C	OP1-P-OP2	6.04	128.66	119.60
36	1	293	C	N3-C4-C5	6.04	124.31	121.90
36	1	702	C	C2-N1-C1'	6.04	125.44	118.80
36	1	932	U	C4-C5-C6	6.04	123.32	119.70
36	1	2524	A	C2-N3-C4	-6.04	107.58	110.60
36	1	2610	G	C6-N1-C2	-6.04	121.48	125.10
80	6	1663	G	C8-N9-C4	-6.04	103.98	106.40
85	5	397	A	N1-C2-N3	6.04	132.32	129.30
85	5	728	G	N1-C6-O6	6.04	123.52	119.90
85	5	817	A	N1-C6-N6	6.04	122.22	118.60
1	2	251	A	OP1-P-OP2	-6.04	110.55	119.60
1	2	717	A	OP1-P-O3'	6.04	118.48	105.20
1	2	1110	G	OP1-P-O3'	6.04	118.48	105.20
1	2	1721	U	OP1-P-O3'	6.04	118.48	105.20
1	2	1722	C	N1-C2-O2	6.04	122.52	118.90
36	1	282	G	C2-N3-C4	-6.04	108.88	111.90
36	1	779	G	C5-C6-O6	-6.04	124.98	128.60
36	1	952	A	OP2-P-O3'	6.04	118.48	105.20
36	1	954	U	N3-C2-O2	6.04	126.42	122.20
36	1	970	A	N1-C6-N6	-6.04	114.98	118.60
36	1	2127	U	C5-C6-N1	-6.04	119.68	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2153	U	N1-C2-N3	6.04	118.52	114.90
36	1	2291	A	OP1-P-OP2	-6.04	110.55	119.60
36	1	2630	C	C6-N1-C2	-6.04	117.89	120.30
36	1	2926	A	C5-C6-N6	-6.04	118.87	123.70
36	1	3212	C	N3-C2-O2	6.04	126.12	121.90
38	4	116	G	N1-C2-N3	6.04	127.52	123.90
80	6	778	G	OP1-P-O3'	6.04	118.48	105.20
80	6	1160	A	N1-C2-N3	6.04	132.32	129.30
85	5	584	G	OP1-P-OP2	6.04	128.65	119.60
85	5	972	A	C5-N7-C8	6.04	106.92	103.90
85	5	1101	G	N3-C4-C5	-6.04	125.58	128.60
85	5	1194	G	OP1-P-OP2	-6.04	110.55	119.60
85	5	1195	A	N9-C4-C5	6.04	108.21	105.80
85	5	1523	U	N3-C4-C5	-6.04	110.98	114.60
85	5	2160	G	C6-C5-N7	6.04	134.02	130.40
1	2	804	U	N1-C2-N3	-6.03	111.28	114.90
36	1	1054	A	O5'-P-OP2	-6.03	100.27	105.70
36	1	1149	G	N1-C6-O6	-6.03	116.28	119.90
36	1	1512	U	C5-C4-O4	6.03	129.52	125.90
36	1	2379	U	C4-C5-C6	6.03	123.32	119.70
36	1	2444	C	C6-N1-C2	6.03	122.71	120.30
36	1	2663	G	C2-N3-C4	-6.03	108.88	111.90
36	1	2997	G	OP1-P-OP2	-6.03	110.55	119.60
61	N5	115	ARG	NE-CZ-NH2	-6.03	117.28	120.30
80	6	1670	G	C4-N9-C1'	6.03	134.34	126.50
85	5	30	G	C8-N9-C1'	-6.03	119.16	127.00
85	5	279	U	N1-C2-N3	-6.03	111.28	114.90
85	5	497	C	N3-C4-N4	-6.03	113.78	118.00
85	5	723	U	O5'-P-OP1	-6.03	100.27	105.70
85	5	904	A	C6-N1-C2	-6.03	114.98	118.60
85	5	1099	A	C5-N7-C8	-6.03	100.88	103.90
85	5	1210	U	N1-C2-N3	6.03	118.52	114.90
85	5	1317	A	N1-C2-N3	-6.03	126.28	129.30
85	5	1327	C	OP1-P-O3'	6.03	118.47	105.20
85	5	2167	A	OP1-P-OP2	-6.03	110.55	119.60
85	5	2797	C	C2-N3-C4	6.03	122.92	119.90
85	5	2800	G	OP1-P-OP2	6.03	128.65	119.60
85	5	3241	G	N1-C2-N3	6.03	127.52	123.90
62	n6	40	ARG	NE-CZ-NH1	-6.03	117.28	120.30
64	n8	21	ARG	NE-CZ-NH1	-6.03	117.28	120.30
1	2	976	A	N7-C8-N9	6.03	116.82	113.80
36	1	909	G	OP2-P-O3'	6.03	118.47	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2755	C	C6-N1-C2	-6.03	117.89	120.30
36	1	2956	A	O5'-P-OP1	6.03	117.94	110.70
36	1	3081	C	OP2-P-O3'	6.03	118.47	105.20
37	3	63	A	N3-C4-C5	-6.03	122.58	126.80
38	4	23	U	C4-C5-C6	6.03	123.32	119.70
80	6	426	G	N1-C2-N2	-6.03	110.77	116.20
80	6	1722	A	OP1-P-OP2	-6.03	110.55	119.60
85	5	2115	G	C6-N1-C2	-6.03	121.48	125.10
85	5	2140	U	O5'-P-OP2	6.03	117.94	110.70
85	5	2535	A	N7-C8-N9	-6.03	110.78	113.80
85	5	2621	G	OP2-P-O3'	6.03	118.47	105.20
85	5	2800	G	N3-C4-C5	-6.03	125.58	128.60
85	5	3353	G	N7-C8-N9	6.03	116.12	113.10
37	7	65	G	N1-C2-N3	-6.03	120.28	123.90
1	2	10	G	C5-N7-C8	6.03	107.31	104.30
1	2	1518	U	C4-C5-C6	6.03	123.32	119.70
36	1	56	G	N1-C2-N2	6.03	121.63	116.20
36	1	258	G	C4-C5-N7	-6.03	108.39	110.80
36	1	1659	U	C4-C5-C6	6.03	123.32	119.70
36	1	2196	C	OP1-P-O3'	6.03	118.47	105.20
36	1	3272	C	N3-C2-O2	6.03	126.12	121.90
37	3	119	U	N1-C2-O2	6.03	127.02	122.80
80	6	215	A	O5'-P-OP2	6.03	117.94	110.70
80	6	461	G	C4-C5-N7	6.03	113.21	110.80
80	6	901	G	C5-C6-O6	-6.03	124.98	128.60
80	6	929	A	C2-N3-C4	-6.03	107.58	110.60
80	6	1401	A	C6-N1-C2	-6.03	114.98	118.60
85	5	110	G	C6-C5-N7	6.03	134.02	130.40
85	5	336	A	N9-C4-C5	-6.03	103.39	105.80
85	5	1363	A	O5'-P-OP2	-6.03	100.27	105.70
85	5	1475	A	OP1-P-OP2	-6.03	110.56	119.60
85	5	1482	A	C8-N9-C4	6.03	108.21	105.80
85	5	2367	A	C5-C6-N6	-6.03	118.88	123.70
85	5	2619	G	N3-C2-N2	6.03	124.12	119.90
38	8	125	U	C5-C4-O4	-6.03	122.28	125.90
39	l2	9	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	2	1069	A	N7-C8-N9	6.03	116.81	113.80
36	1	641	C	OP1-P-O3'	6.03	118.46	105.20
36	1	1933	A	C4-C5-N7	6.03	113.71	110.70
36	1	2116	G	N1-C2-N3	6.03	127.52	123.90
36	1	3181	C	C5-C6-N1	-6.03	117.98	121.00
39	L2	23	ARG	NE-CZ-NH2	-6.03	117.29	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	729	G	C4-C5-N7	6.03	113.21	110.80
85	5	1474	A	OP2-P-O3'	6.03	118.46	105.20
85	5	2607	G	C6-C5-N7	-6.03	126.78	130.40
37	7	33	U	OP1-P-OP2	6.03	128.64	119.60
58	n2	29	ASP	CB-CG-OD2	6.03	123.73	118.30
1	2	43	A	C6-N1-C2	-6.03	114.98	118.60
1	2	599	A	C6-N1-C2	-6.03	114.98	118.60
1	2	600	U	N3-C2-O2	-6.03	117.98	122.20
1	2	975	A	O4'-C1'-N9	6.03	113.02	108.20
1	2	1619	C	N1-C2-O2	-6.03	115.28	118.90
1	2	1644	U	C5-C4-O4	-6.03	122.28	125.90
36	1	754	G	C6-C5-N7	-6.03	126.78	130.40
36	1	1164	G	OP2-P-O3'	6.03	118.46	105.20
36	1	1766	G	N3-C4-C5	-6.03	125.59	128.60
36	1	1825	G	O5'-P-OP1	6.03	117.93	110.70
36	1	2616	C	OP1-P-O3'	-6.03	91.94	105.20
36	1	3062	G	C5-C6-O6	-6.03	124.98	128.60
37	3	86	U	N3-C4-O4	-6.03	115.18	119.40
54	M8	41	ASP	CB-CG-OD2	-6.03	112.87	118.30
80	6	432	G	N1-C2-N2	-6.03	110.78	116.20
80	6	1786	G	N3-C4-N9	-6.03	122.38	126.00
85	5	794	U	OP2-P-O3'	6.03	118.46	105.20
85	5	1561	G	N7-C8-N9	-6.03	110.09	113.10
85	5	1804	A	C6-C5-N7	-6.03	128.08	132.30
85	5	2181	C	N1-C2-O2	-6.03	115.28	118.90
85	5	2412	G	OP1-P-OP2	6.03	128.64	119.60
85	5	2595	A	C5-N7-C8	-6.03	100.89	103.90
85	5	2805	G	C8-N9-C4	6.03	108.81	106.40
38	8	2	A	N9-C4-C5	6.03	108.21	105.80
1	2	136	C	N3-C2-O2	-6.03	117.68	121.90
1	2	239	C	C6-N1-C2	6.03	122.71	120.30
1	2	825	C	OP1-P-OP2	6.03	128.64	119.60
1	2	1336	U	C4-C5-C6	6.03	123.32	119.70
36	1	7	C	N1-C2-O2	-6.03	115.28	118.90
36	1	1155	C	N1-C2-O2	-6.03	115.28	118.90
36	1	1947	G	C5-N7-C8	6.03	107.31	104.30
36	1	2310	U	C5-C6-N1	6.03	125.71	122.70
36	1	3142	A	C4-C5-N7	-6.03	107.69	110.70
38	4	51	G	OP1-P-OP2	6.03	128.64	119.60
80	6	541	A	N1-C2-N3	-6.03	126.29	129.30
80	6	808	U	OP1-P-OP2	-6.03	110.56	119.60
85	5	64	G	C4-C5-C6	6.03	122.42	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	200	C	C5-C6-N1	6.03	124.01	121.00
85	5	995	U	N3-C2-O2	-6.03	117.98	122.20
85	5	1546	A	N9-C4-C5	-6.03	103.39	105.80
85	5	1863	G	C5-N7-C8	6.03	107.31	104.30
85	5	1905	G	C5-C6-O6	-6.03	124.98	128.60
85	5	3266	G	N9-C4-C5	6.03	107.81	105.40
36	1	1131	G	OP2-P-O3'	6.02	118.45	105.20
36	1	2777	G	O4'-C1'-N9	6.02	113.02	108.20
38	4	36	G	N3-C4-N9	-6.02	122.39	126.00
42	L5	184	ASP	CB-CG-OD2	-6.02	112.88	118.30
80	6	1178	G	N1-C6-O6	-6.02	116.28	119.90
85	5	1313	G	C4-C5-C6	6.02	122.41	118.80
85	5	2561	A	N1-C6-N6	6.02	122.22	118.60
38	8	26	U	N3-C4-O4	-6.02	115.18	119.40
1	2	87	C	C2-N3-C4	6.02	122.91	119.90
1	2	137	U	N1-C2-N3	6.02	118.51	114.90
1	2	377	G	C5-N7-C8	6.02	107.31	104.30
1	2	413	U	C4-C5-C6	6.02	123.31	119.70
1	2	1004	C	C6-N1-C2	6.02	122.71	120.30
1	2	1755	C	N3-C2-O2	-6.02	117.68	121.90
36	1	18	G	N3-C2-N2	-6.02	115.68	119.90
36	1	24	G	C2-N3-C4	-6.02	108.89	111.90
36	1	281	G	N9-C4-C5	6.02	107.81	105.40
36	1	1412	G	C5-C6-N1	-6.02	108.49	111.50
36	1	2149	A	O5'-P-OP2	-6.02	100.28	105.70
36	1	2187	G	C5-C6-O6	6.02	132.21	128.60
80	6	393	C	C2-N3-C4	-6.02	116.89	119.90
80	6	1517	U	O5'-P-OP2	-6.02	100.28	105.70
85	5	220	G	N3-C4-C5	6.02	131.61	128.60
85	5	1395	G	N1-C6-O6	6.02	123.51	119.90
85	5	1428	A	OP1-P-O3'	-6.02	91.95	105.20
85	5	1498	A	N7-C8-N9	-6.02	110.79	113.80
85	5	1618	G	C5-C6-O6	-6.02	124.99	128.60
85	5	1684	U	C6-N1-C2	-6.02	117.39	121.00
85	5	1929	G	N9-C4-C5	-6.02	102.99	105.40
85	5	2693	C	N3-C4-C5	6.02	124.31	121.90
85	5	2877	G	N9-C4-C5	6.02	107.81	105.40
37	7	117	A	N9-C4-C5	6.02	108.21	105.80
52	m6	59	ARG	NE-CZ-NH1	6.02	123.31	120.30
1	2	681	U	C5-C4-O4	6.02	129.51	125.90
36	1	139	G	OP1-P-OP2	-6.02	110.57	119.60
36	1	255	A	O5'-P-OP2	-6.02	100.28	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	504	A	C2-N3-C4	-6.02	107.59	110.60
80	6	160	C	N3-C4-C5	6.02	124.31	121.90
80	6	1475	A	N1-C2-N3	6.02	132.31	129.30
85	5	968	G	N7-C8-N9	-6.02	110.09	113.10
85	5	1228	C	N1-C2-O2	-6.02	115.29	118.90
85	5	1435	A	C2-N3-C4	6.02	113.61	110.60
85	5	1755	C	OP1-P-OP2	-6.02	110.57	119.60
85	5	2939	G	OP2-P-O3'	6.02	118.45	105.20
48	m1	112	LEU	CA-CB-CG	6.02	129.15	115.30
1	2	11	A	C4-C5-C6	-6.02	113.99	117.00
1	2	1116	A	C5-N7-C8	6.02	106.91	103.90
36	1	141	C	C5-C6-N1	6.02	124.01	121.00
36	1	748	U	C4-C5-C6	-6.02	116.09	119.70
36	1	820	A	C6-C5-N7	6.02	136.51	132.30
36	1	963	G	OP2-P-O3'	6.02	118.44	105.20
36	1	1523	U	N3-C4-C5	-6.02	110.99	114.60
36	1	1605	A	OP1-P-OP2	6.02	128.63	119.60
36	1	1868	G	O5'-P-OP1	6.02	117.92	110.70
36	1	2249	G	N9-C1'-C2'	-6.02	105.38	112.00
36	1	2720	G	C6-C5-N7	-6.02	126.79	130.40
36	1	3119	U	C6-N1-C2	-6.02	117.39	121.00
36	1	3188	G	N3-C2-N2	-6.02	115.69	119.90
38	4	7	U	OP2-P-O3'	6.02	118.44	105.20
80	6	564	G	C5-C6-O6	6.02	132.21	128.60
80	6	1659	A	OP1-P-OP2	6.02	128.63	119.60
25	d3	13	ARG	NE-CZ-NH2	6.02	123.31	120.30
85	5	263	C	C4-C5-C6	-6.02	114.39	117.40
85	5	287	G	C6-N1-C2	-6.02	121.49	125.10
85	5	555	U	C4-C5-C6	6.02	123.31	119.70
85	5	1679	A	N9-C4-C5	6.02	108.21	105.80
85	5	2160	G	C8-N9-C4	6.02	108.81	106.40
85	5	2364	G	N9-C4-C5	6.02	107.81	105.40
85	5	2829	U	O5'-P-OP1	6.02	117.92	110.70
85	5	2846	U	OP2-P-O3'	6.02	118.44	105.20
85	5	3009	G	C4-C5-N7	6.02	113.21	110.80
85	5	3218	A	C5-C6-N1	-6.02	114.69	117.70
85	5	3314	A	N1-C2-N3	6.02	132.31	129.30
1	2	1121	A	N1-C2-N3	6.02	132.31	129.30
36	1	290	G	C5-C6-O6	-6.02	124.99	128.60
36	1	834	U	N3-C4-C5	-6.02	110.99	114.60
36	1	919	U	N3-C2-O2	-6.02	117.99	122.20
36	1	1350	A	N1-C6-N6	6.02	122.21	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1563	C	C2-N3-C4	-6.02	116.89	119.90
36	1	1598	G	C2-N3-C4	-6.02	108.89	111.90
36	1	2164	A	N1-C6-N6	-6.02	114.99	118.60
36	1	2508	U	O5'-P-OP1	6.02	117.92	110.70
36	1	2878	G	N1-C2-N3	6.02	127.51	123.90
36	1	3016	A	C8-N9-C4	6.02	108.21	105.80
80	6	429	G	C5-C6-N1	-6.02	108.49	111.50
21	c9	89	ARG	NE-CZ-NH1	-6.02	117.29	120.30
85	5	130	A	OP1-P-OP2	6.02	128.62	119.60
85	5	1264	G	C6-C5-N7	6.02	134.01	130.40
85	5	1413	G	C6-N1-C2	-6.02	121.49	125.10
85	5	1496	C	N3-C2-O2	-6.02	117.69	121.90
85	5	1793	C	O5'-P-OP2	6.02	117.92	110.70
85	5	1857	C	N1-C2-N3	6.02	123.41	119.20
85	5	2305	G	N3-C4-N9	6.02	129.61	126.00
85	5	3176	G	C5-C6-O6	6.02	132.21	128.60
37	7	68	C	OP2-P-O3'	6.02	118.44	105.20
1	2	71	A	C8-N9-C4	6.02	108.21	105.80
36	1	1357	G	C8-N9-C4	-6.02	103.99	106.40
36	1	1536	G	C8-N9-C4	-6.02	103.99	106.40
80	6	370	A	C5-N7-C8	6.02	106.91	103.90
80	6	1639	C	C4-C5-C6	-6.02	114.39	117.40
85	5	618	C	C4-C5-C6	6.02	120.41	117.40
85	5	1477	A	C6-C5-N7	-6.02	128.09	132.30
85	5	1528	G	N1-C2-N3	6.02	127.51	123.90
85	5	2358	A	C5-C6-N1	6.02	120.71	117.70
85	5	2554	A	N1-C2-N3	6.02	132.31	129.30
1	2	634	G	C5-N7-C8	-6.01	101.29	104.30
1	2	686	G	C5-C6-O6	6.01	132.21	128.60
1	2	1018	G	O4'-C1'-N9	6.01	113.01	108.20
36	1	172	G	N3-C2-N2	6.01	124.11	119.90
36	1	328	U	N3-C4-C5	-6.01	110.99	114.60
36	1	421	G	C2-N3-C4	6.01	114.91	111.90
36	1	560	G	C5-C6-N1	-6.01	108.49	111.50
36	1	628	A	C8-N9-C4	6.01	108.21	105.80
36	1	651	G	C6-C5-N7	6.01	134.01	130.40
36	1	2377	G	N1-C6-O6	-6.01	116.29	119.90
80	6	107	C	O5'-P-OP1	6.01	117.92	110.70
80	6	252	U	N3-C4-O4	6.01	123.61	119.40
80	6	1379	C	O5'-P-OP1	-6.01	100.29	105.70
85	5	144	A	C8-N9-C4	6.01	108.20	105.80
85	5	640	U	C6-N1-C2	-6.01	117.39	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1172	G	C4-N9-C1'	6.01	134.32	126.50
85	5	1643	A	C6-N1-C2	-6.01	114.99	118.60
85	5	2321	A	C5-N7-C8	-6.01	100.89	103.90
85	5	2326	A	O4'-C1'-N9	-6.01	103.39	108.20
85	5	2384	A	C2-N3-C4	-6.01	107.59	110.60
85	5	2432	A	C5-C6-N1	-6.01	114.69	117.70
85	5	2931	C	C6-N1-C2	-6.01	117.89	120.30
1	2	371	G	C5-C6-N1	-6.01	108.49	111.50
36	1	299	G	N7-C8-N9	6.01	116.11	113.10
80	6	798	C	OP1-P-OP2	-6.01	110.58	119.60
80	6	1634	C	N1-C2-N3	-6.01	114.99	119.20
85	5	208	C	N3-C4-C5	-6.01	119.50	121.90
85	5	650	C	OP2-P-O3'	6.01	118.43	105.20
85	5	1101	G	N1-C2-N2	-6.01	110.79	116.20
85	5	1150	A	C5-C6-N1	6.01	120.71	117.70
56	n0	131	LYS	CD-CE-NZ	6.01	125.53	111.70
1	2	291	G	C8-N9-C4	-6.01	104.00	106.40
1	2	386	G	O5'-P-OP2	-6.01	100.29	105.70
1	2	1751	G	C5-C6-O6	6.01	132.21	128.60
36	1	391	A	O5'-P-OP1	6.01	117.91	110.70
36	1	788	C	O5'-P-OP2	6.01	117.91	110.70
36	1	1343	A	N1-C6-N6	6.01	122.21	118.60
36	1	1660	C	C6-N1-C2	-6.01	117.90	120.30
36	1	2387	A	OP1-P-OP2	6.01	128.62	119.60
36	1	2627	C	N3-C4-N4	-6.01	113.79	118.00
36	1	3038	U	N1-C2-O2	-6.01	118.59	122.80
36	1	3084	C	C5-C4-N4	-6.01	115.99	120.20
36	1	3198	U	N1-C2-O2	6.01	127.01	122.80
80	6	481	A	C5-C6-N1	6.01	120.71	117.70
80	6	1056	U	N3-C4-C5	-6.01	110.99	114.60
80	6	1154	G	N1-C2-N2	-6.01	110.79	116.20
85	5	34	A	C5-N7-C8	6.01	106.91	103.90
85	5	810	A	OP2-P-O3'	6.01	118.42	105.20
85	5	908	G	OP2-P-O3'	6.01	118.42	105.20
85	5	1206	G	N1-C2-N2	-6.01	110.79	116.20
85	5	1325	U	N3-C4-O4	-6.01	115.19	119.40
85	5	1749	A	C4-C5-N7	6.01	113.71	110.70
85	5	2632	G	C5-C6-O6	-6.01	124.99	128.60
85	5	2967	A	C4-C5-N7	-6.01	107.69	110.70
46	19	103	ILE	CG1-CB-CG2	-6.01	98.18	111.40
1	2	465	G	C5-C6-N1	6.01	114.50	111.50
1	2	1357	C	C6-N1-C2	-6.01	117.90	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	109	A	N1-C6-N6	-6.01	114.99	118.60
36	1	354	U	OP1-P-O3'	6.01	118.42	105.20
36	1	1139	G	O5'-P-OP2	6.01	117.91	110.70
36	1	1148	G	N3-C4-C5	6.01	131.60	128.60
36	1	2580	A	C5-N7-C8	6.01	106.90	103.90
36	1	2908	G	C5-N7-C8	-6.01	101.30	104.30
37	3	88	G	C5-C6-O6	-6.01	124.99	128.60
38	4	24	G	O5'-P-OP2	-6.01	100.29	105.70
80	6	578	U	C2-N3-C4	-6.01	123.39	127.00
85	5	286	U	C2-N1-C1'	6.01	124.91	117.70
85	5	504	A	C8-N9-C4	-6.01	103.40	105.80
85	5	1020	G	N1-C2-N3	-6.01	120.30	123.90
85	5	1920	U	O5'-P-OP2	-6.01	100.29	105.70
85	5	2233	A	C4-C5-N7	-6.01	107.70	110.70
85	5	2340	U	C4-C5-C6	-6.01	116.09	119.70
85	5	2520	A	C5-C6-N1	-6.01	114.69	117.70
85	5	3085	G	OP1-P-O3'	6.01	118.42	105.20
38	8	106	C	N1-C2-N3	-6.01	114.99	119.20
1	2	436	A	N9-C4-C5	6.01	108.20	105.80
1	2	1034	G	C4-C5-N7	6.01	113.20	110.80
1	2	1268	U	N1-C2-O2	6.01	127.01	122.80
36	1	2875	U	O5'-P-OP2	-6.01	100.29	105.70
80	6	1111	G	C4-C5-N7	-6.01	108.40	110.80
85	5	343	U	O5'-P-OP2	6.01	117.91	110.70
85	5	935	U	N3-C4-O4	6.01	123.61	119.40
85	5	2258	U	C6-N1-C2	-6.01	117.39	121.00
85	5	2745	G	OP1-P-O3'	6.01	118.42	105.20
85	5	3083	G	N1-C2-N3	6.01	127.50	123.90
1	2	1467	G	C5-C6-O6	6.01	132.20	128.60
36	1	67	A	C6-N1-C2	-6.01	115.00	118.60
36	1	357	A	C6-C5-N7	-6.01	128.10	132.30
36	1	437	G	C6-N1-C2	6.01	128.70	125.10
36	1	600	G	C2-N3-C4	-6.01	108.90	111.90
36	1	685	G	OP1-P-O3'	-6.01	91.99	105.20
36	1	902	G	C4-C5-N7	6.01	113.20	110.80
36	1	1845	G	C4-C5-N7	6.01	113.20	110.80
36	1	1885	U	OP2-P-O3'	6.01	118.41	105.20
36	1	2798	C	N3-C4-C5	-6.01	119.50	121.90
36	1	2924	U	N1-C2-N3	-6.01	111.30	114.90
36	1	3008	A	C4-C5-N7	6.01	113.70	110.70
46	L9	173	ARG	NE-CZ-NH2	6.01	123.30	120.30
80	6	980	G	C6-N1-C2	-6.01	121.50	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1490	C	N1-C2-O2	-6.01	115.30	118.90
80	6	1605	G	N9-C4-C5	6.01	107.80	105.40
11	s9	58	ASP	CB-CG-OD1	-6.01	112.89	118.30
85	5	529	A	C5-C6-N1	-6.01	114.70	117.70
85	5	723	U	N3-C4-O4	-6.01	115.19	119.40
85	5	912	G	C5-C6-O6	-6.01	125.00	128.60
85	5	1370	G	C5-C6-O6	6.01	132.20	128.60
85	5	2208	A	O4'-C1'-N9	6.01	113.00	108.20
85	5	2359	C	OP1-P-O3'	6.01	118.41	105.20
85	5	2742	C	N1-C2-O2	6.01	122.50	118.90
37	7	111	U	N3-C2-O2	-6.01	118.00	122.20
48	m1	143	ARG	NE-CZ-NH2	6.01	123.30	120.30
36	1	35	A	O5'-P-OP2	-6.00	100.30	105.70
36	1	312	C	O5'-P-OP1	-6.00	100.30	105.70
36	1	1641	U	C2-N3-C4	-6.00	123.40	127.00
36	1	1742	U	C2-N3-C4	6.00	130.60	127.00
36	1	2378	C	C2-N3-C4	-6.00	116.90	119.90
36	1	2394	G	C5-C6-N1	6.00	114.50	111.50
80	6	113	U	C5-C4-O4	6.00	129.50	125.90
80	6	1017	U	N3-C4-C5	-6.00	111.00	114.60
85	5	1561	G	C8-N9-C4	6.00	108.80	106.40
85	5	2246	G	N9-C4-C5	6.00	107.80	105.40
85	5	2422	C	C5-C6-N1	-6.00	118.00	121.00
85	5	2932	U	N1-C2-N3	6.00	118.50	114.90
85	5	3075	G	C4-C5-C6	6.00	122.40	118.80
85	5	3260	G	N1-C6-O6	6.00	123.50	119.90
38	8	33	A	N3-C4-N9	6.00	132.20	127.40
1	2	390	G	C5-N7-C8	-6.00	101.30	104.30
1	2	914	C	C5-C4-N4	-6.00	116.00	120.20
36	1	267	G	OP1-P-OP2	-6.00	110.59	119.60
36	1	684	G	C8-N9-C4	6.00	108.80	106.40
36	1	949	C	N3-C2-O2	6.00	126.10	121.90
36	1	1737	U	N3-C2-O2	6.00	126.40	122.20
36	1	1848	G	C2-N3-C4	6.00	114.90	111.90
36	1	1869	C	O5'-P-OP2	-6.00	100.30	105.70
36	1	2688	U	N1-C2-N3	-6.00	111.30	114.90
36	1	3194	C	C4-C5-C6	6.00	120.40	117.40
36	1	3259	U	N3-C4-C5	-6.00	111.00	114.60
37	3	12	U	N3-C4-O4	6.00	123.60	119.40
38	4	20	U	OP2-P-O3'	6.00	118.41	105.20
80	6	335	U	C4-C5-C6	6.00	123.30	119.70
80	6	591	A	N1-C6-N6	-6.00	115.00	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	694	U	C5-C6-N1	6.00	125.70	122.70
80	6	704	C	C5-C6-N1	6.00	124.00	121.00
80	6	1146	G	N1-C2-N2	-6.00	110.80	116.20
85	5	37	U	C2-N1-C1'	6.00	124.90	117.70
85	5	300	G	C8-N9-C4	-6.00	104.00	106.40
85	5	438	A	N3-C4-C5	6.00	131.00	126.80
85	5	666	A	C4-C5-N7	-6.00	107.70	110.70
85	5	754	G	N1-C6-O6	-6.00	116.30	119.90
85	5	1439	U	N3-C4-C5	6.00	118.20	114.60
85	5	1708	C	N1-C2-O2	-6.00	115.30	118.90
85	5	2694	A	N1-C2-N3	-6.00	126.30	129.30
85	5	3060	C	OP1-P-OP2	-6.00	110.59	119.60
85	5	3181	C	N1-C2-N3	6.00	123.40	119.20
85	5	3297	U	N1-C2-O2	-6.00	118.60	122.80
85	5	3319	U	OP1-P-OP2	6.00	128.61	119.60
37	7	43	U	N3-C4-C5	-6.00	111.00	114.60
37	7	79	A	C5-C6-N6	-6.00	118.90	123.70
71	o5	9	LEU	CB-CG-CD1	-6.00	100.80	111.00
36	1	404	G	O5'-P-OP2	-6.00	100.30	105.70
36	1	936	A	OP1-P-OP2	6.00	128.60	119.60
36	1	3369	G	C2-N3-C4	-6.00	108.90	111.90
80	6	357	G	C4-C5-N7	-6.00	108.40	110.80
80	6	912	U	N3-C4-O4	6.00	123.60	119.40
80	6	1044	U	N3-C4-C5	6.00	118.20	114.60
80	6	1113	A	N1-C6-N6	-6.00	115.00	118.60
80	6	1263	G	C8-N9-C4	-6.00	104.00	106.40
85	5	231	G	N7-C8-N9	6.00	116.10	113.10
85	5	278	U	C2-N1-C1'	-6.00	110.50	117.70
85	5	376	G	C6-C5-N7	-6.00	126.80	130.40
85	5	975	C	N3-C4-N4	6.00	122.20	118.00
85	5	1824	U	C4-C5-C6	6.00	123.30	119.70
85	5	1881	A	C6-C5-N7	-6.00	128.10	132.30
85	5	2301	U	OP2-P-O3'	6.00	118.40	105.20
85	5	2841	G	N3-C4-N9	6.00	129.60	126.00
85	5	3145	C	O5'-P-OP1	-6.00	100.30	105.70
38	8	104	A	C2-N3-C4	6.00	113.60	110.60
46	19	166	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	2	525	A	N1-C6-N6	6.00	122.20	118.60
36	1	382	U	N3-C4-C5	6.00	118.20	114.60
36	1	963	G	O5'-P-OP2	-6.00	100.30	105.70
36	1	2337	C	OP1-P-O3'	6.00	118.40	105.20
36	1	2349	U	N3-C4-C5	6.00	118.20	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1450	U	C5-C4-O4	-6.00	122.30	125.90
80	6	1765	A	C4-C5-N7	-6.00	107.70	110.70
85	5	769	G	N9-C4-C5	-6.00	103.00	105.40
85	5	1440	G	N9-C4-C5	6.00	107.80	105.40
85	5	2190	U	C4-C5-C6	6.00	123.30	119.70
85	5	3079	U	N3-C2-O2	6.00	126.40	122.20
85	5	3104	U	C2-N1-C1'	-6.00	110.50	117.70
1	2	341	A	C6-C5-N7	-6.00	128.10	132.30
1	2	1113	G	N1-C2-N3	6.00	127.50	123.90
1	2	1120	A	C2-N3-C4	-6.00	107.60	110.60
1	2	1152	G	C6-N1-C2	-6.00	121.50	125.10
1	2	1481	G	OP1-P-O3'	6.00	118.40	105.20
36	1	620	U	O5'-P-OP1	-6.00	100.30	105.70
36	1	687	U	C4-C5-C6	6.00	123.30	119.70
36	1	1121	U	N3-C4-C5	6.00	118.20	114.60
36	1	1750	A	N1-C6-N6	6.00	122.20	118.60
36	1	1839	A	C6-C5-N7	-6.00	128.10	132.30
36	1	2768	U	C4-C5-C6	-6.00	116.10	119.70
80	6	1286	U	C2-N3-C4	-6.00	123.40	127.00
85	5	294	U	N3-C4-C5	6.00	118.20	114.60
85	5	329	U	C5-C6-N1	-6.00	119.70	122.70
85	5	375	A	N3-C4-C5	6.00	131.00	126.80
85	5	768	C	N3-C2-O2	6.00	126.10	121.90
85	5	964	G	OP2-P-O3'	6.00	118.40	105.20
85	5	1326	A	O5'-P-OP1	6.00	117.90	110.70
85	5	2804	A	OP1-P-OP2	-6.00	110.60	119.60
85	5	2930	A	N9-C4-C5	-6.00	103.40	105.80
85	5	3122	A	O5'-P-OP1	-6.00	100.30	105.70
85	5	3212	C	N3-C2-O2	6.00	126.10	121.90
1	2	209	U	N3-C4-O4	6.00	123.60	119.40
1	2	319	U	C2-N3-C4	6.00	130.60	127.00
1	2	354	C	N1-C2-N3	6.00	123.40	119.20
1	2	737	A	N1-C6-N6	-6.00	115.00	118.60
36	1	33	G	N1-C2-N3	6.00	127.50	123.90
36	1	1054	A	N9-C4-C5	6.00	108.20	105.80
36	1	1169	A	C6-C5-N7	6.00	136.50	132.30
36	1	1177	G	O5'-P-OP2	6.00	117.89	110.70
36	1	1327	C	O5'-P-OP2	6.00	117.89	110.70
36	1	1435	A	OP1-P-O3'	6.00	118.39	105.20
36	1	2313	A	C5-N7-C8	-6.00	100.90	103.90
36	1	2960	C	C2-N1-C1'	6.00	125.40	118.80
80	6	1375	A	N1-C6-N6	6.00	122.20	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1698	G	C5-N7-C8	6.00	107.30	104.30
85	5	498	A	N7-C8-N9	6.00	116.80	113.80
85	5	606	C	N1-C2-N3	6.00	123.40	119.20
85	5	1374	G	N3-C4-C5	6.00	131.60	128.60
85	5	1425	U	C5-C4-O4	6.00	129.50	125.90
85	5	1661	G	N1-C2-N2	-6.00	110.80	116.20
85	5	1893	A	O5'-P-OP1	6.00	117.90	110.70
85	5	2106	A	OP1-P-OP2	-6.00	110.61	119.60
85	5	2768	U	N3-C4-C5	6.00	118.20	114.60
85	5	3157	U	N3-C4-O4	-6.00	115.20	119.40
36	1	135	C	OP1-P-O3'	6.00	118.39	105.20
36	1	2166	A	OP2-P-O3'	6.00	118.39	105.20
36	1	2359	C	OP1-P-OP2	-6.00	110.61	119.60
36	1	2668	U	C2-N3-C4	-6.00	123.40	127.00
36	1	3033	A	N1-C6-N6	6.00	122.20	118.60
85	5	2939	G	N3-C4-C5	6.00	131.60	128.60
85	5	2987	A	N1-C6-N6	-6.00	115.00	118.60
38	8	7	U	C5-C6-N1	-6.00	119.70	122.70
1	2	389	G	C4-C5-N7	-5.99	108.40	110.80
1	2	768	U	C5-C4-O4	5.99	129.50	125.90
1	2	1294	U	N3-C4-C5	5.99	118.20	114.60
36	1	721	G	C8-N9-C4	-5.99	104.00	106.40
36	1	1391	C	C5-C4-N4	-5.99	116.00	120.20
36	1	1431	G	OP1-P-O3'	5.99	118.39	105.20
36	1	1906	G	C4-C5-C6	5.99	122.40	118.80
36	1	2434	U	C2-N3-C4	-5.99	123.40	127.00
36	1	2706	G	N7-C8-N9	5.99	116.10	113.10
37	3	28	C	N1-C2-N3	5.99	123.40	119.20
85	5	868	C	OP2-P-O3'	5.99	118.39	105.20
85	5	947	G	C4-C5-C6	5.99	122.40	118.80
85	5	947	G	N1-C6-O6	5.99	123.50	119.90
85	5	1328	C	C5-C6-N1	-5.99	118.00	121.00
85	5	2514	U	C6-N1-C2	-5.99	117.40	121.00
85	5	2594	C	N3-C4-C5	5.99	124.30	121.90
85	5	2692	A	C4-C5-C6	5.99	120.00	117.00
85	5	2973	G	N3-C4-N9	-5.99	122.40	126.00
38	8	28	C	N1-C2-O2	-5.99	115.30	118.90
1	2	591	A	C5-C6-N1	5.99	120.70	117.70
1	2	960	A	N9-C4-C5	-5.99	103.40	105.80
36	1	603	A	C5-C6-N1	-5.99	114.70	117.70
36	1	991	G	N3-C2-N2	5.99	124.09	119.90
36	1	3385	U	N3-C4-C5	5.99	118.19	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	122	U	O4'-C1'-N1	5.99	112.99	108.20
80	6	290	G	N3-C4-N9	-5.99	122.41	126.00
80	6	326	G	C5-C6-N1	-5.99	108.50	111.50
26	d4	20	ARG	NE-CZ-NH2	-5.99	117.30	120.30
85	5	1281	G	N3-C4-C5	5.99	131.60	128.60
85	5	1324	U	C5-C6-N1	-5.99	119.70	122.70
85	5	1868	G	N3-C4-C5	-5.99	125.60	128.60
85	5	2388	U	N3-C4-C5	-5.99	111.00	114.60
85	5	3059	G	OP2-P-O3'	5.99	118.38	105.20
1	2	903	U	N3-C2-O2	5.99	126.39	122.20
1	2	921	G	C6-N1-C2	-5.99	121.51	125.10
36	1	2116	G	N1-C2-N2	-5.99	110.81	116.20
80	6	409	C	C6-N1-C2	-5.99	117.90	120.30
80	6	781	U	N1-C2-O2	5.99	126.99	122.80
85	5	98	G	N3-C4-N9	5.99	129.59	126.00
85	5	761	A	OP2-P-O3'	5.99	118.38	105.20
85	5	959	C	C6-N1-C2	-5.99	117.90	120.30
85	5	1314	C	C6-N1-C1'	-5.99	113.61	120.80
85	5	1594	A	C4-C5-C6	5.99	120.00	117.00
85	5	2313	A	C4-C5-C6	5.99	120.00	117.00
85	5	2725	U	C6-N1-C1'	5.99	129.59	121.20
85	5	3354	U	O5'-P-OP2	5.99	117.89	110.70
37	7	1	G	N1-C2-N3	5.99	127.49	123.90
37	7	73	C	O4'-C1'-N1	5.99	112.99	108.20
38	8	138	A	N9-C4-C5	5.99	108.20	105.80
46	19	91	ARG	NE-CZ-NH1	-5.99	117.31	120.30
1	2	114	C	C6-N1-C1'	-5.99	113.61	120.80
1	2	257	A	N1-C6-N6	-5.99	115.01	118.60
1	2	630	A	N3-C4-C5	5.99	130.99	126.80
1	2	1357	C	N3-C2-O2	-5.99	117.71	121.90
1	2	1495	G	N9-C4-C5	5.99	107.80	105.40
36	1	75	G	C5-C6-O6	-5.99	125.01	128.60
36	1	153	U	OP1-P-O3'	5.99	118.37	105.20
36	1	782	U	N1-C2-N3	-5.99	111.31	114.90
36	1	1499	C	N3-C4-N4	5.99	122.19	118.00
36	1	1534	A	OP1-P-O3'	5.99	118.38	105.20
36	1	2234	G	N1-C2-N2	-5.99	110.81	116.20
36	1	2390	A	N7-C8-N9	-5.99	110.81	113.80
36	1	2582	C	N3-C4-C5	-5.99	119.50	121.90
36	1	2873	U	O4'-C1'-N1	5.99	112.99	108.20
36	1	3102	G	C5-C6-N1	-5.99	108.51	111.50
38	4	105	A	N1-C6-N6	5.99	122.19	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	364	G	C5-C6-O6	-5.99	125.01	128.60
80	6	547	U	C5-C6-N1	-5.99	119.71	122.70
80	6	1605	G	C8-N9-C4	-5.99	104.00	106.40
80	6	1679	G	C5-C6-N1	5.99	114.50	111.50
85	5	340	C	N3-C4-C5	5.99	124.30	121.90
85	5	692	A	N9-C4-C5	-5.99	103.41	105.80
85	5	1290	A	C5-N7-C8	-5.99	100.91	103.90
85	5	1415	U	N1-C2-N3	5.99	118.49	114.90
85	5	1732	U	N1-C2-O2	5.99	126.99	122.80
85	5	2229	A	C8-N9-C4	-5.99	103.41	105.80
85	5	2835	U	C5-C6-N1	5.99	125.69	122.70
85	5	2924	U	C5-C4-O4	5.99	129.49	125.90
85	5	3341	U	OP1-P-O3'	5.99	118.37	105.20
37	7	63	A	N1-C2-N3	5.99	132.29	129.30
36	1	1230	G	C2-N3-C4	-5.99	108.91	111.90
80	6	687	G	N3-C4-N9	-5.99	122.41	126.00
80	6	783	G	N3-C4-N9	5.99	129.59	126.00
80	6	1084	A	C6-N1-C2	-5.99	115.01	118.60
80	6	1478	G	C4-C5-C6	5.99	122.39	118.80
85	5	359	U	N3-C4-C5	-5.99	111.01	114.60
85	5	801	A	OP1-P-O3'	5.99	118.37	105.20
85	5	3031	G	N3-C2-N2	-5.99	115.71	119.90
85	5	3112	G	OP1-P-OP2	5.99	128.58	119.60
52	m6	194	LEU	CB-CG-CD2	-5.99	100.82	111.00
1	2	954	A	C4-C5-C6	5.99	119.99	117.00
1	2	1125	A	C5-N7-C8	-5.99	100.91	103.90
1	2	1330	U	N1-C2-O2	-5.99	118.61	122.80
1	2	1512	C	C2-N3-C4	5.99	122.89	119.90
1	2	1563	C	C5-C4-N4	-5.99	116.01	120.20
36	1	326	U	N3-C4-O4	5.99	123.59	119.40
36	1	498	A	C5-C6-N6	5.99	128.49	123.70
36	1	508	U	N1-C2-O2	-5.99	118.61	122.80
36	1	807	A	C6-N1-C2	-5.99	115.01	118.60
36	1	1604	G	C4-N9-C1'	5.99	134.28	126.50
36	1	1683	A	C4-C5-C6	5.99	119.99	117.00
36	1	2541	U	N3-C2-O2	-5.99	118.01	122.20
36	1	3121	U	OP1-P-O3'	5.99	118.37	105.20
36	1	3250	U	N1-C2-N3	-5.99	111.31	114.90
68	O2	81	ASP	CB-CG-OD1	-5.99	112.91	118.30
80	6	892	A	C2-N3-C4	-5.99	107.61	110.60
80	6	1056	U	C5-C4-O4	5.99	129.49	125.90
85	5	738	A	N1-C6-N6	5.99	122.19	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	794	U	O4'-C1'-N1	-5.99	103.41	108.20
85	5	1651	U	N3-C4-O4	5.99	123.59	119.40
85	5	1936	A	C4-C5-N7	5.99	113.69	110.70
85	5	2269	U	N1-C2-O2	-5.99	118.61	122.80
1	2	128	U	N1-C2-N3	5.98	118.49	114.90
36	1	584	G	C6-N1-C2	-5.98	121.51	125.10
36	1	923	C	N1-C2-N3	-5.98	115.01	119.20
36	1	1039	U	OP1-P-OP2	5.98	128.57	119.60
36	1	3262	U	O5'-P-OP2	-5.98	100.31	105.70
80	6	101	U	C5-C6-N1	5.98	125.69	122.70
80	6	299	A	C2-N3-C4	-5.98	107.61	110.60
80	6	493	U	N3-C2-O2	5.98	126.39	122.20
80	6	1130	G	C4-C5-N7	5.98	113.19	110.80
80	6	1428	G	N3-C4-C5	-5.98	125.61	128.60
85	5	385	A	N1-C2-N3	5.98	132.29	129.30
85	5	501	A	N9-C4-C5	5.98	108.19	105.80
85	5	2158	A	C8-N9-C4	-5.98	103.41	105.80
85	5	2415	C	C6-N1-C2	-5.98	117.91	120.30
85	5	3108	G	OP1-P-OP2	-5.98	110.62	119.60
1	2	717	A	C8-N9-C4	-5.98	103.41	105.80
1	2	1505	U	O5'-P-OP1	5.98	117.88	110.70
36	1	6	A	N1-C6-N6	-5.98	115.01	118.60
36	1	189	G	N3-C4-N9	-5.98	122.41	126.00
36	1	383	G	N7-C8-N9	-5.98	110.11	113.10
37	3	99	G	N1-C2-N3	5.98	127.49	123.90
80	6	64	U	C6-N1-C2	5.98	124.59	121.00
80	6	451	A	OP2-P-O3'	5.98	118.36	105.20
80	6	526	A	N1-C6-N6	5.98	122.19	118.60
80	6	876	G	C2-N3-C4	5.98	114.89	111.90
80	6	961	U	N3-C2-O2	-5.98	118.01	122.20
80	6	1640	C	N3-C2-O2	-5.98	117.71	121.90
80	6	1737	G	C8-N9-C4	-5.98	104.01	106.40
85	5	225	C	N3-C2-O2	-5.98	117.71	121.90
85	5	937	G	N3-C4-C5	-5.98	125.61	128.60
85	5	1604	G	OP1-P-OP2	-5.98	110.63	119.60
85	5	1639	C	N1-C2-O2	-5.98	115.31	118.90
85	5	1778	G	C4-C5-N7	5.98	113.19	110.80
85	5	1934	G	C8-N9-C1'	-5.98	119.22	127.00
85	5	2753	G	P-O3'-C3'	-5.98	112.52	119.70
85	5	2856	G	N1-C2-N3	5.98	127.49	123.90
85	5	3241	G	N3-C2-N2	5.98	124.09	119.90
62	n6	7	ASP	CB-CG-OD2	-5.98	112.92	118.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1437	G	C8-N9-C4	5.98	108.79	106.40
1	2	1452	A	N1-C6-N6	-5.98	115.01	118.60
1	2	1736	A	C2-N3-C4	-5.98	107.61	110.60
1	2	1771	G	C4-C5-N7	-5.98	108.41	110.80
36	1	414	U	N3-C2-O2	-5.98	118.01	122.20
36	1	584	G	C5-N7-C8	5.98	107.29	104.30
36	1	876	A	OP1-P-OP2	5.98	128.57	119.60
36	1	991	G	C4-C5-N7	-5.98	108.41	110.80
36	1	1548	C	O5'-P-OP1	5.98	117.88	110.70
36	1	2161	G	OP1-P-O3'	5.98	118.36	105.20
36	1	2297	U	N1-C2-O2	5.98	126.99	122.80
36	1	2326	A	C5-C6-N1	-5.98	114.71	117.70
36	1	2619	G	OP1-P-OP2	5.98	128.57	119.60
36	1	3258	U	N1-C2-O2	-5.98	118.61	122.80
36	1	3280	U	N3-C4-C5	5.98	118.19	114.60
37	3	42	A	C5-N7-C8	5.98	106.89	103.90
80	6	143	G	C5-C6-O6	-5.98	125.01	128.60
80	6	585	A	O5'-P-OP1	-5.98	100.32	105.70
80	6	1110	G	O5'-P-OP2	5.98	117.88	110.70
80	6	1530	C	N3-C2-O2	-5.98	117.71	121.90
85	5	16	A	N9-C4-C5	-5.98	103.41	105.80
85	5	221	A	C4-C5-C6	5.98	119.99	117.00
85	5	704	U	C2-N3-C4	5.98	130.59	127.00
85	5	989	A	C2-N3-C4	5.98	113.59	110.60
85	5	1321	G	C4-C5-C6	5.98	122.39	118.80
85	5	1575	A	N7-C8-N9	5.98	116.79	113.80
85	5	1624	G	C2-N3-C4	-5.98	108.91	111.90
85	5	2339	C	O4'-C1'-N1	-5.98	103.42	108.20
85	5	2715	A	C6-N1-C2	-5.98	115.01	118.60
85	5	2974	U	OP1-P-O3'	5.98	118.36	105.20
85	5	3390	G	N9-C4-C5	-5.98	103.01	105.40
1	2	358	U	O5'-P-OP1	-5.98	100.32	105.70
36	1	570	A	C6-N1-C2	-5.98	115.01	118.60
36	1	1583	A	N9-C4-C5	5.98	108.19	105.80
36	1	3048	A	C5-C6-N6	5.98	128.48	123.70
38	4	30	C	N1-C2-O2	-5.98	115.31	118.90
85	5	92	G	C2-N3-C4	5.98	114.89	111.90
85	5	2669	G	N7-C8-N9	-5.98	110.11	113.10
85	5	3356	G	C4-C5-N7	-5.98	108.41	110.80
38	8	127	U	C5-C4-O4	5.98	129.49	125.90
1	2	405	C	OP2-P-O3'	5.98	118.35	105.20
1	2	1107	A	C5-N7-C8	-5.98	100.91	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	343	U	O4'-C1'-N1	-5.98	103.42	108.20
36	1	839	C	C2-N1-C1'	-5.98	112.22	118.80
36	1	996	A	C5-C6-N1	5.98	120.69	117.70
36	1	1048	A	OP1-P-OP2	5.98	128.57	119.60
36	1	1784	G	C2-N3-C4	-5.98	108.91	111.90
52	M6	127	LEU	CB-CG-CD2	-5.98	100.84	111.00
64	N8	12	ARG	NE-CZ-NH1	5.98	123.29	120.30
80	6	127	G	N7-C8-N9	5.98	116.09	113.10
80	6	271	A	N1-C6-N6	-5.98	115.01	118.60
80	6	1636	C	C5-C6-N1	5.98	123.99	121.00
85	5	64	G	C5-C6-O6	-5.98	125.01	128.60
85	5	85	A	C8-N9-C4	5.98	108.19	105.80
85	5	95	A	C6-N1-C2	-5.98	115.01	118.60
85	5	295	A	C5-C6-N1	-5.98	114.71	117.70
85	5	972	A	N3-C4-C5	-5.98	122.62	126.80
85	5	1372	C	N1-C2-O2	-5.98	115.31	118.90
85	5	1507	G	C2-N3-C4	-5.98	108.91	111.90
85	5	1524	A	C5-C6-N6	-5.98	118.92	123.70
85	5	2155	G	C4-C5-C6	-5.98	115.21	118.80
38	8	16	G	C2-N3-C4	-5.98	108.91	111.90
38	8	118	C	N3-C4-N4	5.98	122.18	118.00
36	1	636	C	OP1-P-O3'	5.98	118.35	105.20
36	1	1117	G	N3-C4-C5	-5.98	125.61	128.60
36	1	1621	A	C5-N7-C8	5.98	106.89	103.90
36	1	2610	G	O5'-P-OP1	5.98	117.87	110.70
36	1	3338	C	O5'-P-OP2	-5.98	100.32	105.70
38	4	109	A	OP1-P-OP2	-5.98	110.64	119.60
80	6	371	G	N1-C6-O6	5.98	123.49	119.90
80	6	507	U	OP1-P-O3'	5.98	118.35	105.20
85	5	319	A	C5-N7-C8	5.98	106.89	103.90
85	5	978	G	C4-C5-C6	-5.98	115.22	118.80
85	5	3017	A	N1-C6-N6	-5.98	115.01	118.60
38	8	91	C	O5'-P-OP1	-5.98	100.32	105.70
38	8	108	C	OP1-P-O3'	5.98	118.35	105.20
1	2	291	G	C4-C5-N7	5.97	113.19	110.80
1	2	634	G	N7-C8-N9	5.97	116.09	113.10
1	2	1661	A	C5-N7-C8	-5.97	100.91	103.90
36	1	1507	G	O5'-P-OP2	-5.97	100.32	105.70
36	1	2394	G	C5-C6-O6	5.97	132.19	128.60
36	1	2935	U	OP2-P-O3'	5.97	118.34	105.20
36	1	3353	G	P-O3'-C3'	5.97	126.87	119.70
36	1	3376	A	C2-N3-C4	-5.97	107.61	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	O2	55	ILE	CG1-CB-CG2	-5.97	98.26	111.40
80	6	1403	C	C2-N3-C4	5.97	122.89	119.90
85	5	430	U	N3-C2-O2	5.97	126.38	122.20
85	5	2130	G	N9-C1'-C2'	-5.97	105.43	112.00
85	5	2598	G	C2-N3-C4	-5.97	108.91	111.90
85	5	3353	G	N3-C4-N9	-5.97	122.42	126.00
1	2	81	G	C5-N7-C8	-5.97	101.31	104.30
1	2	479	C	N3-C4-C5	5.97	124.29	121.90
1	2	573	C	C4-C5-C6	5.97	120.39	117.40
36	1	157	A	N1-C6-N6	5.97	122.18	118.60
36	1	317	A	C2-N3-C4	-5.97	107.61	110.60
36	1	813	G	C5-N7-C8	-5.97	101.31	104.30
36	1	869	G	O5'-P-OP2	-5.97	100.32	105.70
36	1	1397	C	N1-C2-N3	5.97	123.38	119.20
36	1	1863	G	N1-C6-O6	-5.97	116.32	119.90
36	1	2418	G	C4-C5-C6	-5.97	115.22	118.80
80	6	640	U	C2-N3-C4	-5.97	123.42	127.00
80	6	825	U	N1-C2-N3	-5.97	111.32	114.90
80	6	1653	C	N3-C2-O2	5.97	126.08	121.90
85	5	89	A	C5-N7-C8	-5.97	100.91	103.90
85	5	242	C	N3-C4-C5	-5.97	119.51	121.90
85	5	340	C	N1-C2-O2	-5.97	115.32	118.90
85	5	529	A	N7-C8-N9	5.97	116.79	113.80
85	5	613	G	C5-C6-N1	-5.97	108.51	111.50
85	5	640	U	C5-C6-N1	5.97	125.69	122.70
85	5	933	A	C4-C5-N7	-5.97	107.71	110.70
85	5	1358	C	N3-C4-C5	5.97	124.29	121.90
85	5	2204	C	N1-C2-N3	5.97	123.38	119.20
85	5	2387	A	C6-N1-C2	-5.97	115.02	118.60
85	5	2399	A	N3-C4-C5	5.97	130.98	126.80
85	5	2434	U	N1-C2-N3	5.97	118.48	114.90
85	5	2922	G	OP1-P-O3'	5.97	118.34	105.20
1	2	1725	U	N3-C4-O4	5.97	123.58	119.40
36	1	779	G	N3-C2-N2	-5.97	115.72	119.90
36	1	2775	U	C2-N3-C4	-5.97	123.42	127.00
36	1	3177	G	C5-C6-N1	5.97	114.49	111.50
57	N1	12	ARG	NE-CZ-NH2	5.97	123.29	120.30
85	5	1159	A	C8-N9-C4	-5.97	103.41	105.80
85	5	1360	C	N1-C2-O2	-5.97	115.32	118.90
85	5	2796	G	C4-C5-N7	-5.97	108.41	110.80
85	5	3210	A	O5'-P-OP1	-5.97	100.33	105.70
1	2	1342	C	N3-C2-O2	5.97	126.08	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1714	A	C2-N3-C4	-5.97	107.61	110.60
36	1	195	U	OP1-P-O3'	5.97	118.33	105.20
36	1	594	U	C6-N1-C2	5.97	124.58	121.00
36	1	595	G	N3-C4-C5	5.97	131.59	128.60
36	1	1346	G	OP2-P-O3'	5.97	118.33	105.20
36	1	1408	G	N3-C2-N2	-5.97	115.72	119.90
36	1	1600	U	C4-C5-C6	-5.97	116.12	119.70
36	1	1822	C	C2-N3-C4	-5.97	116.92	119.90
36	1	2139	A	C5-N7-C8	5.97	106.89	103.90
36	1	2305	G	C2-N3-C4	5.97	114.89	111.90
36	1	2567	C	C2-N3-C4	5.97	122.89	119.90
36	1	2648	G	N1-C2-N3	-5.97	120.32	123.90
36	1	2649	A	C5-C6-N1	5.97	120.68	117.70
37	3	87	G	C5-N7-C8	-5.97	101.31	104.30
38	4	149	A	C5-C6-N1	-5.97	114.72	117.70
80	6	513	U	C5-C4-O4	5.97	129.48	125.90
80	6	961	U	C6-N1-C2	-5.97	117.42	121.00
80	6	1051	G	N3-C4-C5	5.97	131.59	128.60
85	5	580	C	C5-C6-N1	5.97	123.98	121.00
85	5	743	C	N3-C4-N4	5.97	122.18	118.00
85	5	1397	C	N3-C4-N4	5.97	122.18	118.00
85	5	1409	G	C2-N3-C4	-5.97	108.92	111.90
85	5	1595	U	N3-C2-O2	5.97	126.38	122.20
85	5	1900	A	C4-C5-N7	5.97	113.69	110.70
85	5	2922	G	C4-C5-N7	5.97	113.19	110.80
1	2	649	U	C5-C6-N1	-5.97	119.72	122.70
36	1	64	G	OP2-P-O3'	5.97	118.33	105.20
36	1	222	A	O5'-P-OP1	5.97	117.86	110.70
36	1	1399	A	N3-C4-N9	-5.97	122.63	127.40
36	1	2238	G	C5-N7-C8	-5.97	101.32	104.30
36	1	2525	G	C2-N3-C4	-5.97	108.92	111.90
36	1	2913	C	O5'-P-OP1	-5.97	100.33	105.70
80	6	234	G	N3-C4-C5	-5.97	125.62	128.60
80	6	968	U	N3-C4-O4	-5.97	115.22	119.40
80	6	1161	C	N3-C4-N4	-5.97	113.82	118.00
80	6	1486	G	C4-C5-N7	5.97	113.19	110.80
85	5	425	G	C4-C5-N7	5.97	113.19	110.80
85	5	740	G	C4-C5-N7	5.97	113.19	110.80
85	5	1249	G	C5-C6-N1	-5.97	108.52	111.50
85	5	1395	G	C6-C5-N7	-5.97	126.82	130.40
1	2	1062	U	C5-C4-O4	-5.97	122.32	125.90
1	2	1113	G	N7-C8-N9	5.97	116.08	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1132	G	C6-N1-C2	-5.97	121.52	125.10
36	1	1009	A	C4-C5-N7	-5.97	107.72	110.70
36	1	1050	U	C5-C4-O4	5.97	129.48	125.90
36	1	1368	U	C2-N1-C1'	5.97	124.86	117.70
36	1	2299	A	C4-C5-N7	-5.97	107.72	110.70
36	1	2874	G	N3-C4-C5	5.97	131.58	128.60
36	1	3362	A	N9-C4-C5	-5.97	103.41	105.80
37	3	1	G	N1-C2-N3	5.97	127.48	123.90
37	3	41	G	C2-N3-C4	-5.97	108.92	111.90
38	4	56	G	N3-C4-C5	5.97	131.58	128.60
38	4	122	U	C2-N3-C4	-5.97	123.42	127.00
80	6	284	G	C2-N3-C4	-5.97	108.92	111.90
80	6	592	A	N1-C6-N6	-5.97	115.02	118.60
80	6	1047	G	OP1-P-O3'	5.97	118.33	105.20
80	6	1783	C	C6-N1-C1'	-5.97	113.64	120.80
85	5	23	A	C5-C6-N6	-5.97	118.93	123.70
85	5	253	A	C5-C6-N1	-5.97	114.72	117.70
85	5	392	G	C4-C5-N7	5.97	113.19	110.80
85	5	772	U	OP1-P-OP2	-5.97	110.65	119.60
85	5	1079	A	N1-C2-N3	5.97	132.28	129.30
85	5	1550	C	O5'-P-OP2	5.97	117.86	110.70
85	5	1847	A	P-O3'-C3'	5.97	126.86	119.70
85	5	2373	A	N7-C8-N9	5.97	116.78	113.80
85	5	2851	A	C6-N1-C2	-5.97	115.02	118.60
85	5	3096	C	N3-C4-N4	-5.97	113.82	118.00
85	5	3168	A	C6-N1-C2	5.97	122.18	118.60
85	5	3376	A	C4-C5-C6	5.97	119.98	117.00
37	7	114	U	OP1-P-OP2	5.97	128.55	119.60
1	2	770	G	C4-C5-N7	-5.96	108.41	110.80
1	2	1642	A	O5'-P-OP2	5.96	117.86	110.70
36	1	24	G	N1-C2-N3	5.96	127.48	123.90
36	1	412	G	N3-C4-N9	-5.96	122.42	126.00
36	1	695	C	N3-C4-N4	5.96	122.17	118.00
36	1	1769	G	N9-C4-C5	-5.96	103.02	105.40
36	1	2174	G	C4-N9-C1'	5.96	134.25	126.50
36	1	3021	A	C6-C5-N7	5.96	136.48	132.30
37	3	67	G	N3-C4-C5	5.96	131.58	128.60
38	4	7	U	N3-C2-O2	5.96	126.38	122.20
38	4	44	A	C6-C5-N7	-5.96	128.12	132.30
80	6	377	G	C6-C5-N7	-5.96	126.82	130.40
80	6	527	A	C2-N3-C4	-5.96	107.62	110.60
85	5	81	C	O5'-P-OP2	5.96	117.86	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	735	A	C6-N1-C2	5.96	122.18	118.60
85	5	1245	A	N1-C2-N3	5.96	132.28	129.30
85	5	1946	A	C4-C5-C6	5.96	119.98	117.00
85	5	2170	U	N3-C2-O2	5.96	126.38	122.20
85	5	3305	A	N1-C6-N6	-5.96	115.02	118.60
85	5	3338	C	N3-C4-C5	5.96	124.29	121.90
85	5	3363	U	OP1-P-O3'	5.96	118.32	105.20
37	7	9	C	N3-C2-O2	-5.96	117.72	121.90
1	2	814	U	N3-C4-C5	-5.96	111.02	114.60
36	1	71	A	N3-C4-C5	-5.96	122.63	126.80
36	1	758	C	C5-C4-N4	-5.96	116.03	120.20
36	1	962	A	C6-C5-N7	-5.96	128.13	132.30
36	1	1603	A	C6-C5-N7	5.96	136.47	132.30
36	1	2783	U	N1-C2-N3	-5.96	111.32	114.90
37	3	69	C	N1-C2-N3	5.96	123.37	119.20
80	6	1204	A	N9-C4-C5	5.96	108.19	105.80
85	5	2239	G	C4-C5-C6	-5.96	115.22	118.80
38	8	53	A	C8-N9-C4	-5.96	103.42	105.80
1	2	617	U	C2-N1-C1'	5.96	124.85	117.70
1	2	635	A	C6-C5-N7	-5.96	128.13	132.30
1	2	753	A	C5-N7-C8	5.96	106.88	103.90
1	2	1726	U	C6-N1-C2	-5.96	117.42	121.00
36	1	406	G	C5-C6-O6	5.96	132.18	128.60
36	1	732	C	C5-C4-N4	5.96	124.37	120.20
36	1	3230	G	C5-C6-N1	5.96	114.48	111.50
36	1	3276	G	C4-C5-C6	-5.96	115.22	118.80
80	6	1423	U	N1-C2-N3	5.96	118.48	114.90
85	5	795	G	N7-C8-N9	5.96	116.08	113.10
85	5	2140	U	C5-C4-O4	5.96	129.48	125.90
85	5	2247	G	C2-N3-C4	-5.96	108.92	111.90
85	5	3150	A	OP2-P-O3'	5.96	118.31	105.20
71	o5	31	LEU	CB-CG-CD1	-5.96	100.86	111.00
1	2	301	A	OP2-P-O3'	5.96	118.31	105.20
1	2	416	A	N3-C4-C5	5.96	130.97	126.80
36	1	290	G	N3-C4-C5	-5.96	125.62	128.60
36	1	678	G	C8-N9-C4	-5.96	104.02	106.40
36	1	746	A	O5'-P-OP1	5.96	117.85	110.70
36	1	1516	C	N3-C4-C5	-5.96	119.52	121.90
36	1	2904	U	N1-C2-O2	5.96	126.97	122.80
80	6	1121	C	N3-C4-C5	-5.96	119.52	121.90
85	5	600	G	C5-C6-N1	-5.96	108.52	111.50
85	5	1268	G	C5-C6-N1	-5.96	108.52	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1742	U	C4-C5-C6	-5.96	116.12	119.70
1	2	272	U	N1-C2-N3	5.96	118.48	114.90
36	1	604	G	N9-C4-C5	5.96	107.78	105.40
36	1	1180	A	C5-N7-C8	5.96	106.88	103.90
36	1	1525	G	N3-C4-C5	-5.96	125.62	128.60
36	1	2115	G	C6-N1-C2	-5.96	121.53	125.10
36	1	2947	G	N3-C2-N2	-5.96	115.73	119.90
44	L7	56	GLU	C-N-CA	-5.96	106.80	121.70
80	6	694	U	C2-N3-C4	5.96	130.57	127.00
80	6	736	C	N1-C2-O2	5.96	122.47	118.90
85	5	831	G	C8-N9-C4	5.96	108.78	106.40
85	5	1145	G	C6-N1-C2	-5.96	121.52	125.10
85	5	2523	A	C6-N1-C2	-5.96	115.03	118.60
85	5	2524	A	C4-C5-N7	5.96	113.68	110.70
85	5	3350	C	O5'-P-OP2	-5.96	100.34	105.70
40	l3	100	ARG	NE-CZ-NH2	-5.96	117.32	120.30
47	m0	82	ARG	NE-CZ-NH1	5.96	123.28	120.30
54	m8	151	ARG	NE-CZ-NH2	5.96	123.28	120.30
1	2	523	G	C5-C6-N1	-5.96	108.52	111.50
36	1	657	A	N3-C4-C5	5.96	130.97	126.80
36	1	1105	A	N1-C6-N6	5.96	122.17	118.60
36	1	2122	G	N1-C6-O6	-5.96	116.33	119.90
36	1	2644	C	N3-C4-N4	-5.96	113.83	118.00
36	1	3320	A	C6-N1-C2	-5.96	115.03	118.60
36	1	3325	G	C2-N3-C4	5.96	114.88	111.90
55	M9	42	ARG	NE-CZ-NH1	5.96	123.28	120.30
80	6	248	U	C2-N3-C4	-5.96	123.43	127.00
80	6	1111	G	C8-N9-C4	5.96	108.78	106.40
80	6	1739	C	OP2-P-O3'	5.96	118.31	105.20
85	5	512	U	C5-C4-O4	5.96	129.47	125.90
85	5	971	G	N3-C4-N9	5.96	129.57	126.00
85	5	1800	A	N9-C4-C5	5.96	108.18	105.80
85	5	2658	G	C2-N3-C4	-5.96	108.92	111.90
85	5	2814	G	C5-N7-C8	5.96	107.28	104.30
42	l5	85	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	2	53	G	N1-C2-N2	-5.96	110.84	116.20
1	2	753	A	OP1-P-OP2	5.96	128.53	119.60
1	2	1185	A	C6-N1-C2	-5.96	115.03	118.60
35	SM	74	LYS	CD-CE-NZ	5.96	125.40	111.70
36	1	1380	G	OP1-P-OP2	5.96	128.53	119.60
36	1	1833	G	N3-C4-C5	-5.96	125.62	128.60
36	1	2239	G	C2-N3-C4	5.96	114.88	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	118	A	C8-N9-C4	5.96	108.18	105.80
80	6	1014	G	N3-C4-N9	-5.96	122.43	126.00
85	5	1295	G	C4-C5-C6	5.96	122.37	118.80
85	5	1481	A	N1-C6-N6	-5.96	115.03	118.60
85	5	2207	A	N1-C6-N6	5.96	122.17	118.60
85	5	2228	A	OP1-P-O3'	5.96	118.30	105.20
85	5	2512	C	C5-C6-N1	5.96	123.98	121.00
1	2	93	A	OP1-P-OP2	5.95	128.53	119.60
1	2	1041	U	N3-C2-O2	-5.95	118.03	122.20
36	1	768	C	N3-C4-C5	5.95	124.28	121.90
36	1	1174	G	OP1-P-OP2	-5.95	110.67	119.60
36	1	1294	A	N1-C2-N3	5.95	132.28	129.30
36	1	1731	A	C2-N3-C4	-5.95	107.62	110.60
36	1	1931	U	C2-N1-C1'	-5.95	110.56	117.70
36	1	2120	A	C4-C5-C6	5.95	119.98	117.00
36	1	3308	C	C5-C6-N1	5.95	123.98	121.00
36	1	3323	A	C4-C5-C6	5.95	119.98	117.00
37	3	100	C	C6-N1-C2	-5.95	117.92	120.30
38	4	78	G	C5-N7-C8	5.95	107.28	104.30
80	6	481	A	N1-C2-N3	-5.95	126.32	129.30
80	6	1697	G	C4-N9-C1'	5.95	134.24	126.50
80	6	1741	U	OP1-P-OP2	-5.95	110.67	119.60
85	5	431	U	N3-C2-O2	5.95	126.37	122.20
85	5	1090	G	O5'-P-OP2	5.95	117.84	110.70
85	5	1354	G	C8-N9-C4	-5.95	104.02	106.40
85	5	1405	U	C2-N3-C4	-5.95	123.43	127.00
85	5	1485	G	C4-C5-N7	5.95	113.18	110.80
85	5	1532	C	N1-C2-O2	-5.95	115.33	118.90
85	5	1753	G	N9-C1'-C2'	-5.95	105.45	112.00
85	5	2099	A	C5-C6-N1	5.95	120.68	117.70
85	5	2230	C	N3-C4-N4	5.95	122.17	118.00
85	5	2418	G	C5-C6-O6	-5.95	125.03	128.60
85	5	2610	G	C2-N3-C4	-5.95	108.92	111.90
85	5	2893	C	C2-N1-C1'	-5.95	112.25	118.80
85	5	3120	C	OP1-P-OP2	5.95	128.53	119.60
85	5	3235	C	O4'-C1'-N1	5.95	112.96	108.20
37	7	35	C	OP1-P-OP2	-5.95	110.67	119.60
38	8	120	C	N3-C4-C5	-5.95	119.52	121.90
1	2	416	A	C6-N1-C2	5.95	122.17	118.60
36	1	130	A	C8-N9-C4	5.95	108.18	105.80
36	1	386	A	N7-C8-N9	5.95	116.78	113.80
69	O3	89	LEU	CB-CG-CD2	-5.95	100.88	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	971	A	O5'-P-OP2	5.95	117.84	110.70
80	6	1294	G	C5-C6-N1	-5.95	108.52	111.50
80	6	1340	U	C2-N1-C1'	5.95	124.84	117.70
85	5	185	C	N3-C4-C5	-5.95	119.52	121.90
85	5	276	U	N3-C4-O4	5.95	123.57	119.40
85	5	802	C	C5-C6-N1	5.95	123.98	121.00
85	5	1356	U	C2-N1-C1'	-5.95	110.56	117.70
85	5	2135	U	N1-C2-O2	-5.95	118.63	122.80
85	5	3232	G	C4-C5-C6	5.95	122.37	118.80
37	7	72	A	O4'-C1'-N9	-5.95	103.44	108.20
1	2	598	U	N1-C2-O2	-5.95	118.64	122.80
1	2	612	U	C6-N1-C2	5.95	124.57	121.00
1	2	1498	A	N1-C2-N3	-5.95	126.32	129.30
36	1	354	U	O5'-P-OP1	-5.95	100.34	105.70
36	1	624	G	N3-C4-C5	-5.95	125.62	128.60
36	1	828	A	N3-C4-N9	-5.95	122.64	127.40
36	1	866	A	C8-N9-C4	5.95	108.18	105.80
36	1	1198	C	N3-C2-O2	-5.95	117.73	121.90
36	1	1505	C	N3-C4-N4	-5.95	113.83	118.00
36	1	1559	A	C5-C6-N1	-5.95	114.72	117.70
36	1	2140	U	N1-C2-O2	-5.95	118.64	122.80
36	1	2606	G	C8-N9-C1'	-5.95	119.27	127.00
36	1	2765	C	N3-C2-O2	-5.95	117.73	121.90
36	1	3228	C	C2-N3-C4	-5.95	116.92	119.90
38	4	4	C	O5'-P-OP1	5.95	117.84	110.70
80	6	320	U	C5-C6-N1	-5.95	119.72	122.70
80	6	923	A	N3-C4-N9	-5.95	122.64	127.40
80	6	1550	A	C5-C6-N6	-5.95	118.94	123.70
80	6	1616	G	N7-C8-N9	5.95	116.08	113.10
85	5	892	U	C5-C6-N1	-5.95	119.72	122.70
85	5	1389	G	N9-C4-C5	-5.95	103.02	105.40
85	5	1508	C	OP1-P-OP2	5.95	128.53	119.60
85	5	1634	G	C5-C6-O6	-5.95	125.03	128.60
85	5	1909	A	C6-C5-N7	-5.95	128.13	132.30
85	5	2201	G	N3-C4-N9	5.95	129.57	126.00
85	5	2296	A	C5-C6-N6	5.95	128.46	123.70
85	5	2690	G	OP1-P-OP2	-5.95	110.67	119.60
85	5	3051	U	N3-C4-O4	-5.95	115.23	119.40
85	5	3118	C	C5-C6-N1	-5.95	118.03	121.00
48	m1	170	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	2	100	A	O5'-P-OP1	5.95	117.84	110.70
1	2	1557	G	O5'-P-OP1	-5.95	100.35	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	173	G	N9-C4-C5	5.95	107.78	105.40
36	1	364	G	O4'-C1'-N9	-5.95	103.44	108.20
36	1	928	C	C5-C4-N4	-5.95	116.04	120.20
36	1	1369	A	N9-C4-C5	-5.95	103.42	105.80
36	1	1782	U	C4-C5-C6	-5.95	116.13	119.70
36	1	2657	A	N9-C4-C5	5.95	108.18	105.80
36	1	2808	A	N7-C8-N9	5.95	116.77	113.80
36	1	2852	C	N1-C2-O2	5.95	122.47	118.90
36	1	3145	C	OP2-P-O3'	5.95	118.29	105.20
36	1	3375	A	N7-C8-N9	5.95	116.77	113.80
70	O4	51	LEU	CA-CB-CG	5.95	128.98	115.30
80	6	173	A	C4-C5-N7	5.95	113.67	110.70
80	6	190	C	C4-C5-C6	-5.95	114.43	117.40
80	6	595	G	N3-C4-C5	5.95	131.57	128.60
80	6	1176	G	C6-N1-C2	-5.95	121.53	125.10
80	6	1261	G	N9-C4-C5	-5.95	103.02	105.40
80	6	1670	G	C6-N1-C2	-5.95	121.53	125.10
80	6	1754	A	OP1-P-O3'	5.95	118.29	105.20
85	5	70	A	C5-N7-C8	-5.95	100.93	103.90
85	5	217	U	O5'-P-OP2	-5.95	100.35	105.70
85	5	1136	A	C5-N7-C8	-5.95	100.93	103.90
85	5	1290	A	N3-C4-C5	5.95	130.96	126.80
85	5	1305	U	N3-C4-O4	5.95	123.56	119.40
85	5	1308	A	OP1-P-OP2	-5.95	110.68	119.60
85	5	1480	G	C6-C5-N7	-5.95	126.83	130.40
85	5	2265	C	C6-N1-C2	-5.95	117.92	120.30
85	5	2275	A	N1-C2-N3	-5.95	126.33	129.30
85	5	2734	A	C4-C5-C6	5.95	119.97	117.00
85	5	3105	U	C2-N1-C1'	-5.95	110.56	117.70
1	2	365	G	C8-N9-C4	-5.95	104.02	106.40
36	1	1066	G	C5-C6-N1	-5.95	108.53	111.50
36	1	1180	A	C4-C5-N7	-5.95	107.73	110.70
36	1	1583	A	C5-C6-N1	-5.95	114.73	117.70
85	5	989	A	C6-N1-C2	-5.95	115.03	118.60
85	5	2659	G	O5'-P-OP2	5.95	117.84	110.70
85	5	2944	U	O5'-P-OP2	5.95	117.84	110.70
1	2	808	U	C2-N3-C4	5.95	130.57	127.00
36	1	220	G	OP1-P-OP2	5.95	128.52	119.60
36	1	914	A	N3-C4-C5	-5.95	122.64	126.80
36	1	1035	G	C2-N3-C4	5.95	114.87	111.90
36	1	1477	A	N7-C8-N9	5.95	116.77	113.80
36	1	2185	G	N3-C4-N9	-5.95	122.43	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2444	C	C6-N1-C1'	-5.95	113.67	120.80
37	3	105	C	N3-C4-N4	5.95	122.16	118.00
38	4	56	G	C5-N7-C8	5.95	107.27	104.30
80	6	268	C	C5-C6-N1	-5.95	118.03	121.00
80	6	270	C	C5-C6-N1	-5.95	118.03	121.00
80	6	340	U	C2-N1-C1'	-5.95	110.56	117.70
80	6	1747	G	N3-C4-C5	5.95	131.57	128.60
80	6	1753	A	C6-N1-C2	-5.95	115.03	118.60
85	5	517	G	N3-C4-C5	-5.95	125.63	128.60
85	5	1268	G	C8-N9-C4	-5.95	104.02	106.40
85	5	1634	G	N3-C2-N2	-5.95	115.74	119.90
37	7	91	G	C5-N7-C8	5.95	107.27	104.30
1	2	57	G	OP1-P-OP2	5.94	128.52	119.60
1	2	216	U	O5'-P-OP2	-5.94	100.35	105.70
1	2	1561	U	OP1-P-O3'	5.94	118.28	105.20
36	1	739	G	C5-C6-N1	5.94	114.47	111.50
36	1	1929	G	C5-C6-N1	-5.94	108.53	111.50
36	1	3191	G	C4-C5-C6	5.94	122.37	118.80
36	1	3299	A	C6-N1-C2	5.94	122.17	118.60
36	1	3345	G	C2-N3-C4	5.94	114.87	111.90
80	6	284	G	N3-C4-N9	-5.94	122.43	126.00
80	6	466	U	C2-N3-C4	-5.94	123.43	127.00
80	6	1564	U	C6-N1-C2	5.94	124.57	121.00
85	5	113	C	N3-C4-N4	5.94	122.16	118.00
85	5	117	U	N1-C2-O2	5.94	126.96	122.80
85	5	1039	U	C4-C5-C6	-5.94	116.13	119.70
85	5	1489	A	C4-C5-N7	5.94	113.67	110.70
85	5	1603	A	C4-C5-N7	-5.94	107.73	110.70
85	5	1661	G	O4'-C1'-N9	5.94	112.95	108.20
85	5	2205	U	N1-C2-O2	5.94	126.96	122.80
85	5	2814	G	OP1-P-O3'	5.94	118.28	105.20
85	5	3018	C	N3-C2-O2	-5.94	117.74	121.90
85	5	3085	G	N9-C4-C5	5.94	107.78	105.40
1	2	797	A	C4-C5-N7	5.94	113.67	110.70
36	1	1772	U	C5-C4-O4	5.94	129.47	125.90
36	1	2200	U	C4-C5-C6	5.94	123.27	119.70
36	1	2771	U	N3-C4-O4	5.94	123.56	119.40
36	1	2865	U	N3-C2-O2	5.94	126.36	122.20
36	1	3220	G	OP1-P-OP2	-5.94	110.69	119.60
80	6	81	G	OP2-P-O3'	-5.94	92.12	105.20
80	6	266	A	N1-C6-N6	-5.94	115.03	118.60
80	6	574	G	N1-C2-N3	5.94	127.47	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	942	G	N1-C6-O6	5.94	123.47	119.90
80	6	1401	A	C2-N3-C4	5.94	113.57	110.60
85	5	118	U	N3-C4-C5	-5.94	111.03	114.60
85	5	306	A	C2-N3-C4	-5.94	107.63	110.60
85	5	1130	A	C5-N7-C8	5.94	106.87	103.90
85	5	1657	C	C5-C4-N4	-5.94	116.04	120.20
85	5	1887	A	N7-C8-N9	5.94	116.77	113.80
85	5	2335	G	N7-C8-N9	5.94	116.07	113.10
85	5	3130	A	N3-C4-C5	-5.94	122.64	126.80
85	5	3294	A	C4-C5-N7	-5.94	107.73	110.70
1	2	438	A	C5-N7-C8	-5.94	100.93	103.90
1	2	685	G	C5-N7-C8	-5.94	101.33	104.30
1	2	751	C	C4-C5-C6	-5.94	114.43	117.40
1	2	1481	G	O5'-P-OP2	-5.94	100.35	105.70
1	2	1487	G	N7-C8-N9	5.94	116.07	113.10
1	2	1525	G	N1-C2-N2	-5.94	110.85	116.20
1	2	1715	A	C4-C5-C6	5.94	119.97	117.00
36	1	297	G	C4-C5-N7	5.94	113.18	110.80
36	1	345	G	C4-N9-C1'	5.94	134.22	126.50
36	1	747	A	N3-C4-C5	5.94	130.96	126.80
36	1	918	C	O5'-P-OP1	5.94	117.83	110.70
36	1	1045	C	N1-C2-N3	-5.94	115.04	119.20
36	1	1140	G	N3-C2-N2	5.94	124.06	119.90
36	1	1180	A	O5'-P-OP1	-5.94	100.35	105.70
36	1	1305	U	N3-C4-O4	-5.94	115.24	119.40
36	1	1637	A	C6-C5-N7	5.94	136.46	132.30
36	1	1785	U	N3-C2-O2	5.94	126.36	122.20
36	1	2933	A	C4-C5-C6	-5.94	114.03	117.00
36	1	3388	C	O5'-P-OP1	5.94	117.83	110.70
80	6	472	U	C5-C4-O4	5.94	129.46	125.90
80	6	1148	C	C2-N3-C4	-5.94	116.93	119.90
80	6	1460	A	N7-C8-N9	-5.94	110.83	113.80
85	5	815	G	C4-C5-N7	-5.94	108.42	110.80
85	5	2340	U	N1-C2-N3	5.94	118.47	114.90
85	5	2526	C	C6-N1-C2	5.94	122.68	120.30
85	5	2762	A	C4-C5-C6	5.94	119.97	117.00
85	5	3147	G	O5'-P-OP2	-5.94	100.35	105.70
37	7	101	G	C2-N3-C4	-5.94	108.93	111.90
38	8	12	A	P-O3'-C3'	-5.94	112.57	119.70
1	2	1779	C	N3-C4-N4	5.94	122.16	118.00
36	1	519	A	C2-N3-C4	-5.94	107.63	110.60
36	1	831	G	C5-N7-C8	5.94	107.27	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1365	G	O5'-P-OP1	-5.94	100.36	105.70
36	1	2700	G	C6-C5-N7	-5.94	126.84	130.40
36	1	2725	U	N3-C4-C5	-5.94	111.04	114.60
36	1	2759	U	OP1-P-OP2	-5.94	110.69	119.60
76	Q0	96	CYS	CA-CB-SG	5.94	124.69	114.00
80	6	1120	U	N1-C2-O2	-5.94	118.64	122.80
80	6	1586	A	C5-C6-N1	-5.94	114.73	117.70
85	5	1108	U	O5'-P-OP2	-5.94	100.36	105.70
85	5	1572	U	C2-N3-C4	5.94	130.56	127.00
85	5	2538	U	C6-N1-C2	-5.94	117.44	121.00
1	2	988	A	C5-C6-N6	5.94	128.45	123.70
36	1	265	A	C2-N3-C4	-5.94	107.63	110.60
36	1	367	A	OP1-P-O3'	5.94	118.26	105.20
36	1	1111	U	OP1-P-O3'	5.94	118.26	105.20
36	1	1135	A	C4-C5-C6	5.94	119.97	117.00
36	1	1392	G	N7-C8-N9	-5.94	110.13	113.10
36	1	1447	G	N3-C4-C5	-5.94	125.63	128.60
36	1	2331	C	OP1-P-O3'	5.94	118.26	105.20
36	1	2712	U	N1-C2-N3	5.94	118.46	114.90
36	1	2756	C	OP1-P-OP2	-5.94	110.69	119.60
36	1	2922	G	OP1-P-O3'	5.94	118.26	105.20
36	1	3127	A	C4-C5-N7	5.94	113.67	110.70
36	1	3137	C	C5-C4-N4	-5.94	116.04	120.20
38	4	153	U	C6-N1-C2	5.94	124.56	121.00
80	6	4	C	C5-C4-N4	5.94	124.36	120.20
80	6	69	G	C5-C6-N1	5.94	114.47	111.50
80	6	477	A	N3-C4-C5	5.94	130.96	126.80
80	6	556	A	C2-N3-C4	-5.94	107.63	110.60
80	6	880	C	N1-C2-O2	-5.94	115.34	118.90
85	5	10	C	C6-N1-C2	-5.94	117.92	120.30
85	5	236	G	N3-C4-N9	-5.94	122.44	126.00
85	5	281	G	N1-C6-O6	5.94	123.46	119.90
85	5	379	C	C2-N3-C4	5.94	122.87	119.90
85	5	1241	U	OP1-P-O3'	5.94	118.27	105.20
85	5	1480	G	N3-C2-N2	-5.94	115.74	119.90
85	5	1836	C	OP1-P-OP2	-5.94	110.69	119.60
85	5	2116	G	C5-N7-C8	-5.94	101.33	104.30
85	5	2213	A	N7-C8-N9	-5.94	110.83	113.80
85	5	2878	G	OP1-P-O3'	5.94	118.26	105.20
85	5	3001	C	C6-N1-C2	5.94	122.67	120.30
85	5	3027	A	N9-C4-C5	5.94	108.17	105.80
36	1	942	U	C5-C4-O4	5.94	129.46	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	M6	94	ARG	NE-CZ-NH1	-5.94	117.33	120.30
80	6	89	G	N1-C2-N3	-5.94	120.34	123.90
80	6	791	A	C5-N7-C8	-5.94	100.93	103.90
80	6	1244	A	N1-C6-N6	-5.94	115.04	118.60
85	5	420	G	N1-C2-N2	-5.94	110.86	116.20
85	5	869	G	P-O3'-C3'	-5.94	112.58	119.70
85	5	2297	U	C2-N3-C4	-5.94	123.44	127.00
85	5	2639	G	C4-C5-C6	5.94	122.36	118.80
85	5	2998	U	OP1-P-O3'	5.94	118.26	105.20
85	5	3008	A	P-O3'-C3'	-5.94	112.58	119.70
85	5	3306	U	C4-C5-C6	-5.94	116.14	119.70
1	2	586	G	C4-C5-N7	-5.93	108.43	110.80
1	2	635	A	O5'-P-OP2	-5.93	100.36	105.70
1	2	1784	U	C6-N1-C2	-5.93	117.44	121.00
36	1	621	A	C4-C5-N7	5.93	113.67	110.70
36	1	712	G	C6-C5-N7	-5.93	126.84	130.40
36	1	1841	A	C8-N9-C4	5.93	108.17	105.80
36	1	1898	G	C8-N9-C4	-5.93	104.03	106.40
36	1	2099	A	C4-C5-N7	-5.93	107.73	110.70
36	1	2127	U	C2-N3-C4	-5.93	123.44	127.00
36	1	2339	C	C6-N1-C2	5.93	122.67	120.30
36	1	2413	A	N7-C8-N9	5.93	116.77	113.80
36	1	2822	U	C6-N1-C2	-5.93	117.44	121.00
36	1	2849	C	N3-C4-C5	-5.93	119.53	121.90
36	1	3221	C	OP1-P-OP2	5.93	128.50	119.60
36	1	3269	U	O5'-P-OP2	-5.93	100.36	105.70
37	3	99	G	C5-C6-O6	5.93	132.16	128.60
80	6	595	G	C2-N3-C4	-5.93	108.93	111.90
80	6	1724	U	OP1-P-OP2	-5.93	110.70	119.60
85	5	197	G	N3-C4-C5	-5.93	125.63	128.60
85	5	737	G	N1-C2-N3	5.93	127.46	123.90
85	5	1343	A	N3-C4-N9	-5.93	122.65	127.40
85	5	1625	A	N9-C4-C5	-5.93	103.43	105.80
85	5	2795	U	N1-C2-O2	-5.93	118.64	122.80
85	5	2910	A	N1-C2-N3	5.93	132.27	129.30
1	2	8	U	N3-C4-O4	5.93	123.55	119.40
1	2	77	U	N1-C2-O2	5.93	126.95	122.80
1	2	1370	G	O5'-P-OP2	5.93	117.82	110.70
1	2	1651	G	O5'-P-OP2	-5.93	100.36	105.70
36	1	316	U	C6-N1-C2	-5.93	117.44	121.00
36	1	368	G	N3-C2-N2	5.93	124.05	119.90
36	1	410	U	OP1-P-OP2	-5.93	110.70	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1048	A	C5-C6-N6	5.93	128.45	123.70
36	1	1082	U	C5-C6-N1	5.93	125.67	122.70
36	1	1348	U	O5'-P-OP1	-5.93	100.36	105.70
36	1	2171	G	N1-C6-O6	5.93	123.46	119.90
36	1	2445	A	C2-N3-C4	5.93	113.57	110.60
38	4	23	U	O5'-P-OP1	-5.93	100.36	105.70
80	6	101	U	C2-N1-C1'	5.93	124.82	117.70
80	6	348	U	OP1-P-OP2	5.93	128.50	119.60
80	6	722	G	C4-C5-N7	5.93	113.17	110.80
80	6	834	G	C8-N9-C4	5.93	108.77	106.40
80	6	1027	A	N9-C4-C5	-5.93	103.43	105.80
80	6	1558	U	N1-C2-O2	-5.93	118.65	122.80
85	5	310	U	C6-N1-C2	-5.93	117.44	121.00
85	5	1062	A	C5-C6-N6	5.93	128.44	123.70
85	5	1065	A	C8-N9-C4	5.93	108.17	105.80
85	5	1096	U	N3-C4-O4	5.93	123.55	119.40
85	5	1151	U	OP2-P-O3'	5.93	118.25	105.20
85	5	1165	A	P-O3'-C3'	-5.93	112.58	119.70
85	5	1212	A	N1-C2-N3	5.93	132.27	129.30
85	5	1502	C	N3-C4-C5	5.93	124.27	121.90
37	7	24	A	C2-N3-C4	-5.93	107.63	110.60
38	8	112	U	C6-N1-C2	5.93	124.56	121.00
43	16	65	ILE	C-N-CA	-5.93	106.87	121.70
36	1	756	U	O5'-P-OP2	-5.93	100.36	105.70
36	1	1637	A	O4'-C1'-N9	-5.93	103.45	108.20
80	6	359	A	C5-N7-C8	-5.93	100.94	103.90
85	5	286	U	N3-C4-O4	5.93	123.55	119.40
85	5	333	G	C4-C5-C6	5.93	122.36	118.80
85	5	1160	C	C5-C6-N1	-5.93	118.03	121.00
85	5	3118	C	N3-C4-C5	5.93	124.27	121.90
1	2	1093	G	C8-N9-C4	5.93	108.77	106.40
1	2	1415	U	O5'-P-OP2	5.93	117.81	110.70
36	1	316	U	N3-C4-C5	-5.93	111.04	114.60
36	1	851	C	O5'-P-OP2	-5.93	100.36	105.70
36	1	1643	A	O5'-P-OP1	5.93	117.82	110.70
36	1	1719	G	C5-C6-N1	-5.93	108.53	111.50
36	1	1847	A	C4-C5-C6	5.93	119.97	117.00
36	1	2533	G	C4-C5-C6	-5.93	115.24	118.80
36	1	2534	G	C2-N3-C4	5.93	114.86	111.90
38	4	135	G	C6-C5-N7	-5.93	126.84	130.40
80	6	282	C	N1-C2-O2	-5.93	115.34	118.90
80	6	388	G	C2-N3-C4	-5.93	108.94	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	764	U	C6-N1-C2	-5.93	117.44	121.00
80	6	815	G	C2-N3-C4	5.93	114.86	111.90
85	5	1070	U	OP1-P-OP2	-5.93	110.71	119.60
85	5	1213	G	C2-N3-C4	-5.93	108.94	111.90
85	5	1608	C	N3-C4-N4	5.93	122.15	118.00
85	5	1787	A	N1-C6-N6	5.93	122.16	118.60
85	5	1801	U	N1-C2-N3	5.93	118.46	114.90
85	5	2941	A	C5-C6-N6	5.93	128.44	123.70
37	7	74	C	O5'-P-OP2	5.93	117.81	110.70
38	8	140	G	N9-C4-C5	5.93	107.77	105.40
1	2	120	U	N3-C2-O2	5.93	126.35	122.20
1	2	330	G	N1-C6-O6	-5.93	116.34	119.90
36	1	407	A	C5-C6-N6	-5.93	118.96	123.70
36	1	985	U	C2-N3-C4	-5.93	123.44	127.00
36	1	2367	A	C5-C6-N6	-5.93	118.96	123.70
36	1	2383	C	N3-C4-C5	5.93	124.27	121.90
51	M5	199	LEU	CB-CG-CD1	-5.93	100.92	111.00
80	6	63	G	OP1-P-OP2	5.93	128.49	119.60
85	5	1428	A	C4-C5-N7	-5.93	107.74	110.70
85	5	1912	U	C6-N1-C2	5.93	124.56	121.00
1	2	102	U	N3-C4-O4	5.93	123.55	119.40
1	2	192	U	C6-N1-C2	-5.93	117.44	121.00
1	2	645	C	C5-C6-N1	5.93	123.96	121.00
1	2	819	U	N1-C2-N3	-5.93	111.34	114.90
1	2	977	G	C4-C5-N7	-5.93	108.43	110.80
1	2	1145	C	OP1-P-OP2	-5.93	110.71	119.60
1	2	1707	U	N3-C4-O4	5.93	123.55	119.40
36	1	280	U	C2-N3-C4	-5.93	123.44	127.00
36	1	703	G	N3-C4-C5	-5.93	125.64	128.60
36	1	809	G	C6-C5-N7	-5.93	126.84	130.40
36	1	2381	G	N3-C2-N2	-5.93	115.75	119.90
36	1	2575	G	N1-C2-N2	5.93	121.53	116.20
36	1	2933	A	C8-N9-C4	-5.93	103.43	105.80
36	1	3044	G	N1-C2-N3	5.93	127.46	123.90
36	1	3146	G	C5-C6-N1	-5.93	108.54	111.50
37	3	13	A	C6-C5-N7	-5.93	128.15	132.30
80	6	116	U	OP1-P-OP2	5.93	128.49	119.60
80	6	387	A	C4-C5-N7	-5.93	107.74	110.70
80	6	994	G	C6-C5-N7	-5.93	126.84	130.40
80	6	1004	U	N1-C2-O2	-5.93	118.65	122.80
80	6	1650	U	N3-C2-O2	5.93	126.35	122.20
80	6	1681	A	N3-C4-C5	5.93	130.95	126.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1006	A	C5-N7-C8	5.93	106.86	103.90
85	5	1469	C	O5'-P-OP2	-5.93	100.37	105.70
85	5	2762	A	C5-N7-C8	-5.93	100.94	103.90
85	5	2796	G	OP1-P-OP2	5.93	128.49	119.60
85	5	2959	C	C2-N3-C4	-5.93	116.94	119.90
1	2	195	G	O5'-P-OP1	-5.92	100.37	105.70
1	2	222	A	N9-C4-C5	-5.92	103.43	105.80
1	2	421	A	N1-C6-N6	5.92	122.16	118.60
1	2	686	G	C5-C6-N1	-5.92	108.54	111.50
1	2	843	U	C5-C6-N1	5.92	125.66	122.70
36	1	4	U	C5-C6-N1	5.92	125.66	122.70
36	1	15	C	OP1-P-OP2	-5.92	110.71	119.60
36	1	319	A	C5-N7-C8	5.92	106.86	103.90
36	1	769	G	C8-N9-C1'	-5.92	119.30	127.00
36	1	2343	C	C5-C6-N1	-5.92	118.04	121.00
36	1	2616	C	N1-C2-O2	5.92	122.45	118.90
36	1	2777	G	N3-C2-N2	-5.92	115.75	119.90
36	1	3262	U	OP2-P-O3'	5.92	118.23	105.20
36	1	3269	U	C5-C4-O4	5.92	129.46	125.90
36	1	3286	G	N3-C4-N9	5.92	129.56	126.00
80	6	170	U	O5'-P-OP2	5.92	117.81	110.70
80	6	337	G	C5-N7-C8	-5.92	101.34	104.30
80	6	381	C	C6-N1-C2	-5.92	117.93	120.30
80	6	1548	G	C5-C6-O6	5.92	132.16	128.60
85	5	221	A	N1-C2-N3	5.92	132.26	129.30
85	5	858	A	O5'-P-OP2	-5.92	100.37	105.70
85	5	1295	G	N3-C4-N9	-5.92	122.44	126.00
85	5	3019	U	C4-C5-C6	-5.92	116.14	119.70
85	5	3354	U	N3-C4-C5	-5.92	111.05	114.60
37	7	7	G	O5'-P-OP2	5.92	117.81	110.70
37	7	22	A	O5'-P-OP2	-5.92	100.37	105.70
1	2	1793	G	N3-C4-C5	-5.92	125.64	128.60
36	1	720	A	N9-C4-C5	5.92	108.17	105.80
36	1	1589	A	C4-C5-C6	5.92	119.96	117.00
36	1	1603	A	OP1-P-O3'	5.92	118.23	105.20
36	1	2271	A	N1-C6-N6	-5.92	115.05	118.60
36	1	2592	G	N9-C4-C5	-5.92	103.03	105.40
85	5	2842	U	N3-C2-O2	-5.92	118.05	122.20
37	7	55	A	C5-N7-C8	-5.92	100.94	103.90
1	2	1243	U	N3-C2-O2	5.92	126.34	122.20
1	2	1281	U	C6-N1-C2	-5.92	117.45	121.00
1	2	1544	U	C5-C6-N1	5.92	125.66	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	356	C	N3-C4-N4	5.92	122.14	118.00
36	1	358	G	C4-C5-C6	-5.92	115.25	118.80
36	1	501	A	C8-N9-C4	5.92	108.17	105.80
36	1	944	C	N1-C2-O2	-5.92	115.35	118.90
36	1	1599	G	N1-C6-O6	5.92	123.45	119.90
36	1	2400	G	N3-C4-N9	5.92	129.55	126.00
36	1	2928	C	N1-C2-N3	5.92	123.34	119.20
80	6	346	G	C6-C5-N7	-5.92	126.85	130.40
85	5	645	A	O5'-P-OP1	5.92	117.81	110.70
85	5	1634	G	N3-C4-C5	5.92	131.56	128.60
85	5	1656	A	OP1-P-O3'	5.92	118.23	105.20
85	5	1808	G	C5-C6-N1	-5.92	108.54	111.50
85	5	1848	G	N3-C4-N9	5.92	129.55	126.00
85	5	2096	A	C4-C5-N7	5.92	113.66	110.70
85	5	2346	C	N3-C2-O2	5.92	126.05	121.90
85	5	2649	A	C4-C5-N7	5.92	113.66	110.70
1	2	73	U	O4'-C1'-N1	5.92	112.94	108.20
1	2	1483	C	C2-N3-C4	5.92	122.86	119.90
36	1	1175	C	OP1-P-O3'	-5.92	92.17	105.20
36	1	1188	U	O5'-P-OP1	5.92	117.80	110.70
36	1	1269	U	C5-C6-N1	5.92	125.66	122.70
36	1	1424	C	OP1-P-O3'	-5.92	92.18	105.20
36	1	1473	G	N3-C4-C5	5.92	131.56	128.60
36	1	2317	A	N1-C6-N6	-5.92	115.05	118.60
85	5	2261	G	C2-N3-C4	-5.92	108.94	111.90
37	7	72	A	N3-C4-C5	-5.92	122.66	126.80
1	2	921	G	N7-C8-N9	5.92	116.06	113.10
1	2	1137	G	N7-C8-N9	5.92	116.06	113.10
36	1	60	A	N1-C2-N3	5.92	132.26	129.30
36	1	172	G	N9-C4-C5	-5.92	103.03	105.40
36	1	1439	U	C6-N1-C2	-5.92	117.45	121.00
36	1	2824	G	C6-C5-N7	-5.92	126.85	130.40
36	1	2993	G	N1-C2-N2	-5.92	110.87	116.20
36	1	3093	C	N3-C4-N4	5.92	122.14	118.00
37	3	112	G	C5-C6-N1	5.92	114.46	111.50
80	6	232	U	C5-C6-N1	5.92	125.66	122.70
80	6	239	C	C4-C5-C6	-5.92	114.44	117.40
80	6	1728	A	C4-C5-N7	5.92	113.66	110.70
85	5	131	C	C5-C4-N4	5.92	124.34	120.20
85	5	777	U	N1-C2-N3	-5.92	111.35	114.90
85	5	951	A	C5-C6-N6	5.92	128.43	123.70
85	5	1265	U	O5'-P-OP1	-5.92	100.37	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2346	C	N1-C2-O2	-5.92	115.35	118.90
85	5	2751	G	O5'-P-OP1	-5.92	100.37	105.70
85	5	3028	G	C2-N3-C4	-5.92	108.94	111.90
38	8	5	U	O5'-P-OP2	-5.92	100.37	105.70
70	o4	44	CYS	CA-CB-SG	5.92	124.65	114.00
1	2	370	A	C5-N7-C8	5.92	106.86	103.90
1	2	798	G	N1-C6-O6	5.92	123.45	119.90
1	2	917	C	N3-C2-O2	-5.92	117.76	121.90
1	2	1090	G	N3-C2-N2	-5.92	115.76	119.90
1	2	1744	U	C6-N1-C2	-5.92	117.45	121.00
36	1	18	G	OP2-P-O3'	5.92	118.22	105.20
36	1	336	A	N1-C2-N3	-5.92	126.34	129.30
36	1	363	G	C4-C5-N7	5.92	113.17	110.80
36	1	1518	U	C4-C5-C6	5.92	123.25	119.70
36	1	1704	A	N7-C8-N9	-5.92	110.84	113.80
36	1	1843	C	C6-N1-C1'	-5.92	113.70	120.80
36	1	2387	A	C6-N1-C2	5.92	122.15	118.60
36	1	2415	C	C2-N3-C4	-5.92	116.94	119.90
36	1	2577	C	C4-C5-C6	5.92	120.36	117.40
36	1	3015	G	OP1-P-OP2	-5.92	110.73	119.60
80	6	69	G	N1-C2-N2	-5.92	110.88	116.20
85	5	162	G	C2-N3-C4	-5.92	108.94	111.90
85	5	501	A	N1-C2-N3	5.92	132.26	129.30
85	5	658	G	N3-C4-C5	5.92	131.56	128.60
85	5	1063	G	N1-C6-O6	5.92	123.45	119.90
85	5	1178	G	OP1-P-O3'	5.92	118.22	105.20
85	5	1332	A	C5-N7-C8	-5.92	100.94	103.90
85	5	1428	A	OP2-P-O3'	5.92	118.22	105.20
85	5	1478	C	N1-C2-N3	5.92	123.34	119.20
85	5	2134	G	C6-N1-C2	5.92	128.65	125.10
85	5	2172	A	C5-C6-N1	-5.92	114.74	117.70
85	5	2591	A	C6-N1-C2	5.92	122.15	118.60
85	5	2838	A	C5-N7-C8	5.92	106.86	103.90
85	5	2904	U	N3-C4-C5	5.92	118.15	114.60
85	5	3262	U	N1-C2-O2	-5.92	118.66	122.80
38	8	100	U	C5-C4-O4	-5.92	122.35	125.90
36	1	128	G	C5-C6-N1	-5.92	108.54	111.50
36	1	852	U	O5'-P-OP2	-5.92	100.38	105.70
36	1	1673	G	C4-N9-C1'	5.92	134.19	126.50
36	1	2774	C	C6-N1-C2	-5.92	117.93	120.30
80	6	562	G	C8-N9-C4	5.92	108.77	106.40
85	5	1314	C	N1-C2-N3	5.92	123.34	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1771	C	N1-C2-N3	5.92	123.34	119.20
85	5	2549	G	N3-C4-C5	5.92	131.56	128.60
85	5	2705	A	C6-C5-N7	-5.92	128.16	132.30
1	2	1593	G	N1-C2-N3	5.91	127.45	123.90
36	1	32	U	O5'-P-OP1	5.91	117.80	110.70
36	1	57	A	N3-C4-C5	5.91	130.94	126.80
36	1	201	A	N3-C4-N9	-5.91	122.67	127.40
36	1	539	C	N3-C2-O2	5.91	126.04	121.90
36	1	801	A	N1-C2-N3	5.91	132.26	129.30
36	1	2519	A	N1-C2-N3	5.91	132.26	129.30
36	1	2702	A	C8-N9-C4	-5.91	103.44	105.80
36	1	3184	A	N1-C2-N3	-5.91	126.34	129.30
37	3	100	C	N3-C4-C5	-5.91	119.53	121.90
80	6	1495	C	OP1-P-OP2	5.91	128.47	119.60
85	5	372	A	C5-C6-N1	5.91	120.66	117.70
85	5	733	G	C6-N1-C2	5.91	128.65	125.10
85	5	1129	A	N7-C8-N9	5.91	116.76	113.80
85	5	1586	G	N1-C6-O6	-5.91	116.35	119.90
85	5	2374	C	C6-N1-C1'	-5.91	113.70	120.80
85	5	2715	A	C6-C5-N7	-5.91	128.16	132.30
85	5	2751	G	C4-C5-C6	-5.91	115.25	118.80
85	5	2798	C	C2-N3-C4	-5.91	116.94	119.90
85	5	3264	G	O5'-P-OP2	-5.91	100.38	105.70
37	7	21	G	N9-C4-C5	5.91	107.77	105.40
37	7	23	A	N9-C4-C5	5.91	108.17	105.80
38	8	121	U	C2-N1-C1'	5.91	124.80	117.70
1	2	220	A	C5-C6-N6	-5.91	118.97	123.70
1	2	1656	G	C2-N3-C4	-5.91	108.94	111.90
1	2	1658	C	C6-N1-C2	-5.91	117.94	120.30
36	1	1124	U	N3-C4-O4	-5.91	115.26	119.40
36	1	1765	U	N1-C2-O2	5.91	126.94	122.80
36	1	2570	U	N1-C2-O2	5.91	126.94	122.80
36	1	3058	U	C4-C5-C6	5.91	123.25	119.70
80	6	816	G	N1-C2-N3	-5.91	120.35	123.90
85	5	1192	C	C2-N3-C4	-5.91	116.94	119.90
85	5	1357	G	C5-N7-C8	-5.91	101.34	104.30
85	5	1572	U	C5-C6-N1	5.91	125.66	122.70
85	5	2174	G	C8-N9-C4	5.91	108.77	106.40
1	2	114	C	N3-C2-O2	-5.91	117.76	121.90
1	2	115	G	OP1-P-OP2	-5.91	110.73	119.60
1	2	157	A	C8-N9-C4	5.91	108.16	105.80
1	2	196	G	C6-N1-C2	-5.91	121.55	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1298	U	N1-C2-N3	5.91	118.45	114.90
1	2	1487	G	C4-C5-N7	5.91	113.16	110.80
1	2	1799	C	C5-C6-N1	5.91	123.95	121.00
36	1	85	A	OP2-P-O3'	5.91	118.20	105.20
36	1	178	U	C6-N1-C2	-5.91	117.45	121.00
36	1	1300	G	C5-C6-N1	5.91	114.45	111.50
36	1	2116	G	N9-C4-C5	5.91	107.77	105.40
36	1	2532	U	N1-C2-N3	5.91	118.45	114.90
36	1	2662	G	N1-C2-N2	-5.91	110.88	116.20
36	1	2700	G	C5-C6-N1	5.91	114.45	111.50
36	1	2917	G	N1-C2-N2	5.91	121.52	116.20
36	1	3022	G	OP2-P-O3'	5.91	118.20	105.20
36	1	3173	G	C5-C6-O6	-5.91	125.05	128.60
38	4	131	A	C2-N3-C4	5.91	113.56	110.60
80	6	241	U	N3-C2-O2	5.91	126.34	122.20
80	6	272	U	OP1-P-OP2	-5.91	110.73	119.60
85	5	2110	G	C5-C6-O6	5.91	132.15	128.60
85	5	2887	A	C6-N1-C2	-5.91	115.05	118.60
37	7	96	U	N1-C2-N3	5.91	118.45	114.90
1	2	311	U	N3-C4-C5	-5.91	111.06	114.60
1	2	606	A	N9-C4-C5	-5.91	103.44	105.80
1	2	1249	U	C2-N3-C4	5.91	130.54	127.00
1	2	1362	C	C5-C6-N1	5.91	123.95	121.00
36	1	325	A	N1-C2-N3	-5.91	126.35	129.30
36	1	545	U	N1-C2-O2	5.91	126.94	122.80
36	1	597	G	N3-C4-C5	-5.91	125.65	128.60
36	1	953	G	C6-C5-N7	-5.91	126.86	130.40
36	1	1028	U	N3-C4-O4	5.91	123.54	119.40
36	1	1292	C	O5'-P-OP2	-5.91	100.38	105.70
36	1	1634	G	N1-C2-N3	5.91	127.45	123.90
36	1	1653	G	C8-N9-C4	5.91	108.76	106.40
36	1	1776	G	O5'-P-OP2	5.91	117.79	110.70
36	1	2894	C	C5-C6-N1	-5.91	118.05	121.00
38	4	108	C	N3-C2-O2	5.91	126.04	121.90
80	6	1041	G	C6-C5-N7	-5.91	126.86	130.40
80	6	1755	A	P-O3'-C3'	5.91	126.79	119.70
85	5	433	A	C6-C5-N7	-5.91	128.16	132.30
85	5	602	A	O5'-P-OP1	5.91	117.79	110.70
85	5	936	A	N7-C8-N9	5.91	116.75	113.80
85	5	1009	A	C6-C5-N7	-5.91	128.16	132.30
85	5	1500	G	C2-N3-C4	-5.91	108.95	111.90
85	5	2769	A	O5'-P-OP1	5.91	117.79	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2863	G	C4-C5-N7	-5.91	108.44	110.80
38	8	58	G	C2-N3-C4	-5.91	108.95	111.90
1	2	773	U	N3-C4-O4	5.91	123.53	119.40
1	2	1610	U	O5'-P-OP1	5.91	117.79	110.70
1	2	1745	A	C2-N3-C4	-5.91	107.65	110.60
36	1	550	A	N1-C6-N6	5.91	122.14	118.60
36	1	1647	A	C2-N3-C4	-5.91	107.65	110.60
36	1	2347	U	O5'-P-OP1	5.91	117.79	110.70
36	1	2514	U	N1-C2-N3	5.91	118.44	114.90
80	6	604	A	C8-N9-C4	5.91	108.16	105.80
80	6	974	A	OP2-P-O3'	5.91	118.19	105.20
80	6	1608	U	C6-N1-C2	-5.91	117.46	121.00
85	5	173	G	C5-C6-N1	5.91	114.45	111.50
85	5	1183	C	O5'-P-OP1	5.91	117.79	110.70
85	5	1202	A	OP2-P-O3'	5.91	118.19	105.20
85	5	2353	G	C4-C5-C6	5.91	122.34	118.80
1	2	1714	A	C8-N9-C4	5.91	108.16	105.80
36	1	391	A	N3-C4-C5	-5.91	122.67	126.80
36	1	741	U	C5-C6-N1	-5.91	119.75	122.70
36	1	868	C	C4-C5-C6	5.91	120.35	117.40
36	1	1146	C	O5'-P-OP2	-5.91	100.39	105.70
36	1	1396	C	N3-C2-O2	5.91	126.03	121.90
36	1	1549	U	N3-C2-O2	-5.91	118.07	122.20
36	1	1658	G	N3-C2-N2	-5.91	115.77	119.90
36	1	2917	G	N1-C2-N3	-5.91	120.36	123.90
36	1	2949	U	N1-C2-O2	5.91	126.93	122.80
36	1	3098	G	N1-C2-N2	-5.91	110.89	116.20
80	6	97	C	N1-C2-O2	-5.91	115.36	118.90
80	6	328	A	OP1-P-OP2	-5.91	110.74	119.60
80	6	872	G	C5-C6-O6	-5.91	125.06	128.60
80	6	1347	U	N1-C2-O2	-5.91	118.67	122.80
85	5	916	G	C4-C5-C6	5.91	122.34	118.80
85	5	1148	G	OP1-P-OP2	-5.91	110.74	119.60
85	5	1769	G	C5-C6-N1	5.91	114.45	111.50
85	5	2115	G	OP1-P-O3'	5.91	118.19	105.20
85	5	3098	G	N3-C2-N2	-5.91	115.77	119.90
37	7	109	G	N3-C4-C5	5.91	131.55	128.60
41	14	98	ARG	NE-CZ-NH1	5.91	123.25	120.30
36	1	413	U	C4-C5-C6	5.90	123.24	119.70
36	1	689	U	N1-C2-O2	5.90	126.93	122.80
36	1	1517	G	C6-C5-N7	-5.90	126.86	130.40
36	1	2585	G	C8-N9-C4	-5.90	104.04	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2609	A	OP2-P-O3'	5.90	118.19	105.20
85	5	211	A	N7-C8-N9	5.90	116.75	113.80
85	5	1139	G	C8-N9-C4	5.90	108.76	106.40
85	5	1179	A	N1-C2-N3	5.90	132.25	129.30
85	5	1179	A	N3-C4-C5	-5.90	122.67	126.80
85	5	2591	A	C8-N9-C4	5.90	108.16	105.80
85	5	2729	U	C2-N1-C1'	-5.90	110.61	117.70
36	1	413	U	N1-C2-N3	5.90	118.44	114.90
36	1	692	A	C5-C6-N1	5.90	120.65	117.70
36	1	1618	G	O5'-P-OP1	5.90	117.78	110.70
36	1	1668	G	C2-N3-C4	-5.90	108.95	111.90
36	1	1688	U	C6-N1-C2	-5.90	117.46	121.00
36	1	2390	A	C8-N9-C4	5.90	108.16	105.80
36	1	2739	A	C6-C5-N7	-5.90	128.17	132.30
36	1	3218	A	OP1-P-OP2	5.90	128.45	119.60
38	4	66	A	N9-C4-C5	5.90	108.16	105.80
41	L4	47	ARG	NE-CZ-NH2	5.90	123.25	120.30
80	6	559	C	O5'-P-OP1	5.90	117.78	110.70
80	6	693	U	C5-C4-O4	-5.90	122.36	125.90
85	5	52	A	N7-C8-N9	-5.90	110.85	113.80
85	5	93	C	C5-C6-N1	5.90	123.95	121.00
85	5	1056	U	C4-C5-C6	-5.90	116.16	119.70
85	5	1100	U	N3-C2-O2	-5.90	118.07	122.20
85	5	1370	G	C8-N9-C4	5.90	108.76	106.40
85	5	2718	U	N1-C2-O2	-5.90	118.67	122.80
85	5	2862	U	OP1-P-OP2	5.90	128.45	119.60
85	5	3219	G	C5-C6-O6	-5.90	125.06	128.60
1	2	1042	U	N1-C2-O2	5.90	126.93	122.80
36	1	429	U	N1-C2-O2	-5.90	118.67	122.80
36	1	1659	U	O5'-P-OP2	-5.90	100.39	105.70
36	1	1680	G	C2-N3-C4	-5.90	108.95	111.90
36	1	1690	C	C5-C4-N4	5.90	124.33	120.20
36	1	2731	U	C5-C6-N1	5.90	125.65	122.70
37	3	63	A	N1-C2-N3	5.90	132.25	129.30
37	3	82	G	C2-N3-C4	-5.90	108.95	111.90
54	M8	127	LEU	CA-CB-CG	5.90	128.87	115.30
80	6	439	U	OP1-P-O3'	5.90	118.18	105.20
80	6	1408	G	N3-C2-N2	-5.90	115.77	119.90
85	5	118	U	C5-C6-N1	-5.90	119.75	122.70
85	5	282	G	OP2-P-O3'	5.90	118.18	105.20
85	5	805	G	C5-C6-N1	5.90	114.45	111.50
85	5	1148	G	C5-C6-N1	5.90	114.45	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1322	U	N3-C4-O4	5.90	123.53	119.40
85	5	1509	A	N7-C8-N9	-5.90	110.85	113.80
85	5	1881	A	O5'-P-OP2	-5.90	100.39	105.70
85	5	1939	G	OP2-P-O3'	5.90	118.18	105.20
85	5	1940	G	N7-C8-N9	5.90	116.05	113.10
85	5	3094	A	N1-C2-N3	5.90	132.25	129.30
85	5	3222	U	C4-C5-C6	-5.90	116.16	119.70
85	5	3295	A	P-O3'-C3'	-5.90	112.62	119.70
85	5	3307	A	N7-C8-N9	5.90	116.75	113.80
59	n3	97	ASP	CB-CG-OD1	-5.90	112.99	118.30
1	2	359	A	N9-C4-C5	-5.90	103.44	105.80
36	1	590	G	N7-C8-N9	5.90	116.05	113.10
36	1	983	A	C4-C5-C6	5.90	119.95	117.00
36	1	1799	A	C4-C5-N7	-5.90	107.75	110.70
36	1	3377	G	N9-C4-C5	-5.90	103.04	105.40
80	6	151	G	N7-C8-N9	5.90	116.05	113.10
85	5	153	U	C5-C4-O4	5.90	129.44	125.90
85	5	780	A	N3-C4-C5	5.90	130.93	126.80
85	5	1907	C	C2-N3-C4	-5.90	116.95	119.90
85	5	2748	A	N9-C4-C5	-5.90	103.44	105.80
1	2	1528	A	N1-C6-N6	5.90	122.14	118.60
36	1	358	G	C8-N9-C1'	5.90	134.67	127.00
36	1	514	G	OP2-P-O3'	5.90	118.18	105.20
36	1	554	A	C2-N3-C4	5.90	113.55	110.60
36	1	1125	U	C4-C5-C6	5.90	123.24	119.70
36	1	1802	C	C6-N1-C2	-5.90	117.94	120.30
36	1	2685	C	N1-C2-O2	-5.90	115.36	118.90
80	6	173	A	N7-C8-N9	5.90	116.75	113.80
80	6	413	U	N3-C2-O2	-5.90	118.07	122.20
80	6	1130	G	N1-C6-O6	5.90	123.44	119.90
80	6	1733	C	C2-N3-C4	-5.90	116.95	119.90
85	5	55	G	OP1-P-OP2	-5.90	110.75	119.60
85	5	214	G	OP1-P-OP2	-5.90	110.75	119.60
85	5	880	G	C8-N9-C4	5.90	108.76	106.40
85	5	922	U	N3-C4-O4	-5.90	115.27	119.40
85	5	1542	G	N3-C4-N9	-5.90	122.46	126.00
85	5	2110	G	C5-C6-N1	-5.90	108.55	111.50
37	7	31	U	N3-C2-O2	-5.90	118.07	122.20
38	8	75	G	O5'-P-OP2	5.90	117.78	110.70
1	2	973	C	OP1-P-OP2	-5.90	110.76	119.60
1	2	1182	G	O5'-P-OP2	5.90	117.78	110.70
36	1	161	G	N1-C2-N2	-5.90	110.89	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	214	G	C5-C6-O6	5.90	132.14	128.60
36	1	272	G	N1-C2-N3	5.90	127.44	123.90
36	1	1116	G	C4-C5-C6	5.90	122.34	118.80
36	1	1849	C	C6-N1-C2	-5.90	117.94	120.30
36	1	2160	G	N9-C4-C5	5.90	107.76	105.40
80	6	1126	G	C2-N3-C4	-5.90	108.95	111.90
85	5	1437	C	OP1-P-OP2	-5.90	110.76	119.60
85	5	1456	A	C2-N3-C4	-5.90	107.65	110.60
85	5	2258	U	OP2-P-O3'	5.90	118.17	105.20
1	2	545	A	OP1-P-OP2	-5.89	110.76	119.60
1	2	1140	A	OP1-P-OP2	-5.89	110.76	119.60
1	2	1261	G	C2-N3-C4	5.89	114.85	111.90
36	1	589	A	OP1-P-OP2	-5.89	110.76	119.60
36	1	763	G	C2-N3-C4	5.89	114.85	111.90
36	1	765	C	C6-N1-C2	5.89	122.66	120.30
36	1	1119	C	N3-C2-O2	5.89	126.03	121.90
36	1	1435	A	O5'-P-OP2	5.89	117.77	110.70
36	1	1919	G	C4-C5-N7	5.89	113.16	110.80
36	1	2407	C	C2-N1-C1'	5.89	125.28	118.80
36	1	2960	C	O5'-P-OP1	5.89	117.77	110.70
36	1	3000	A	N3-C4-N9	-5.89	122.69	127.40
36	1	3063	C	C5-C6-N1	-5.89	118.05	121.00
36	1	3119	U	C5-C6-N1	5.89	125.65	122.70
36	1	3145	C	N3-C2-O2	5.89	126.03	121.90
38	4	109	A	N9-C4-C5	5.89	108.16	105.80
54	M8	165	ILE	CG1-CB-CG2	-5.89	98.43	111.40
80	6	329	G	N7-C8-N9	5.89	116.05	113.10
80	6	1759	C	C6-N1-C2	5.89	122.66	120.30
85	5	119	U	N1-C2-N3	5.89	118.44	114.90
85	5	509	U	C5-C6-N1	-5.89	119.75	122.70
85	5	2401	A	C5-C6-N1	5.89	120.65	117.70
85	5	3199	G	C4-C5-N7	-5.89	108.44	110.80
38	8	3	A	C4-C5-C6	-5.89	114.05	117.00
1	2	1541	U	N3-C2-O2	-5.89	118.08	122.20
1	2	1578	U	N1-C2-N3	5.89	118.44	114.90
36	1	1062	A	C4-C5-N7	5.89	113.65	110.70
36	1	1358	C	OP1-P-OP2	5.89	128.44	119.60
36	1	1730	G	C8-N9-C4	-5.89	104.04	106.40
36	1	3244	A	C4-C5-C6	5.89	119.95	117.00
38	4	41	A	N9-C4-C5	5.89	108.16	105.80
80	6	876	G	O5'-P-OP1	-5.89	100.40	105.70
80	6	1145	U	N3-C2-O2	5.89	126.33	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1296	A	C2-N3-C4	-5.89	107.65	110.60
80	6	1575	G	N1-C2-N3	-5.89	120.36	123.90
85	5	234	G	C6-N1-C2	5.89	128.64	125.10
85	5	576	C	OP1-P-OP2	5.89	128.44	119.60
85	5	746	A	O5'-P-OP2	-5.89	100.40	105.70
85	5	943	U	OP1-P-O3'	5.89	118.17	105.20
85	5	1195	A	C5-C6-N6	5.89	128.41	123.70
85	5	1316	C	N3-C4-N4	5.89	122.12	118.00
85	5	1371	G	OP2-P-O3'	5.89	118.16	105.20
85	5	1496	C	C2-N3-C4	5.89	122.85	119.90
85	5	1945	A	O5'-P-OP1	-5.89	100.40	105.70
85	5	3101	G	C6-N1-C2	-5.89	121.56	125.10
37	7	119	U	O5'-P-OP2	-5.89	100.40	105.70
36	1	953	G	C8-N9-C4	5.89	108.76	106.40
36	1	2201	G	N1-C2-N3	5.89	127.43	123.90
36	1	2694	A	C8-N9-C4	-5.89	103.44	105.80
36	1	2895	G	C2-N3-C4	-5.89	108.95	111.90
80	6	482	U	N3-C4-C5	-5.89	111.07	114.60
80	6	763	G	N1-C2-N3	5.89	127.44	123.90
80	6	1443	U	C4-C5-C6	5.89	123.23	119.70
80	6	1513	G	N1-C6-O6	-5.89	116.36	119.90
80	6	1748	G	N9-C4-C5	-5.89	103.04	105.40
85	5	650	C	N1-C2-N3	5.89	123.32	119.20
85	5	1544	G	C2-N3-C4	-5.89	108.95	111.90
85	5	2173	U	OP2-P-O3'	5.89	118.16	105.20
85	5	2598	G	N1-C2-N3	5.89	127.44	123.90
1	2	897	G	C6-N1-C2	5.89	128.63	125.10
1	2	1372	C	C5-C4-N4	5.89	124.32	120.20
1	2	1760	G	C2-N3-C4	5.89	114.84	111.90
36	1	534	U	N1-C2-O2	5.89	126.92	122.80
36	1	1168	U	C2-N3-C4	-5.89	123.47	127.00
36	1	1284	C	N1-C2-O2	-5.89	115.37	118.90
36	1	1553	U	C5-C6-N1	-5.89	119.76	122.70
36	1	2284	C	C2-N1-C1'	5.89	125.28	118.80
36	1	2871	G	P-O3'-C3'	5.89	126.77	119.70
36	1	3007	U	N3-C4-O4	-5.89	115.28	119.40
36	1	3013	U	N3-C2-O2	5.89	126.32	122.20
36	1	3066	U	C5-C6-N1	-5.89	119.75	122.70
80	6	103	A	C4-C5-C6	5.89	119.94	117.00
80	6	322	G	N7-C8-N9	5.89	116.04	113.10
80	6	1719	A	N1-C2-N3	5.89	132.25	129.30
85	5	1532	C	OP1-P-O3'	5.89	118.16	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2262	A	C5-C6-N6	-5.89	118.99	123.70
85	5	2428	U	N1-C2-N3	5.89	118.43	114.90
85	5	2853	A	OP1-P-O3'	-5.89	92.24	105.20
85	5	3257	C	N1-C2-O2	-5.89	115.37	118.90
1	2	962	A	C5-C6-N1	5.89	120.64	117.70
1	2	1158	U	OP1-P-O3'	5.89	118.16	105.20
36	1	922	U	C5-C6-N1	5.89	125.64	122.70
36	1	946	U	C2-N1-C1'	5.89	124.77	117.70
36	1	1350	A	O5'-P-OP1	-5.89	100.40	105.70
36	1	3027	A	OP1-P-O3'	5.89	118.15	105.20
36	1	3337	G	N1-C2-N2	-5.89	110.90	116.20
38	4	87	G	C4-C5-C6	-5.89	115.27	118.80
85	5	854	G	N1-C2-N2	-5.89	110.90	116.20
1	2	832	C	C6-N1-C2	-5.89	117.94	120.30
1	2	946	A	C5-C6-N1	5.89	120.64	117.70
1	2	1616	A	N1-C2-N3	5.89	132.24	129.30
1	2	1765	A	C5-C6-N6	5.89	128.41	123.70
36	1	61	A	N1-C6-N6	-5.89	115.07	118.60
36	1	92	G	C8-N9-C1'	-5.89	119.35	127.00
36	1	101	G	N3-C2-N2	-5.89	115.78	119.90
36	1	332	C	N3-C4-N4	-5.89	113.88	118.00
36	1	590	G	N1-C2-N2	5.89	121.50	116.20
36	1	729	C	O4'-C1'-N1	5.89	112.91	108.20
36	1	1001	G	C5-C6-O6	5.89	132.13	128.60
36	1	1346	G	N9-C4-C5	5.89	107.75	105.40
36	1	1646	G	N1-C2-N2	-5.89	110.90	116.20
36	1	1807	G	N3-C4-C5	-5.89	125.66	128.60
36	1	1894	U	C6-N1-C2	-5.89	117.47	121.00
36	1	2384	A	C5-N7-C8	-5.89	100.96	103.90
36	1	2421	U	C4-C5-C6	-5.89	116.17	119.70
36	1	2537	U	N3-C2-O2	-5.89	118.08	122.20
36	1	2705	A	N1-C6-N6	-5.89	115.07	118.60
36	1	2845	A	C4-C5-C6	5.89	119.94	117.00
36	1	3243	A	O5'-P-OP1	-5.89	100.40	105.70
37	3	73	C	C5-C6-N1	5.89	123.94	121.00
80	6	557	G	C2-N3-C4	-5.89	108.96	111.90
80	6	790	U	C5-C6-N1	5.89	125.64	122.70
80	6	1617	U	N1-C2-N3	5.89	118.43	114.90
80	6	1750	A	OP1-P-OP2	5.89	128.43	119.60
85	5	163	C	N3-C4-C5	5.89	124.25	121.90
85	5	348	A	C4-C5-C6	5.89	119.94	117.00
85	5	572	A	C6-N1-C2	-5.89	115.07	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	817	A	C4-C5-N7	5.89	113.64	110.70
85	5	865	U	C6-N1-C1'	5.89	129.44	121.20
85	5	1092	C	N3-C2-O2	5.89	126.02	121.90
85	5	1305	U	OP2-P-O3'	5.89	118.15	105.20
85	5	2297	U	N1-C2-N3	5.89	118.43	114.90
85	5	2787	G	C8-N9-C4	-5.89	104.05	106.40
85	5	3345	G	N3-C2-N2	-5.89	115.78	119.90
1	2	584	C	C2-N3-C4	-5.88	116.96	119.90
36	1	274	G	C2-N3-C4	-5.88	108.96	111.90
36	1	821	U	N3-C2-O2	5.88	126.32	122.20
36	1	890	C	C6-N1-C2	-5.88	117.95	120.30
36	1	931	C	N3-C4-C5	5.88	124.25	121.90
36	1	1010	G	C8-N9-C4	5.88	108.75	106.40
36	1	2369	G	OP1-P-O3'	5.88	118.15	105.20
36	1	2535	A	N1-C2-N3	-5.88	126.36	129.30
36	1	2678	A	OP1-P-OP2	5.88	128.43	119.60
36	1	2802	A	N3-C4-C5	5.88	130.92	126.80
36	1	2919	A	C6-C5-N7	-5.88	128.18	132.30
36	1	2991	A	C4-C5-N7	5.88	113.64	110.70
36	1	3351	U	N1-C2-N3	-5.88	111.37	114.90
80	6	608	U	C2-N3-C4	-5.88	123.47	127.00
80	6	1410	A	N1-C2-N3	5.88	132.24	129.30
80	6	1421	A	O5'-P-OP2	-5.88	100.41	105.70
85	5	294	U	O5'-P-OP1	5.88	117.76	110.70
85	5	586	C	OP1-P-OP2	5.88	128.43	119.60
85	5	1082	U	N3-C4-C5	-5.88	111.07	114.60
85	5	1545	A	OP1-P-O3'	5.88	118.14	105.20
85	5	1694	U	N1-C2-N3	5.88	118.43	114.90
85	5	2163	C	N3-C4-N4	5.88	122.12	118.00
85	5	2244	A	C5-C6-N1	5.88	120.64	117.70
85	5	3242	G	O5'-P-OP1	-5.88	100.40	105.70
85	5	3368	U	C5-C4-O4	-5.88	122.37	125.90
85	5	3372	A	N9-C4-C5	5.88	108.15	105.80
37	7	37	G	N3-C4-C5	-5.88	125.66	128.60
1	2	1707	U	C2-N3-C4	5.88	130.53	127.00
1	2	1723	A	O5'-P-OP2	-5.88	100.41	105.70
36	1	496	C	N1-C2-N3	-5.88	115.08	119.20
36	1	1332	A	N1-C2-N3	5.88	132.24	129.30
36	1	1414	G	N1-C2-N2	5.88	121.50	116.20
36	1	1535	A	N7-C8-N9	5.88	116.74	113.80
36	1	1595	U	N3-C2-O2	5.88	126.32	122.20
36	1	1663	C	C5-C6-N1	-5.88	118.06	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1893	A	C4-C5-N7	5.88	113.64	110.70
36	1	1901	A	C5-C6-N6	5.88	128.41	123.70
36	1	2538	U	N3-C2-O2	-5.88	118.08	122.20
36	1	2937	G	N9-C4-C5	-5.88	103.05	105.40
36	1	3026	G	C8-N9-C4	-5.88	104.05	106.40
36	1	3387	U	N1-C2-N3	5.88	118.43	114.90
80	6	14	C	C2-N3-C4	-5.88	116.96	119.90
80	6	93	A	C2-N3-C4	-5.88	107.66	110.60
80	6	1097	U	C6-N1-C2	-5.88	117.47	121.00
80	6	1144	U	N3-C4-O4	5.88	123.52	119.40
80	6	1559	A	N9-C4-C5	5.88	108.15	105.80
85	5	364	G	OP1-P-OP2	-5.88	110.78	119.60
85	5	1454	A	OP1-P-OP2	5.88	128.43	119.60
85	5	1781	C	C5-C4-N4	-5.88	116.08	120.20
85	5	2957	G	C6-N1-C2	-5.88	121.57	125.10
1	2	545	A	C5-C6-N1	5.88	120.64	117.70
1	2	582	U	N3-C2-O2	-5.88	118.08	122.20
1	2	1273	U	OP1-P-OP2	5.88	128.42	119.60
36	1	785	G	C5-N7-C8	-5.88	101.36	104.30
36	1	1142	G	C4-C5-C6	5.88	122.33	118.80
36	1	1599	G	N9-C4-C5	-5.88	103.05	105.40
36	1	2220	A	C5-C6-N1	5.88	120.64	117.70
36	1	2249	G	N1-C2-N3	5.88	127.43	123.90
80	6	858	G	C6-C5-N7	-5.88	126.87	130.40
85	5	393	U	C2-N1-C1'	5.88	124.76	117.70
85	5	530	G	C5-N7-C8	-5.88	101.36	104.30
85	5	628	A	N1-C6-N6	-5.88	115.07	118.60
85	5	1352	A	P-O3'-C3'	5.88	126.76	119.70
85	5	1734	G	C2-N3-C4	-5.88	108.96	111.90
85	5	1800	A	OP2-P-O3'	5.88	118.14	105.20
85	5	2828	G	N1-C6-O6	5.88	123.43	119.90
85	5	2997	G	OP1-P-OP2	5.88	128.42	119.60
1	2	437	A	O5'-P-OP1	5.88	117.76	110.70
1	2	805	U	C5-C6-N1	5.88	125.64	122.70
1	2	1117	C	O5'-P-OP1	5.88	117.76	110.70
36	1	1136	A	C4-C5-N7	-5.88	107.76	110.70
36	1	1406	A	C4-C5-N7	5.88	113.64	110.70
36	1	1648	A	C5-N7-C8	5.88	106.84	103.90
36	1	1678	G	OP1-P-O3'	5.88	118.14	105.20
36	1	1824	U	C2-N3-C4	-5.88	123.47	127.00
36	1	2812	C	OP1-P-O3'	5.88	118.14	105.20
37	3	55	A	N1-C2-N3	5.88	132.24	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	32	C	OP1-P-OP2	-5.88	110.78	119.60
85	5	246	U	N3-C4-C5	5.88	118.13	114.60
85	5	277	G	C4-C5-C6	5.88	122.33	118.80
85	5	290	G	O5'-P-OP1	-5.88	100.41	105.70
85	5	3079	U	C5-C4-O4	5.88	129.43	125.90
1	2	165	G	N1-C6-O6	5.88	123.43	119.90
1	2	442	C	OP1-P-O3'	5.88	118.13	105.20
1	2	654	C	C6-N1-C2	-5.88	117.95	120.30
1	2	884	G	O4'-C1'-N9	5.88	112.90	108.20
1	2	1353	U	P-O3'-C3'	5.88	126.75	119.70
36	1	45	A	N1-C2-N3	5.88	132.24	129.30
36	1	357	A	C5-C6-N1	-5.88	114.76	117.70
36	1	509	U	N3-C2-O2	-5.88	118.08	122.20
36	1	606	C	OP1-P-O3'	5.88	118.13	105.20
36	1	768	C	C5-C4-N4	-5.88	116.08	120.20
36	1	771	A	C6-N1-C2	5.88	122.13	118.60
36	1	799	G	C4-C5-N7	-5.88	108.45	110.80
36	1	1114	U	N3-C4-C5	-5.88	111.07	114.60
36	1	2513	U	C5-C6-N1	-5.88	119.76	122.70
36	1	2542	U	C5-C6-N1	5.88	125.64	122.70
36	1	3173	G	N3-C4-C5	-5.88	125.66	128.60
80	6	480	G	C5-N7-C8	5.88	107.24	104.30
80	6	629	U	C5-C6-N1	-5.88	119.76	122.70
80	6	1291	G	N9-C4-C5	5.88	107.75	105.40
80	6	1367	G	C4-C5-N7	5.88	113.15	110.80
85	5	388	G	C8-N9-C4	5.88	108.75	106.40
85	5	886	C	C5-C6-N1	5.88	123.94	121.00
85	5	929	A	C2-N3-C4	5.88	113.54	110.60
85	5	934	G	N9-C4-C5	5.88	107.75	105.40
85	5	1118	C	N3-C4-C5	5.88	124.25	121.90
85	5	2370	G	C8-N9-C4	-5.88	104.05	106.40
85	5	2386	A	C4-C5-C6	5.88	119.94	117.00
1	2	126	A	OP1-P-OP2	5.88	128.41	119.60
1	2	571	G	O5'-P-OP1	-5.88	100.41	105.70
1	2	720	A	N7-C8-N9	-5.88	110.86	113.80
1	2	921	G	C6-C5-N7	-5.88	126.87	130.40
36	1	20	A	N1-C2-N3	5.88	132.24	129.30
36	1	585	A	O5'-P-OP2	-5.88	100.41	105.70
36	1	741	U	C4-C5-C6	5.88	123.23	119.70
36	1	929	A	C5-N7-C8	-5.88	100.96	103.90
36	1	998	A	N1-C6-N6	5.88	122.13	118.60
36	1	1147	G	OP1-P-OP2	-5.88	110.78	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1522	U	N3-C4-C5	5.88	118.13	114.60
36	1	2299	A	N1-C6-N6	-5.88	115.07	118.60
36	1	3201	C	C5-C4-N4	5.88	124.31	120.20
51	M5	162	ARG	NE-CZ-NH2	-5.88	117.36	120.30
80	6	417	A	C4-C5-C6	5.88	119.94	117.00
80	6	466	U	O5'-P-OP2	-5.88	100.41	105.70
80	6	1699	G	C8-N9-C4	5.88	108.75	106.40
85	5	38	U	C6-N1-C2	5.88	124.53	121.00
85	5	813	G	N9-C4-C5	-5.88	103.05	105.40
85	5	960	U	OP2-P-O3'	5.88	118.13	105.20
85	5	1058	U	N1-C2-N3	5.88	118.43	114.90
85	5	1370	G	C2-N3-C4	-5.88	108.96	111.90
85	5	1704	A	N1-C2-N3	5.88	132.24	129.30
85	5	2164	A	C8-N9-C4	-5.88	103.45	105.80
85	5	2251	G	N7-C8-N9	5.88	116.04	113.10
85	5	2647	A	O5'-P-OP1	-5.88	100.41	105.70
37	7	75	G	O4'-C1'-N9	-5.88	103.50	108.20
38	8	133	G	C5-C6-N1	5.88	114.44	111.50
1	2	372	G	C5-C6-N1	-5.88	108.56	111.50
36	1	323	A	C4-C5-N7	-5.88	107.76	110.70
36	1	858	A	N1-C2-N3	5.88	132.24	129.30
36	1	1066	G	N1-C2-N3	5.88	127.42	123.90
36	1	1809	A	C2-N3-C4	-5.88	107.66	110.60
36	1	2184	U	N3-C4-O4	5.88	123.51	119.40
36	1	2230	C	C4-C5-C6	-5.88	114.46	117.40
36	1	2965	U	C2-N1-C1'	5.88	124.75	117.70
36	1	3117	C	N1-C2-O2	-5.88	115.38	118.90
38	4	9	A	N1-C6-N6	-5.88	115.08	118.60
80	6	136	C	N3-C2-O2	5.88	126.01	121.90
80	6	851	U	N3-C2-O2	5.88	126.31	122.20
85	5	349	A	N3-C4-C5	-5.88	122.69	126.80
85	5	1832	C	N3-C2-O2	-5.88	117.79	121.90
1	2	116	U	N1-C2-O2	5.87	126.91	122.80
1	2	387	A	OP1-P-OP2	-5.87	110.79	119.60
1	2	1083	G	C8-N9-C1'	-5.87	119.36	127.00
1	2	1532	C	C4-C5-C6	-5.87	114.46	117.40
36	1	279	U	N3-C4-O4	-5.87	115.29	119.40
36	1	435	C	C5-C4-N4	-5.87	116.09	120.20
36	1	577	C	O5'-P-OP2	-5.87	100.41	105.70
36	1	680	G	C2-N3-C4	-5.87	108.96	111.90
36	1	780	A	N1-C6-N6	-5.87	115.08	118.60
36	1	1698	C	C2-N3-C4	-5.87	116.96	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2701	U	N1-C2-N3	5.87	118.42	114.90
36	1	2947	G	OP1-P-OP2	-5.87	110.79	119.60
56	N0	82	ASP	CB-CG-OD1	-5.87	113.02	118.30
80	6	433	C	C2-N1-C1'	5.87	125.26	118.80
80	6	984	G	N1-C2-N2	5.87	121.49	116.20
80	6	1013	A	C4-C5-N7	5.87	113.64	110.70
80	6	1380	U	C5-C4-O4	5.87	129.42	125.90
85	5	859	G	C8-N9-C4	5.87	108.75	106.40
85	5	1396	C	N3-C4-C5	5.87	124.25	121.90
85	5	1481	A	C6-N1-C2	-5.87	115.08	118.60
85	5	1772	U	N1-C2-O2	-5.87	118.69	122.80
85	5	2907	G	C4-C5-C6	5.87	122.32	118.80
85	5	3218	A	C2-N3-C4	-5.87	107.66	110.60
85	5	3298	C	OP1-P-OP2	-5.87	110.79	119.60
38	8	135	G	N7-C8-N9	-5.87	110.16	113.10
1	2	51	A	O5'-P-OP2	5.87	117.75	110.70
1	2	428	A	C5-C6-N1	5.87	120.64	117.70
1	2	627	C	N1-C2-O2	-5.87	115.38	118.90
1	2	1380	U	C6-N1-C2	5.87	124.52	121.00
1	2	1711	A	C5-C6-N6	5.87	128.40	123.70
36	1	771	A	N3-C4-C5	5.87	130.91	126.80
36	1	860	G	N1-C2-N2	5.87	121.48	116.20
36	1	1793	C	OP1-P-OP2	5.87	128.41	119.60
36	1	2119	A	C6-C5-N7	-5.87	128.19	132.30
36	1	2349	U	N1-C2-O2	-5.87	118.69	122.80
36	1	2819	A	N7-C8-N9	5.87	116.74	113.80
36	1	2968	G	C4-C5-N7	5.87	113.15	110.80
38	4	92	A	N3-C4-N9	-5.87	122.70	127.40
80	6	8	U	OP1-P-OP2	5.87	128.41	119.60
80	6	291	G	N3-C4-C5	-5.87	125.66	128.60
85	5	692	A	C5-C6-N1	-5.87	114.76	117.70
85	5	2129	U	C5-C4-O4	5.87	129.42	125.90
85	5	2215	A	C5-C6-N1	-5.87	114.76	117.70
85	5	2626	A	C4-C5-C6	5.87	119.94	117.00
85	5	3220	G	N3-C4-C5	-5.87	125.66	128.60
1	2	103	A	C2-N3-C4	-5.87	107.67	110.60
36	1	983	A	N7-C8-N9	-5.87	110.86	113.80
36	1	1137	C	N3-C4-C5	5.87	124.25	121.90
36	1	1421	G	C5-C6-N1	5.87	114.44	111.50
36	1	2303	A	N9-C4-C5	-5.87	103.45	105.80
36	1	2916	U	N3-C4-O4	-5.87	115.29	119.40
36	1	2971	A	C6-N1-C2	-5.87	115.08	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3268	A	C6-C5-N7	-5.87	128.19	132.30
80	6	1108	G	C2-N3-C4	-5.87	108.97	111.90
85	5	258	G	C2-N3-C4	-5.87	108.97	111.90
85	5	2708	C	C6-N1-C2	-5.87	117.95	120.30
85	5	2743	A	OP2-P-O3'	5.87	118.11	105.20
85	5	3004	C	N3-C4-N4	5.87	122.11	118.00
85	5	3200	G	C8-N9-C1'	5.87	134.63	127.00
1	2	1100	U	N3-C4-C5	-5.87	111.08	114.60
1	2	1102	G	N3-C2-N2	5.87	124.01	119.90
36	1	692	A	C6-N1-C2	-5.87	115.08	118.60
36	1	762	U	N3-C4-C5	-5.87	111.08	114.60
36	1	1329	U	N3-C4-C5	-5.87	111.08	114.60
36	1	1412	G	C8-N9-C4	-5.87	104.05	106.40
36	1	1508	C	OP1-P-OP2	-5.87	110.80	119.60
36	1	2530	G	N3-C4-C5	-5.87	125.67	128.60
36	1	2592	G	N1-C6-O6	5.87	123.42	119.90
36	1	2848	G	N7-C8-N9	-5.87	110.17	113.10
36	1	3129	A	C2-N3-C4	-5.87	107.67	110.60
36	1	3133	C	N3-C2-O2	-5.87	117.79	121.90
36	1	3283	U	C2-N1-C1'	-5.87	110.66	117.70
36	1	3285	C	N1-C2-N3	-5.87	115.09	119.20
38	4	38	U	C4-C5-C6	5.87	123.22	119.70
38	4	124	G	C8-N9-C4	-5.87	104.05	106.40
52	M6	88	VAL	CG1-CB-CG2	-5.87	101.51	110.90
80	6	1016	C	N3-C4-C5	-5.87	119.55	121.90
85	5	946	U	N3-C2-O2	5.87	126.31	122.20
85	5	1714	A	C5-N7-C8	-5.87	100.97	103.90
85	5	2093	A	N3-C4-C5	5.87	130.91	126.80
85	5	2558	U	N3-C2-O2	-5.87	118.09	122.20
37	7	110	G	C4-C5-N7	5.87	113.15	110.80
38	8	34	U	O5'-P-OP1	-5.87	100.42	105.70
1	2	175	G	N1-C6-O6	-5.87	116.38	119.90
1	2	386	G	C6-C5-N7	5.87	133.92	130.40
1	2	1413	U	O5'-P-OP2	-5.87	100.42	105.70
1	2	1611	U	C6-N1-C2	-5.87	117.48	121.00
36	1	43	A	N7-C8-N9	-5.87	110.87	113.80
36	1	2166	A	C8-N9-C4	-5.87	103.45	105.80
80	6	926	A	OP2-P-O3'	5.87	118.11	105.20
1	2	362	G	C5-C6-N1	-5.87	108.57	111.50
1	2	817	G	C8-N9-C4	-5.87	104.05	106.40
1	2	975	A	C8-N9-C4	-5.87	103.45	105.80
36	1	310	U	N3-C4-O4	-5.87	115.29	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	576	C	C2-N3-C4	-5.87	116.97	119.90
36	1	724	U	C6-N1-C2	5.87	124.52	121.00
36	1	992	A	N7-C8-N9	5.87	116.73	113.80
36	1	1452	A	N3-C4-C5	5.87	130.91	126.80
36	1	1636	U	C5-C4-O4	-5.87	122.38	125.90
36	1	1856	C	C6-N1-C2	5.87	122.65	120.30
36	1	2377	G	N9-C4-C5	5.87	107.75	105.40
36	1	2386	A	N1-C6-N6	5.87	122.12	118.60
36	1	2591	A	C6-C5-N7	-5.87	128.19	132.30
36	1	3084	C	C6-N1-C2	-5.87	117.95	120.30
37	3	16	U	N3-C2-O2	-5.87	118.09	122.20
80	6	269	G	N7-C8-N9	-5.87	110.17	113.10
80	6	814	A	N7-C8-N9	-5.87	110.87	113.80
80	6	1156	C	N3-C4-N4	5.87	122.11	118.00
85	5	955	U	N3-C4-O4	-5.87	115.29	119.40
85	5	1211	U	N1-C2-N3	-5.87	111.38	114.90
85	5	1451	C	C2-N3-C4	-5.87	116.97	119.90
85	5	1574	C	O5'-P-OP1	-5.87	100.42	105.70
85	5	1867	A	C8-N9-C4	-5.87	103.45	105.80
85	5	1907	C	N3-C2-O2	-5.87	117.79	121.90
85	5	2184	U	OP1-P-OP2	-5.87	110.80	119.60
85	5	2375	G	N1-C6-O6	-5.87	116.38	119.90
85	5	2507	C	C4-C5-C6	-5.87	114.47	117.40
1	2	533	U	N3-C4-C5	-5.86	111.08	114.60
1	2	750	U	N1-C2-O2	5.86	126.90	122.80
1	2	798	G	C5-C6-O6	-5.86	125.08	128.60
1	2	1519	G	C2-N3-C4	5.86	114.83	111.90
1	2	1572	C	N3-C2-O2	-5.86	117.80	121.90
1	2	1637	G	N1-C2-N2	-5.86	110.92	116.20
36	1	237	G	N7-C8-N9	-5.86	110.17	113.10
36	1	415	G	C4-C5-N7	5.86	113.14	110.80
36	1	715	A	C4-C5-C6	5.86	119.93	117.00
36	1	952	A	C6-N1-C2	-5.86	115.08	118.60
36	1	1095	U	N3-C4-O4	-5.86	115.30	119.40
36	1	1183	C	N1-C2-O2	5.86	122.42	118.90
36	1	2363	A	N9-C4-C5	5.86	108.15	105.80
36	1	2682	C	N1-C2-N3	5.86	123.31	119.20
36	1	2929	C	O5'-P-OP2	5.86	117.73	110.70
54	M8	38	ARG	NE-CZ-NH2	-5.86	117.37	120.30
80	6	126	A	C5-C6-N6	5.86	128.39	123.70
80	6	307	G	C5-C6-O6	5.86	132.12	128.60
80	6	837	G	N1-C2-N3	-5.86	120.38	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	931	C	O5'-P-OP2	-5.86	100.42	105.70
80	6	1774	G	N1-C2-N3	5.86	127.42	123.90
85	5	225	C	O4'-C1'-N1	5.86	112.89	108.20
85	5	305	U	O5'-P-OP2	5.86	117.74	110.70
85	5	644	G	C5-N7-C8	5.86	107.23	104.30
85	5	763	G	C5-C6-N1	-5.86	108.57	111.50
85	5	1020	G	N7-C8-N9	5.86	116.03	113.10
85	5	1466	G	C5-N7-C8	5.86	107.23	104.30
85	5	2399	A	N3-C4-N9	-5.86	122.71	127.40
85	5	2697	A	C5-C6-N1	5.86	120.63	117.70
85	5	2778	G	N7-C8-N9	-5.86	110.17	113.10
85	5	3391	A	N9-C4-C5	-5.86	103.45	105.80
1	2	1314	A	C5-C6-N6	-5.86	119.01	123.70
36	1	198	A	O4'-C1'-N9	5.86	112.89	108.20
36	1	854	G	C6-C5-N7	-5.86	126.88	130.40
36	1	1118	C	N3-C2-O2	-5.86	117.80	121.90
36	1	1552	G	N7-C8-N9	5.86	116.03	113.10
36	1	2582	C	C2-N3-C4	5.86	122.83	119.90
73	O7	64	MET	CG-SD-CE	-5.86	90.82	100.20
80	6	168	A	N7-C8-N9	5.86	116.73	113.80
80	6	1588	G	N3-C4-C5	5.86	131.53	128.60
80	6	1683	C	N1-C2-O2	5.86	122.42	118.90
85	5	569	A	C6-N1-C2	-5.86	115.08	118.60
85	5	1855	U	OP1-P-O3'	5.86	118.10	105.20
85	5	2956	A	C2'-C3'-O3'	5.86	123.08	113.70
85	5	3254	G	C5-C6-O6	-5.86	125.08	128.60
85	5	3283	U	N3-C4-O4	5.86	123.50	119.40
1	2	19	A	N1-C2-N3	5.86	132.23	129.30
1	2	1267	C	C2-N3-C4	-5.86	116.97	119.90
36	1	347	G	C5-N7-C8	-5.86	101.37	104.30
36	1	424	G	N1-C2-N2	-5.86	110.93	116.20
36	1	581	U	O4'-C1'-N1	5.86	112.89	108.20
36	1	614	C	C4-C5-C6	-5.86	114.47	117.40
36	1	900	G	N9-C4-C5	5.86	107.74	105.40
36	1	991	G	C5-N7-C8	5.86	107.23	104.30
36	1	1044	U	N3-C4-O4	5.86	123.50	119.40
36	1	1492	G	C5-C6-O6	5.86	132.12	128.60
36	1	1500	G	C5-N7-C8	-5.86	101.37	104.30
36	1	1503	A	C2-N3-C4	-5.86	107.67	110.60
36	1	2395	G	N7-C8-N9	5.86	116.03	113.10
36	1	2660	G	OP1-P-OP2	-5.86	110.81	119.60
36	1	3369	G	C4-C5-N7	5.86	113.14	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	411	C	N1-C2-O2	5.86	122.42	118.90
80	6	689	G	C5-C6-O6	5.86	132.12	128.60
85	5	413	U	C4-C5-C6	5.86	123.22	119.70
85	5	418	A	O5'-P-OP1	5.86	117.73	110.70
85	5	593	C	OP1-P-OP2	5.86	128.39	119.60
85	5	748	U	O4'-C1'-N1	5.86	112.89	108.20
85	5	779	G	C6-C5-N7	-5.86	126.88	130.40
85	5	1112	A	OP1-P-OP2	-5.86	110.81	119.60
85	5	1422	G	C6-N1-C2	-5.86	121.58	125.10
85	5	1715	A	C5-C6-N1	5.86	120.63	117.70
85	5	1922	A	C6-C5-N7	-5.86	128.20	132.30
85	5	2253	G	N1-C6-O6	5.86	123.42	119.90
85	5	2333	C	C6-N1-C2	5.86	122.64	120.30
85	5	2676	A	C5-N7-C8	-5.86	100.97	103.90
85	5	2826	U	P-O3'-C3'	-5.86	112.67	119.70
1	2	372	G	OP2-P-O3'	5.86	118.09	105.20
1	2	1651	G	N3-C2-N2	-5.86	115.80	119.90
36	1	4	U	N3-C4-O4	5.86	123.50	119.40
36	1	204	A	N3-C4-C5	5.86	130.90	126.80
36	1	311	C	OP1-P-O3'	5.86	118.09	105.20
36	1	1666	G	O5'-P-OP2	5.86	117.73	110.70
80	6	981	U	OP2-P-O3'	-5.86	92.31	105.20
80	6	1144	U	N1-C2-N3	5.86	118.42	114.90
85	5	615	U	C5-C6-N1	5.86	125.63	122.70
85	5	2617	U	C5-C4-O4	5.86	129.41	125.90
1	2	63	G	C5-C6-O6	5.86	132.12	128.60
1	2	723	A	C8-N9-C4	5.86	108.14	105.80
1	2	839	A	N1-C2-N3	5.86	132.23	129.30
1	2	1551	C	P-O3'-C3'	5.86	126.73	119.70
36	1	352	A	C4-C5-N7	5.86	113.63	110.70
36	1	687	U	N1-C2-N3	5.86	118.42	114.90
36	1	1509	A	OP1-P-O3'	5.86	118.09	105.20
36	1	1776	G	N7-C8-N9	5.86	116.03	113.10
36	1	1794	G	C5-N7-C8	-5.86	101.37	104.30
36	1	2130	G	N1-C2-N2	-5.86	110.93	116.20
36	1	2552	C	C4-C5-C6	5.86	120.33	117.40
36	1	2682	C	N3-C4-N4	-5.86	113.90	118.00
36	1	2724	U	O4'-C1'-N1	-5.86	103.51	108.20
36	1	2830	G	C4-N9-C1'	5.86	134.11	126.50
36	1	3011	A	O5'-P-OP2	-5.86	100.43	105.70
80	6	11	A	C5-N7-C8	5.86	106.83	103.90
80	6	613	G	C8-N9-C4	-5.86	104.06	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	406	G	N7-C8-N9	5.86	116.03	113.10
85	5	564	G	C4-C5-N7	5.86	113.14	110.80
85	5	730	C	C5-C6-N1	-5.86	118.07	121.00
85	5	939	U	OP2-P-O3'	5.86	118.08	105.20
85	5	1259	A	C6-N1-C2	-5.86	115.09	118.60
85	5	1394	A	OP1-P-O3'	-5.86	92.32	105.20
85	5	1461	A	C4-C5-N7	-5.86	107.77	110.70
85	5	1573	G	N1-C6-O6	-5.86	116.39	119.90
85	5	2203	U	O5'-P-OP1	-5.86	100.43	105.70
85	5	2296	A	O5'-P-OP2	5.86	117.73	110.70
85	5	3153	U	C6-N1-C2	5.86	124.51	121.00
1	2	1119	U	C5-C4-O4	5.86	129.41	125.90
1	2	1161	G	OP1-P-OP2	-5.86	110.82	119.60
1	2	1774	A	C5-C6-N6	-5.86	119.02	123.70
36	1	248	U	C5-C6-N1	5.86	125.63	122.70
36	1	289	A	C6-C5-N7	-5.86	128.20	132.30
36	1	643	U	C2-N1-C1'	5.86	124.73	117.70
36	1	718	G	N3-C4-C5	5.86	131.53	128.60
36	1	941	G	C5-C6-O6	-5.86	125.09	128.60
36	1	1143	A	C8-N9-C4	5.86	108.14	105.80
36	1	1338	C	C5-C6-N1	5.86	123.93	121.00
36	1	1380	G	C4-C5-C6	5.86	122.31	118.80
36	1	1380	G	N3-C4-N9	-5.86	122.49	126.00
36	1	1393	A	C4-C5-N7	-5.86	107.77	110.70
36	1	1510	G	OP1-P-OP2	-5.86	110.82	119.60
36	1	2739	A	O5'-P-OP2	-5.86	100.43	105.70
36	1	3200	G	OP1-P-OP2	5.86	128.38	119.60
80	6	35	U	C2-N3-C4	-5.86	123.49	127.00
80	6	143	G	N1-C2-N2	-5.86	110.93	116.20
85	5	214	G	O5'-P-OP1	5.86	117.73	110.70
85	5	865	U	OP1-P-OP2	-5.86	110.82	119.60
85	5	878	G	N3-C2-N2	5.86	124.00	119.90
85	5	963	G	N3-C2-N2	5.86	124.00	119.90
85	5	1141	C	C5-C6-N1	-5.86	118.07	121.00
85	5	1766	G	C5-C6-N1	5.86	114.43	111.50
85	5	2201	G	C4-C5-N7	-5.86	108.46	110.80
85	5	2270	A	C6-C5-N7	-5.86	128.20	132.30
85	5	2317	A	N7-C8-N9	-5.86	110.87	113.80
85	5	2380	U	N3-C4-C5	-5.86	111.09	114.60
85	5	2676	A	C8-N9-C4	-5.86	103.46	105.80
85	5	3217	C	O4'-C1'-N1	5.86	112.89	108.20
38	8	63	G	C4-C5-C6	5.86	122.31	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	114	G	O5'-P-OP1	-5.86	100.43	105.70
1	2	446	A	N9-C4-C5	5.85	108.14	105.80
1	2	553	G	C8-N9-C4	-5.85	104.06	106.40
1	2	851	G	N1-C6-O6	5.85	123.41	119.90
36	1	224	C	N1-C2-O2	-5.85	115.39	118.90
36	1	515	C	O5'-P-OP1	5.85	117.72	110.70
36	1	954	U	C5-C6-N1	-5.85	119.77	122.70
36	1	1399	A	N1-C6-N6	5.85	122.11	118.60
36	1	2323	G	N1-C2-N3	5.85	127.41	123.90
36	1	3362	A	C4-C5-C6	5.85	119.93	117.00
80	6	240	U	P-O3'-C3'	5.85	126.72	119.70
80	6	778	G	N3-C2-N2	5.85	124.00	119.90
85	5	229	G	C5-C6-N1	-5.85	108.57	111.50
85	5	282	G	N1-C6-O6	-5.85	116.39	119.90
85	5	500	C	N3-C4-C5	5.85	124.24	121.90
85	5	1614	C	N1-C2-O2	-5.85	115.39	118.90
85	5	1648	A	N1-C2-N3	5.85	132.23	129.30
85	5	1804	A	N1-C6-N6	5.85	122.11	118.60
85	5	1843	C	C5-C6-N1	5.85	123.93	121.00
64	n8	132	LYS	CD-CE-NZ	5.85	125.17	111.70
1	2	1082	U	C6-N1-C2	-5.85	117.49	121.00
1	2	1183	G	OP1-P-OP2	5.85	128.38	119.60
1	2	1408	A	C5-C6-N1	5.85	120.63	117.70
1	2	1517	G	N1-C2-N2	-5.85	110.93	116.20
36	1	630	A	OP1-P-OP2	-5.85	110.82	119.60
36	1	871	U	C5-C4-O4	-5.85	122.39	125.90
36	1	2998	U	O5'-P-OP1	-5.85	100.43	105.70
37	3	12	U	O5'-P-OP2	-5.85	100.43	105.70
80	6	299	A	C4-C5-N7	5.85	113.63	110.70
80	6	314	C	C4-C5-C6	5.85	120.33	117.40
80	6	1293	U	C6-N1-C2	-5.85	117.49	121.00
85	5	11	A	N7-C8-N9	5.85	116.73	113.80
85	5	375	A	N3-C4-N9	-5.85	122.72	127.40
85	5	837	A	C6-N1-C2	-5.85	115.09	118.60
85	5	1117	G	C5-C6-O6	-5.85	125.09	128.60
85	5	1436	U	C2-N3-C4	-5.85	123.49	127.00
85	5	1655	G	C4-C5-N7	-5.85	108.46	110.80
85	5	1886	A	N7-C8-N9	5.85	116.73	113.80
85	5	1906	G	C5-C6-N1	5.85	114.43	111.50
85	5	2209	U	O5'-P-OP2	-5.85	100.43	105.70
85	5	2311	G	O5'-P-OP1	-5.85	100.43	105.70
85	5	3122	A	C8-N9-C4	5.85	108.14	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3200	G	N3-C2-N2	-5.85	115.80	119.90
37	7	89	G	N1-C2-N2	-5.85	110.93	116.20
37	7	90	U	C5-C4-O4	-5.85	122.39	125.90
1	2	278	U	N3-C4-C5	-5.85	111.09	114.60
36	1	198	A	C4-C5-N7	5.85	113.63	110.70
36	1	514	G	C6-C5-N7	-5.85	126.89	130.40
36	1	1902	G	O4'-C1'-N9	-5.85	103.52	108.20
37	3	99	G	N3-C2-N2	5.85	124.00	119.90
80	6	872	G	N3-C2-N2	-5.85	115.81	119.90
85	5	26	A	C4-C5-N7	-5.85	107.78	110.70
85	5	53	G	N9-C4-C5	-5.85	103.06	105.40
85	5	517	G	C5-C6-N1	5.85	114.43	111.50
85	5	761	A	N1-C2-N3	-5.85	126.37	129.30
85	5	2609	A	O5'-P-OP2	-5.85	100.43	105.70
85	5	3357	U	N1-C2-O2	5.85	126.90	122.80
38	8	11	C	C5-C6-N1	5.85	123.93	121.00
1	2	992	U	C5-C6-N1	-5.85	119.78	122.70
1	2	1147	G	C5-C6-O6	-5.85	125.09	128.60
36	1	418	A	OP1-P-O3'	-5.85	92.33	105.20
36	1	812	G	C6-N1-C2	-5.85	121.59	125.10
36	1	2863	G	C2-N3-C4	-5.85	108.97	111.90
80	6	16	G	OP1-P-OP2	-5.85	110.83	119.60
80	6	18	C	C5-C4-N4	-5.85	116.11	120.20
80	6	307	G	C5-C6-N1	-5.85	108.58	111.50
80	6	365	G	O4'-C1'-N9	-5.85	103.52	108.20
80	6	1379	C	N3-C2-O2	-5.85	117.81	121.90
85	5	299	G	N9-C4-C5	5.85	107.74	105.40
85	5	903	U	N3-C4-O4	-5.85	115.31	119.40
85	5	947	G	N3-C4-N9	-5.85	122.49	126.00
85	5	965	A	OP2-P-O3'	5.85	118.07	105.20
85	5	1101	G	N3-C4-N9	5.85	129.51	126.00
85	5	2429	G	N1-C2-N2	-5.85	110.94	116.20
85	5	2806	U	C6-N1-C2	5.85	124.51	121.00
38	8	44	A	C8-N9-C4	-5.85	103.46	105.80
38	8	67	U	OP1-P-O3'	5.85	118.07	105.20
38	8	100	U	C6-N1-C2	-5.85	117.49	121.00
1	2	225	A	C8-N9-C4	5.85	108.14	105.80
36	1	24	G	C6-C5-N7	-5.85	126.89	130.40
36	1	136	G	N1-C6-O6	-5.85	116.39	119.90
36	1	207	U	C4-C5-C6	-5.85	116.19	119.70
36	1	340	C	O5'-P-OP1	5.85	117.72	110.70
36	1	1814	A	C8-N9-C4	5.85	108.14	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2277	C	C6-N1-C2	-5.85	117.96	120.30
36	1	2757	U	N3-C4-O4	5.85	123.49	119.40
36	1	2951	G	C5-C6-O6	5.85	132.11	128.60
36	1	2995	A	N7-C8-N9	-5.85	110.88	113.80
37	3	2	G	OP1-P-O3'	5.85	118.06	105.20
38	4	113	U	C5-C4-O4	5.85	129.41	125.90
80	6	387	A	C5-C6-N6	5.85	128.38	123.70
80	6	475	A	N7-C8-N9	5.85	116.72	113.80
80	6	1073	G	N1-C2-N3	5.85	127.41	123.90
80	6	1440	C	C6-N1-C2	-5.85	117.96	120.30
80	6	1491	U	O5'-P-OP1	-5.85	100.44	105.70
85	5	64	G	C4-C5-N7	5.85	113.14	110.80
85	5	663	C	N3-C4-C5	-5.85	119.56	121.90
85	5	1452	A	N3-C4-C5	-5.85	122.71	126.80
85	5	1542	G	C8-N9-C1'	5.85	134.60	127.00
85	5	1753	G	C5-C6-N1	-5.85	108.58	111.50
85	5	3375	A	C4-C5-C6	5.85	119.92	117.00
1	2	961	A	N1-C6-N6	-5.85	115.09	118.60
1	2	1565	U	C6-N1-C2	5.85	124.51	121.00
36	1	19	U	OP2-P-O3'	5.85	118.06	105.20
36	1	2861	U	N3-C2-O2	-5.85	118.11	122.20
36	1	2894	C	N3-C2-O2	-5.85	117.81	121.90
36	1	3015	G	N3-C4-C5	5.85	131.52	128.60
38	4	58	G	N3-C2-N2	5.85	123.99	119.90
80	6	738	G	C5-C6-O6	5.85	132.11	128.60
85	5	213	A	N1-C6-N6	-5.85	115.09	118.60
85	5	1365	G	O5'-P-OP2	5.85	117.72	110.70
85	5	1850	A	N7-C8-N9	5.85	116.72	113.80
37	7	76	A	C4-C5-N7	5.85	113.62	110.70
1	2	959	G	C5-C6-O6	5.84	132.11	128.60
36	1	215	G	N9-C4-C5	5.84	107.74	105.40
36	1	1292	C	N3-C2-O2	5.84	125.99	121.90
36	1	1316	C	C5-C6-N1	-5.84	118.08	121.00
36	1	1355	A	N1-C6-N6	-5.84	115.09	118.60
36	1	2669	G	N3-C4-C5	5.84	131.52	128.60
36	1	2717	U	C2-N3-C4	-5.84	123.49	127.00
36	1	2742	C	N1-C2-O2	-5.84	115.39	118.90
36	1	2910	A	OP2-P-O3'	5.84	118.06	105.20
36	1	3016	A	C6-C5-N7	-5.84	128.21	132.30
36	1	3288	G	N3-C4-C5	5.84	131.52	128.60
36	1	3327	G	C4-C5-N7	-5.84	108.46	110.80
80	6	81	G	C2-N3-C4	-5.84	108.98	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1284	C	O5'-P-OP1	-5.84	100.44	105.70
80	6	1645	G	OP1-P-OP2	-5.84	110.83	119.60
85	5	8	C	N3-C4-C5	-5.84	119.56	121.90
85	5	24	G	OP1-P-OP2	5.84	128.37	119.60
85	5	78	U	N3-C4-C5	-5.84	111.09	114.60
85	5	492	U	OP1-P-OP2	5.84	128.37	119.60
85	5	1140	G	N3-C2-N2	5.84	123.99	119.90
85	5	1865	A	O5'-P-OP1	5.84	117.71	110.70
85	5	2656	A	C4-C5-N7	5.84	113.62	110.70
85	5	2796	G	C5-N7-C8	5.84	107.22	104.30
85	5	3110	C	C2-N1-C1'	-5.84	112.37	118.80
36	1	895	A	N1-C2-N3	5.84	132.22	129.30
36	1	1692	U	C5-C6-N1	5.84	125.62	122.70
36	1	3267	A	C6-N1-C2	-5.84	115.09	118.60
80	6	260	U	OP1-P-OP2	5.84	128.37	119.60
80	6	289	U	C4-C5-C6	5.84	123.21	119.70
80	6	654	C	N1-C2-O2	5.84	122.41	118.90
85	5	76	G	C4-C5-C6	5.84	122.31	118.80
85	5	1395	G	N3-C2-N2	-5.84	115.81	119.90
54	m8	104	LEU	CA-CB-CG	5.84	128.74	115.30
1	2	1180	C	C6-N1-C2	-5.84	117.96	120.30
36	1	356	C	N3-C4-C5	-5.84	119.56	121.90
36	1	697	A	C5-N7-C8	-5.84	100.98	103.90
36	1	939	U	N3-C4-O4	5.84	123.49	119.40
36	1	1088	U	N3-C2-O2	5.84	126.29	122.20
36	1	1301	A	C6-N1-C2	5.84	122.11	118.60
36	1	1392	G	C5-C6-O6	-5.84	125.09	128.60
36	1	1786	G	N7-C8-N9	5.84	116.02	113.10
36	1	1932	A	C6-N1-C2	-5.84	115.09	118.60
36	1	2437	G	C6-N1-C2	-5.84	121.59	125.10
36	1	3188	G	N1-C2-N2	5.84	121.46	116.20
37	3	71	G	N3-C2-N2	5.84	123.99	119.90
38	4	147	U	C5-C6-N1	5.84	125.62	122.70
41	L4	107	ARG	NE-CZ-NH2	5.84	123.22	120.30
80	6	603	U	N3-C4-O4	5.84	123.49	119.40
80	6	1025	A	C4-C5-C6	5.84	119.92	117.00
80	6	1417	A	O5'-P-OP1	-5.84	100.44	105.70
80	6	1549	C	C5-C6-N1	5.84	123.92	121.00
80	6	1601	G	C4-C5-N7	5.84	113.14	110.80
85	5	144	A	OP2-P-O3'	5.84	118.05	105.20
85	5	198	A	N3-C4-C5	5.84	130.89	126.80
85	5	310	U	OP1-P-OP2	-5.84	110.84	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	655	C	N3-C4-N4	5.84	122.09	118.00
85	5	707	U	C2-N3-C4	-5.84	123.50	127.00
85	5	783	A	N9-C4-C5	-5.84	103.46	105.80
85	5	1192	C	N3-C4-C5	5.84	124.24	121.90
85	5	1446	A	C5-C6-N6	5.84	128.37	123.70
85	5	1544	G	N3-C2-N2	-5.84	115.81	119.90
85	5	2134	G	C5-C6-N1	-5.84	108.58	111.50
85	5	2188	A	N3-C4-N9	-5.84	122.73	127.40
85	5	2204	C	N3-C2-O2	-5.84	117.81	121.90
85	5	2281	A	O4'-C1'-N9	5.84	112.87	108.20
85	5	2717	U	C2-N1-C1'	-5.84	110.69	117.70
85	5	3058	U	N3-C4-C5	-5.84	111.09	114.60
85	5	3322	A	N1-C2-N3	5.84	132.22	129.30
85	5	3342	A	C4-C5-C6	5.84	119.92	117.00
37	7	18	C	N1-C2-O2	-5.84	115.39	118.90
38	8	27	U	N1-C2-N3	-5.84	111.39	114.90
71	o5	105	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	2	275	C	N1-C2-N3	-5.84	115.11	119.20
1	2	365	G	N7-C8-N9	5.84	116.02	113.10
1	2	787	A	O5'-P-OP2	-5.84	100.44	105.70
1	2	803	U	C4-C5-C6	-5.84	116.20	119.70
1	2	1470	A	N1-C6-N6	-5.84	115.10	118.60
1	2	1781	U	N1-C2-O2	5.84	126.89	122.80
36	1	230	U	C4-C5-C6	5.84	123.20	119.70
36	1	248	U	C2-N3-C4	5.84	130.50	127.00
36	1	321	C	C2-N3-C4	-5.84	116.98	119.90
36	1	784	A	C4-C5-N7	-5.84	107.78	110.70
36	1	1520	G	C5-N7-C8	5.84	107.22	104.30
36	1	1655	G	N1-C2-N3	5.84	127.40	123.90
36	1	2356	A	C5-C6-N1	-5.84	114.78	117.70
36	1	2902	A	OP1-P-OP2	5.84	128.36	119.60
36	1	3364	C	O5'-P-OP1	-5.84	100.44	105.70
37	3	41	G	C5-C6-O6	-5.84	125.10	128.60
80	6	31	C	C5-C4-N4	5.84	124.29	120.20
80	6	473	A	O5'-P-OP1	5.84	117.71	110.70
80	6	972	G	C6-C5-N7	-5.84	126.90	130.40
85	5	732	C	C6-N1-C2	5.84	122.64	120.30
85	5	943	U	OP1-P-OP2	5.84	128.36	119.60
38	8	24	G	C6-C5-N7	5.84	133.90	130.40
38	8	32	C	O4'-C1'-N1	5.84	112.87	108.20
1	2	913	A	N1-C6-N6	5.84	122.10	118.60
36	1	99	A	C5-C6-N1	5.84	120.62	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	608	A	C4-C5-N7	5.84	113.62	110.70
36	1	1354	G	C5-C6-N1	5.84	114.42	111.50
36	1	1408	G	C8-N9-C4	5.84	108.73	106.40
36	1	1559	A	C8-N9-C4	-5.84	103.47	105.80
36	1	3048	A	C5-C6-N1	-5.84	114.78	117.70
36	1	3074	G	C5-C6-O6	5.84	132.10	128.60
80	6	421	A	N1-C6-N6	5.84	122.10	118.60
85	5	1513	G	C4-C5-C6	5.84	122.30	118.80
85	5	1521	G	C2-N3-C4	5.84	114.82	111.90
85	5	1589	A	N9-C1'-C2'	5.84	121.59	114.00
85	5	3168	A	C5-C6-N1	-5.84	114.78	117.70
1	2	508	U	N1-C2-O2	-5.84	118.71	122.80
1	2	607	G	C8-N9-C4	-5.84	104.07	106.40
36	1	158	G	N1-C6-O6	5.84	123.40	119.90
36	1	268	A	OP1-P-OP2	-5.84	110.84	119.60
36	1	370	U	C2-N3-C4	-5.84	123.50	127.00
36	1	1348	U	N3-C4-C5	5.84	118.10	114.60
36	1	1476	G	C4-C5-N7	-5.84	108.47	110.80
36	1	2341	A	N1-C2-N3	5.84	132.22	129.30
38	4	22	U	N1-C2-N3	5.84	118.40	114.90
38	4	73	U	O5'-P-OP2	-5.84	100.45	105.70
80	6	66	U	N1-C2-O2	-5.84	118.71	122.80
80	6	101	U	C6-N1-C2	-5.84	117.50	121.00
80	6	858	G	N1-C2-N2	-5.84	110.95	116.20
80	6	1401	A	C8-N9-C4	-5.84	103.47	105.80
85	5	672	A	C4-C5-N7	5.84	113.62	110.70
85	5	692	A	C5-C6-N6	-5.84	119.03	123.70
85	5	1525	G	C8-N9-C4	-5.84	104.07	106.40
85	5	2168	A	O5'-P-OP2	-5.84	100.45	105.70
85	5	2234	G	C6-C5-N7	-5.84	126.90	130.40
85	5	2753	G	O5'-P-OP1	-5.84	100.45	105.70
85	5	3034	C	N1-C2-N3	5.84	123.28	119.20
85	5	3186	A	O5'-P-OP2	-5.84	100.45	105.70
1	2	69	G	OP2-P-O3'	5.83	118.04	105.20
1	2	1587	U	N3-C4-O4	5.83	123.48	119.40
36	1	218	G	C6-C5-N7	-5.83	126.90	130.40
36	1	333	G	OP2-P-O3'	5.83	118.04	105.20
85	5	18	G	C2-N3-C4	-5.83	108.98	111.90
85	5	528	U	N1-C2-O2	5.83	126.88	122.80
85	5	735	A	N1-C6-N6	5.83	122.10	118.60
85	5	1881	A	OP1-P-OP2	5.83	128.35	119.60
85	5	2691	A	C6-C5-N7	-5.83	128.22	132.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	295	A	C4-C5-N7	5.83	113.62	110.70
36	1	686	G	C4-C5-N7	-5.83	108.47	110.80
36	1	1465	A	N7-C8-N9	-5.83	110.88	113.80
36	1	2727	A	N7-C8-N9	-5.83	110.88	113.80
36	1	2751	G	C5-C6-N1	-5.83	108.58	111.50
38	4	10	A	C4-C5-C6	5.83	119.92	117.00
38	4	26	U	O4'-C1'-N1	-5.83	103.53	108.20
80	6	611	U	C6-N1-C2	5.83	124.50	121.00
80	6	1597	A	C4-C5-C6	5.83	119.92	117.00
80	6	1738	U	C5-C4-O4	5.83	129.40	125.90
80	6	1764	C	N3-C4-C5	5.83	124.23	121.90
85	5	1057	A	P-O3'-C3'	-5.83	112.70	119.70
85	5	1670	C	N1-C2-O2	5.83	122.40	118.90
85	5	1777	U	C2-N3-C4	5.83	130.50	127.00
85	5	2552	C	C5-C6-N1	5.83	123.92	121.00
85	5	2775	U	OP1-P-O3'	5.83	118.03	105.20
85	5	3127	A	N1-C6-N6	-5.83	115.10	118.60
91	p	74	C	OP1-P-O3'	5.83	118.03	105.20
1	2	718	C	OP1-P-OP2	-5.83	110.85	119.60
1	2	1528	A	C4-C5-N7	5.83	113.61	110.70
1	2	1575	A	OP1-P-OP2	-5.83	110.85	119.60
36	1	234	G	C5-C6-O6	-5.83	125.10	128.60
36	1	534	U	N3-C4-O4	-5.83	115.32	119.40
36	1	1083	G	C5-C6-N1	5.83	114.42	111.50
36	1	1093	A	N1-C6-N6	5.83	122.10	118.60
36	1	1575	A	C8-N9-C4	-5.83	103.47	105.80
36	1	1811	G	C4-C5-N7	-5.83	108.47	110.80
36	1	1862	U	C6-N1-C2	-5.83	117.50	121.00
36	1	2597	U	N1-C2-N3	5.83	118.40	114.90
36	1	3020	U	OP1-P-O3'	5.83	118.03	105.20
36	1	3318	G	N9-C4-C5	5.83	107.73	105.40
36	1	3366	G	N1-C2-N2	-5.83	110.95	116.20
38	4	50	C	C2-N3-C4	-5.83	116.98	119.90
80	6	151	G	N1-C2-N2	5.83	121.45	116.20
80	6	652	G	N1-C2-N2	5.83	121.45	116.20
80	6	987	G	C4-C5-C6	-5.83	115.30	118.80
80	6	1123	C	N3-C2-O2	5.83	125.98	121.90
85	5	96	G	N9-C4-C5	-5.83	103.07	105.40
85	5	136	G	C5-N7-C8	-5.83	101.38	104.30
85	5	781	G	N1-C2-N3	5.83	127.40	123.90
85	5	1172	G	N9-C4-C5	-5.83	103.07	105.40
85	5	2675	C	N3-C2-O2	5.83	125.98	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2756	C	OP2-P-O3'	5.83	118.03	105.20
85	5	2766	U	C5-C4-O4	-5.83	122.40	125.90
85	5	3065	G	N3-C4-C5	5.83	131.51	128.60
85	5	3197	G	C5-C6-N1	-5.83	108.58	111.50
1	2	647	G	C5-C6-N1	-5.83	108.58	111.50
1	2	1182	G	N3-C4-N9	5.83	129.50	126.00
36	1	1351	U	C2-N3-C4	5.83	130.50	127.00
36	1	1949	G	C4-C5-C6	-5.83	115.30	118.80
36	1	2209	U	N1-C2-N3	-5.83	111.40	114.90
36	1	2371	G	N1-C6-O6	-5.83	116.40	119.90
36	1	2848	G	C8-N9-C4	5.83	108.73	106.40
38	4	35	C	N3-C4-N4	5.83	122.08	118.00
80	6	554	C	N3-C4-C5	5.83	124.23	121.90
80	6	608	U	N3-C4-O4	5.83	123.48	119.40
80	6	704	C	N1-C2-N3	-5.83	115.12	119.20
85	5	188	U	C4-C5-C6	-5.83	116.20	119.70
85	5	201	A	C6-C5-N7	-5.83	128.22	132.30
85	5	1489	A	C6-C5-N7	-5.83	128.22	132.30
85	5	2610	G	C8-N9-C4	-5.83	104.07	106.40
85	5	2744	U	N1-C2-O2	5.83	126.88	122.80
85	5	2918	G	C8-N9-C4	-5.83	104.07	106.40
38	8	22	U	N1-C2-N3	-5.83	111.40	114.90
1	2	428	A	C8-N9-C4	-5.83	103.47	105.80
1	2	725	U	C5-C4-O4	5.83	129.40	125.90
1	2	1544	U	C6-N1-C2	-5.83	117.50	121.00
36	1	388	G	OP1-P-O3'	5.83	118.02	105.20
36	1	494	G	N3-C4-C5	-5.83	125.69	128.60
36	1	623	U	OP1-P-OP2	-5.83	110.86	119.60
36	1	820	A	C6-N1-C2	-5.83	115.10	118.60
36	1	867	G	C4-N9-C1'	5.83	134.08	126.50
36	1	908	G	C5-N7-C8	-5.83	101.39	104.30
36	1	985	U	N1-C2-N3	5.83	118.40	114.90
36	1	1291	A	OP1-P-OP2	-5.83	110.86	119.60
36	1	1642	A	N1-C2-N3	5.83	132.21	129.30
36	1	2101	C	C5-C6-N1	-5.83	118.09	121.00
36	1	2251	G	C5-C6-N1	5.83	114.41	111.50
36	1	2885	C	O4'-C1'-N1	-5.83	103.54	108.20
36	1	3219	G	N9-C4-C5	5.83	107.73	105.40
36	1	3284	G	C5-C6-N1	-5.83	108.59	111.50
37	3	102	A	C6-N1-C2	-5.83	115.10	118.60
80	6	275	C	C6-N1-C2	-5.83	117.97	120.30
80	6	1102	G	OP2-P-O3'	5.83	118.02	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1198	G	C6-N1-C2	5.83	128.60	125.10
80	6	1688	U	N3-C4-C5	-5.83	111.10	114.60
85	5	635	G	N1-C2-N3	-5.83	120.40	123.90
85	5	886	C	O4'-C1'-N1	5.83	112.86	108.20
85	5	1405	U	O5'-P-OP1	5.83	117.69	110.70
85	5	1459	C	O5'-P-OP2	-5.83	100.45	105.70
85	5	1558	A	OP1-P-OP2	-5.83	110.86	119.60
85	5	2626	A	C5-C6-N6	5.83	128.36	123.70
85	5	3120	C	OP1-P-O3'	5.83	118.02	105.20
36	1	777	U	N3-C4-C5	-5.83	111.10	114.60
36	1	964	G	N1-C2-N3	-5.83	120.40	123.90
36	1	1439	U	C2-N3-C4	5.83	130.50	127.00
36	1	2788	C	OP1-P-OP2	-5.83	110.86	119.60
36	1	2905	U	N1-C2-O2	-5.83	118.72	122.80
80	6	470	A	C8-N9-C4	-5.83	103.47	105.80
85	5	771	A	N7-C8-N9	5.83	116.71	113.80
85	5	2122	G	C2-N3-C4	-5.83	108.99	111.90
91	P	74	C	OP1-P-O3'	5.83	118.02	105.20
36	1	613	G	N7-C8-N9	5.83	116.01	113.10
36	1	1449	A	N9-C4-C5	5.83	108.13	105.80
36	1	1505	C	C2-N3-C4	-5.83	116.99	119.90
36	1	2396	G	C6-C5-N7	-5.83	126.91	130.40
36	1	2552	C	N1-C2-N3	5.83	123.28	119.20
36	1	2783	U	N3-C2-O2	5.83	126.28	122.20
80	6	137	U	N3-C2-O2	5.83	126.28	122.20
80	6	272	U	P-O3'-C3'	5.83	126.69	119.70
80	6	1482	C	N3-C4-C5	5.83	124.23	121.90
85	5	220	G	C4-C5-N7	5.83	113.13	110.80
85	5	1518	U	C2-N3-C4	5.83	130.50	127.00
85	5	1537	A	O5'-P-OP1	5.83	117.69	110.70
85	5	1574	C	N3-C4-C5	-5.83	119.57	121.90
85	5	1620	U	C5-C4-O4	5.83	129.40	125.90
85	5	1744	G	N3-C4-C5	5.83	131.51	128.60
85	5	2129	U	N3-C2-O2	-5.83	118.12	122.20
85	5	2889	C	N1-C2-O2	5.83	122.39	118.90
42	l5	35	ARG	NE-CZ-NH1	-5.83	117.39	120.30
74	o8	3	ARG	NE-CZ-NH1	5.83	123.21	120.30
1	2	11	A	N1-C2-N3	-5.82	126.39	129.30
1	2	223	U	N3-C2-O2	5.82	126.28	122.20
1	2	1514	G	C2-N3-C4	5.82	114.81	111.90
1	2	1751	G	N3-C4-C5	-5.82	125.69	128.60
36	1	53	G	N1-C6-O6	-5.82	116.41	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	362	U	C5-C4-O4	5.82	129.39	125.90
36	1	1790	G	C8-N9-C4	5.82	108.73	106.40
36	1	1834	U	C5-C4-O4	5.82	129.40	125.90
36	1	2179	C	C2-N1-C1'	5.82	125.21	118.80
36	1	2385	G	C2-N3-C4	5.82	114.81	111.90
36	1	2853	A	N7-C8-N9	5.82	116.71	113.80
36	1	2885	C	C2-N1-C1'	5.82	125.21	118.80
36	1	2898	G	O4'-C1'-N9	-5.82	103.54	108.20
36	1	2937	G	C5-N7-C8	5.82	107.21	104.30
36	1	3380	U	C5-C4-O4	-5.82	122.41	125.90
38	4	96	A	N1-C2-N3	5.82	132.21	129.30
71	O5	43	LYS	CD-CE-NZ	5.82	125.09	111.70
80	6	173	A	C5-C6-N6	-5.82	119.04	123.70
80	6	288	A	OP1-P-OP2	-5.82	110.86	119.60
80	6	930	A	C5-C6-N1	-5.82	114.79	117.70
80	6	941	A	C8-N9-C4	-5.82	103.47	105.80
80	6	1005	A	OP1-P-OP2	-5.82	110.87	119.60
80	6	1490	C	C5-C4-N4	-5.82	116.12	120.20
85	5	97	U	C2-N3-C4	5.82	130.49	127.00
85	5	667	C	N3-C2-O2	5.82	125.98	121.90
85	5	1016	C	C2-N3-C4	5.82	122.81	119.90
85	5	1193	A	N3-C4-N9	-5.82	122.74	127.40
85	5	1227	C	C5-C4-N4	5.82	124.28	120.20
85	5	1576	G	C5-C6-O6	-5.82	125.11	128.60
85	5	2114	C	N1-C2-N3	-5.82	115.12	119.20
85	5	3106	A	C5-C6-N1	5.82	120.61	117.70
37	7	17	A	C2-N3-C4	-5.82	107.69	110.60
53	m7	22	LEU	CB-CG-CD1	-5.82	101.10	111.00
1	2	49	C	OP1-P-O3'	5.82	118.01	105.20
1	2	97	C	C5-C4-N4	5.82	124.28	120.20
1	2	599	A	N3-C4-C5	-5.82	122.72	126.80
1	2	1159	G	C5-N7-C8	-5.82	101.39	104.30
36	1	412	G	N1-C2-N3	5.82	127.39	123.90
36	1	2273	G	C2-N3-C4	-5.82	108.99	111.90
80	6	278	U	N3-C4-C5	5.82	118.09	114.60
80	6	882	U	C5-C6-N1	5.82	125.61	122.70
80	6	913	G	N1-C2-N2	5.82	121.44	116.20
85	5	609	G	N1-C2-N3	5.82	127.39	123.90
85	5	953	G	N1-C6-O6	-5.82	116.41	119.90
85	5	2347	U	N3-C4-O4	5.82	123.47	119.40
37	7	69	C	C6-N1-C2	5.82	122.63	120.30
1	2	86	A	N1-C6-N6	5.82	122.09	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	426	G	OP2-P-O3'	5.82	118.01	105.20
36	1	623	U	N3-C2-O2	5.82	126.27	122.20
36	1	756	U	OP2-P-O3'	5.82	118.00	105.20
36	1	1867	A	C4-C5-C6	5.82	119.91	117.00
36	1	2602	G	C8-N9-C4	5.82	108.73	106.40
36	1	2723	U	N1-C2-O2	-5.82	118.72	122.80
36	1	3349	C	C4-C5-C6	-5.82	114.49	117.40
80	6	315	A	O5'-P-OP1	-5.82	100.46	105.70
80	6	1027	A	C4-C5-N7	5.82	113.61	110.70
80	6	1169	G	C5-C6-O6	5.82	132.09	128.60
80	6	1340	U	N3-C2-O2	-5.82	118.12	122.20
85	5	6	A	C4-C5-N7	-5.82	107.79	110.70
85	5	315	C	O5'-P-OP1	-5.82	100.46	105.70
85	5	429	U	C5-C6-N1	5.82	125.61	122.70
85	5	1105	A	C5-C6-N6	-5.82	119.04	123.70
85	5	1457	U	N1-C2-N3	5.82	118.39	114.90
85	5	1496	C	C5-C6-N1	5.82	123.91	121.00
85	5	1709	C	C5-C4-N4	5.82	124.27	120.20
85	5	1822	C	C6-N1-C2	5.82	122.63	120.30
85	5	2101	C	OP1-P-O3'	5.82	118.00	105.20
85	5	2949	U	C2-N3-C4	5.82	130.49	127.00
85	5	3301	U	O5'-P-OP1	5.82	117.68	110.70
85	5	3316	A	C5-N7-C8	5.82	106.81	103.90
37	7	70	U	C2-N3-C4	5.82	130.49	127.00
38	8	156	U	C5-C6-N1	5.82	125.61	122.70
70	o4	8	ARG	NE-CZ-NH1	-5.82	117.39	120.30
76	q0	115	CYS	CA-CB-SG	5.82	124.48	114.00
1	2	462	G	N3-C2-N2	-5.82	115.83	119.90
36	1	882	A	C2-N3-C4	-5.82	107.69	110.60
36	1	1943	C	N3-C2-O2	-5.82	117.83	121.90
36	1	2132	C	C2-N1-C1'	5.82	125.20	118.80
38	4	75	G	O5'-P-OP2	5.82	117.68	110.70
80	6	22	A	C8-N9-C4	-5.82	103.47	105.80
85	5	92	G	O5'-P-OP2	-5.82	100.46	105.70
85	5	346	C	N1-C2-N3	5.82	123.27	119.20
85	5	1200	A	N9-C4-C5	-5.82	103.47	105.80
85	5	1507	G	N1-C2-N2	-5.82	110.96	116.20
85	5	1638	A	C5-C6-N1	-5.82	114.79	117.70
85	5	1678	G	N3-C2-N2	5.82	123.97	119.90
85	5	2189	U	N3-C4-O4	5.82	123.47	119.40
85	5	3291	G	N3-C2-N2	-5.82	115.83	119.90
1	2	189	C	N3-C4-C5	5.82	124.23	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1224	G	C4-N9-C1'	5.82	134.06	126.50
36	1	93	C	N3-C2-O2	-5.82	117.83	121.90
36	1	300	G	OP1-P-OP2	5.82	128.33	119.60
36	1	415	G	N3-C4-N9	-5.82	122.51	126.00
36	1	520	U	C6-N1-C2	-5.82	117.51	121.00
36	1	912	G	C8-N9-C4	-5.82	104.07	106.40
36	1	922	U	N1-C2-O2	5.82	126.87	122.80
36	1	1217	A	C5-C6-N1	5.82	120.61	117.70
36	1	2169	G	N1-C2-N2	-5.82	110.96	116.20
36	1	2576	G	C5-N7-C8	-5.82	101.39	104.30
36	1	2895	G	O4'-C1'-N9	-5.82	103.55	108.20
36	1	3060	C	C2-N3-C4	-5.82	116.99	119.90
36	1	3340	G	C5-N7-C8	-5.82	101.39	104.30
80	6	290	G	N7-C8-N9	5.82	116.01	113.10
80	6	545	A	C5-N7-C8	5.82	106.81	103.90
80	6	591	A	C5-N7-C8	5.82	106.81	103.90
80	6	1490	C	O5'-P-OP1	-5.82	100.47	105.70
85	5	34	A	C4-C5-N7	-5.82	107.79	110.70
85	5	277	G	O5'-P-OP2	5.82	117.68	110.70
85	5	621	A	N7-C8-N9	-5.82	110.89	113.80
85	5	1164	G	N1-C2-N2	5.82	121.44	116.20
85	5	1207	G	N3-C4-C5	-5.82	125.69	128.60
85	5	1413	G	C6-C5-N7	-5.82	126.91	130.40
85	5	1648	A	C6-C5-N7	-5.82	128.23	132.30
85	5	2283	G	C8-N9-C4	5.82	108.73	106.40
85	5	2352	A	OP1-P-OP2	-5.82	110.87	119.60
85	5	2548	C	N3-C4-C5	-5.82	119.57	121.90
85	5	2569	A	C5-C6-N1	-5.82	114.79	117.70
85	5	2839	G	C6-C5-N7	-5.82	126.91	130.40
85	5	3020	U	N3-C4-O4	5.82	123.47	119.40
85	5	3093	C	C4-C5-C6	5.82	120.31	117.40
1	2	137	U	C6-N1-C2	-5.82	117.51	121.00
1	2	1064	A	C6-C5-N7	5.82	136.37	132.30
36	1	19	U	N3-C4-C5	-5.82	111.11	114.60
36	1	99	A	C8-N9-C4	5.82	108.13	105.80
36	1	103	G	O5'-P-OP1	-5.82	100.47	105.70
36	1	355	A	C2-N3-C4	-5.82	107.69	110.60
36	1	666	A	N7-C8-N9	-5.82	110.89	113.80
36	1	817	A	OP2-P-O3'	5.82	118.00	105.20
36	1	1866	C	C6-N1-C2	-5.82	117.97	120.30
36	1	1948	G	C6-N1-C2	5.82	128.59	125.10
36	1	2527	G	N3-C2-N2	-5.82	115.83	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2828	G	C4-C5-C6	5.82	122.29	118.80
80	6	539	G	C5-C6-O6	-5.82	125.11	128.60
80	6	1547	A	N1-C6-N6	5.82	122.09	118.60
85	5	214	G	OP1-P-O3'	5.82	117.99	105.20
85	5	217	U	N1-C2-N3	-5.82	111.41	114.90
85	5	271	C	C5-C4-N4	5.82	124.27	120.20
85	5	765	C	C2-N3-C4	-5.82	116.99	119.90
85	5	1046	A	C2-N3-C4	-5.82	107.69	110.60
85	5	1175	C	C5-C4-N4	-5.82	116.13	120.20
85	5	2120	A	N1-C6-N6	-5.82	115.11	118.60
85	5	2155	G	OP1-P-OP2	5.82	128.32	119.60
85	5	2837	A	C2-N3-C4	-5.82	107.69	110.60
85	5	3043	C	OP1-P-O3'	5.82	117.99	105.20
85	5	3044	G	C6-C5-N7	-5.82	126.91	130.40
85	5	3187	A	O5'-P-OP2	-5.82	100.47	105.70
85	5	3375	A	C4-C5-N7	5.82	113.61	110.70
36	1	974	G	N7-C8-N9	-5.81	110.19	113.10
36	1	1464	G	OP1-P-OP2	5.81	128.32	119.60
36	1	1803	C	OP1-P-OP2	-5.81	110.88	119.60
38	4	135	G	N1-C6-O6	5.81	123.39	119.90
80	6	391	A	O5'-P-OP2	-5.81	100.47	105.70
80	6	511	A	N9-C4-C5	-5.81	103.47	105.80
80	6	1198	G	N1-C6-O6	5.81	123.39	119.90
85	5	6	A	C2-N3-C4	-5.81	107.69	110.60
85	5	1473	G	C5-C6-O6	5.81	132.09	128.60
85	5	1619	A	C5-C6-N1	-5.81	114.79	117.70
85	5	1892	G	C4-C5-N7	5.81	113.13	110.80
49	m3	5	LYS	CD-CE-NZ	5.81	125.07	111.70
55	m9	5	ARG	NE-CZ-NH1	5.81	123.21	120.30
1	2	146	U	N1-C2-O2	5.81	126.87	122.80
1	2	640	U	C5-C4-O4	5.81	129.39	125.90
1	2	685	G	N7-C8-N9	5.81	116.01	113.10
1	2	995	U	C5-C4-O4	5.81	129.39	125.90
1	2	1000	U	C4-C5-C6	5.81	123.19	119.70
1	2	1071	A	C6-N1-C2	-5.81	115.11	118.60
1	2	1305	A	N1-C6-N6	-5.81	115.11	118.60
1	2	1385	G	C5-C6-N1	-5.81	108.59	111.50
36	1	39	A	C6-N1-C2	-5.81	115.11	118.60
36	1	548	G	C4-C5-N7	5.81	113.12	110.80
36	1	872	U	OP2-P-O3'	5.81	117.99	105.20
36	1	1510	G	C4-C5-N7	5.81	113.12	110.80
36	1	2937	G	N1-C2-N3	-5.81	120.41	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3052	G	C4-N9-C1'	5.81	134.06	126.50
80	6	1171	A	C4-C5-N7	5.81	113.61	110.70
80	6	1422	A	O5'-P-OP2	5.81	117.67	110.70
80	6	1503	A	N1-C6-N6	5.81	122.09	118.60
85	5	64	G	C5-C6-N1	-5.81	108.59	111.50
85	5	568	G	N9-C4-C5	-5.81	103.08	105.40
85	5	1007	U	OP1-P-OP2	-5.81	110.88	119.60
85	5	1437	C	N3-C4-N4	5.81	122.07	118.00
85	5	1462	A	C4-C5-C6	5.81	119.91	117.00
85	5	2390	A	OP1-P-OP2	5.81	128.32	119.60
85	5	2815	G	C5-C6-N1	5.81	114.41	111.50
85	5	3339	A	C6-C5-N7	-5.81	128.23	132.30
85	5	3353	G	C5-C6-N1	-5.81	108.59	111.50
1	2	1345	U	C5-C4-O4	-5.81	122.41	125.90
1	2	1372	C	C2-N1-C1'	5.81	125.19	118.80
1	2	1726	U	N3-C2-O2	5.81	126.27	122.20
1	2	1760	G	C8-N9-C4	-5.81	104.08	106.40
36	1	1359	C	N3-C2-O2	5.81	125.97	121.90
36	1	3108	G	C2-N3-C4	5.81	114.81	111.90
85	5	843	A	N3-C4-C5	5.81	130.87	126.80
85	5	1080	A	C6-C5-N7	-5.81	128.23	132.30
85	5	1087	G	O5'-P-OP2	5.81	117.67	110.70
85	5	1157	G	C6-N1-C2	-5.81	121.61	125.10
85	5	3010	U	C4-C5-C6	5.81	123.19	119.70
1	2	22	A	C5-N7-C8	-5.81	101.00	103.90
1	2	1590	G	C8-N9-C4	-5.81	104.08	106.40
1	2	1731	G	C5-C6-O6	5.81	132.09	128.60
36	1	584	G	N1-C2-N2	-5.81	110.97	116.20
57	N1	91	LEU	CB-CG-CD2	-5.81	101.12	111.00
80	6	1659	A	C5-N7-C8	-5.81	101.00	103.90
80	6	1751	C	OP2-P-O3'	5.81	117.98	105.20
85	5	775	A	C5-N7-C8	-5.81	101.00	103.90
85	5	791	A	C2-N3-C4	-5.81	107.69	110.60
85	5	1359	C	N1-C2-O2	-5.81	115.41	118.90
85	5	1452	A	N1-C6-N6	5.81	122.09	118.60
85	5	2522	G	C2-N3-C4	5.81	114.81	111.90
38	8	3	A	N3-C4-N9	5.81	132.05	127.40
38	8	132	G	C6-N1-C2	-5.81	121.61	125.10
1	2	1586	U	N1-C2-O2	-5.81	118.73	122.80
1	2	1593	G	N7-C8-N9	-5.81	110.20	113.10
1	2	1599	G	N1-C6-O6	5.81	123.39	119.90
36	1	70	A	N1-C2-N3	5.81	132.20	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	156	G	C5-N7-C8	-5.81	101.40	104.30
36	1	226	C	C2-N3-C4	5.81	122.80	119.90
36	1	979	U	N1-C2-O2	5.81	126.87	122.80
36	1	1167	U	N3-C4-C5	-5.81	111.11	114.60
36	1	1415	U	C2-N3-C4	-5.81	123.52	127.00
36	1	2224	A	C2-N3-C4	5.81	113.50	110.60
36	1	2550	U	OP1-P-O3'	5.81	117.98	105.20
36	1	2835	U	N1-C2-O2	-5.81	118.73	122.80
36	1	2927	C	C5-C6-N1	-5.81	118.10	121.00
36	1	3317	U	C2-N3-C4	-5.81	123.52	127.00
37	3	65	G	C4-C5-N7	-5.81	108.48	110.80
52	M6	59	ARG	NE-CZ-NH1	5.81	123.20	120.30
80	6	334	G	C5-C6-O6	5.81	132.09	128.60
80	6	1142	A	OP1-P-OP2	5.81	128.31	119.60
80	6	1747	G	C4-C5-C6	-5.81	115.32	118.80
85	5	198	A	N7-C8-N9	-5.81	110.90	113.80
85	5	597	G	O5'-P-OP2	-5.81	100.47	105.70
85	5	1225	A	N9-C4-C5	5.81	108.12	105.80
85	5	1470	U	N1-C2-N3	5.81	118.38	114.90
85	5	2625	C	C5-C6-N1	5.81	123.90	121.00
85	5	3008	A	N7-C8-N9	-5.81	110.90	113.80
37	7	76	A	C5-N7-C8	-5.81	101.00	103.90
38	8	56	G	C6-C5-N7	-5.81	126.92	130.40
1	2	309	C	C2-N1-C1'	5.81	125.19	118.80
36	1	340	C	N1-C2-N3	5.81	123.26	119.20
36	1	510	G	N1-C2-N3	5.81	127.38	123.90
36	1	910	G	N3-C2-N2	-5.81	115.84	119.90
36	1	934	G	C4-N9-C1'	5.81	134.05	126.50
36	1	1913	A	O5'-P-OP1	5.81	117.67	110.70
36	1	2559	U	N1-C2-O2	-5.81	118.73	122.80
36	1	3013	U	C4-C5-C6	-5.81	116.22	119.70
80	6	297	U	N3-C4-O4	5.81	123.46	119.40
80	6	1591	C	C6-N1-C2	-5.81	117.98	120.30
85	5	927	C	C6-N1-C2	-5.81	117.98	120.30
85	5	2812	C	OP2-P-O3'	-5.81	92.43	105.20
85	5	2846	U	C2-N1-C1'	5.81	124.67	117.70
85	5	3264	G	N1-C2-N2	5.81	121.42	116.20
1	2	560	U	O5'-P-OP1	5.80	117.67	110.70
1	2	1092	G	N3-C2-N2	-5.80	115.84	119.90
36	1	152	U	N1-C2-O2	5.80	126.86	122.80
36	1	773	G	C2-N3-C4	5.80	114.80	111.90
36	1	880	G	C4-N9-C1'	-5.80	118.95	126.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	889	U	OP1-P-O3'	5.80	117.97	105.20
36	1	1722	U	C5-C4-O4	-5.80	122.42	125.90
36	1	2162	U	N3-C4-C5	5.80	118.08	114.60
36	1	2931	C	OP1-P-OP2	-5.80	110.89	119.60
37	3	101	G	C8-N9-C4	5.80	108.72	106.40
52	M6	27	LEU	CB-CG-CD1	-5.80	101.13	111.00
80	6	159	U	C5-C6-N1	5.80	125.60	122.70
80	6	450	U	C2-N3-C4	-5.80	123.52	127.00
80	6	1019	A	OP1-P-OP2	5.80	128.31	119.60
85	5	41	G	OP2-P-O3'	5.80	117.97	105.20
85	5	87	U	C5-C6-N1	5.80	125.60	122.70
85	5	387	A	O5'-P-OP2	-5.80	100.47	105.70
85	5	426	G	C5-C6-N1	5.80	114.40	111.50
85	5	561	C	N3-C4-C5	5.80	124.22	121.90
85	5	727	G	C5-C6-O6	-5.80	125.12	128.60
85	5	836	A	O4'-C1'-N9	-5.80	103.56	108.20
85	5	1035	G	N3-C4-N9	5.80	129.48	126.00
85	5	1936	A	N7-C8-N9	5.80	116.70	113.80
1	2	1779	C	C2-N3-C4	5.80	122.80	119.90
36	1	1073	U	OP1-P-OP2	5.80	128.31	119.60
36	1	1517	G	C5-N7-C8	-5.80	101.40	104.30
36	1	1787	A	O5'-P-OP2	5.80	117.66	110.70
36	1	2393	G	N1-C6-O6	-5.80	116.42	119.90
36	1	2863	G	N1-C2-N3	5.80	127.38	123.90
36	1	3012	A	N1-C2-N3	-5.80	126.40	129.30
38	4	37	A	C5-N7-C8	-5.80	101.00	103.90
80	6	147	A	OP1-P-OP2	-5.80	110.90	119.60
80	6	927	C	N3-C4-N4	5.80	122.06	118.00
85	5	621	A	C6-N1-C2	-5.80	115.12	118.60
85	5	2144	A	OP1-P-O3'	5.80	117.97	105.20
85	5	3186	A	C8-N9-C4	-5.80	103.48	105.80
1	2	1148	G	N3-C4-N9	5.80	129.48	126.00
1	2	1152	G	N7-C8-N9	5.80	116.00	113.10
1	2	1262	C	C5-C6-N1	5.80	123.90	121.00
36	1	211	A	C6-C5-N7	-5.80	128.24	132.30
36	1	399	A	O5'-P-OP2	-5.80	100.48	105.70
36	1	427	C	N3-C2-O2	5.80	125.96	121.90
36	1	732	C	C4-C5-C6	5.80	120.30	117.40
36	1	944	C	C4-C5-C6	-5.80	114.50	117.40
36	1	1492	G	C5-C6-N1	-5.80	108.60	111.50
36	1	1771	C	C5-C4-N4	-5.80	116.14	120.20
36	1	1808	G	N9-C4-C5	5.80	107.72	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2914	G	C5-N7-C8	5.80	107.20	104.30
38	4	70	G	N1-C2-N2	-5.80	110.98	116.20
56	N0	13	ARG	NE-CZ-NH1	5.80	123.20	120.30
80	6	1065	A	O5'-P-OP2	5.80	117.66	110.70
85	5	150	A	C8-N9-C4	5.80	108.12	105.80
85	5	412	G	C2-N3-C4	-5.80	109.00	111.90
85	5	733	G	N9-C1'-C2'	-5.80	105.62	112.00
85	5	829	U	C6-N1-C2	5.80	124.48	121.00
85	5	836	A	N1-C6-N6	-5.80	115.12	118.60
85	5	937	G	N3-C4-N9	5.80	129.48	126.00
85	5	1237	G	N1-C6-O6	-5.80	116.42	119.90
85	5	1606	U	OP2-P-O3'	5.80	117.96	105.20
85	5	2611	U	OP1-P-O3'	5.80	117.96	105.20
85	5	2921	U	N1-C2-O2	-5.80	118.74	122.80
1	2	621	A	N1-C2-N3	-5.80	126.40	129.30
1	2	809	U	C6-N1-C2	-5.80	117.52	121.00
1	2	1089	U	OP1-P-OP2	-5.80	110.90	119.60
1	2	1566	A	C6-N1-C2	-5.80	115.12	118.60
1	2	1738	A	C6-C5-N7	-5.80	128.24	132.30
36	1	28	C	C2-N1-C1'	5.80	125.18	118.80
36	1	33	G	N9-C1'-C2'	-5.80	105.62	112.00
36	1	330	G	C5-C6-O6	-5.80	125.12	128.60
36	1	401	U	C2-N1-C1'	5.80	124.66	117.70
36	1	430	U	OP1-P-OP2	-5.80	110.90	119.60
36	1	1106	G	O5'-P-OP1	-5.80	100.48	105.70
36	1	1897	G	O4'-C1'-N9	5.80	112.84	108.20
36	1	2809	C	N3-C2-O2	-5.80	117.84	121.90
36	1	2951	G	N7-C8-N9	-5.80	110.20	113.10
36	1	3283	U	C5-C6-N1	5.80	125.60	122.70
80	6	149	C	C5-C6-N1	5.80	123.90	121.00
80	6	925	G	OP1-P-OP2	-5.80	110.90	119.60
80	6	1181	U	C5-C6-N1	5.80	125.60	122.70
80	6	1311	U	O5'-P-OP1	-5.80	100.48	105.70
85	5	5	G	C5-C6-N1	-5.80	108.60	111.50
85	5	172	G	O5'-P-OP1	-5.80	100.48	105.70
85	5	575	G	N3-C4-N9	-5.80	122.52	126.00
85	5	910	G	N9-C4-C5	-5.80	103.08	105.40
85	5	1202	A	N7-C8-N9	5.80	116.70	113.80
85	5	1396	C	C6-N1-C2	5.80	122.62	120.30
85	5	1639	C	N3-C2-O2	5.80	125.96	121.90
85	5	2093	A	C6-N1-C2	5.80	122.08	118.60
85	5	2305	G	C5-N7-C8	-5.80	101.40	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2799	A	C5-C6-N1	5.80	120.60	117.70
85	5	3087	A	C8-N9-C4	5.80	108.12	105.80
85	5	3239	G	N3-C4-N9	-5.80	122.52	126.00
85	5	3287	U	N3-C4-O4	5.80	123.46	119.40
38	8	76	C	C6-N1-C2	-5.80	117.98	120.30
52	m6	101	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	2	104	A	N1-C2-N3	5.80	132.20	129.30
1	2	325	G	N7-C8-N9	5.80	116.00	113.10
1	2	1402	G	C8-N9-C4	5.80	108.72	106.40
1	2	1426	U	N1-C2-N3	5.80	118.38	114.90
1	2	1721	U	N1-C2-N3	5.80	118.38	114.90
36	1	1383	G	C4-C5-C6	5.80	122.28	118.80
36	1	1662	G	C4-C5-C6	5.80	122.28	118.80
80	6	782	U	C4-C5-C6	5.80	123.18	119.70
85	5	499	G	N3-C4-C5	5.80	131.50	128.60
85	5	1532	C	C5-C6-N1	-5.80	118.10	121.00
85	5	1743	G	N7-C8-N9	5.80	116.00	113.10
85	5	1758	G	N3-C4-N9	-5.80	122.52	126.00
85	5	2872	A	C4-C5-C6	-5.80	114.10	117.00
85	5	2892	A	N1-C2-N3	5.80	132.20	129.30
43	l6	169	ASP	CB-CG-OD2	5.80	123.52	118.30
1	2	1308	A	C5-C6-N6	-5.80	119.06	123.70
1	2	1749	A	N7-C8-N9	-5.80	110.90	113.80
36	1	86	G	C6-N1-C2	-5.80	121.62	125.10
36	1	1249	G	C5-C6-O6	-5.80	125.12	128.60
36	1	1588	A	OP1-P-OP2	5.80	128.29	119.60
36	1	1712	G	C8-N9-C4	-5.80	104.08	106.40
36	1	2299	A	C8-N9-C4	-5.80	103.48	105.80
36	1	2418	G	N1-C2-N2	5.80	121.42	116.20
36	1	2615	G	C5-C6-N1	5.80	114.40	111.50
69	O3	6	ARG	NE-CZ-NH2	-5.80	117.40	120.30
80	6	164	A	C8-N9-C4	-5.80	103.48	105.80
80	6	394	C	N1-C2-O2	-5.80	115.42	118.90
80	6	651	G	C5-C6-O6	-5.80	125.12	128.60
80	6	742	U	C5-C6-N1	5.80	125.60	122.70
80	6	1060	U	N1-C2-O2	5.80	126.86	122.80
80	6	1616	G	C5-C6-N1	-5.80	108.60	111.50
85	5	171	G	N1-C2-N2	-5.80	110.98	116.20
85	5	1134	G	C4-C5-C6	5.80	122.28	118.80
85	5	1225	A	C6-N1-C2	-5.80	115.12	118.60
85	5	1861	G	C5-N7-C8	-5.80	101.40	104.30
85	5	2240	G	N1-C2-N2	-5.80	110.98	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2357	A	O3'-P-O5'	-5.80	92.98	104.00
85	5	2419	A	C4-C5-N7	5.80	113.60	110.70
85	5	2803	A	OP2-P-O3'	5.80	117.95	105.20
85	5	2914	G	C5-C6-O6	-5.80	125.12	128.60
85	5	3003	G	C6-N1-C2	-5.80	121.62	125.10
85	5	3113	A	C5-C6-N6	5.80	128.34	123.70
85	5	3278	C	C5-C4-N4	-5.80	116.14	120.20
85	5	3392	U	O5'-P-OP2	-5.80	100.48	105.70
38	8	33	A	N9-C4-C5	-5.80	103.48	105.80
48	m1	79	ILE	CG1-CB-CG2	-5.80	98.65	111.40
56	n0	52	LYS	CD-CE-NZ	5.80	125.03	111.70
1	2	547	U	C2-N3-C4	-5.79	123.52	127.00
1	2	1278	G	C2-N3-C4	5.79	114.80	111.90
36	1	436	A	N7-C8-N9	5.79	116.70	113.80
36	1	1442	U	OP1-P-OP2	-5.79	110.91	119.60
36	1	2746	A	C4-C5-N7	-5.79	107.80	110.70
36	1	2769	A	N1-C2-N3	5.79	132.20	129.30
36	1	3331	U	N1-C2-O2	-5.79	118.74	122.80
38	4	71	A	OP1-P-OP2	5.79	128.29	119.60
85	5	224	C	O4'-C1'-N1	5.79	112.84	108.20
85	5	375	A	N7-C8-N9	5.79	116.70	113.80
85	5	917	A	N1-C6-N6	5.79	122.08	118.60
85	5	1022	U	C5-C6-N1	5.79	125.60	122.70
85	5	1824	U	N1-C2-O2	-5.79	118.74	122.80
78	q2	45	ARG	NE-CZ-NH1	-5.79	117.40	120.30
1	2	705	G	C2-N3-C4	5.79	114.80	111.90
1	2	752	A	C6-C5-N7	5.79	136.36	132.30
1	2	1271	G	C5-N7-C8	5.79	107.20	104.30
36	1	136	G	C6-C5-N7	5.79	133.88	130.40
36	1	141	C	C2-N3-C4	5.79	122.80	119.90
36	1	204	A	O5'-P-OP1	5.79	117.65	110.70
36	1	330	G	N3-C2-N2	5.79	123.95	119.90
36	1	898	U	C2-N3-C4	5.79	130.48	127.00
36	1	923	C	N3-C4-C5	5.79	124.22	121.90
36	1	933	A	OP1-P-OP2	5.79	128.29	119.60
36	1	963	G	C5-C6-O6	-5.79	125.12	128.60
36	1	1546	A	C8-N9-C4	-5.79	103.48	105.80
36	1	1566	A	C8-N9-C4	-5.79	103.48	105.80
36	1	1808	G	O5'-P-OP2	-5.79	100.48	105.70
36	1	1830	G	O5'-P-OP2	5.79	117.65	110.70
36	1	1855	U	C6-N1-C2	-5.79	117.52	121.00
36	1	1868	G	C5-C6-N1	5.79	114.40	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2289	U	C6-N1-C2	-5.79	117.52	121.00
36	1	2777	G	C6-N1-C2	-5.79	121.62	125.10
36	1	2831	G	OP1-P-O3'	-5.79	92.45	105.20
36	1	2892	A	C2-N3-C4	-5.79	107.70	110.60
36	1	3018	C	N1-C2-N3	5.79	123.25	119.20
36	1	3370	A	C5-N7-C8	-5.79	101.00	103.90
37	3	66	A	C8-N9-C4	-5.79	103.48	105.80
65	N9	18	ARG	NE-CZ-NH1	5.79	123.20	120.30
80	6	769	A	N1-C6-N6	-5.79	115.12	118.60
85	5	86	G	C5-C6-O6	-5.79	125.12	128.60
85	5	902	G	O5'-P-OP1	-5.79	100.49	105.70
85	5	1600	U	OP1-P-O3'	5.79	117.95	105.20
85	5	1785	U	C2-N3-C4	5.79	130.48	127.00
85	5	2512	C	OP1-P-O3'	5.79	117.94	105.20
85	5	2759	U	OP1-P-OP2	-5.79	110.91	119.60
85	5	3209	A	C6-C5-N7	5.79	136.36	132.30
38	8	146	U	N1-C2-N3	-5.79	111.42	114.90
1	2	396	G	N1-C6-O6	5.79	123.38	119.90
1	2	586	G	N3-C4-N9	5.79	129.47	126.00
1	2	1084	G	C5-C6-N1	5.79	114.40	111.50
1	2	1090	G	N3-C4-C5	-5.79	125.70	128.60
1	2	1097	G	C5-N7-C8	-5.79	101.40	104.30
1	2	1128	U	C6-N1-C1'	5.79	129.31	121.20
1	2	1449	G	C2-N3-C4	5.79	114.80	111.90
36	1	412	G	N9-C4-C5	5.79	107.72	105.40
36	1	573	C	C5-C4-N4	5.79	124.25	120.20
36	1	1093	A	C6-N1-C2	5.79	122.08	118.60
36	1	2302	G	N3-C4-C5	-5.79	125.70	128.60
36	1	2745	G	C6-N1-C2	-5.79	121.63	125.10
37	3	20	A	C5-N7-C8	-5.79	101.00	103.90
80	6	93	A	C6-N1-C2	-5.79	115.12	118.60
80	6	637	C	C6-N1-C2	-5.79	117.98	120.30
85	5	748	U	OP1-P-OP2	-5.79	110.91	119.60
85	5	769	G	C2-N3-C4	-5.79	109.00	111.90
85	5	1693	C	N3-C4-C5	5.79	124.22	121.90
85	5	2348	A	N9-C4-C5	5.79	108.12	105.80
85	5	2422	C	O5'-P-OP1	5.79	117.65	110.70
85	5	2604	U	OP2-P-O3'	5.79	117.94	105.20
41	14	197	ARG	NE-CZ-NH1	-5.79	117.41	120.30
1	2	462	G	C5-C6-O6	-5.79	125.13	128.60
1	2	498	G	O5'-P-OP1	-5.79	100.49	105.70
36	1	503	C	N3-C4-C5	-5.79	119.58	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1462	A	C2-N3-C4	-5.79	107.70	110.60
36	1	1574	C	N3-C4-C5	-5.79	119.58	121.90
36	1	2957	G	C6-N1-C2	-5.79	121.63	125.10
36	1	3020	U	C6-N1-C2	-5.79	117.53	121.00
80	6	720	G	C4-C5-N7	-5.79	108.48	110.80
80	6	1550	A	C8-N9-C4	-5.79	103.48	105.80
85	5	738	A	C6-N1-C2	5.79	122.07	118.60
85	5	1945	A	C5-N7-C8	-5.79	101.00	103.90
85	5	2987	A	C4-C5-N7	-5.79	107.81	110.70
85	5	3020	U	OP1-P-OP2	5.79	128.28	119.60
1	2	465	G	N1-C6-O6	-5.79	116.43	119.90
1	2	734	G	N1-C6-O6	5.79	123.37	119.90
1	2	970	G	N1-C2-N3	5.79	127.37	123.90
1	2	1330	U	C2-N3-C4	5.79	130.47	127.00
1	2	1462	A	N1-C2-N3	-5.79	126.41	129.30
36	1	583	G	O5'-P-OP1	-5.79	100.49	105.70
36	1	784	A	N1-C2-N3	5.79	132.19	129.30
36	1	1084	A	C5-N7-C8	-5.79	101.01	103.90
36	1	1467	A	N3-C4-C5	-5.79	122.75	126.80
36	1	1502	C	C2-N1-C1'	-5.79	112.43	118.80
36	1	2166	A	O5'-P-OP2	5.79	117.65	110.70
36	1	2255	A	C2-N3-C4	5.79	113.50	110.60
36	1	2400	G	N1-C2-N2	-5.79	110.99	116.20
36	1	3024	A	C8-N9-C4	-5.79	103.48	105.80
37	3	6	C	C4-C5-C6	-5.79	114.51	117.40
38	4	40	A	C4-C5-N7	5.79	113.59	110.70
38	4	134	G	N3-C4-C5	5.79	131.50	128.60
80	6	347	G	C4-N9-C1'	5.79	134.03	126.50
80	6	418	G	N9-C4-C5	-5.79	103.08	105.40
80	6	1431	C	N3-C4-N4	5.79	122.05	118.00
85	5	116	A	C4-C5-C6	5.79	119.89	117.00
85	5	390	G	C2-N3-C4	-5.79	109.01	111.90
85	5	582	G	C6-N1-C2	-5.79	121.63	125.10
85	5	791	A	OP1-P-OP2	-5.79	110.92	119.60
85	5	840	C	C5-C4-N4	-5.79	116.15	120.20
85	5	1482	A	C4-C5-C6	5.79	119.89	117.00
85	5	1532	C	C2-N3-C4	-5.79	117.01	119.90
85	5	1744	G	N3-C2-N2	-5.79	115.85	119.90
85	5	2163	C	C4-C5-C6	5.79	120.29	117.40
85	5	2328	U	N3-C4-C5	-5.79	111.13	114.60
85	5	2753	G	O5'-P-OP2	-5.79	100.49	105.70
85	5	3058	U	N1-C2-N3	5.79	118.37	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	41	G	C4-C5-C6	5.79	122.27	118.80
37	7	80	G	N1-C2-N2	-5.79	110.99	116.20
38	8	65	A	O4'-C1'-N9	5.79	112.83	108.20
38	8	137	C	N1-C2-O2	-5.79	115.43	118.90
54	m8	90	ASP	CB-CG-OD2	5.79	123.51	118.30
36	1	284	A	C6-C5-N7	-5.79	128.25	132.30
36	1	748	U	C5-C6-N1	5.79	125.59	122.70
36	1	1806	A	C6-N1-C2	-5.79	115.13	118.60
36	1	3239	G	N7-C8-N9	5.79	115.99	113.10
80	6	207	U	OP1-P-OP2	-5.79	110.92	119.60
85	5	1732	U	C5-C6-N1	5.79	125.59	122.70
37	7	65	G	C6-C5-N7	-5.79	126.93	130.40
1	2	560	U	C5-C4-O4	5.79	129.37	125.90
1	2	822	U	C6-N1-C2	-5.79	117.53	121.00
1	2	1107	A	N3-C4-N9	-5.79	122.77	127.40
36	1	945	C	OP1-P-OP2	5.79	128.28	119.60
36	1	1131	G	N1-C6-O6	5.79	123.37	119.90
36	1	1387	G	N9-C4-C5	5.79	107.71	105.40
36	1	1535	A	C5-C6-N6	5.79	128.33	123.70
36	1	2874	G	C4-N9-C1'	5.79	134.02	126.50
36	1	3314	A	C8-N9-C4	-5.79	103.49	105.80
38	4	83	C	C6-N1-C2	-5.79	117.99	120.30
80	6	279	G	N1-C2-N3	-5.79	120.43	123.90
80	6	375	U	N3-C4-O4	5.79	123.45	119.40
80	6	533	U	N3-C4-O4	-5.79	115.35	119.40
80	6	534	A	N1-C6-N6	-5.79	115.13	118.60
80	6	807	A	N7-C8-N9	5.79	116.69	113.80
80	6	1572	G	C6-C5-N7	-5.79	126.93	130.40
80	6	1583	A	N1-C2-N3	5.79	132.19	129.30
85	5	121	A	C8-N9-C4	5.79	108.11	105.80
85	5	761	A	C5-C6-N6	-5.79	119.07	123.70
85	5	1531	C	OP1-P-O3'	5.79	117.93	105.20
85	5	1926	C	N3-C4-N4	-5.79	113.95	118.00
85	5	1928	G	O5'-P-OP1	5.79	117.64	110.70
85	5	2724	U	OP1-P-O3'	5.79	117.93	105.20
85	5	2875	U	C6-N1-C1'	5.79	129.30	121.20
85	5	3184	A	N3-C4-C5	5.79	130.85	126.80
1	2	67	A	C5-C6-N6	5.78	128.33	123.70
1	2	293	U	N1-C2-N3	5.78	118.37	114.90
1	2	438	A	N7-C8-N9	5.78	116.69	113.80
1	2	766	G	C4-C5-N7	5.78	113.11	110.80
1	2	967	G	O5'-P-OP2	-5.78	100.50	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	18	G	O5'-P-OP1	5.78	117.64	110.70
36	1	71	A	C5-C6-N6	5.78	128.33	123.70
36	1	535	G	C6-N1-C2	-5.78	121.63	125.10
36	1	630	A	C4-C5-C6	-5.78	114.11	117.00
36	1	738	A	C2-N3-C4	5.78	113.49	110.60
36	1	816	A	N3-C4-C5	-5.78	122.75	126.80
36	1	1195	A	N1-C2-N3	5.78	132.19	129.30
36	1	2145	A	O4'-C1'-N9	-5.78	103.57	108.20
36	1	2928	C	N1-C2-O2	-5.78	115.43	118.90
36	1	3028	G	N9-C4-C5	-5.78	103.09	105.40
37	3	7	G	C2-N3-C4	-5.78	109.01	111.90
73	O7	32	LYS	CD-CE-NZ	5.78	125.00	111.70
80	6	503	G	C2-N3-C4	5.78	114.79	111.90
80	6	979	A	OP2-P-O3'	5.78	117.92	105.20
80	6	1534	G	C5-N7-C8	5.78	107.19	104.30
85	5	576	C	OP1-P-O3'	5.78	117.93	105.20
85	5	1130	A	N1-C6-N6	-5.78	115.13	118.60
85	5	1634	G	C8-N9-C4	-5.78	104.09	106.40
85	5	2201	G	OP1-P-OP2	-5.78	110.92	119.60
85	5	2344	U	C4-C5-C6	5.78	123.17	119.70
85	5	2822	U	OP2-P-O3'	-5.78	92.48	105.20
62	n6	13	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	2	742	U	N3-C2-O2	-5.78	118.15	122.20
1	2	904	U	C5-C4-O4	-5.78	122.43	125.90
1	2	1087	U	N1-C2-O2	-5.78	118.75	122.80
36	1	2524	A	N3-C4-C5	5.78	130.85	126.80
80	6	1330	G	N1-C2-N3	5.78	127.37	123.90
80	6	1800	A	O5'-P-OP2	-5.78	100.50	105.70
85	5	1129	A	C5-C6-N1	5.78	120.59	117.70
85	5	1506	A	N1-C6-N6	5.78	122.07	118.60
85	5	2619	G	OP1-P-OP2	-5.78	110.93	119.60
85	5	3147	G	O5'-P-OP1	5.78	117.64	110.70
53	m7	3	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	2	872	U	C4-C5-C6	-5.78	116.23	119.70
1	2	1457	G	N9-C4-C5	-5.78	103.09	105.40
1	2	1512	C	OP1-P-OP2	5.78	128.27	119.60
1	2	1751	G	C5-N7-C8	5.78	107.19	104.30
36	1	9	U	N1-C2-N3	5.78	118.37	114.90
36	1	223	U	N3-C4-C5	-5.78	111.13	114.60
36	1	378	A	C5-N7-C8	5.78	106.79	103.90
36	1	391	A	O5'-P-OP2	-5.78	100.50	105.70
36	1	1092	C	N1-C2-N3	-5.78	115.15	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1496	C	C2-N3-C4	5.78	122.79	119.90
38	4	129	C	OP1-P-OP2	-5.78	110.93	119.60
38	4	130	C	C6-N1-C2	5.78	122.61	120.30
80	6	902	G	N9-C4-C5	5.78	107.71	105.40
80	6	1592	A	C2-N3-C4	-5.78	107.71	110.60
85	5	128	G	C5-C6-O6	5.78	132.07	128.60
85	5	429	U	N3-C2-O2	5.78	126.25	122.20
85	5	628	A	C8-N9-C4	5.78	108.11	105.80
85	5	651	G	N3-C4-N9	-5.78	122.53	126.00
85	5	824	C	N3-C4-C5	-5.78	119.59	121.90
85	5	1166	G	C5-N7-C8	5.78	107.19	104.30
85	5	1271	A	C5-C6-N6	-5.78	119.08	123.70
85	5	1475	A	C4-C5-C6	5.78	119.89	117.00
85	5	1701	C	N3-C4-N4	5.78	122.05	118.00
85	5	1752	A	N1-C6-N6	5.78	122.07	118.60
85	5	2253	G	N3-C4-N9	5.78	129.47	126.00
85	5	2320	A	C5-N7-C8	-5.78	101.01	103.90
85	5	2387	A	C5-C6-N1	5.78	120.59	117.70
85	5	2970	C	O4'-C1'-N1	-5.78	103.58	108.20
37	7	86	U	N1-C2-N3	-5.78	111.43	114.90
1	2	269	G	O5'-P-OP1	5.78	117.64	110.70
36	1	110	G	O5'-P-OP1	-5.78	100.50	105.70
36	1	618	C	C4-C5-C6	5.78	120.29	117.40
80	6	119	A	C5-C6-N6	5.78	128.32	123.70
80	6	1038	U	C5-C4-O4	-5.78	122.43	125.90
80	6	1209	C	N3-C4-N4	5.78	122.05	118.00
80	6	1562	G	N1-C2-N3	5.78	127.37	123.90
85	5	104	G	OP2-P-O3'	5.78	117.91	105.20
85	5	686	G	C6-C5-N7	-5.78	126.93	130.40
85	5	706	A	C8-N9-C4	5.78	108.11	105.80
85	5	1340	G	C8-N9-C4	5.78	108.71	106.40
85	5	2273	G	C8-N9-C4	-5.78	104.09	106.40
1	2	1271	G	C5-C6-O6	5.78	132.07	128.60
36	1	1290	A	N3-C4-C5	5.78	130.84	126.80
36	1	1397	C	C2-N3-C4	-5.78	117.01	119.90
36	1	3022	G	N3-C2-N2	5.78	123.94	119.90
36	1	3182	G	C5-C6-N1	-5.78	108.61	111.50
80	6	610	G	N3-C4-N9	5.78	129.47	126.00
80	6	787	G	N1-C2-N2	5.78	121.40	116.20
80	6	1422	A	O5'-P-OP1	-5.78	100.50	105.70
80	6	1650	U	OP1-P-O3'	5.78	117.91	105.20
80	6	1731	A	N9-C4-C5	5.78	108.11	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	326	U	N1-C2-N3	-5.78	111.43	114.90
85	5	707	U	C5-C4-O4	5.78	129.37	125.90
85	5	890	C	N1-C2-N3	5.78	123.25	119.20
85	5	1869	C	C2-N1-C1'	-5.78	112.44	118.80
85	5	2667	A	C5-C6-N1	5.78	120.59	117.70
85	5	2689	A	C6-N1-C2	-5.78	115.13	118.60
85	5	2836	C	C5-C6-N1	5.78	123.89	121.00
1	2	966	A	N1-C6-N6	-5.78	115.13	118.60
1	2	1710	G	C5-C6-O6	-5.78	125.14	128.60
1	2	1761	G	O5'-P-OP1	-5.78	100.50	105.70
36	1	306	A	C6-N1-C2	5.78	122.06	118.60
36	1	535	G	C6-C5-N7	-5.78	126.93	130.40
36	1	979	U	N1-C2-N3	5.78	118.37	114.90
36	1	1337	A	O5'-P-OP1	5.78	117.63	110.70
36	1	2304	C	N1-C2-O2	-5.78	115.44	118.90
36	1	2687	G	C2-N3-C4	5.78	114.79	111.90
36	1	2689	A	C8-N9-C4	-5.78	103.49	105.80
37	3	70	U	C6-N1-C2	5.78	124.47	121.00
80	6	118	U	N3-C4-O4	-5.78	115.36	119.40
80	6	421	A	O5'-P-OP1	5.78	117.63	110.70
80	6	875	G	C4-C5-N7	-5.78	108.49	110.80
85	5	32	U	OP2-P-O3'	5.78	117.91	105.20
85	5	642	U	N1-C2-N3	5.78	118.36	114.90
85	5	1019	G	N3-C4-C5	-5.78	125.71	128.60
85	5	1440	G	N1-C2-N3	5.78	127.37	123.90
85	5	1635	G	N3-C4-N9	-5.78	122.53	126.00
85	5	1735	G	C6-C5-N7	-5.78	126.94	130.40
85	5	1914	G	C8-N9-C4	-5.78	104.09	106.40
85	5	2125	A	C6-C5-N7	-5.78	128.26	132.30
85	5	2710	C	OP1-P-O3'	5.78	117.91	105.20
85	5	2957	G	O5'-P-OP2	-5.78	100.50	105.70
85	5	3161	C	N3-C2-O2	-5.78	117.86	121.90
1	2	1127	U	C2-N1-C1'	5.77	124.63	117.70
1	2	1613	U	C6-N1-C2	-5.77	117.53	121.00
36	1	399	A	N1-C2-N3	5.77	132.19	129.30
36	1	1428	A	N9-C4-C5	-5.77	103.49	105.80
80	6	109	G	N9-C4-C5	-5.77	103.09	105.40
85	5	390	G	N1-C6-O6	5.77	123.36	119.90
1	2	40	A	OP1-P-OP2	-5.77	110.94	119.60
36	1	219	A	N3-C4-C5	-5.77	122.76	126.80
36	1	301	G	C4-C5-C6	5.77	122.26	118.80
36	1	359	U	C5-C6-N1	5.77	125.59	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	649	A	C8-N9-C4	5.77	108.11	105.80
36	1	843	A	C6-N1-C2	5.77	122.06	118.60
36	1	1538	G	N1-C2-N3	5.77	127.36	123.90
36	1	2167	A	C2-N3-C4	-5.77	107.71	110.60
36	1	2821	C	N3-C2-O2	-5.77	117.86	121.90
37	3	46	A	C5-C6-N6	5.77	128.32	123.70
80	6	81	G	N1-C2-N3	5.77	127.36	123.90
80	6	81	G	C4-C5-N7	-5.77	108.49	110.80
80	6	389	G	O5'-P-OP1	-5.77	100.50	105.70
80	6	579	A	C4-C5-C6	-5.77	114.11	117.00
80	6	764	U	C5-C6-N1	5.77	125.59	122.70
85	5	103	G	C5-C6-N1	-5.77	108.61	111.50
85	5	795	G	C8-N9-C4	-5.77	104.09	106.40
85	5	821	U	OP2-P-O3'	5.77	117.90	105.20
85	5	876	A	OP2-P-O3'	5.77	117.90	105.20
85	5	1510	G	OP1-P-OP2	5.77	128.26	119.60
85	5	1547	G	C5-C6-N1	5.77	114.39	111.50
85	5	1703	U	OP1-P-OP2	5.77	128.26	119.60
85	5	1846	C	O5'-P-OP1	5.77	117.63	110.70
85	5	2600	C	OP2-P-O3'	5.77	117.90	105.20
36	1	271	C	C4-C5-C6	5.77	120.29	117.40
36	1	2205	U	O5'-P-OP1	5.77	117.63	110.70
36	1	2596	U	C5-C4-O4	-5.77	122.44	125.90
36	1	3325	G	C5-C6-N1	5.77	114.39	111.50
80	6	206	A	C4-C5-C6	5.77	119.89	117.00
80	6	215	A	C4-C5-N7	5.77	113.58	110.70
85	5	3263	G	C2-N3-C4	-5.77	109.02	111.90
38	8	121	U	OP2-P-O3'	5.77	117.90	105.20
1	2	358	U	C2-N3-C4	-5.77	123.54	127.00
36	1	305	U	C6-N1-C2	-5.77	117.54	121.00
36	1	1113	G	OP1-P-OP2	-5.77	110.95	119.60
36	1	2169	G	C6-N1-C2	-5.77	121.64	125.10
36	1	2653	C	C5-C6-N1	5.77	123.89	121.00
61	N5	40	LEU	CB-CG-CD1	-5.77	101.19	111.00
80	6	64	U	OP1-P-OP2	5.77	128.25	119.60
80	6	264	G	C6-N1-C2	5.77	128.56	125.10
85	5	172	G	C2-N3-C4	5.77	114.78	111.90
85	5	267	G	C5-N7-C8	-5.77	101.42	104.30
85	5	754	G	C6-C5-N7	5.77	133.86	130.40
85	5	956	U	C2-N1-C1'	-5.77	110.78	117.70
85	5	959	C	N3-C4-C5	-5.77	119.59	121.90
85	5	1143	A	N1-C2-N3	5.77	132.19	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1410	U	C2-N3-C4	-5.77	123.54	127.00
85	5	1588	A	OP1-P-OP2	5.77	128.25	119.60
85	5	1743	G	C5-C6-N1	-5.77	108.61	111.50
85	5	1832	C	N1-C2-O2	5.77	122.36	118.90
85	5	2116	G	N7-C8-N9	5.77	115.98	113.10
85	5	2703	A	O4'-C1'-N9	-5.77	103.58	108.20
85	5	3299	A	C4-C5-C6	5.77	119.89	117.00
1	2	424	C	O5'-P-OP1	-5.77	100.51	105.70
1	2	1069	A	OP1-P-OP2	5.77	128.25	119.60
1	2	1658	C	C5-C6-N1	5.77	123.88	121.00
36	1	367	A	N7-C8-N9	5.77	116.68	113.80
36	1	659	G	N1-C6-O6	-5.77	116.44	119.90
36	1	716	A	P-O5'-C5'	-5.77	111.67	120.90
36	1	887	G	C5-N7-C8	5.77	107.18	104.30
36	1	942	U	OP1-P-OP2	-5.77	110.95	119.60
36	1	1469	C	C6-N1-C2	5.77	122.61	120.30
36	1	2304	C	O5'-P-OP1	-5.77	100.51	105.70
36	1	2418	G	C5-C6-O6	-5.77	125.14	128.60
36	1	2855	U	C2-N3-C4	-5.77	123.54	127.00
36	1	2951	G	C6-C5-N7	5.77	133.86	130.40
36	1	2957	G	N3-C4-N9	-5.77	122.54	126.00
38	4	63	G	C4-C5-N7	5.77	113.11	110.80
80	6	154	G	C5-C6-O6	-5.77	125.14	128.60
80	6	476	U	N3-C4-C5	-5.77	111.14	114.60
80	6	845	G	C8-N9-C1'	5.77	134.50	127.00
80	6	899	G	N3-C4-C5	5.77	131.48	128.60
80	6	991	G	OP1-P-O3'	5.77	117.89	105.20
85	5	1280	C	N3-C2-O2	-5.77	117.86	121.90
85	5	2399	A	C8-N9-C4	-5.77	103.49	105.80
85	5	2597	U	N1-C2-N3	-5.77	111.44	114.90
85	5	2801	A	C4-C5-C6	-5.77	114.12	117.00
85	5	3022	G	C4-C5-N7	-5.77	108.49	110.80
36	1	2414	G	O4'-C1'-N9	-5.77	103.59	108.20
38	4	44	A	C5-C6-N6	-5.77	119.09	123.70
80	6	750	U	C6-N1-C2	-5.77	117.54	121.00
80	6	1153	G	N1-C6-O6	-5.77	116.44	119.90
85	5	641	C	OP1-P-OP2	5.77	128.25	119.60
85	5	1358	C	C5-C6-N1	-5.77	118.12	121.00
85	5	3341	U	N3-C2-O2	-5.77	118.16	122.20
36	1	111	C	N1-C2-O2	-5.76	115.44	118.90
36	1	132	C	C6-N1-C2	-5.76	117.99	120.30
36	1	174	C	C6-N1-C2	5.76	122.61	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	646	A	N1-C6-N6	-5.76	115.14	118.60
36	1	1448	U	C4-C5-C6	5.76	123.16	119.70
36	1	1517	G	C8-N9-C4	-5.76	104.09	106.40
36	1	1940	G	C5-C6-N1	-5.76	108.62	111.50
36	1	2370	G	C2-N3-C4	5.76	114.78	111.90
36	1	2580	A	N1-C6-N6	-5.76	115.14	118.60
36	1	2776	C	C2-N1-C1'	5.76	125.14	118.80
36	1	2929	C	N3-C4-C5	-5.76	119.59	121.90
36	1	2971	A	OP1-P-O3'	-5.76	92.52	105.20
37	3	68	C	O5'-P-OP2	-5.76	100.51	105.70
38	4	131	A	N3-C4-C5	-5.76	122.77	126.80
80	6	137	U	C5-C6-N1	5.76	125.58	122.70
80	6	252	U	C6-N1-C2	5.76	124.46	121.00
80	6	272	U	O5'-P-OP1	5.76	117.62	110.70
80	6	480	G	C5-C6-N1	-5.76	108.62	111.50
80	6	570	A	O5'-P-OP1	5.76	117.62	110.70
80	6	864	U	C2-N3-C4	-5.76	123.54	127.00
85	5	346	C	N3-C2-O2	-5.76	117.86	121.90
85	5	504	A	N1-C6-N6	5.76	122.06	118.60
85	5	677	A	C8-N9-C4	-5.76	103.49	105.80
85	5	1466	G	N1-C6-O6	5.76	123.36	119.90
85	5	1469	C	O5'-P-OP1	5.76	117.62	110.70
85	5	1861	G	C4-C5-N7	5.76	113.11	110.80
85	5	2713	U	C5-C6-N1	5.76	125.58	122.70
85	5	2861	U	O5'-P-OP1	5.76	117.62	110.70
1	2	734	G	C2-N3-C4	-5.76	109.02	111.90
36	1	255	A	C5-C6-N6	5.76	128.31	123.70
36	1	279	U	C5-C4-O4	5.76	129.36	125.90
36	1	617	G	C8-N9-C4	-5.76	104.09	106.40
36	1	845	G	C4-C5-C6	5.76	122.26	118.80
36	1	1052	U	C4-C5-C6	-5.76	116.24	119.70
36	1	1386	A	N3-C4-C5	-5.76	122.77	126.80
36	1	2364	G	O4'-C1'-N9	5.76	112.81	108.20
36	1	2701	U	C2-N1-C1'	5.76	124.62	117.70
36	1	2787	G	C8-N9-C4	-5.76	104.09	106.40
36	1	3052	G	N7-C8-N9	5.76	115.98	113.10
80	6	339	C	C2-N3-C4	-5.76	117.02	119.90
80	6	1330	G	C4-C5-C6	5.76	122.26	118.80
85	5	14	U	C2-N3-C4	-5.76	123.54	127.00
85	5	791	A	O5'-P-OP1	5.76	117.61	110.70
85	5	1651	U	N1-C2-O2	-5.76	118.77	122.80
85	5	2101	C	N1-C2-O2	5.76	122.36	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2342	U	O5'-P-OP2	-5.76	100.51	105.70
85	5	3227	A	C4-C5-C6	5.76	119.88	117.00
72	o6	76	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	2	104	A	N9-C4-C5	5.76	108.10	105.80
1	2	497	G	P-O3'-C3'	5.76	126.61	119.70
1	2	919	G	C2-N3-C4	5.76	114.78	111.90
1	2	1650	A	N3-C4-C5	5.76	130.83	126.80
36	1	136	G	C4-C5-N7	-5.76	108.50	110.80
36	1	316	U	C5-C6-N1	5.76	125.58	122.70
36	1	646	A	C4-C5-N7	-5.76	107.82	110.70
36	1	680	G	N9-C4-C5	-5.76	103.09	105.40
36	1	1355	A	OP1-P-O3'	-5.76	92.52	105.20
36	1	1802	C	N3-C4-N4	5.76	122.03	118.00
36	1	2204	C	N3-C4-N4	5.76	122.03	118.00
36	1	2355	G	N3-C2-N2	-5.76	115.87	119.90
36	1	2942	C	C2-N1-C1'	-5.76	112.46	118.80
80	6	984	G	OP1-P-OP2	-5.76	110.96	119.60
85	5	802	C	N3-C4-N4	5.76	122.03	118.00
85	5	1063	G	OP1-P-OP2	-5.76	110.96	119.60
85	5	1132	C	N3-C4-N4	-5.76	113.97	118.00
85	5	1139	G	OP2-P-O3'	5.76	117.88	105.20
85	5	1333	C	N1-C2-O2	-5.76	115.44	118.90
85	5	2230	C	C5-C6-N1	5.76	123.88	121.00
85	5	2793	G	N9-C4-C5	-5.76	103.10	105.40
1	2	908	G	N3-C4-N9	5.76	129.46	126.00
1	2	1351	G	C6-C5-N7	-5.76	126.94	130.40
36	1	499	G	OP2-P-O3'	5.76	117.87	105.20
36	1	575	G	OP2-P-O3'	5.76	117.87	105.20
36	1	980	A	C5-N7-C8	5.76	106.78	103.90
36	1	1307	G	C5-C6-N1	5.76	114.38	111.50
36	1	1414	G	C5-C6-N1	-5.76	108.62	111.50
36	1	1469	C	OP1-P-OP2	5.76	128.24	119.60
36	1	1580	A	C8-N9-C4	-5.76	103.50	105.80
36	1	2239	G	OP1-P-O3'	5.76	117.87	105.20
36	1	2320	A	OP2-P-O3'	5.76	117.87	105.20
36	1	2509	U	N3-C2-O2	5.76	126.23	122.20
36	1	2831	G	OP2-P-O3'	5.76	117.87	105.20
36	1	3021	A	OP2-P-O3'	5.76	117.87	105.20
36	1	3043	C	N3-C4-C5	5.76	124.20	121.90
36	1	3048	A	N1-C2-N3	5.76	132.18	129.30
38	4	65	A	OP2-P-O3'	5.76	117.87	105.20
80	6	156	A	OP2-P-O3'	5.76	117.87	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1728	A	N9-C4-C5	-5.76	103.50	105.80
85	5	1318	A	C2-N3-C4	-5.76	107.72	110.60
85	5	2096	A	O5'-P-OP2	5.76	117.61	110.70
85	5	2355	G	N1-C2-N2	-5.76	111.02	116.20
85	5	2640	A	N3-C4-N9	5.76	132.01	127.40
85	5	2819	A	C2-N3-C4	-5.76	107.72	110.60
85	5	3102	G	C8-N9-C4	5.76	108.70	106.40
38	8	1	A	OP1-P-OP2	5.76	128.24	119.60
1	2	97	C	O5'-P-OP1	-5.76	100.52	105.70
36	1	99	A	N9-C4-C5	-5.76	103.50	105.80
36	1	306	A	O4'-C1'-N9	-5.76	103.59	108.20
36	1	354	U	N3-C4-O4	5.76	123.43	119.40
36	1	417	A	C6-C5-N7	-5.76	128.27	132.30
36	1	776	U	N1-C2-O2	5.76	126.83	122.80
36	1	1522	U	O5'-P-OP2	-5.76	100.52	105.70
36	1	1551	C	C6-N1-C2	-5.76	118.00	120.30
36	1	2930	A	C8-N9-C4	5.76	108.10	105.80
38	4	79	A	C6-C5-N7	5.76	136.33	132.30
85	5	1188	U	C5-C4-O4	-5.76	122.44	125.90
85	5	1419	A	C5-C6-N6	-5.76	119.09	123.70
85	5	1947	G	N3-C4-N9	5.76	129.46	126.00
1	2	163	G	N1-C2-N3	5.76	127.35	123.90
1	2	335	U	C6-N1-C2	-5.76	117.55	121.00
1	2	872	U	N1-C2-N3	-5.76	111.45	114.90
1	2	1520	C	N3-C4-N4	5.76	122.03	118.00
36	1	883	A	C5-C6-N6	5.76	128.31	123.70
36	1	1018	G	C5-N7-C8	5.76	107.18	104.30
36	1	1340	G	C8-N9-C4	5.76	108.70	106.40
36	1	1553	U	C6-N1-C2	5.76	124.45	121.00
36	1	1565	G	N7-C8-N9	5.76	115.98	113.10
36	1	1886	A	C6-N1-C2	-5.76	115.15	118.60
36	1	2107	A	C5-N7-C8	5.76	106.78	103.90
38	4	61	A	N3-C4-C5	-5.76	122.77	126.80
80	6	253	A	O5'-P-OP2	-5.76	100.52	105.70
80	6	429	G	N1-C6-O6	5.76	123.35	119.90
80	6	602	U	N3-C2-O2	-5.76	118.17	122.20
80	6	1671	A	OP1-P-OP2	-5.76	110.97	119.60
85	5	1098	A	O5'-P-OP1	5.76	117.61	110.70
85	5	1395	G	OP1-P-O3'	-5.76	92.53	105.20
85	5	1472	U	C5-C4-O4	5.76	129.35	125.90
85	5	2421	U	N3-C4-O4	5.76	123.43	119.40
85	5	3083	G	N3-C2-N2	5.76	123.93	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	739	A	O5'-P-OP1	5.75	117.61	110.70
1	2	1336	U	N3-C4-O4	5.75	123.43	119.40
36	1	1053	A	N7-C8-N9	-5.75	110.92	113.80
36	1	1416	C	C5-C4-N4	-5.75	116.17	120.20
36	1	3318	G	C8-N9-C4	-5.75	104.10	106.40
37	3	36	C	C5-C6-N1	5.75	123.88	121.00
80	6	358	U	N1-C2-N3	5.75	118.35	114.90
80	6	796	A	C6-N1-C2	-5.75	115.15	118.60
80	6	891	A	N1-C2-N3	5.75	132.18	129.30
85	5	519	A	N1-C2-N3	-5.75	126.42	129.30
85	5	746	A	N9-C4-C5	5.75	108.10	105.80
85	5	1033	U	N1-C2-O2	5.75	126.83	122.80
85	5	2855	U	C2-N3-C4	-5.75	123.55	127.00
85	5	3315	G	N3-C4-C5	-5.75	125.72	128.60
38	8	60	U	N3-C4-C5	5.75	118.05	114.60
1	2	456	A	C8-N9-C4	-5.75	103.50	105.80
1	2	1111	C	C2-N3-C4	-5.75	117.02	119.90
1	2	1485	G	C5-C6-N1	5.75	114.38	111.50
36	1	163	C	N3-C4-C5	5.75	124.20	121.90
36	1	169	U	N3-C2-O2	5.75	126.23	122.20
36	1	1101	G	C6-N1-C2	-5.75	121.65	125.10
36	1	1356	U	N1-C2-O2	5.75	126.83	122.80
36	1	1370	G	C6-C5-N7	-5.75	126.95	130.40
36	1	1681	U	N3-C4-C5	5.75	118.05	114.60
36	1	1923	C	OP2-P-O3'	-5.75	92.54	105.20
36	1	2101	C	C6-N1-C2	5.75	122.60	120.30
36	1	2310	U	C5-C4-O4	5.75	129.35	125.90
36	1	2351	U	C5-C4-O4	-5.75	122.45	125.90
36	1	3355	U	C6-N1-C2	-5.75	117.55	121.00
37	3	64	A	C5-C6-N1	5.75	120.58	117.70
38	4	69	U	N1-C2-O2	-5.75	118.77	122.80
80	6	190	C	OP1-P-OP2	-5.75	110.97	119.60
80	6	555	A	C5-N7-C8	-5.75	101.02	103.90
80	6	857	U	N3-C2-O2	5.75	126.23	122.20
80	6	1281	G	C5-C6-N1	5.75	114.38	111.50
80	6	1346	A	N1-C2-N3	-5.75	126.42	129.30
80	6	1752	U	C4-C5-C6	5.75	123.15	119.70
85	5	833	G	OP2-P-O3'	5.75	117.86	105.20
85	5	834	U	N1-C2-O2	-5.75	118.77	122.80
85	5	879	U	C4-C5-C6	5.75	123.15	119.70
85	5	1305	U	N3-C4-C5	-5.75	111.15	114.60
85	5	1461	A	C5-C6-N1	5.75	120.58	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1555	U	C5-C4-O4	5.75	129.35	125.90
85	5	1778	G	N3-C4-N9	5.75	129.45	126.00
85	5	3135	U	C2-N3-C4	-5.75	123.55	127.00
37	7	60	G	C5-C6-N1	5.75	114.38	111.50
38	8	144	G	N1-C2-N3	-5.75	120.45	123.90
1	2	267	U	C5-C6-N1	-5.75	119.82	122.70
1	2	324	U	OP1-P-OP2	5.75	128.23	119.60
1	2	735	A	C6-N1-C2	5.75	122.05	118.60
1	2	1414	C	O4'-C1'-N1	-5.75	103.60	108.20
36	1	399	A	OP1-P-OP2	-5.75	110.97	119.60
36	1	601	U	C5-C4-O4	5.75	129.35	125.90
36	1	635	G	C2-N3-C4	5.75	114.78	111.90
36	1	1115	G	N3-C4-N9	-5.75	122.55	126.00
36	1	1134	G	O5'-P-OP2	5.75	117.60	110.70
36	1	1432	C	P-O3'-C3'	5.75	126.60	119.70
36	1	1589	A	N7-C8-N9	5.75	116.68	113.80
36	1	1768	U	N1-C2-N3	-5.75	111.45	114.90
36	1	2355	G	C6-N1-C2	5.75	128.55	125.10
36	1	2430	A	C2-N3-C4	-5.75	107.72	110.60
36	1	2615	G	N1-C2-N3	5.75	127.35	123.90
38	4	29	U	C5-C6-N1	-5.75	119.82	122.70
38	4	74	U	N1-C2-N3	5.75	118.35	114.90
80	6	196	G	N7-C8-N9	-5.75	110.22	113.10
80	6	558	U	N1-C2-N3	-5.75	111.45	114.90
80	6	591	A	C6-C5-N7	5.75	136.33	132.30
80	6	1048	G	C5-C6-N1	5.75	114.38	111.50
85	5	240	U	O5'-P-OP1	5.75	117.60	110.70
85	5	652	G	C6-N1-C2	-5.75	121.65	125.10
85	5	966	U	OP2-P-O3'	5.75	117.86	105.20
85	5	1087	G	C5-C6-O6	-5.75	125.15	128.60
85	5	1090	G	N3-C2-N2	-5.75	115.87	119.90
85	5	1106	G	N3-C4-C5	5.75	131.48	128.60
85	5	1478	C	C5-C6-N1	-5.75	118.12	121.00
85	5	2836	C	N3-C4-N4	5.75	122.03	118.00
85	5	2933	A	N3-C4-C5	-5.75	122.77	126.80
37	7	48	U	C5-C6-N1	5.75	125.58	122.70
38	8	14	C	C4-C5-C6	5.75	120.28	117.40
38	8	133	G	C5-C6-O6	-5.75	125.15	128.60
1	2	1602	C	N3-C4-C5	5.75	124.20	121.90
36	1	619	A	C2-N3-C4	-5.75	107.72	110.60
80	6	1209	C	C5-C4-N4	-5.75	116.17	120.20
85	5	1433	A	OP2-P-O3'	5.75	117.85	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2605	G	N7-C8-N9	5.75	115.97	113.10
38	8	81	U	C5-C4-O4	5.75	129.35	125.90
1	2	313	U	C2-N3-C4	-5.75	123.55	127.00
1	2	460	A	C2-N3-C4	-5.75	107.73	110.60
1	2	540	G	N3-C4-N9	5.75	129.45	126.00
1	2	1282	G	N9-C4-C5	5.75	107.70	105.40
36	1	206	G	OP1-P-OP2	-5.75	110.98	119.60
36	1	378	A	O4'-C1'-N9	-5.75	103.60	108.20
36	1	568	G	C4-C5-C6	5.75	122.25	118.80
36	1	2145	A	C2-N3-C4	-5.75	107.73	110.60
36	1	2644	C	N1-C2-O2	5.75	122.35	118.90
36	1	2996	U	N1-C2-O2	5.75	126.82	122.80
80	6	551	G	O5'-P-OP2	5.75	117.60	110.70
85	5	406	G	N9-C4-C5	5.75	107.70	105.40
85	5	524	U	OP1-P-OP2	-5.75	110.98	119.60
85	5	567	G	N1-C6-O6	5.75	123.35	119.90
85	5	588	G	C8-N9-C4	5.75	108.70	106.40
85	5	909	G	C8-N9-C4	5.75	108.70	106.40
85	5	1084	A	O5'-P-OP1	5.75	117.60	110.70
85	5	2168	A	C5-N7-C8	-5.75	101.03	103.90
85	5	3231	U	O4'-C1'-N1	5.75	112.80	108.20
1	2	691	C	C6-N1-C2	-5.75	118.00	120.30
1	2	954	A	C4-C5-N7	-5.75	107.83	110.70
36	1	1075	A	C5-N7-C8	-5.75	101.03	103.90
36	1	1483	G	C5-C6-O6	5.75	132.05	128.60
36	1	1880	U	N1-C2-O2	-5.75	118.78	122.80
36	1	2270	A	OP1-P-OP2	5.75	128.22	119.60
36	1	2514	U	O5'-P-OP1	-5.75	100.53	105.70
36	1	2628	A	N3-C4-C5	-5.75	122.78	126.80
80	6	115	G	C6-N1-C2	-5.75	121.65	125.10
80	6	264	G	C4-N9-C1'	-5.75	119.03	126.50
80	6	520	A	O5'-P-OP2	-5.75	100.53	105.70
80	6	596	C	C6-N1-C2	-5.75	118.00	120.30
80	6	942	G	C5-C6-N1	5.75	114.37	111.50
85	5	625	G	C6-C5-N7	5.75	133.85	130.40
85	5	688	G	C4-C5-N7	-5.75	108.50	110.80
85	5	1324	U	OP1-P-OP2	-5.75	110.98	119.60
85	5	1349	G	C6-C5-N7	5.75	133.85	130.40
85	5	1598	G	N9-C4-C5	-5.75	103.10	105.40
85	5	1682	U	C6-N1-C2	-5.75	117.55	121.00
85	5	2408	U	C6-N1-C2	-5.75	117.55	121.00
85	5	2896	A	N1-C6-N6	5.75	122.05	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3355	U	O5'-P-OP2	5.75	117.60	110.70
37	7	20	A	N1-C2-N3	5.75	132.17	129.30
1	2	1438	G	OP1-P-O3'	5.75	117.84	105.20
36	1	937	G	O5'-P-OP2	-5.75	100.53	105.70
36	1	1311	G	OP2-P-O3'	5.75	117.84	105.20
36	1	3200	G	C4-C5-C6	5.75	122.25	118.80
80	6	1017	U	C5-C4-O4	-5.75	122.45	125.90
80	6	1304	G	N3-C4-C5	-5.75	125.73	128.60
85	5	308	A	O5'-P-OP2	-5.75	100.53	105.70
85	5	366	A	OP1-P-O3'	5.75	117.84	105.20
85	5	718	G	C5-C6-N1	5.75	114.37	111.50
85	5	1371	G	C8-N9-C4	5.75	108.70	106.40
85	5	1555	U	C2-N3-C4	-5.75	123.55	127.00
85	5	2808	A	N9-C4-C5	5.75	108.10	105.80
1	2	40	A	N7-C8-N9	-5.74	110.93	113.80
1	2	294	C	N3-C4-C5	-5.74	119.60	121.90
36	1	9	U	C2-N3-C4	-5.74	123.55	127.00
36	1	182	U	C5-C4-O4	5.74	129.35	125.90
36	1	334	A	C5-C6-N6	-5.74	119.11	123.70
36	1	885	U	C4-C5-C6	-5.74	116.25	119.70
36	1	1361	U	N1-C2-O2	-5.74	118.78	122.80
36	1	1559	A	N1-C2-N3	5.74	132.17	129.30
36	1	1859	A	C8-N9-C4	5.74	108.10	105.80
36	1	3390	G	N9-C4-C5	-5.74	103.10	105.40
37	3	98	C	OP1-P-OP2	-5.74	110.98	119.60
38	4	19	C	N3-C4-N4	5.74	122.02	118.00
80	6	269	G	C5-C6-N1	5.74	114.37	111.50
80	6	537	G	OP1-P-OP2	5.74	128.22	119.60
85	5	183	G	N9-C4-C5	5.74	107.70	105.40
85	5	313	A	C6-C5-N7	-5.74	128.28	132.30
85	5	420	G	C5-C6-N1	5.74	114.37	111.50
85	5	684	G	N3-C4-N9	-5.74	122.55	126.00
85	5	691	A	C8-N9-C4	-5.74	103.50	105.80
85	5	1192	C	O5'-P-OP1	-5.74	100.53	105.70
85	5	1282	G	C8-N9-C4	5.74	108.70	106.40
85	5	2746	A	C5-N7-C8	-5.74	101.03	103.90
85	5	2899	C	N1-C2-O2	-5.74	115.45	118.90
85	5	2988	C	O5'-P-OP1	5.74	117.59	110.70
85	5	3350	C	O5'-P-OP1	5.74	117.59	110.70
1	2	254	A	C4-C5-N7	5.74	113.57	110.70
1	2	559	C	C6-N1-C2	-5.74	118.00	120.30
1	2	1130	A	C8-N9-C4	-5.74	103.50	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1137	G	N3-C4-C5	5.74	131.47	128.60
1	2	1284	U	OP1-P-OP2	5.74	128.21	119.60
36	1	289	A	O5'-P-OP1	-5.74	100.53	105.70
36	1	868	C	C6-N1-C1'	-5.74	113.91	120.80
36	1	1647	A	C5-C6-N1	-5.74	114.83	117.70
80	6	1765	A	C5-C6-N6	5.74	128.29	123.70
85	5	193	C	O5'-P-OP2	5.74	117.59	110.70
85	5	973	A	C6-N1-C2	5.74	122.05	118.60
85	5	2838	A	N1-C6-N6	-5.74	115.16	118.60
1	2	230	C	C5-C6-N1	-5.74	118.13	121.00
1	2	265	A	C8-N9-C4	5.74	108.10	105.80
1	2	387	A	C5-N7-C8	-5.74	101.03	103.90
1	2	624	G	C5-C6-N1	5.74	114.37	111.50
36	1	181	U	C5-C6-N1	5.74	125.57	122.70
36	1	752	C	C2-N3-C4	-5.74	117.03	119.90
36	1	2207	A	C8-N9-C4	-5.74	103.50	105.80
36	1	2638	C	N3-C4-N4	5.74	122.02	118.00
36	1	2821	C	N3-C4-N4	5.74	122.02	118.00
38	4	36	G	C5-C6-N1	-5.74	108.63	111.50
52	M6	84	LEU	CB-CG-CD2	-5.74	101.24	111.00
67	O1	89	LEU	CB-CG-CD2	-5.74	101.24	111.00
80	6	315	A	C2-N3-C4	5.74	113.47	110.60
80	6	530	C	N3-C4-C5	5.74	124.20	121.90
80	6	824	G	C6-C5-N7	-5.74	126.95	130.40
80	6	1381	U	N3-C2-O2	-5.74	118.18	122.20
80	6	1558	U	N3-C2-O2	5.74	126.22	122.20
85	5	33	G	C5-C6-N1	5.74	114.37	111.50
85	5	244	G	N3-C4-C5	5.74	131.47	128.60
85	5	2566	C	C2-N3-C4	5.74	122.77	119.90
85	5	2584	G	C6-N1-C2	-5.74	121.66	125.10
85	5	2677	G	N9-C4-C5	-5.74	103.10	105.40
40	l3	214	MET	CB-CG-SD	-5.74	95.18	112.40
59	n3	15	LEU	CB-CG-CD2	-5.74	101.24	111.00
36	1	156	G	N3-C4-C5	-5.74	125.73	128.60
36	1	1305	U	OP1-P-OP2	5.74	128.21	119.60
36	1	1411	C	N3-C4-N4	5.74	122.02	118.00
36	1	2541	U	N3-C4-C5	5.74	118.04	114.60
36	1	2607	G	N1-C2-N3	5.74	127.34	123.90
36	1	2844	C	C5-C6-N1	5.74	123.87	121.00
36	1	2953	U	O5'-P-OP2	5.74	117.59	110.70
36	1	3208	G	O5'-P-OP1	-5.74	100.53	105.70
36	1	3387	U	C5-C4-O4	5.74	129.34	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	133	G	OP1-P-OP2	-5.74	110.99	119.60
41	L4	202	ARG	NE-CZ-NH1	5.74	123.17	120.30
80	6	39	A	C6-N1-C2	-5.74	115.16	118.60
80	6	338	C	N3-C2-O2	5.74	125.92	121.90
80	6	1073	G	C4-C5-N7	-5.74	108.50	110.80
80	6	1477	G	C8-N9-C4	5.74	108.69	106.40
80	6	1490	C	N3-C4-N4	5.74	122.02	118.00
85	5	252	U	N3-C4-O4	5.74	123.42	119.40
85	5	304	G	C6-N1-C2	-5.74	121.66	125.10
85	5	778	U	O5'-P-OP2	5.74	117.59	110.70
85	5	970	A	C4-C5-N7	-5.74	107.83	110.70
85	5	1099	A	N1-C2-N3	5.74	132.17	129.30
85	5	1140	G	C6-N1-C2	-5.74	121.66	125.10
85	5	1316	C	N1-C2-N3	5.74	123.22	119.20
85	5	1423	C	C5-C6-N1	5.74	123.87	121.00
85	5	1533	U	N3-C4-O4	5.74	123.42	119.40
85	5	2638	C	N3-C2-O2	5.74	125.92	121.90
85	5	2676	A	C6-C5-N7	-5.74	128.28	132.30
85	5	3105	U	OP2-P-O3'	5.74	117.83	105.20
1	2	375	U	C2-N3-C4	-5.74	123.56	127.00
1	2	757	A	C5-N7-C8	-5.74	101.03	103.90
1	2	1315	C	C5-C6-N1	5.74	123.87	121.00
36	1	667	C	C4-C5-C6	-5.74	114.53	117.40
36	1	2937	G	O4'-C1'-N9	-5.74	103.61	108.20
36	1	3330	A	C5-C6-N6	-5.74	119.11	123.70
85	5	665	A	N7-C8-N9	5.74	116.67	113.80
85	5	1109	U	OP1-P-O3'	5.74	117.82	105.20
85	5	1375	G	OP1-P-OP2	5.74	128.21	119.60
85	5	1511	U	N3-C4-O4	-5.74	115.38	119.40
85	5	1606	U	C6-N1-C2	-5.74	117.56	121.00
85	5	1753	G	N3-C2-N2	-5.74	115.88	119.90
85	5	2138	A	C6-C5-N7	-5.74	128.28	132.30
85	5	3287	U	C6-N1-C2	-5.74	117.56	121.00
1	2	558	U	C2-N3-C4	5.74	130.44	127.00
1	2	1226	G	C2-N3-C4	5.74	114.77	111.90
1	2	1523	G	C5-C6-N1	-5.74	108.63	111.50
1	2	1743	G	C2-N3-C4	5.74	114.77	111.90
36	1	210	U	O5'-P-OP2	-5.74	100.54	105.70
36	1	420	G	N3-C4-N9	5.74	129.44	126.00
36	1	559	A	C4-C5-N7	5.74	113.57	110.70
36	1	1156	C	C4-C5-C6	5.74	120.27	117.40
36	1	1657	C	N3-C2-O2	-5.74	117.89	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	49	G	N3-C2-N2	5.74	123.91	119.90
80	6	163	G	C5-C6-N1	-5.74	108.63	111.50
80	6	484	C	N3-C4-N4	5.74	122.02	118.00
80	6	1570	A	C2-N3-C4	5.74	113.47	110.60
85	5	98	G	C5-C6-O6	-5.74	125.16	128.60
85	5	162	G	OP1-P-OP2	-5.74	111.00	119.60
85	5	234	G	O5'-P-OP2	-5.74	100.54	105.70
85	5	240	U	N3-C2-O2	-5.74	118.19	122.20
85	5	271	C	N1-C2-O2	5.74	122.34	118.90
85	5	418	A	C5-C6-N1	-5.74	114.83	117.70
85	5	1377	G	O5'-P-OP1	-5.74	100.54	105.70
85	5	2100	A	C5-C6-N6	5.74	128.29	123.70
85	5	2190	U	C6-N1-C2	-5.74	117.56	121.00
85	5	2592	G	C8-N9-C4	5.74	108.69	106.40
85	5	2699	G	N7-C8-N9	-5.74	110.23	113.10
85	5	2949	U	C6-N1-C2	-5.74	117.56	121.00
85	5	3011	A	N1-C6-N6	5.74	122.04	118.60
85	5	3386	G	C4-C5-N7	-5.74	108.51	110.80
1	2	1372	C	C5-C6-N1	5.73	123.87	121.00
36	1	99	A	C4-C5-N7	5.73	113.57	110.70
36	1	300	G	C8-N9-C4	5.73	108.69	106.40
36	1	329	U	N3-C2-O2	-5.73	118.19	122.20
36	1	793	C	O5'-P-OP1	5.73	117.58	110.70
36	1	1454	A	C4-C5-C6	5.73	119.87	117.00
36	1	3310	A	C4-C5-N7	5.73	113.57	110.70
80	6	1012	U	C5-C6-N1	-5.73	119.83	122.70
85	5	60	A	C5-N7-C8	5.73	106.77	103.90
85	5	941	G	C4-C5-N7	5.73	113.09	110.80
85	5	945	C	C2-N3-C4	-5.73	117.03	119.90
85	5	1153	A	N9-C4-C5	5.73	108.09	105.80
85	5	1618	G	N9-C4-C5	-5.73	103.11	105.40
85	5	2668	U	N3-C2-O2	5.73	126.21	122.20
41	14	177	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	2	318	U	N1-C2-O2	-5.73	118.79	122.80
1	2	442	C	N1-C2-N3	5.73	123.21	119.20
36	1	32	U	C6-N1-C2	-5.73	117.56	121.00
36	1	496	C	N3-C4-N4	-5.73	113.99	118.00
36	1	677	A	N1-C6-N6	-5.73	115.16	118.60
36	1	937	G	N1-C2-N3	5.73	127.34	123.90
36	1	1366	A	N1-C2-N3	-5.73	126.43	129.30
36	1	1909	A	N1-C2-N3	5.73	132.17	129.30
36	1	2160	G	OP2-P-O3'	5.73	117.81	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2270	A	C4-C5-C6	-5.73	114.13	117.00
36	1	2812	C	C4-C5-C6	-5.73	114.53	117.40
38	4	38	U	OP1-P-OP2	5.73	128.20	119.60
80	6	84	A	N9-C4-C5	-5.73	103.51	105.80
80	6	469	C	C6-N1-C1'	-5.73	113.92	120.80
80	6	963	A	N7-C8-N9	-5.73	110.93	113.80
80	6	1465	C	N3-C4-C5	-5.73	119.61	121.90
85	5	626	U	OP1-P-OP2	-5.73	111.00	119.60
85	5	1883	A	N3-C4-C5	5.73	130.81	126.80
85	5	2305	G	N7-C8-N9	5.73	115.97	113.10
85	5	2774	C	OP1-P-OP2	5.73	128.20	119.60
85	5	3042	U	N3-C4-O4	5.73	123.41	119.40
53	m7	89	LYS	CD-CE-NZ	5.73	124.89	111.70
1	2	538	A	C6-N1-C2	5.73	122.04	118.60
1	2	1296	A	C5-C6-N6	-5.73	119.12	123.70
1	2	1746	A	N3-C4-C5	5.73	130.81	126.80
36	1	105	C	OP2-P-O3'	-5.73	92.59	105.20
36	1	261	U	N3-C4-O4	-5.73	115.39	119.40
36	1	678	G	C4-N9-C1'	5.73	133.95	126.50
36	1	730	C	C5-C6-N1	-5.73	118.14	121.00
36	1	846	A	N3-C4-N9	-5.73	122.81	127.40
36	1	984	G	OP2-P-O3'	5.73	117.81	105.20
36	1	1112	A	N1-C6-N6	-5.73	115.16	118.60
36	1	1222	G	N1-C2-N3	5.73	127.34	123.90
36	1	1440	G	C5-C6-O6	-5.73	125.16	128.60
36	1	2664	C	OP1-P-OP2	-5.73	111.00	119.60
36	1	2799	A	C4-C5-N7	-5.73	107.83	110.70
36	1	3342	A	C5-N7-C8	-5.73	101.03	103.90
38	4	82	U	O5'-P-OP2	-5.73	100.54	105.70
80	6	66	U	N3-C4-O4	5.73	123.41	119.40
80	6	851	U	C6-N1-C2	5.73	124.44	121.00
80	6	1041	G	N1-C6-O6	5.73	123.34	119.90
80	6	1064	G	C4-C5-N7	5.73	113.09	110.80
85	5	641	C	OP2-P-O3'	5.73	117.81	105.20
85	5	1053	A	C6-C5-N7	-5.73	128.29	132.30
85	5	1081	U	OP1-P-OP2	-5.73	111.00	119.60
85	5	1250	G	P-O3'-C3'	5.73	126.58	119.70
85	5	1421	G	OP1-P-OP2	-5.73	111.00	119.60
85	5	1506	A	C4-C5-C6	-5.73	114.14	117.00
85	5	1894	U	C6-N1-C2	5.73	124.44	121.00
85	5	2673	A	N1-C2-N3	5.73	132.16	129.30
85	5	3126	C	C4-C5-C6	-5.73	114.53	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3361	G	N3-C4-C5	-5.73	125.73	128.60
36	1	2805	G	N1-C2-N2	-5.73	111.04	116.20
36	1	2943	G	C4-C5-C6	5.73	122.24	118.80
85	5	509	U	C6-N1-C1'	5.73	129.22	121.20
85	5	815	G	C5-N7-C8	5.73	107.16	104.30
85	5	1184	A	OP2-P-O3'	5.73	117.80	105.20
85	5	3145	C	O4'-C1'-N1	-5.73	103.62	108.20
37	7	98	C	N3-C4-C5	-5.73	119.61	121.90
1	2	1558	G	N3-C4-N9	5.73	129.44	126.00
36	1	73	C	C2-N3-C4	5.73	122.76	119.90
36	1	172	G	C8-N9-C4	5.73	108.69	106.40
36	1	565	U	N3-C4-C5	5.73	118.04	114.60
36	1	1614	C	C4-C5-C6	5.73	120.26	117.40
36	1	1622	U	OP2-P-O3'	5.73	117.80	105.20
36	1	1704	A	C5-N7-C8	5.73	106.76	103.90
36	1	1851	G	OP2-P-O3'	5.73	117.80	105.20
36	1	2406	C	OP1-P-OP2	-5.73	111.01	119.60
36	1	2428	U	C5-C4-O4	-5.73	122.46	125.90
36	1	3361	G	N3-C4-N9	5.73	129.44	126.00
38	4	33	A	C6-C5-N7	-5.73	128.29	132.30
62	N6	63	LYS	CD-CE-NZ	-5.73	98.53	111.70
80	6	153	G	C5-C6-O6	-5.73	125.16	128.60
80	6	1301	U	O5'-P-OP2	-5.73	100.55	105.70
85	5	931	C	OP2-P-O3'	5.73	117.80	105.20
85	5	1075	A	C5-C6-N1	5.73	120.56	117.70
85	5	1154	A	C5-C6-N6	5.73	128.28	123.70
85	5	1416	C	OP2-P-O3'	5.73	117.80	105.20
85	5	1917	C	C4-C5-C6	5.73	120.26	117.40
85	5	1952	G	N1-C2-N3	-5.73	120.46	123.90
85	5	2125	A	OP2-P-O3'	5.73	117.80	105.20
85	5	2370	G	C5-C6-O6	5.73	132.04	128.60
85	5	2850	G	N1-C2-N3	5.73	127.34	123.90
85	5	3238	G	N3-C4-C5	5.73	131.46	128.60
85	5	3241	G	C6-C5-N7	-5.73	126.96	130.40
85	5	3394	U	C4-C5-C6	5.73	123.14	119.70
1	2	763	A	C5-C6-N1	-5.73	114.84	117.70
1	2	1292	C	C2-N3-C4	-5.73	117.04	119.90
36	1	78	U	N1-C2-N3	5.73	118.33	114.90
36	1	227	G	N1-C6-O6	5.73	123.33	119.90
36	1	342	A	C2-N3-C4	5.73	113.46	110.60
36	1	851	C	C5-C6-N1	5.73	123.86	121.00
36	1	2185	G	C4-C5-N7	-5.73	108.51	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1279	C	C2-N3-C4	-5.73	117.04	119.90
85	5	210	U	N3-C2-O2	-5.73	118.19	122.20
85	5	600	G	N7-C8-N9	5.73	115.96	113.10
85	5	1205	A	O5'-P-OP2	-5.73	100.55	105.70
85	5	1430	U	OP2-P-O3'	5.73	117.80	105.20
85	5	2307	G	N7-C8-N9	-5.73	110.24	113.10
85	5	2672	G	C5-N7-C8	-5.73	101.44	104.30
85	5	3290	G	N7-C8-N9	5.73	115.96	113.10
1	2	692	C	C4-C5-C6	5.72	120.26	117.40
36	1	187	A	OP1-P-O3'	5.72	117.80	105.20
36	1	188	U	C5-C4-O4	-5.72	122.47	125.90
36	1	633	C	C5-C4-N4	-5.72	116.19	120.20
36	1	951	A	C6-C5-N7	-5.72	128.29	132.30
36	1	1545	A	OP1-P-OP2	-5.72	111.01	119.60
36	1	2160	G	N3-C4-C5	-5.72	125.74	128.60
36	1	2334	U	N3-C2-O2	-5.72	118.19	122.20
36	1	2508	U	C2-N3-C4	5.72	130.44	127.00
36	1	2828	G	C4-C5-N7	-5.72	108.51	110.80
36	1	2841	G	C6-N1-C2	-5.72	121.67	125.10
36	1	3184	A	C5-C6-N6	-5.72	119.12	123.70
38	4	123	G	N1-C6-O6	5.72	123.33	119.90
80	6	402	C	O5'-P-OP1	5.72	117.57	110.70
85	5	88	A	C5-C6-N6	5.72	128.28	123.70
85	5	1195	A	O5'-P-OP1	-5.72	100.55	105.70
85	5	1855	U	N1-C2-O2	5.72	126.81	122.80
85	5	2193	U	C2-N3-C4	-5.72	123.57	127.00
38	8	87	G	C4-C5-N7	-5.72	108.51	110.80
69	o3	57	LYS	CD-CE-NZ	5.72	124.87	111.70
1	2	464	A	C5-N7-C8	-5.72	101.04	103.90
1	2	1135	A	C5-C6-N6	-5.72	119.12	123.70
1	2	1224	G	C6-C5-N7	-5.72	126.97	130.40
1	2	1257	C	C2-N1-C1'	5.72	125.09	118.80
1	2	1440	C	O5'-P-OP1	5.72	117.57	110.70
36	1	505	G	N7-C8-N9	-5.72	110.24	113.10
36	1	1123	U	N1-C2-N3	-5.72	111.47	114.90
36	1	2434	U	N1-C2-O2	5.72	126.81	122.80
36	1	2716	U	C6-N1-C2	5.72	124.43	121.00
36	1	3068	U	OP1-P-O3'	5.72	117.79	105.20
80	6	83	G	C6-N1-C2	5.72	128.53	125.10
80	6	163	G	O4'-C1'-N9	-5.72	103.62	108.20
80	6	303	U	C5-C6-N1	-5.72	119.84	122.70
80	6	1415	U	O5'-P-OP2	-5.72	100.55	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	101	G	C4-C5-C6	5.72	122.23	118.80
85	5	505	G	C5-C6-O6	-5.72	125.17	128.60
85	5	577	C	N1-C2-O2	-5.72	115.47	118.90
85	5	1338	C	N1-C2-N3	5.72	123.21	119.20
85	5	1438	U	N1-C2-N3	5.72	118.33	114.90
85	5	1535	A	OP1-P-O3'	5.72	117.79	105.20
85	5	2415	C	C2-N1-C1'	5.72	125.09	118.80
85	5	2767	U	OP2-P-O3'	5.72	117.79	105.20
85	5	3140	G	OP1-P-O3'	5.72	117.79	105.20
37	7	63	A	C2-N3-C4	-5.72	107.74	110.60
38	8	23	U	O5'-P-OP1	-5.72	100.55	105.70
71	o5	36	LEU	CB-CG-CD1	-5.72	101.27	111.00
36	1	63	A	N9-C4-C5	-5.72	103.51	105.80
36	1	560	G	N3-C2-N2	-5.72	115.89	119.90
80	6	154	G	C6-N1-C2	-5.72	121.67	125.10
80	6	550	A	N1-C6-N6	-5.72	115.17	118.60
80	6	1061	A	N1-C6-N6	5.72	122.03	118.60
80	6	1692	G	N1-C2-N3	-5.72	120.47	123.90
85	5	1465	A	N1-C6-N6	-5.72	115.17	118.60
85	5	2343	C	O5'-P-OP2	5.72	117.57	110.70
85	5	2831	G	N3-C4-C5	-5.72	125.74	128.60
85	5	3047	U	N3-C4-O4	-5.72	115.40	119.40
38	8	54	A	O5'-P-OP1	-5.72	100.55	105.70
1	2	12	U	OP1-P-OP2	-5.72	111.02	119.60
36	1	376	G	N1-C2-N3	5.72	127.33	123.90
36	1	1461	A	O5'-P-OP1	5.72	117.56	110.70
36	1	1757	A	C6-N1-C2	5.72	122.03	118.60
36	1	1896	A	N1-C2-N3	5.72	132.16	129.30
36	1	2403	G	C6-C5-N7	-5.72	126.97	130.40
36	1	3182	G	N7-C8-N9	-5.72	110.24	113.10
36	1	3358	U	C2-N3-C4	-5.72	123.57	127.00
80	6	287	G	C5-C6-N1	5.72	114.36	111.50
80	6	459	G	C8-N9-C4	-5.72	104.11	106.40
80	6	596	C	N3-C2-O2	5.72	125.90	121.90
80	6	1102	G	N1-C2-N2	5.72	121.35	116.20
80	6	1340	U	C5-C6-N1	5.72	125.56	122.70
85	5	570	A	C5-C6-N6	-5.72	119.12	123.70
85	5	645	A	C6-C5-N7	5.72	136.30	132.30
85	5	831	G	N1-C6-O6	5.72	123.33	119.90
85	5	1397	C	C2-N1-C1'	5.72	125.09	118.80
85	5	1661	G	C4-C5-C6	-5.72	115.37	118.80
85	5	1678	G	N3-C4-C5	-5.72	125.74	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1838	G	N9-C4-C5	-5.72	103.11	105.40
85	5	2096	A	C6-C5-N7	-5.72	128.30	132.30
85	5	2251	G	C6-C5-N7	-5.72	126.97	130.40
85	5	2705	A	OP1-P-OP2	-5.72	111.02	119.60
1	2	352	A	C6-N1-C2	-5.72	115.17	118.60
36	1	126	U	C2-N3-C4	-5.72	123.57	127.00
36	1	1264	G	C5-C6-N1	-5.72	108.64	111.50
36	1	3174	A	C6-C5-N7	-5.72	128.30	132.30
85	5	1943	C	C5-C4-N4	-5.72	116.20	120.20
36	1	344	A	C6-N1-C2	5.72	122.03	118.60
36	1	624	G	C5-C6-O6	-5.72	125.17	128.60
36	1	750	G	C4-N9-C1'	5.72	133.93	126.50
36	1	923	C	C5-C6-N1	5.72	123.86	121.00
36	1	1765	U	O4'-C1'-N1	5.72	112.77	108.20
36	1	1799	A	N3-C4-N9	-5.72	122.83	127.40
36	1	2723	U	C5-C6-N1	-5.72	119.84	122.70
36	1	2800	G	N1-C2-N2	-5.72	111.05	116.20
36	1	3071	U	C5-C4-O4	5.72	129.33	125.90
36	1	3173	G	C6-N1-C2	-5.72	121.67	125.10
36	1	3207	U	O5'-P-OP2	-5.72	100.56	105.70
38	4	14	C	C2-N1-C1'	-5.72	112.51	118.80
75	O9	46	ARG	NE-CZ-NH2	-5.72	117.44	120.30
80	6	337	G	C2-N3-C4	5.72	114.76	111.90
80	6	596	C	OP1-P-O3'	5.72	117.78	105.20
80	6	893	U	C5-C6-N1	-5.72	119.84	122.70
80	6	1050	G	C5-C6-N1	-5.72	108.64	111.50
80	6	1790	A	C5-C6-N1	5.72	120.56	117.70
85	5	534	U	C2-N1-C1'	5.72	124.56	117.70
85	5	630	A	C8-N9-C1'	-5.72	117.41	127.70
85	5	933	A	N3-C4-C5	-5.72	122.80	126.80
85	5	1586	G	N3-C4-C5	-5.72	125.74	128.60
85	5	2403	G	O5'-P-OP1	5.72	117.56	110.70
85	5	2670	G	C8-N9-C4	-5.72	104.11	106.40
37	7	111	U	N3-C4-C5	-5.72	111.17	114.60
38	8	16	G	N1-C2-N2	-5.72	111.06	116.20
1	2	1144	C	N1-C2-O2	-5.71	115.47	118.90
1	2	1261	G	N7-C8-N9	5.71	115.96	113.10
1	2	1363	U	N1-C2-O2	5.71	126.80	122.80
1	2	1458	A	C2-N3-C4	-5.71	107.74	110.60
36	1	54	C	C5-C4-N4	-5.71	116.20	120.20
36	1	89	A	OP2-P-O3'	5.71	117.77	105.20
36	1	770	G	O4'-C1'-N9	5.71	112.77	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1005	G	N9-C4-C5	-5.71	103.11	105.40
36	1	1375	G	N1-C6-O6	5.71	123.33	119.90
36	1	2648	G	N3-C4-N9	-5.71	122.57	126.00
36	1	2671	A	OP2-P-O3'	5.71	117.77	105.20
36	1	2889	C	C5-C6-N1	-5.71	118.14	121.00
36	1	3135	U	OP1-P-O3'	5.71	117.77	105.20
37	3	111	U	C4-C5-C6	5.71	123.13	119.70
80	6	127	G	C5-N7-C8	-5.71	101.44	104.30
80	6	143	G	N1-C2-N3	5.71	127.33	123.90
85	5	189	G	OP1-P-OP2	5.71	128.17	119.60
85	5	577	C	O5'-P-OP2	-5.71	100.56	105.70
85	5	847	A	N9-C4-C5	5.71	108.08	105.80
85	5	1203	A	C4-C5-N7	-5.71	107.84	110.70
85	5	1349	G	C2-N3-C4	5.71	114.76	111.90
85	5	1548	C	N3-C2-O2	-5.71	117.90	121.90
85	5	1775	G	C5-C6-N1	5.71	114.36	111.50
85	5	1847	A	N9-C4-C5	5.71	108.09	105.80
85	5	2378	C	OP1-P-O3'	5.71	117.77	105.20
85	5	2663	G	O5'-P-OP2	5.71	117.56	110.70
85	5	2933	A	OP1-P-OP2	5.71	128.17	119.60
37	7	111	U	C6-N1-C2	-5.71	117.57	121.00
38	8	12	A	N1-C2-N3	5.71	132.16	129.30
38	8	81	U	O5'-P-OP2	-5.71	100.56	105.70
66	o0	97	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	2	280	U	N1-C2-N3	-5.71	111.47	114.90
1	2	801	C	N3-C2-O2	5.71	125.90	121.90
36	1	280	U	N3-C2-O2	-5.71	118.20	122.20
36	1	3390	G	C5-C6-O6	-5.71	125.17	128.60
80	6	171	A	C4-C5-N7	-5.71	107.84	110.70
80	6	1439	C	N3-C2-O2	5.71	125.90	121.90
85	5	741	U	O5'-P-OP1	-5.71	100.56	105.70
85	5	910	G	C5-C6-O6	-5.71	125.17	128.60
85	5	1914	G	C4-C5-C6	5.71	122.23	118.80
85	5	2176	U	C4-C5-C6	5.71	123.13	119.70
85	5	3111	U	N1-C2-O2	-5.71	118.80	122.80
37	7	105	C	C4-C5-C6	5.71	120.26	117.40
1	2	612	U	C4-C5-C6	-5.71	116.27	119.70
36	1	162	G	N1-C2-N3	-5.71	120.47	123.90
36	1	659	G	O4'-C1'-N9	5.71	112.77	108.20
36	1	1214	U	C5-C4-O4	-5.71	122.47	125.90
36	1	1319	G	C5-C6-N1	5.71	114.36	111.50
36	1	1583	A	C8-N9-C4	-5.71	103.52	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2330	C	C4-C5-C6	-5.71	114.55	117.40
36	1	2595	A	O5'-P-OP2	5.71	117.56	110.70
36	1	2874	G	C5-C6-O6	5.71	132.03	128.60
36	1	2894	C	O5'-P-OP1	5.71	117.55	110.70
36	1	3071	U	N1-C2-O2	-5.71	118.80	122.80
36	1	3130	A	C4-N9-C1'	5.71	136.58	126.30
36	1	3206	C	C5-C6-N1	5.71	123.86	121.00
37	3	92	A	C5-N7-C8	5.71	106.76	103.90
38	4	100	U	C5-C4-O4	-5.71	122.47	125.90
80	6	797	G	C8-N9-C4	5.71	108.69	106.40
80	6	944	A	C8-N9-C4	-5.71	103.52	105.80
80	6	1065	A	N7-C8-N9	5.71	116.66	113.80
80	6	1076	A	N1-C6-N6	-5.71	115.17	118.60
80	6	1338	C	C6-N1-C2	5.71	122.58	120.30
80	6	1483	A	N1-C2-N3	5.71	132.16	129.30
85	5	266	A	C5-C6-N1	5.71	120.56	117.70
85	5	1845	G	C5-C6-N1	5.71	114.36	111.50
85	5	2985	C	O5'-P-OP1	-5.71	100.56	105.70
36	1	105	C	N3-C4-C5	5.71	124.18	121.90
36	1	327	A	C4-C5-C6	-5.71	114.14	117.00
36	1	699	A	N1-C6-N6	-5.71	115.17	118.60
36	1	1307	G	C2-N3-C4	-5.71	109.05	111.90
36	1	2336	U	N1-C2-O2	5.71	126.80	122.80
36	1	2909	U	C4-C5-C6	-5.71	116.27	119.70
36	1	2995	A	C5-N7-C8	5.71	106.75	103.90
38	4	58	G	C4-C5-C6	5.71	122.23	118.80
80	6	100	A	C4-C5-C6	5.71	119.86	117.00
85	5	1408	G	N1-C2-N2	5.71	121.34	116.20
85	5	1618	G	OP2-P-O3'	5.71	117.76	105.20
85	5	1658	G	N1-C6-O6	-5.71	116.47	119.90
85	5	1682	U	C2-N1-C1'	5.71	124.55	117.70
85	5	1794	G	N9-C4-C5	5.71	107.68	105.40
85	5	2778	G	N9-C4-C5	-5.71	103.12	105.40
85	5	2832	C	C5-C6-N1	-5.71	118.14	121.00
85	5	2994	A	N1-C2-N3	5.71	132.16	129.30
85	5	3133	C	N1-C2-N3	5.71	123.20	119.20
85	5	3136	G	N7-C8-N9	5.71	115.95	113.10
1	2	1710	G	N1-C6-O6	5.71	123.33	119.90
36	1	324	A	N1-C6-N6	-5.71	115.17	118.60
36	1	896	A	C6-N1-C2	-5.71	115.17	118.60
36	1	937	G	N3-C4-C5	-5.71	125.75	128.60
36	1	1147	G	C8-N9-C1'	-5.71	119.58	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1329	U	N3-C4-O4	5.71	123.40	119.40
36	1	1878	G	OP1-P-OP2	5.71	128.16	119.60
36	1	2534	G	OP1-P-OP2	-5.71	111.04	119.60
36	1	2957	G	N7-C8-N9	-5.71	110.25	113.10
38	4	24	G	C5-C6-N1	5.71	114.35	111.50
61	N5	106	ASP	CB-CG-OD2	5.71	123.44	118.30
80	6	609	U	O5'-P-OP2	-5.71	100.56	105.70
10	s8	194	ARG	NE-CZ-NH1	5.71	123.15	120.30
85	5	68	C	C6-N1-C2	-5.71	118.02	120.30
85	5	677	A	C5-C6-N6	5.71	128.27	123.70
85	5	844	G	OP2-P-O3'	5.71	117.76	105.20
85	5	1060	U	C5-C6-N1	-5.71	119.85	122.70
85	5	1671	C	C5-C6-N1	5.71	123.85	121.00
85	5	2358	A	C6-C5-N7	-5.71	128.30	132.30
85	5	2385	G	C8-N9-C4	5.71	108.68	106.40
85	5	3147	G	N1-C2-N3	5.71	127.33	123.90
37	7	39	C	C4-C5-C6	5.71	120.25	117.40
47	m0	178	ARG	NE-CZ-NH2	-5.71	117.45	120.30
1	2	581	U	N1-C2-N3	5.71	118.32	114.90
1	2	814	U	C5-C6-N1	5.71	125.55	122.70
1	2	1089	U	N3-C4-C5	-5.71	111.18	114.60
1	2	1271	G	C6-N1-C2	-5.71	121.68	125.10
1	2	1710	G	C4-C5-N7	5.71	113.08	110.80
36	1	536	U	N3-C4-O4	5.71	123.39	119.40
36	1	656	A	N1-C6-N6	5.71	122.02	118.60
36	1	796	U	C4-C5-C6	5.71	123.12	119.70
36	1	891	G	N7-C8-N9	-5.71	110.25	113.10
36	1	1148	G	C5-N7-C8	-5.71	101.45	104.30
36	1	1191	U	C2-N1-C1'	-5.71	110.85	117.70
36	1	3319	U	OP1-P-OP2	5.71	128.16	119.60
80	6	11	A	N1-C6-N6	-5.71	115.18	118.60
80	6	1354	G	C4-N9-C1'	5.71	133.92	126.50
80	6	1547	A	N7-C8-N9	5.71	116.65	113.80
85	5	111	C	N1-C2-N3	-5.71	115.20	119.20
85	5	527	A	O5'-P-OP2	5.71	117.55	110.70
85	5	2863	G	N3-C2-N2	5.71	123.89	119.90
85	5	3238	G	N7-C8-N9	5.71	115.95	113.10
38	8	3	A	N3-C4-C5	-5.71	122.81	126.80
38	8	151	C	C4-C5-C6	5.71	120.25	117.40
1	2	1281	U	N3-C2-O2	-5.71	118.21	122.20
36	1	370	U	C4-C5-C6	5.71	123.12	119.70
36	1	916	G	P-O3'-C3'	5.71	126.55	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1174	G	N3-C4-N9	5.71	129.42	126.00
36	1	3361	G	N1-C2-N3	5.71	127.32	123.90
80	6	290	G	N9-C4-C5	5.71	107.68	105.40
80	6	1134	C	O5'-P-OP1	5.71	117.55	110.70
85	5	99	A	N7-C8-N9	-5.71	110.95	113.80
85	5	374	A	O5'-P-OP1	5.71	117.55	110.70
85	5	637	C	C4-C5-C6	-5.71	114.55	117.40
85	5	647	A	N1-C6-N6	-5.71	115.18	118.60
85	5	1129	A	C5-C6-N6	-5.71	119.14	123.70
85	5	1457	U	N1-C2-O2	-5.71	118.81	122.80
85	5	2357	A	N9-C4-C5	-5.71	103.52	105.80
85	5	2444	C	N3-C4-C5	5.71	124.18	121.90
85	5	2802	A	N1-C2-N3	-5.71	126.45	129.30
37	7	19	C	C2-N3-C4	-5.71	117.05	119.90
1	2	594	A	C6-N1-C2	-5.70	115.18	118.60
1	2	893	C	N1-C2-O2	5.70	122.32	118.90
1	2	1063	U	C5-C4-O4	5.70	129.32	125.90
36	1	277	G	N9-C4-C5	5.70	107.68	105.40
36	1	339	C	C2-N1-C1'	-5.70	112.53	118.80
36	1	828	A	N3-C4-C5	5.70	130.79	126.80
36	1	929	A	N7-C8-N9	5.70	116.65	113.80
36	1	1201	C	N3-C4-C5	5.70	124.18	121.90
36	1	1745	C	C4-C5-C6	5.70	120.25	117.40
36	1	1765	U	N1-C2-N3	-5.70	111.48	114.90
36	1	2099	A	O4'-C1'-N9	5.70	112.76	108.20
36	1	2243	A	N3-C4-C5	-5.70	122.81	126.80
36	1	2311	G	N3-C4-C5	5.70	131.45	128.60
36	1	2332	A	OP1-P-O3'	5.70	117.75	105.20
36	1	2771	U	C4-C5-C6	-5.70	116.28	119.70
36	1	3276	G	N3-C2-N2	5.70	123.89	119.90
39	L2	64	ARG	NE-CZ-NH1	5.70	123.15	120.30
80	6	398	G	N3-C4-C5	-5.70	125.75	128.60
80	6	1595	U	C5-C6-N1	-5.70	119.85	122.70
85	5	218	G	N3-C2-N2	5.70	123.89	119.90
85	5	636	C	P-O3'-C3'	5.70	126.55	119.70
85	5	726	G	OP1-P-OP2	5.70	128.16	119.60
85	5	1500	G	O5'-P-OP1	5.70	117.55	110.70
85	5	2918	G	OP1-P-O3'	5.70	117.75	105.20
85	5	2954	U	N1-C2-N3	5.70	118.32	114.90
37	7	96	U	N3-C2-O2	5.70	126.19	122.20
22	D0	68	ARG	NE-CZ-NH1	-5.70	117.45	120.30
36	1	143	G	C8-N9-C4	-5.70	104.12	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	386	A	C5-N7-C8	-5.70	101.05	103.90
36	1	1349	G	N7-C8-N9	-5.70	110.25	113.10
36	1	1394	A	O5'-P-OP1	5.70	117.54	110.70
36	1	2528	G	C2-N3-C4	-5.70	109.05	111.90
36	1	3224	G	C2-N3-C4	-5.70	109.05	111.90
80	6	999	U	OP1-P-OP2	-5.70	111.05	119.60
80	6	1581	C	O5'-P-OP2	-5.70	100.57	105.70
85	5	374	A	N3-C4-C5	-5.70	122.81	126.80
85	5	1781	C	N1-C2-N3	-5.70	115.21	119.20
85	5	2578	U	N3-C4-O4	-5.70	115.41	119.40
85	5	3049	A	C2-N3-C4	-5.70	107.75	110.60
38	8	31	G	N1-C2-N2	5.70	121.33	116.20
1	2	508	U	C2-N3-C4	5.70	130.42	127.00
1	2	1455	C	N1-C2-O2	-5.70	115.48	118.90
1	2	1603	C	C6-N1-C2	-5.70	118.02	120.30
36	1	194	U	N3-C2-O2	5.70	126.19	122.20
36	1	389	A	C6-N1-C2	-5.70	115.18	118.60
36	1	532	A	N7-C8-N9	-5.70	110.95	113.80
36	1	1212	A	C5-C6-N6	-5.70	119.14	123.70
36	1	1556	C	C4-C5-C6	5.70	120.25	117.40
36	1	1633	C	N3-C4-N4	5.70	121.99	118.00
36	1	1776	G	C5-N7-C8	-5.70	101.45	104.30
36	1	1808	G	N3-C4-C5	-5.70	125.75	128.60
36	1	2662	G	C8-N9-C4	5.70	108.68	106.40
36	1	2936	A	C5-C6-N1	5.70	120.55	117.70
38	4	151	C	C6-N1-C2	-5.70	118.02	120.30
54	M8	32	LEU	CA-CB-CG	5.70	128.41	115.30
80	6	603	U	C5-C4-O4	-5.70	122.48	125.90
80	6	1322	A	N1-C2-N3	5.70	132.15	129.30
80	6	1626	U	N1-C2-O2	-5.70	118.81	122.80
80	6	1703	C	N1-C2-O2	5.70	122.32	118.90
85	5	318	A	C5-C6-N1	5.70	120.55	117.70
85	5	773	G	C5-C6-O6	-5.70	125.18	128.60
85	5	1103	A	O5'-P-OP2	5.70	117.54	110.70
85	5	1299	U	C6-N1-C2	-5.70	117.58	121.00
85	5	1455	U	C2-N3-C4	-5.70	123.58	127.00
85	5	1838	G	OP1-P-OP2	-5.70	111.05	119.60
85	5	2351	U	O4'-C1'-N1	5.70	112.76	108.20
85	5	2697	A	O5'-P-OP1	-5.70	100.57	105.70
85	5	2698	G	C6-N1-C2	-5.70	121.68	125.10
85	5	2715	A	OP2-P-O3'	5.70	117.74	105.20
85	5	2770	G	N1-C6-O6	5.70	123.32	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	l3	17	LEU	CB-CG-CD1	-5.70	101.31	111.00
1	2	1003	A	N9-C4-C5	5.70	108.08	105.80
1	2	1157	C	C5-C6-N1	-5.70	118.15	121.00
1	2	1528	A	C6-N1-C2	5.70	122.02	118.60
36	1	272	G	C4-C5-N7	-5.70	108.52	110.80
36	1	291	C	O5'-P-OP2	-5.70	100.57	105.70
36	1	697	A	C6-N1-C2	5.70	122.02	118.60
36	1	1307	G	OP1-P-OP2	5.70	128.15	119.60
36	1	2399	A	N1-C2-N3	-5.70	126.45	129.30
80	6	320	U	OP1-P-OP2	5.70	128.15	119.60
80	6	346	G	C5-C6-O6	-5.70	125.18	128.60
80	6	1737	G	O5'-P-OP2	-5.70	100.57	105.70
85	5	699	A	C6-C5-N7	-5.70	128.31	132.30
85	5	851	C	N3-C4-N4	5.70	121.99	118.00
85	5	1335	C	C2-N1-C1'	-5.70	112.53	118.80
85	5	1504	A	OP2-P-O3'	5.70	117.74	105.20
85	5	2375	G	N1-C2-N3	5.70	127.32	123.90
85	5	3131	U	N3-C4-C5	5.70	118.02	114.60
85	5	3140	G	N7-C8-N9	5.70	115.95	113.10
36	1	631	U	N3-C2-O2	5.70	126.19	122.20
38	4	93	U	C6-N1-C2	-5.70	117.58	121.00
80	6	831	U	C5-C4-O4	5.70	129.32	125.90
80	6	1041	G	C4-C5-C6	5.70	122.22	118.80
80	6	1046	G	N3-C2-N2	5.70	123.89	119.90
80	6	1092	A	C4-C5-C6	-5.70	114.15	117.00
85	5	1059	G	C4-C5-N7	-5.70	108.52	110.80
85	5	1357	G	C5-C6-N1	5.70	114.35	111.50
85	5	1434	G	C5'-C4'-O4'	5.70	115.94	109.10
85	5	2232	A	C4-C5-N7	-5.70	107.85	110.70
85	5	2613	U	C4-C5-C6	5.70	123.12	119.70
85	5	2687	G	N3-C2-N2	5.70	123.89	119.90
85	5	2942	C	C5-C4-N4	-5.70	116.21	120.20
1	2	585	A	C8-N9-C4	5.70	108.08	105.80
1	2	1641	G	C6-N1-C2	-5.70	121.68	125.10
36	1	242	C	C6-N1-C2	-5.70	118.02	120.30
36	1	431	U	C6-N1-C2	5.70	124.42	121.00
36	1	792	G	O5'-P-OP2	-5.70	100.57	105.70
36	1	997	A	N9-C4-C5	5.70	108.08	105.80
36	1	1868	G	N1-C6-O6	-5.70	116.48	119.90
36	1	2276	G	C4-C5-C6	-5.70	115.38	118.80
36	1	3105	U	N1-C2-O2	5.70	126.79	122.80
80	6	105	A	C8-N9-C4	5.70	108.08	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	941	A	C5-N7-C8	5.70	106.75	103.90
80	6	1376	C	N1-C2-O2	-5.70	115.48	118.90
80	6	1617	U	N3-C4-C5	-5.70	111.18	114.60
80	6	1651	A	C6-C5-N7	-5.70	128.31	132.30
85	5	787	G	N3-C4-N9	-5.70	122.58	126.00
85	5	1756	C	N1-C2-O2	-5.70	115.48	118.90
85	5	1756	C	C5-C6-N1	-5.70	118.15	121.00
85	5	1770	G	C6-N1-C2	-5.70	121.68	125.10
85	5	1935	G	N1-C2-N3	-5.70	120.48	123.90
85	5	2309	A	C4-C5-C6	5.70	119.85	117.00
85	5	2765	C	N1-C2-O2	-5.70	115.48	118.90
85	5	2920	U	C5-C6-N1	5.70	125.55	122.70
36	1	567	G	N7-C8-N9	5.69	115.95	113.10
36	1	1124	U	C2-N3-C4	5.69	130.42	127.00
36	1	1139	G	N1-C6-O6	5.69	123.32	119.90
36	1	2311	G	O4'-C1'-N9	-5.69	103.64	108.20
36	1	2698	G	C5-N7-C8	5.69	107.15	104.30
36	1	3242	G	O5'-P-OP1	5.69	117.53	110.70
80	6	823	G	N3-C2-N2	5.69	123.89	119.90
80	6	1108	G	C6-N1-C2	-5.69	121.68	125.10
80	6	1108	G	OP1-P-OP2	-5.69	111.06	119.60
85	5	3	U	N3-C4-C5	5.69	118.02	114.60
85	5	302	U	O5'-P-OP1	5.69	117.53	110.70
85	5	676	G	N1-C6-O6	-5.69	116.48	119.90
85	5	692	A	C6-C5-N7	-5.69	128.31	132.30
85	5	854	G	C4-C5-C6	5.69	122.22	118.80
85	5	1939	G	C4-C5-N7	-5.69	108.52	110.80
85	5	2303	A	C4-C5-C6	5.69	119.85	117.00
85	5	2335	G	OP2-P-O3'	5.69	117.73	105.20
85	5	2355	G	N7-C8-N9	5.69	115.95	113.10
42	l5	213	ASP	CB-CG-OD1	5.69	123.42	118.30
1	2	620	A	C2-N3-C4	-5.69	107.75	110.60
1	2	1494	U	C6-N1-C2	-5.69	117.58	121.00
36	1	21	G	C8-N9-C1'	-5.69	119.60	127.00
36	1	42	C	C4-C5-C6	5.69	120.25	117.40
36	1	606	C	OP2-P-O3'	-5.69	92.68	105.20
36	1	832	G	C5-C6-N1	5.69	114.35	111.50
36	1	1370	G	N1-C2-N2	-5.69	111.08	116.20
36	1	1536	G	C5-N7-C8	-5.69	101.45	104.30
36	1	1840	U	C2-N3-C4	-5.69	123.58	127.00
36	1	2395	G	N1-C2-N2	5.69	121.32	116.20
36	1	2415	C	OP1-P-O3'	5.69	117.72	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	142	G	C5-C6-N1	5.69	114.35	111.50
80	6	235	G	N3-C4-N9	-5.69	122.58	126.00
80	6	256	A	C4-C5-N7	5.69	113.55	110.70
80	6	297	U	OP1-P-OP2	-5.69	111.06	119.60
85	5	139	G	N1-C6-O6	5.69	123.32	119.90
85	5	190	U	C5-C6-N1	5.69	125.55	122.70
85	5	639	G	C5-C6-N1	-5.69	108.65	111.50
85	5	1093	A	N1-C2-N3	5.69	132.15	129.30
85	5	1474	A	C4-C5-N7	5.69	113.55	110.70
85	5	2114	C	C5-C4-N4	-5.69	116.22	120.20
85	5	2339	C	C6-N1-C1'	-5.69	113.97	120.80
85	5	2351	U	C5-C4-O4	5.69	129.31	125.90
85	5	2607	G	O4'-C1'-N9	-5.69	103.65	108.20
1	2	362	G	OP1-P-OP2	-5.69	111.06	119.60
1	2	1041	U	N1-C2-O2	5.69	126.78	122.80
36	1	423	A	OP2-P-O3'	5.69	117.72	105.20
36	1	1767	C	C2-N3-C4	-5.69	117.06	119.90
36	1	2095	G	N3-C4-N9	5.69	129.41	126.00
36	1	2132	C	O4'-C1'-N1	-5.69	103.65	108.20
36	1	2432	A	OP1-P-OP2	5.69	128.13	119.60
37	3	45	A	N1-C6-N6	-5.69	115.19	118.60
80	6	1697	G	N3-C4-N9	5.69	129.41	126.00
80	6	1701	A	N9-C4-C5	-5.69	103.52	105.80
85	5	949	C	C5-C4-N4	-5.69	116.22	120.20
85	5	1044	U	N1-C2-O2	-5.69	118.82	122.80
85	5	1119	C	N3-C2-O2	5.69	125.88	121.90
85	5	1133	A	N9-C1'-C2'	-5.69	105.74	112.00
85	5	1452	A	C4-C5-C6	5.69	119.85	117.00
85	5	1836	C	O5'-P-OP2	5.69	117.53	110.70
85	5	2582	C	C6-N1-C2	5.69	122.58	120.30
1	2	742	U	OP1-P-OP2	-5.69	111.07	119.60
1	2	890	A	C2-N3-C4	5.69	113.44	110.60
1	2	972	U	N3-C4-O4	-5.69	115.42	119.40
6	S4	108	ARG	NE-CZ-NH2	5.69	123.14	120.30
38	4	85	G	O5'-P-OP2	5.69	117.53	110.70
38	4	122	U	N1-C2-N3	5.69	118.31	114.90
80	6	243	G	C5-N7-C8	-5.69	101.46	104.30
80	6	778	G	C8-N9-C4	5.69	108.68	106.40
80	6	1706	C	C6-N1-C2	5.69	122.58	120.30
85	5	233	C	N3-C4-C5	5.69	124.18	121.90
85	5	351	A	OP1-P-O3'	5.69	117.72	105.20
85	5	1162	U	C6-N1-C2	-5.69	117.59	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1845	G	N3-C4-N9	5.69	129.41	126.00
85	5	2880	U	C5-C6-N1	5.69	125.55	122.70
37	7	5	G	C5-N7-C8	5.69	107.14	104.30
40	l3	282	ILE	CG1-CB-CG2	-5.69	98.88	111.40
72	o6	76	ARG	NE-CZ-NH2	-5.69	117.46	120.30
1	2	279	G	C5-C6-N1	5.69	114.34	111.50
1	2	1174	U	C2-N3-C4	-5.69	123.59	127.00
36	1	761	A	C8-N9-C4	-5.69	103.53	105.80
36	1	1093	A	C8-N9-C4	5.69	108.08	105.80
36	1	1300	G	C5-C6-O6	-5.69	125.19	128.60
36	1	1308	A	O5'-P-OP2	5.69	117.52	110.70
36	1	1397	C	O4'-C1'-N1	-5.69	103.65	108.20
36	1	1899	G	C5-C6-O6	5.69	132.01	128.60
36	1	2255	A	C5-C6-N1	5.69	120.54	117.70
36	1	2275	A	C2-N3-C4	-5.69	107.76	110.60
36	1	2302	G	OP1-P-O3'	5.69	117.71	105.20
36	1	2366	C	C4-C5-C6	5.69	120.24	117.40
36	1	2627	C	C4-C5-C6	5.69	120.24	117.40
36	1	2849	C	C5-C4-N4	5.69	124.18	120.20
36	1	2924	U	C2-N1-C1'	-5.69	110.88	117.70
36	1	2968	G	N3-C2-N2	-5.69	115.92	119.90
36	1	3061	G	N1-C2-N2	5.69	121.32	116.20
36	1	3262	U	C4-C5-C6	5.69	123.11	119.70
37	3	82	G	C5-C6-N1	-5.69	108.66	111.50
52	M6	151	ASP	CB-CG-OD2	5.69	123.42	118.30
80	6	1033	C	N1-C2-O2	-5.69	115.49	118.90
80	6	1574	G	C5-C6-N1	5.69	114.34	111.50
85	5	173	G	N1-C6-O6	-5.69	116.49	119.90
85	5	311	C	C5-C6-N1	-5.69	118.16	121.00
85	5	664	U	OP1-P-OP2	-5.69	111.07	119.60
85	5	881	C	C2-N1-C1'	5.69	125.06	118.80
85	5	2340	U	C5-C6-N1	5.69	125.54	122.70
85	5	2380	U	C5-C6-N1	-5.69	119.86	122.70
85	5	2525	G	C5-C6-N1	5.69	114.34	111.50
85	5	2598	G	C4-C5-C6	5.69	122.21	118.80
85	5	2778	G	N1-C6-O6	5.69	123.31	119.90
85	5	2968	G	OP1-P-OP2	-5.69	111.07	119.60
85	5	3108	G	N7-C8-N9	5.69	115.94	113.10
64	n8	9	ARG	NE-CZ-NH1	-5.69	117.46	120.30
1	2	966	A	C6-N1-C2	-5.69	115.19	118.60
1	2	1206	A	N9-C4-C5	-5.69	103.53	105.80
36	1	94	G	OP1-P-OP2	5.69	128.13	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	830	A	N7-C8-N9	5.69	116.64	113.80
36	1	941	G	C5-N7-C8	-5.69	101.46	104.30
36	1	2501	U	C6-N1-C2	-5.69	117.59	121.00
36	1	2660	G	C4-C5-N7	5.69	113.07	110.80
36	1	2787	G	C5-N7-C8	-5.69	101.46	104.30
37	3	115	G	N9-C4-C5	-5.69	103.13	105.40
80	6	311	U	OP2-P-O3'	-5.69	92.69	105.20
85	5	145	G	N3-C4-N9	-5.69	122.59	126.00
85	5	918	C	C5-C4-N4	-5.69	116.22	120.20
85	5	929	A	N1-C2-N3	5.69	132.14	129.30
85	5	1443	G	O5'-P-OP2	5.69	117.52	110.70
85	5	3076	C	N1-C2-N3	5.69	123.18	119.20
1	2	355	G	C5-C6-N1	5.68	114.34	111.50
1	2	1153	G	N3-C2-N2	-5.68	115.92	119.90
1	2	1459	C	N3-C2-O2	5.68	125.88	121.90
1	2	1478	C	N3-C2-O2	-5.68	117.92	121.90
36	1	896	A	C8-N9-C4	-5.68	103.53	105.80
36	1	1161	G	C5-N7-C8	-5.68	101.46	104.30
36	1	1507	G	N1-C6-O6	5.68	123.31	119.90
36	1	1913	A	N1-C6-N6	5.68	122.01	118.60
36	1	1928	G	C4-C5-C6	-5.68	115.39	118.80
36	1	2211	U	C6-N1-C2	-5.68	117.59	121.00
36	1	2407	C	C6-N1-C2	-5.68	118.03	120.30
36	1	2833	A	O5'-P-OP2	-5.68	100.58	105.70
36	1	3080	G	N3-C4-C5	-5.68	125.76	128.60
36	1	3167	A	N1-C2-N3	-5.68	126.46	129.30
80	6	234	G	N3-C4-N9	5.68	129.41	126.00
80	6	313	U	O5'-P-OP1	-5.68	100.58	105.70
80	6	477	A	N9-C4-C5	-5.68	103.53	105.80
80	6	560	U	C5-C6-N1	5.68	125.54	122.70
80	6	661	A	C2-N3-C4	5.68	113.44	110.60
80	6	992	A	C2-N3-C4	5.68	113.44	110.60
85	5	187	A	O4'-C1'-N9	5.68	112.75	108.20
85	5	606	C	C2-N3-C4	-5.68	117.06	119.90
85	5	913	A	N7-C8-N9	5.68	116.64	113.80
85	5	969	C	C5-C4-N4	5.68	124.18	120.20
85	5	2868	U	N3-C4-O4	5.68	123.38	119.40
85	5	3197	G	N9-C4-C5	5.68	107.67	105.40
1	2	828	G	C5-N7-C8	5.68	107.14	104.30
36	1	135	C	N3-C4-N4	5.68	121.98	118.00
36	1	330	G	N1-C6-O6	5.68	123.31	119.90
36	1	513	G	N3-C4-C5	-5.68	125.76	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	710	A	N7-C8-N9	5.68	116.64	113.80
36	1	813	G	OP2-P-O3'	5.68	117.70	105.20
36	1	1507	G	C6-C5-N7	-5.68	126.99	130.40
36	1	1798	A	C4-C5-N7	5.68	113.54	110.70
36	1	1812	G	C5-C6-O6	5.68	132.01	128.60
36	1	2590	A	OP2-P-O3'	5.68	117.70	105.20
36	1	2992	U	O4'-C1'-N1	-5.68	103.65	108.20
36	1	3045	G	C6-C5-N7	-5.68	126.99	130.40
36	1	3132	C	N3-C2-O2	-5.68	117.92	121.90
80	6	96	G	N3-C4-N9	-5.68	122.59	126.00
80	6	457	G	C5-C6-O6	5.68	132.01	128.60
80	6	524	U	C5-C6-N1	-5.68	119.86	122.70
80	6	1504	G	C8-N9-C4	-5.68	104.13	106.40
85	5	819	U	C4-C5-C6	5.68	123.11	119.70
85	5	2361	A	N3-C4-C5	-5.68	122.82	126.80
85	5	2583	C	C5-C6-N1	5.68	123.84	121.00
85	5	2904	U	C2-N1-C1'	5.68	124.52	117.70
85	5	2962	U	C6-N1-C2	-5.68	117.59	121.00
85	5	3175	U	C4-C5-C6	5.68	123.11	119.70
1	2	126	A	C5-C6-N6	5.68	128.25	123.70
1	2	1282	G	N3-C4-C5	-5.68	125.76	128.60
36	1	433	A	N1-C2-N3	5.68	132.14	129.30
36	1	1498	A	N1-C2-N3	5.68	132.14	129.30
36	1	2255	A	N1-C6-N6	-5.68	115.19	118.60
36	1	2649	A	N1-C6-N6	-5.68	115.19	118.60
36	1	3066	U	OP1-P-OP2	-5.68	111.08	119.60
39	L2	148	VAL	CG1-CB-CG2	-5.68	101.81	110.90
85	5	245	U	C2-N3-C4	-5.68	123.59	127.00
85	5	583	G	N3-C4-C5	5.68	131.44	128.60
85	5	1357	G	C5-C6-O6	5.68	132.01	128.60
85	5	2407	C	P-O3'-C3'	-5.68	112.88	119.70
85	5	2521	U	N3-C4-O4	5.68	123.38	119.40
85	5	3316	A	OP1-P-OP2	-5.68	111.08	119.60
38	8	125	U	C2-N3-C4	5.68	130.41	127.00
36	1	622	A	C6-C5-N7	-5.68	128.32	132.30
36	1	897	U	N3-C4-O4	-5.68	115.42	119.40
36	1	1867	A	C8-N9-C4	5.68	108.07	105.80
36	1	2894	C	C4-C5-C6	5.68	120.24	117.40
36	1	3107	U	N1-C2-N3	5.68	118.31	114.90
38	4	20	U	N1-C2-O2	-5.68	118.82	122.80
80	6	545	A	N9-C4-C5	5.68	108.07	105.80
80	6	975	C	O5'-P-OP2	-5.68	100.59	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	264	G	C4-C5-N7	-5.68	108.53	110.80
85	5	394	G	C2-N3-C4	-5.68	109.06	111.90
85	5	633	C	N3-C4-N4	5.68	121.97	118.00
85	5	722	G	N3-C2-N2	-5.68	115.92	119.90
85	5	784	A	N3-C4-N9	-5.68	122.86	127.40
85	5	790	U	C2-N3-C4	5.68	130.41	127.00
85	5	826	G	N7-C8-N9	5.68	115.94	113.10
85	5	947	G	N1-C2-N2	-5.68	111.09	116.20
85	5	1476	G	C8-N9-C1'	-5.68	119.62	127.00
85	5	1639	C	C2-N3-C4	5.68	122.74	119.90
37	7	23	A	C2-N3-C4	5.68	113.44	110.60
1	2	324	U	N3-C4-C5	-5.68	111.19	114.60
36	1	400	G	C5-C6-N1	5.68	114.34	111.50
36	1	1033	U	C5-C4-O4	-5.68	122.49	125.90
36	1	1193	A	N7-C8-N9	5.68	116.64	113.80
36	1	1946	A	C6-N1-C2	-5.68	115.19	118.60
36	1	3256	G	OP1-P-OP2	5.68	128.12	119.60
80	6	12	U	OP1-P-OP2	-5.68	111.08	119.60
80	6	453	U	C4-C5-C6	5.68	123.11	119.70
80	6	456	A	C6-N1-C2	-5.68	115.19	118.60
80	6	1733	C	C2-N1-C1'	5.68	125.05	118.80
85	5	830	A	C6-C5-N7	-5.68	128.32	132.30
85	5	2275	A	O5'-P-OP1	-5.68	100.59	105.70
1	2	525	A	C4-C5-N7	5.68	113.54	110.70
1	2	1125	A	N7-C8-N9	5.68	116.64	113.80
36	1	530	G	N1-C2-N2	5.68	121.31	116.20
36	1	642	U	C6-N1-C2	5.68	124.41	121.00
36	1	763	G	C5-N7-C8	5.68	107.14	104.30
36	1	852	U	C5-C4-O4	5.68	129.31	125.90
36	1	1293	U	OP2-P-O3'	5.68	117.69	105.20
36	1	1379	G	N1-C2-N2	-5.68	111.09	116.20
36	1	2840	C	C5-C6-N1	-5.68	118.16	121.00
36	1	3213	A	C6-C5-N7	-5.68	128.33	132.30
80	6	64	U	C2-N3-C4	-5.68	123.59	127.00
85	5	216	G	OP2-P-O3'	5.68	117.69	105.20
85	5	666	A	O5'-P-OP2	-5.68	100.59	105.70
85	5	728	G	C6-C5-N7	-5.68	126.99	130.40
85	5	1096	U	C4-C5-C6	5.68	123.11	119.70
85	5	1412	G	C5-C6-O6	-5.68	125.19	128.60
85	5	1766	G	N3-C4-C5	-5.68	125.76	128.60
85	5	2635	A	C4-C5-C6	5.68	119.84	117.00
85	5	2818	U	C5'-C4'-O4'	-5.68	102.29	109.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3070	A	C8-N9-C4	-5.68	103.53	105.80
85	5	3119	U	O5'-P-OP2	-5.68	100.59	105.70
85	5	3288	G	N7-C8-N9	-5.68	110.26	113.10
1	2	42	G	C5-C6-O6	-5.67	125.19	128.60
1	2	1313	G	N1-C6-O6	5.67	123.31	119.90
1	2	1661	A	C4-C5-N7	5.67	113.54	110.70
36	1	780	A	C5-N7-C8	-5.67	101.06	103.90
36	1	975	C	N3-C2-O2	5.67	125.87	121.90
36	1	1204	A	C5-C6-N1	5.67	120.54	117.70
36	1	1543	G	C5-C6-O6	-5.67	125.19	128.60
36	1	2118	C	C4-C5-C6	5.67	120.24	117.40
36	1	2351	U	N3-C4-O4	5.67	123.37	119.40
36	1	2389	C	N1-C2-O2	-5.67	115.50	118.90
36	1	2675	C	C2-N1-C1'	5.67	125.04	118.80
36	1	2877	G	C4-C5-N7	-5.67	108.53	110.80
36	1	3189	G	C5-C6-N1	-5.67	108.66	111.50
80	6	100	A	C6-N1-C2	-5.67	115.19	118.60
80	6	1443	U	C5-C6-N1	-5.67	119.86	122.70
85	5	1074	U	C2-N3-C4	-5.67	123.59	127.00
85	5	1303	A	N3-C4-C5	5.67	130.77	126.80
85	5	1525	G	C5-N7-C8	-5.67	101.46	104.30
85	5	1764	U	P-O3'-C3'	5.67	126.51	119.70
85	5	1769	G	C8-N9-C4	5.67	108.67	106.40
85	5	2363	A	OP2-P-O3'	5.67	117.68	105.20
85	5	2529	A	C4-C5-C6	5.67	119.84	117.00
85	5	2592	G	N3-C4-C5	5.67	131.44	128.60
85	5	3235	C	C5-C4-N4	-5.67	116.23	120.20
37	7	67	G	N9-C4-C5	5.67	107.67	105.40
1	2	1108	A	N9-C4-C5	5.67	108.07	105.80
1	2	1410	A	N1-C2-N3	5.67	132.14	129.30
36	1	373	A	C5-C6-N6	-5.67	119.16	123.70
36	1	1928	G	OP1-P-OP2	5.67	128.11	119.60
36	1	2225	U	C6-N1-C2	-5.67	117.60	121.00
36	1	2356	A	OP1-P-O3'	5.67	117.68	105.20
36	1	3115	C	C2-N3-C4	5.67	122.74	119.90
36	1	3241	G	N7-C8-N9	-5.67	110.26	113.10
37	3	121	U	N3-C4-O4	5.67	123.37	119.40
85	5	1395	G	OP2-P-O3'	5.67	117.68	105.20
1	2	97	C	N3-C4-N4	-5.67	114.03	118.00
1	2	99	C	N3-C4-C5	5.67	124.17	121.90
1	2	169	A	O5'-P-OP2	-5.67	100.60	105.70
1	2	836	G	N9-C4-C5	-5.67	103.13	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1181	G	N7-C8-N9	5.67	115.94	113.10
1	2	1184	G	N1-C6-O6	5.67	123.30	119.90
36	1	47	C	P-O3'-C3'	-5.67	112.89	119.70
36	1	279	U	OP1-P-OP2	5.67	128.11	119.60
36	1	280	U	P-O3'-C3'	-5.67	112.89	119.70
36	1	1138	U	N1-C2-N3	5.67	118.30	114.90
36	1	1322	U	C6-N1-C2	-5.67	117.60	121.00
36	1	1426	C	C5-C4-N4	5.67	124.17	120.20
36	1	1609	C	N3-C2-O2	5.67	125.87	121.90
36	1	1648	A	N1-C2-N3	5.67	132.13	129.30
36	1	1711	C	C2-N3-C4	5.67	122.74	119.90
36	1	1831	U	OP1-P-OP2	-5.67	111.09	119.60
36	1	1858	A	N7-C8-N9	5.67	116.64	113.80
36	1	2383	C	O5'-P-OP2	-5.67	100.59	105.70
36	1	2998	U	N1-C2-N3	5.67	118.30	114.90
37	3	95	A	N7-C8-N9	5.67	116.64	113.80
80	6	1421	A	C5-N7-C8	5.67	106.73	103.90
80	6	1492	A	OP1-P-OP2	-5.67	111.09	119.60
80	6	1761	U	C5-C6-N1	-5.67	119.86	122.70
85	5	222	A	O5'-P-OP1	5.67	117.51	110.70
85	5	312	C	C6-N1-C2	-5.67	118.03	120.30
85	5	530	G	N1-C6-O6	5.67	123.30	119.90
85	5	684	G	C4-C5-N7	-5.67	108.53	110.80
85	5	794	U	N3-C4-C5	-5.67	111.20	114.60
85	5	1281	G	C4-N9-C1'	-5.67	119.13	126.50
85	5	1372	C	N1-C2-N3	5.67	123.17	119.20
85	5	1477	A	C5-C6-N6	-5.67	119.16	123.70
85	5	1526	U	N3-C4-O4	5.67	123.37	119.40
85	5	1813	A	C6-N1-C2	-5.67	115.20	118.60
85	5	2279	A	C8-N9-C4	-5.67	103.53	105.80
85	5	2319	U	OP1-P-OP2	-5.67	111.09	119.60
85	5	2387	A	C5-C6-N6	-5.67	119.16	123.70
85	5	2551	U	OP1-P-OP2	5.67	128.11	119.60
85	5	2920	U	N3-C2-O2	5.67	126.17	122.20
85	5	2933	A	C2-N3-C4	5.67	113.44	110.60
85	5	3372	A	C2-N3-C4	5.67	113.44	110.60
37	7	20	A	OP1-P-OP2	-5.67	111.09	119.60
38	8	99	C	N1-C2-N3	-5.67	115.23	119.20
1	2	29	U	N3-C2-O2	5.67	126.17	122.20
1	2	418	G	N1-C2-N2	-5.67	111.10	116.20
1	2	1494	U	C5-C6-N1	5.67	125.53	122.70
36	1	277	G	N1-C2-N3	-5.67	120.50	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1617	G	N3-C4-C5	5.67	131.44	128.60
36	1	2783	U	C5-C6-N1	5.67	125.53	122.70
37	3	35	C	N1-C2-O2	-5.67	115.50	118.90
80	6	29	U	N1-C2-N3	5.67	118.30	114.90
80	6	379	U	C5-C4-O4	-5.67	122.50	125.90
80	6	407	A	C5-N7-C8	-5.67	101.06	103.90
80	6	409	C	OP2-P-O3'	-5.67	92.73	105.20
85	5	622	A	O4'-C1'-N9	-5.67	103.66	108.20
85	5	733	G	N1-C2-N2	5.67	121.30	116.20
85	5	2208	A	C8-N9-C1'	-5.67	117.50	127.70
85	5	2632	G	N1-C6-O6	5.67	123.30	119.90
85	5	3150	A	N1-C6-N6	5.67	122.00	118.60
38	8	13	A	C8-N9-C4	-5.67	103.53	105.80
53	m7	126	ARG	NE-CZ-NH2	5.67	123.14	120.30
1	2	100	A	C2-N3-C4	5.67	113.44	110.60
1	2	1223	U	N1-C2-O2	-5.67	118.83	122.80
36	1	94	G	O5'-P-OP1	-5.67	100.60	105.70
36	1	523	A	C6-C5-N7	5.67	136.27	132.30
36	1	1526	U	O5'-P-OP2	-5.67	100.60	105.70
36	1	1611	G	N1-C6-O6	5.67	123.30	119.90
36	1	1668	G	C6-C5-N7	-5.67	127.00	130.40
36	1	1870	C	O5'-P-OP2	5.67	117.50	110.70
36	1	2307	G	N3-C4-N9	-5.67	122.60	126.00
36	1	3027	A	C5-C6-N6	5.67	128.24	123.70
36	1	3129	A	C4-C5-C6	5.67	119.83	117.00
36	1	3267	A	C4-C5-C6	5.67	119.83	117.00
36	1	3268	A	C2-N3-C4	-5.67	107.77	110.60
36	1	3276	G	C4-C5-N7	5.67	113.07	110.80
37	3	94	C	C4-C5-C6	5.67	120.23	117.40
38	4	22	U	OP2-P-O3'	-5.67	92.73	105.20
80	6	61	A	N7-C8-N9	-5.67	110.97	113.80
80	6	380	U	C5-C6-N1	-5.67	119.86	122.70
80	6	734	A	C5-C6-N1	5.67	120.53	117.70
80	6	820	U	C5-C4-O4	-5.67	122.50	125.90
80	6	1036	A	O5'-P-OP1	5.67	117.50	110.70
80	6	1575	G	N1-C6-O6	-5.67	116.50	119.90
85	5	101	G	C4-C5-N7	5.67	113.07	110.80
85	5	110	G	C8-N9-C4	5.67	108.67	106.40
85	5	576	C	C4-C5-C6	5.67	120.23	117.40
85	5	727	G	O4'-C1'-N9	-5.67	103.66	108.20
85	5	762	U	C4-C5-C6	5.67	123.10	119.70
85	5	866	A	N1-C2-N3	-5.67	126.47	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	893	C	C2-N3-C4	-5.67	117.07	119.90
85	5	2114	C	OP1-P-OP2	5.67	128.10	119.60
85	5	2622	C	N3-C2-O2	-5.67	117.93	121.90
85	5	2642	A	OP1-P-O3'	5.67	117.67	105.20
85	5	2746	A	O5'-P-OP1	-5.67	100.60	105.70
1	2	45	U	N3-C2-O2	-5.67	118.23	122.20
1	2	158	U	P-O3'-C3'	5.67	126.50	119.70
1	2	1427	A	C8-N9-C4	5.67	108.07	105.80
1	2	1716	C	C2-N3-C4	5.67	122.73	119.90
36	1	49	A	N1-C2-N3	5.67	132.13	129.30
36	1	295	A	C5-N7-C8	-5.67	101.07	103.90
36	1	522	A	C5-C6-N1	-5.67	114.87	117.70
36	1	580	C	N3-C2-O2	-5.67	117.93	121.90
36	1	1472	U	N3-C4-O4	-5.67	115.43	119.40
36	1	2288	G	OP2-P-O3'	5.67	117.67	105.20
36	1	2292	U	N3-C2-O2	-5.67	118.23	122.20
51	M5	93	LYS	CD-CE-NZ	5.67	124.73	111.70
59	N3	22	ILE	CG1-CB-CG2	-5.67	98.93	111.40
80	6	163	G	OP2-P-O3'	5.67	117.67	105.20
85	5	189	G	O5'-P-OP1	-5.67	100.60	105.70
85	5	196	G	O5'-P-OP2	5.67	117.50	110.70
85	5	815	G	C8-N9-C1'	-5.67	119.63	127.00
85	5	934	G	C4-N9-C1'	5.67	133.87	126.50
85	5	941	G	N3-C4-N9	5.67	129.40	126.00
85	5	1611	G	N1-C6-O6	5.67	123.30	119.90
38	8	85	G	C6-N1-C2	5.67	128.50	125.10
1	2	221	A	C8-N9-C4	-5.67	103.53	105.80
1	2	1634	A	C8-N9-C4	5.67	108.07	105.80
36	1	595	G	N1-C6-O6	5.67	123.30	119.90
36	1	2115	G	OP1-P-O3'	5.67	117.66	105.20
36	1	2218	G	C8-N9-C4	5.67	108.67	106.40
36	1	2556	C	O5'-P-OP2	-5.67	100.60	105.70
80	6	421	A	OP1-P-OP2	-5.67	111.10	119.60
85	5	70	A	N1-C6-N6	5.67	122.00	118.60
85	5	74	G	N9-C4-C5	5.67	107.67	105.40
85	5	128	G	C6-C5-N7	5.67	133.80	130.40
85	5	890	C	C2-N1-C1'	5.67	125.03	118.80
85	5	965	A	C6-C5-N7	-5.67	128.33	132.30
85	5	1719	G	N3-C2-N2	-5.67	115.94	119.90
85	5	2183	A	C8-N9-C4	5.67	108.07	105.80
85	5	2974	U	O5'-P-OP2	5.67	117.50	110.70
1	2	410	A	C5-N7-C8	-5.66	101.07	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	11	A	O4'-C1'-N9	-5.66	103.67	108.20
36	1	427	C	C2-N1-C1'	5.66	125.03	118.80
36	1	716	A	N3-C4-C5	5.66	130.76	126.80
36	1	974	G	N1-C2-N2	-5.66	111.10	116.20
36	1	1098	A	C6-C5-N7	-5.66	128.34	132.30
36	1	1293	U	N3-C2-O2	5.66	126.16	122.20
36	1	1578	C	C5-C6-N1	5.66	123.83	121.00
36	1	2588	U	O5'-P-OP1	5.66	117.50	110.70
36	1	2645	G	OP1-P-OP2	-5.66	111.11	119.60
36	1	3078	U	N1-C2-O2	-5.66	118.84	122.80
36	1	3177	G	C5-N7-C8	5.66	107.13	104.30
36	1	3344	A	C6-C5-N7	-5.66	128.34	132.30
37	3	30	G	C4-C5-N7	5.66	113.07	110.80
80	6	188	A	C2-N3-C4	-5.66	107.77	110.60
80	6	569	C	C2-N3-C4	-5.66	117.07	119.90
80	6	591	A	N9-C4-C5	-5.66	103.53	105.80
80	6	872	G	N7-C8-N9	-5.66	110.27	113.10
80	6	1151	A	OP1-P-OP2	5.66	128.10	119.60
85	5	938	C	C2-N3-C4	-5.66	117.07	119.90
85	5	1133	A	N9-C4-C5	-5.66	103.53	105.80
85	5	1650	G	N1-C6-O6	5.66	123.30	119.90
85	5	1686	U	C5-C6-N1	-5.66	119.87	122.70
85	5	1770	G	C8-N9-C4	-5.66	104.13	106.40
85	5	1812	G	C8-N9-C4	-5.66	104.14	106.40
85	5	2243	A	O4'-C1'-N9	-5.66	103.67	108.20
85	5	2384	A	N1-C2-N3	5.66	132.13	129.30
1	2	195	G	C6-C5-N7	5.66	133.80	130.40
36	1	266	A	N7-C8-N9	-5.66	110.97	113.80
36	1	3099	C	C5-C6-N1	5.66	123.83	121.00
80	6	34	G	O5'-P-OP1	5.66	117.50	110.70
80	6	332	U	C2-N3-C4	-5.66	123.60	127.00
80	6	1728	A	C8-N9-C4	5.66	108.06	105.80
85	5	595	G	OP1-P-OP2	5.66	128.09	119.60
85	5	801	A	C2-N3-C4	-5.66	107.77	110.60
85	5	1725	C	C5-C6-N1	-5.66	118.17	121.00
1	2	131	C	O5'-P-OP1	5.66	117.49	110.70
1	2	207	U	N3-C2-O2	-5.66	118.24	122.20
1	2	330	G	N3-C4-C5	-5.66	125.77	128.60
1	2	994	G	C2-N3-C4	5.66	114.73	111.90
1	2	1011	C	N3-C4-C5	-5.66	119.64	121.90
36	1	154	U	N3-C2-O2	5.66	126.16	122.20
36	1	643	U	C5-C4-O4	-5.66	122.50	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	993	G	N1-C6-O6	-5.66	116.50	119.90
36	1	1135	A	N9-C4-C5	5.66	108.06	105.80
36	1	1288	U	C6-N1-C2	5.66	124.40	121.00
36	1	1588	A	N3-C4-N9	5.66	131.93	127.40
36	1	2737	C	C5-C4-N4	-5.66	116.24	120.20
36	1	2910	A	O4'-C1'-N9	-5.66	103.67	108.20
80	6	34	G	N3-C2-N2	-5.66	115.94	119.90
80	6	532	U	N1-C2-N3	5.66	118.30	114.90
80	6	921	U	C4-C5-C6	5.66	123.10	119.70
80	6	965	U	N1-C2-O2	5.66	126.76	122.80
85	5	32	U	C5-C6-N1	-5.66	119.87	122.70
85	5	349	A	OP2-P-O3'	5.66	117.65	105.20
85	5	940	G	C2-N3-C4	5.66	114.73	111.90
85	5	1552	G	C5-N7-C8	-5.66	101.47	104.30
85	5	2124	G	OP2-P-O3'	5.66	117.65	105.20
85	5	2602	G	N3-C4-N9	-5.66	122.60	126.00
85	5	2938	G	N3-C4-C5	-5.66	125.77	128.60
85	5	2955	U	C5-C6-N1	-5.66	119.87	122.70
85	5	3044	G	N3-C2-N2	-5.66	115.94	119.90
85	5	3231	U	OP1-P-OP2	-5.66	111.11	119.60
85	5	3317	U	N3-C2-O2	-5.66	118.24	122.20
38	8	38	U	OP2-P-O3'	5.66	117.65	105.20
1	2	1024	G	C5-C6-N1	-5.66	108.67	111.50
1	2	1029	G	C5-C6-N1	5.66	114.33	111.50
36	1	378	A	C4-C5-N7	-5.66	107.87	110.70
36	1	516	A	C5-N7-C8	-5.66	101.07	103.90
36	1	709	A	N3-C4-N9	5.66	131.93	127.40
36	1	826	G	N3-C4-C5	5.66	131.43	128.60
36	1	1061	A	N1-C2-N3	5.66	132.13	129.30
36	1	1652	G	N9-C4-C5	-5.66	103.14	105.40
36	1	2168	A	N9-C4-C5	5.66	108.06	105.80
36	1	2720	G	N7-C8-N9	5.66	115.93	113.10
37	3	23	A	N9-C4-C5	5.66	108.06	105.80
38	4	65	A	N3-C4-N9	-5.66	122.87	127.40
80	6	46	A	C4-C5-C6	5.66	119.83	117.00
80	6	322	G	C6-N1-C2	5.66	128.50	125.10
80	6	340	U	OP2-P-O3'	5.66	117.65	105.20
80	6	825	U	C2-N1-C1'	-5.66	110.91	117.70
80	6	1158	C	O5'-P-OP2	-5.66	100.61	105.70
80	6	1731	A	C6-N1-C2	-5.66	115.20	118.60
85	5	232	G	N1-C2-N2	-5.66	111.11	116.20
85	5	367	A	C5-C6-N1	5.66	120.53	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	610	G	C4-C5-N7	-5.66	108.54	110.80
85	5	656	A	O5'-P-OP1	-5.66	100.61	105.70
85	5	1361	U	C6-N1-C2	-5.66	117.61	121.00
85	5	1611	G	C8-N9-C4	-5.66	104.14	106.40
85	5	2268	U	O5'-P-OP1	5.66	117.49	110.70
85	5	2648	G	C5-N7-C8	-5.66	101.47	104.30
85	5	3086	A	N1-C6-N6	5.66	122.00	118.60
44	l7	47	ARG	NE-CZ-NH1	5.66	123.13	120.30
50	m4	106	ARG	NE-CZ-NH1	5.66	123.13	120.30
59	n3	128	ARG	NE-CZ-NH2	5.66	123.13	120.30
1	2	1068	G	C4-C5-N7	5.66	113.06	110.80
1	2	1391	G	C5-C6-N1	-5.66	108.67	111.50
36	1	776	U	N3-C4-O4	-5.66	115.44	119.40
80	6	349	U	N3-C2-O2	-5.66	118.24	122.20
85	5	626	U	N1-C2-N3	5.66	118.29	114.90
85	5	994	G	N9-C4-C5	5.66	107.66	105.40
85	5	1151	U	O5'-P-OP1	-5.66	100.61	105.70
85	5	1722	U	O5'-P-OP2	-5.66	100.61	105.70
85	5	2378	C	O5'-P-OP1	-5.66	100.61	105.70
85	5	3291	G	N1-C6-O6	5.66	123.29	119.90
38	8	33	A	C4-C5-C6	5.66	119.83	117.00
38	8	42	G	C5-C6-N1	-5.66	108.67	111.50
1	2	16	G	OP1-P-O3'	5.66	117.64	105.20
1	2	346	G	N1-C2-N3	-5.66	120.51	123.90
1	2	1024	G	OP1-P-OP2	5.66	128.08	119.60
1	2	1055	C	O5'-P-OP2	-5.66	100.61	105.70
1	2	1748	A	C6-N1-C2	-5.66	115.21	118.60
8	S6	155	ASP	CB-CG-OD1	5.66	123.39	118.30
36	1	346	C	N3-C4-C5	5.66	124.16	121.90
36	1	896	A	C2-N3-C4	5.66	113.43	110.60
36	1	1064	A	N1-C2-N3	-5.66	126.47	129.30
36	1	1728	G	N3-C2-N2	-5.66	115.94	119.90
36	1	2129	U	N3-C2-O2	-5.66	118.24	122.20
36	1	2161	G	N1-C6-O6	-5.66	116.51	119.90
36	1	2876	C	OP2-P-O3'	5.66	117.64	105.20
80	6	755	A	C5-C6-N6	-5.66	119.18	123.70
80	6	789	A	C5-C6-N6	5.66	128.22	123.70
80	6	991	G	C2-N3-C4	5.66	114.73	111.90
80	6	1100	G	C5-C6-N1	5.66	114.33	111.50
80	6	1288	G	N7-C8-N9	-5.66	110.27	113.10
80	6	1763	A	C8-N9-C4	5.66	108.06	105.80
80	6	1773	C	C2-N3-C4	5.66	122.73	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	71	A	OP1-P-O3'	-5.66	92.76	105.20
85	5	214	G	C5-C6-N1	5.66	114.33	111.50
85	5	506	U	C2-N3-C4	-5.66	123.61	127.00
85	5	774	G	N3-C4-C5	5.66	131.43	128.60
85	5	926	A	O5'-P-OP1	5.66	117.49	110.70
85	5	954	U	OP1-P-OP2	5.66	128.08	119.60
85	5	1227	C	N3-C4-C5	-5.66	119.64	121.90
85	5	2225	U	OP1-P-OP2	-5.66	111.12	119.60
85	5	2643	A	OP1-P-OP2	-5.66	111.12	119.60
85	5	2882	U	O5'-P-OP2	-5.66	100.61	105.70
85	5	2913	C	N1-C2-O2	-5.66	115.51	118.90
85	5	2943	G	O5'-P-OP2	-5.66	100.61	105.70
85	5	3191	G	N1-C2-N3	5.66	127.29	123.90
85	5	3335	A	C5-N7-C8	-5.66	101.07	103.90
37	7	12	U	OP1-P-OP2	-5.66	111.12	119.60
36	1	2375	G	C4-C5-N7	-5.65	108.54	110.80
36	1	3112	G	N3-C4-C5	-5.65	125.77	128.60
80	6	153	G	C4-C5-N7	5.65	113.06	110.80
80	6	718	U	C6-N1-C2	-5.65	117.61	121.00
85	5	145	G	C8-N9-C4	-5.65	104.14	106.40
85	5	432	G	C5-N7-C8	5.65	107.13	104.30
85	5	822	G	OP1-P-OP2	-5.65	111.12	119.60
85	5	1492	G	OP2-P-O3'	5.65	117.64	105.20
85	5	1746	U	C5-C4-O4	5.65	129.29	125.90
38	8	74	U	O5'-P-OP1	5.65	117.48	110.70
41	14	73	ARG	NE-CZ-NH2	5.65	123.13	120.30
1	2	203	U	N3-C2-O2	-5.65	118.24	122.20
1	2	548	G	C5-C6-N1	5.65	114.33	111.50
1	2	849	G	C5-C6-O6	-5.65	125.21	128.60
36	1	213	A	N9-C1'-C2'	-5.65	105.78	112.00
36	1	395	A	N9-C4-C5	5.65	108.06	105.80
36	1	735	A	N7-C8-N9	-5.65	110.97	113.80
36	1	1115	G	C4-N9-C1'	5.65	133.85	126.50
36	1	1355	A	C5-C6-N6	5.65	128.22	123.70
36	1	1737	U	N3-C4-O4	5.65	123.36	119.40
36	1	2343	C	N3-C2-O2	5.65	125.86	121.90
36	1	2624	G	N3-C4-N9	5.65	129.39	126.00
36	1	2918	G	C4-N9-C1'	5.65	133.85	126.50
36	1	2967	A	C8-N9-C4	-5.65	103.54	105.80
36	1	3333	G	N1-C2-N3	5.65	127.29	123.90
80	6	23	G	C5-N7-C8	-5.65	101.47	104.30
80	6	441	A	C5-C6-N6	5.65	128.22	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	929	A	C6-N1-C2	5.65	121.99	118.60
80	6	1019	A	N9-C4-C5	-5.65	103.54	105.80
80	6	1197	C	N1-C2-O2	5.65	122.29	118.90
80	6	1621	U	N3-C4-C5	-5.65	111.21	114.60
85	5	535	G	O4'-C1'-N9	-5.65	103.68	108.20
85	5	591	G	OP1-P-O3'	5.65	117.64	105.20
85	5	1044	U	O5'-P-OP1	5.65	117.48	110.70
85	5	1399	A	OP1-P-OP2	5.65	128.08	119.60
85	5	1597	C	C5-C4-N4	-5.65	116.24	120.20
85	5	2335	G	C4-N9-C1'	5.65	133.85	126.50
85	5	2422	C	N3-C4-N4	-5.65	114.04	118.00
85	5	2640	A	N9-C4-C5	-5.65	103.54	105.80
85	5	3036	G	C4-N9-C1'	5.65	133.85	126.50
85	5	3179	U	C5-C4-O4	-5.65	122.51	125.90
85	5	3240	C	OP2-P-O3'	5.65	117.63	105.20
38	8	67	U	N3-C4-C5	5.65	117.99	114.60
1	2	330	G	C4-C5-N7	-5.65	108.54	110.80
1	2	639	U	O5'-P-OP2	-5.65	100.61	105.70
1	2	1432	U	C6-N1-C2	-5.65	117.61	121.00
1	2	1754	U	N3-C4-C5	-5.65	111.21	114.60
36	1	208	C	N3-C2-O2	-5.65	117.94	121.90
36	1	1041	U	C6-N1-C2	5.65	124.39	121.00
36	1	1207	G	O5'-P-OP2	5.65	117.48	110.70
36	1	1532	C	C2-N3-C4	-5.65	117.07	119.90
36	1	1652	G	C4-C5-N7	5.65	113.06	110.80
36	1	1780	G	C4-N9-C1'	5.65	133.85	126.50
36	1	3069	G	C5-C6-O6	5.65	131.99	128.60
36	1	3382	U	N1-C2-O2	5.65	126.75	122.80
49	M3	104	ARG	NE-CZ-NH2	-5.65	117.47	120.30
80	6	1127	G	N3-C4-N9	-5.65	122.61	126.00
80	6	1266	U	N3-C4-O4	5.65	123.36	119.40
80	6	1605	G	N3-C2-N2	-5.65	115.94	119.90
85	5	204	A	N3-C4-C5	-5.65	122.84	126.80
85	5	666	A	C8-N9-C4	5.65	108.06	105.80
85	5	973	A	OP2-P-O3'	5.65	117.63	105.20
85	5	999	G	N3-C4-C5	5.65	131.43	128.60
85	5	1334	U	N3-C2-O2	-5.65	118.24	122.20
85	5	1374	G	C6-C5-N7	-5.65	127.01	130.40
85	5	3108	G	OP2-P-O3'	5.65	117.63	105.20
1	2	429	G	C6-C5-N7	-5.65	127.01	130.40
1	2	1118	U	C2-N3-C4	-5.65	123.61	127.00
36	1	1673	G	N1-C2-N2	-5.65	111.12	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1952	G	C5-C6-N1	-5.65	108.67	111.50
36	1	2229	A	N9-C4-C5	-5.65	103.54	105.80
36	1	2300	G	N9-C4-C5	5.65	107.66	105.40
36	1	2977	G	C5-C6-N1	5.65	114.33	111.50
36	1	3200	G	C5-C6-O6	5.65	131.99	128.60
80	6	604	A	N1-C6-N6	5.65	121.99	118.60
85	5	2338	C	OP1-P-O3'	5.65	117.63	105.20
85	5	3075	G	O5'-P-OP1	5.65	117.48	110.70
1	2	65	A	N1-C2-N3	5.65	132.12	129.30
1	2	275	C	C4-C5-C6	-5.65	114.58	117.40
1	2	992	U	C2-N3-C4	-5.65	123.61	127.00
1	2	1124	G	N1-C6-O6	5.65	123.29	119.90
1	2	1623	C	N3-C4-N4	-5.65	114.05	118.00
1	2	1625	G	C6-N1-C2	-5.65	121.71	125.10
36	1	983	A	C4-C5-N7	-5.65	107.88	110.70
36	1	2399	A	O5'-P-OP1	-5.65	100.62	105.70
36	1	2687	G	C6-N1-C2	-5.65	121.71	125.10
36	1	3067	C	C2-N1-C1'	-5.65	112.59	118.80
36	1	3109	G	N3-C4-N9	5.65	129.39	126.00
36	1	3171	U	O5'-P-OP2	5.65	117.48	110.70
51	M5	114	ARG	NE-CZ-NH2	5.65	123.12	120.30
80	6	264	G	C4-C5-C6	-5.65	115.41	118.80
80	6	328	A	C5-N7-C8	-5.65	101.08	103.90
80	6	349	U	C5-C6-N1	-5.65	119.88	122.70
80	6	378	A	OP2-P-O3'	5.65	117.62	105.20
80	6	445	A	N7-C8-N9	5.65	116.62	113.80
80	6	610	G	C4-C5-N7	5.65	113.06	110.80
80	6	1129	U	N3-C4-C5	-5.65	111.21	114.60
80	6	1537	C	N3-C4-C5	-5.65	119.64	121.90
85	5	106	A	C4-C5-N7	5.65	113.52	110.70
85	5	189	G	C5-C6-N1	5.65	114.32	111.50
85	5	203	G	N1-C6-O6	5.65	123.29	119.90
85	5	305	U	N1-C2-N3	5.65	118.29	114.90
85	5	1885	U	N3-C4-C5	-5.65	111.21	114.60
85	5	2174	G	OP1-P-O3'	5.65	117.62	105.20
85	5	2418	G	OP1-P-OP2	-5.65	111.13	119.60
85	5	2901	G	C4-C5-N7	5.65	113.06	110.80
85	5	2997	G	N9-C1'-C2'	-5.65	105.79	112.00
85	5	3061	G	C8-N9-C4	-5.65	104.14	106.40
85	5	3111	U	C5-C4-O4	5.65	129.29	125.90
85	5	3157	U	O5'-P-OP1	-5.65	100.62	105.70
85	5	3174	A	C8-N9-C4	5.65	108.06	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	l3	70	ARG	NE-CZ-NH2	-5.65	117.48	120.30
50	m4	28	SER	CA-C-O	-5.65	108.24	120.10
52	m6	74	ARG	NE-CZ-NH1	-5.65	117.48	120.30
56	n0	117	ARG	NE-CZ-NH2	-5.65	117.48	120.30
1	2	847	U	N1-C2-O2	-5.65	118.85	122.80
1	2	956	A	C8-N9-C4	-5.65	103.54	105.80
36	1	25	U	OP1-P-OP2	-5.65	111.13	119.60
36	1	750	G	N9-C4-C5	5.65	107.66	105.40
36	1	923	C	O5'-P-OP1	-5.65	100.62	105.70
36	1	930	U	OP1-P-OP2	-5.65	111.13	119.60
36	1	1043	C	C4-C5-C6	-5.65	114.58	117.40
36	1	1802	C	O5'-P-OP1	5.65	117.48	110.70
36	1	1914	G	C5-C6-N1	5.65	114.32	111.50
36	1	2829	U	C4-C5-C6	5.65	123.09	119.70
80	6	322	G	N1-C2-N2	5.65	121.28	116.20
80	6	593	U	C5-C6-N1	5.65	125.52	122.70
80	6	1290	U	C6-N1-C2	-5.65	117.61	121.00
80	6	1578	U	C6-N1-C2	5.65	124.39	121.00
85	5	920	A	C5-C6-N6	-5.65	119.18	123.70
85	5	1017	C	C6-N1-C2	-5.65	118.04	120.30
85	5	1212	A	N3-C4-C5	-5.65	122.85	126.80
85	5	1633	C	O5'-P-OP1	5.65	117.47	110.70
85	5	2368	A	C6-C5-N7	-5.65	128.35	132.30
85	5	3174	A	N7-C8-N9	-5.65	110.98	113.80
1	2	36	C	O4'-C1'-N1	-5.64	103.68	108.20
1	2	150	U	C2-N3-C4	-5.64	123.61	127.00
36	1	20	A	C4-C5-C6	5.64	119.82	117.00
36	1	800	G	N1-C2-N3	5.64	127.29	123.90
36	1	1734	G	OP1-P-OP2	5.64	128.07	119.60
36	1	1769	G	C5-C6-N1	5.64	114.32	111.50
36	1	1778	G	N1-C6-O6	5.64	123.29	119.90
36	1	1937	U	OP1-P-OP2	5.64	128.07	119.60
36	1	2231	C	C5-C6-N1	-5.64	118.18	121.00
36	1	2244	A	N1-C2-N3	5.64	132.12	129.30
36	1	2270	A	N1-C6-N6	-5.64	115.21	118.60
36	1	2833	A	N7-C8-N9	-5.64	110.98	113.80
36	1	3087	A	P-O3'-C3'	-5.64	112.93	119.70
36	1	3206	C	N3-C4-N4	5.64	121.95	118.00
36	1	3359	A	N9-C4-C5	-5.64	103.54	105.80
37	3	99	G	C5-N7-C8	-5.64	101.48	104.30
38	4	13	A	C6-C5-N7	-5.64	128.35	132.30
38	4	113	U	OP1-P-OP2	5.64	128.07	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	L7	151	ARG	NE-CZ-NH1	-5.64	117.48	120.30
80	6	979	A	C4-C5-N7	-5.64	107.88	110.70
85	5	239	G	N7-C8-N9	5.64	115.92	113.10
85	5	526	C	N1-C2-O2	5.64	122.29	118.90
85	5	565	U	O5'-P-OP1	5.64	117.47	110.70
85	5	726	G	O5'-P-OP2	-5.64	100.62	105.70
85	5	1192	C	C4-C5-C6	5.64	120.22	117.40
85	5	1594	A	OP1-P-O3'	5.64	117.62	105.20
85	5	1748	G	N1-C2-N2	-5.64	111.12	116.20
85	5	1868	G	C4-N9-C1'	5.64	133.84	126.50
85	5	2303	A	N3-C4-C5	5.64	130.75	126.80
85	5	2608	G	OP1-P-OP2	-5.64	111.13	119.60
85	5	2903	A	N9-C4-C5	5.64	108.06	105.80
85	5	3309	G	C4-C5-C6	5.64	122.19	118.80
37	7	97	A	C6-N1-C2	-5.64	115.21	118.60
1	2	12	U	C6-N1-C2	-5.64	117.61	121.00
1	2	55	A	N1-C6-N6	-5.64	115.22	118.60
1	2	821	G	C4-C5-N7	5.64	113.06	110.80
1	2	1163	C	C6-N1-C2	-5.64	118.04	120.30
6	S4	104	ASP	CB-CG-OD1	-5.64	113.22	118.30
36	1	319	A	C5-C6-N1	-5.64	114.88	117.70
36	1	346	C	O5'-P-OP1	5.64	117.47	110.70
36	1	500	C	OP2-P-O3'	5.64	117.61	105.20
36	1	955	U	C4-C5-C6	5.64	123.09	119.70
36	1	1332	A	N7-C8-N9	5.64	116.62	113.80
36	1	2438	A	O5'-P-OP1	5.64	117.47	110.70
36	1	2844	C	N1-C2-N3	-5.64	115.25	119.20
36	1	3154	C	N3-C2-O2	5.64	125.85	121.90
37	3	119	U	N3-C2-O2	-5.64	118.25	122.20
80	6	169	A	C5-C6-N1	-5.64	114.88	117.70
80	6	625	C	N3-C4-N4	5.64	121.95	118.00
80	6	1417	A	N7-C8-N9	-5.64	110.98	113.80
85	5	49	A	C5-C6-N1	5.64	120.52	117.70
85	5	206	G	C4-C5-N7	-5.64	108.54	110.80
85	5	374	A	C5-C6-N1	5.64	120.52	117.70
85	5	760	G	O5'-P-OP2	-5.64	100.62	105.70
85	5	1142	G	C8-N9-C4	-5.64	104.14	106.40
85	5	1893	A	OP1-P-O3'	-5.64	92.79	105.20
85	5	2403	G	N3-C4-N9	-5.64	122.61	126.00
85	5	2700	G	C5-N7-C8	-5.64	101.48	104.30
85	5	3064	U	N1-C2-N3	5.64	118.29	114.90
85	5	3247	G	N1-C6-O6	5.64	123.29	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	150	G	C4-C5-N7	-5.64	108.54	110.80
1	2	1157	C	N1-C2-O2	5.64	122.28	118.90
1	2	1178	C	N3-C2-O2	-5.64	117.95	121.90
36	1	565	U	N3-C4-O4	-5.64	115.45	119.40
36	1	900	G	N3-C2-N2	-5.64	115.95	119.90
36	1	1147	G	N1-C2-N3	5.64	127.28	123.90
36	1	2969	A	C5-N7-C8	-5.64	101.08	103.90
80	6	590	C	C5-C4-N4	-5.64	116.25	120.20
80	6	612	U	O5'-P-OP2	-5.64	100.62	105.70
85	5	220	G	C5-N7-C8	-5.64	101.48	104.30
85	5	700	C	C6-N1-C2	5.64	122.56	120.30
85	5	1151	U	C6-N1-C2	-5.64	117.62	121.00
85	5	2745	G	N1-C2-N2	-5.64	111.12	116.20
37	7	96	U	C2-N3-C4	-5.64	123.62	127.00
38	8	32	C	O5'-P-OP2	5.64	117.47	110.70
1	2	1330	U	C5-C6-N1	5.64	125.52	122.70
36	1	187	A	C4-C5-N7	5.64	113.52	110.70
36	1	660	A	OP2-P-O3'	-5.64	92.79	105.20
36	1	982	C	C5-C4-N4	-5.64	116.25	120.20
36	1	1480	G	C6-N1-C2	5.64	128.48	125.10
36	1	1653	G	N3-C4-C5	5.64	131.42	128.60
36	1	1719	G	C4-C5-C6	5.64	122.18	118.80
36	1	2275	A	N1-C2-N3	5.64	132.12	129.30
36	1	2372	A	O5'-P-OP2	-5.64	100.62	105.70
80	6	1389	C	C2-N1-C1'	5.64	125.00	118.80
85	5	1435	A	C6-N1-C2	-5.64	115.22	118.60
85	5	2358	A	C4-C5-C6	5.64	119.82	117.00
85	5	2391	G	N1-C2-N3	5.64	127.28	123.90
85	5	2659	G	N1-C2-N2	-5.64	111.12	116.20
85	5	2803	A	C5-N7-C8	-5.64	101.08	103.90
85	5	3045	G	C5-N7-C8	5.64	107.12	104.30
36	1	1385	C	C4-C5-C6	5.64	120.22	117.40
36	1	1879	A	N9-C4-C5	5.64	108.06	105.80
36	1	2265	C	C4-C5-C6	5.64	120.22	117.40
80	6	159	U	OP2-P-O3'	5.64	117.60	105.20
85	5	99	A	O5'-P-OP1	5.64	117.47	110.70
85	5	913	A	C2-N3-C4	5.64	113.42	110.60
85	5	1189	C	N1-C2-N3	5.64	123.15	119.20
85	5	2302	G	N3-C4-N9	-5.64	122.62	126.00
85	5	2871	G	O5'-P-OP1	5.64	117.47	110.70
85	5	3095	U	OP1-P-O3'	5.64	117.60	105.20
1	2	210	A	N1-C2-N3	5.64	132.12	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	306	U	N1-C2-O2	-5.64	118.85	122.80
1	2	535	A	N7-C8-N9	5.64	116.62	113.80
1	2	1002	A	N1-C6-N6	-5.64	115.22	118.60
36	1	18	G	OP1-P-O3'	-5.64	92.80	105.20
36	1	1442	U	C5-C4-O4	-5.64	122.52	125.90
36	1	2142	A	N3-C4-C5	-5.64	122.85	126.80
36	1	2334	U	N3-C4-C5	5.64	117.98	114.60
36	1	2918	G	C6-N1-C2	-5.64	121.72	125.10
36	1	2963	C	N3-C4-N4	5.64	121.94	118.00
36	1	3054	U	N3-C4-C5	-5.64	111.22	114.60
36	1	3205	G	N1-C2-N3	5.64	127.28	123.90
36	1	3355	U	N3-C2-O2	-5.64	118.25	122.20
80	6	646	C	N3-C4-C5	-5.64	119.64	121.90
80	6	1008	G	N3-C4-C5	5.64	131.42	128.60
80	6	1628	U	N3-C2-O2	-5.64	118.25	122.20
85	5	612	U	C4-C5-C6	5.64	123.08	119.70
85	5	651	G	OP2-P-O3'	5.64	117.60	105.20
85	5	900	G	C8-N9-C1'	5.64	134.33	127.00
85	5	1149	G	OP1-P-O3'	5.64	117.60	105.20
85	5	1814	A	O5'-P-OP2	-5.64	100.63	105.70
85	5	1836	C	N1-C2-O2	-5.64	115.52	118.90
85	5	2585	G	C2-N3-C4	5.64	114.72	111.90
85	5	3108	G	C2-N3-C4	-5.64	109.08	111.90
85	5	3142	A	C5'-C4'-O4'	5.64	115.86	109.10
85	5	3196	U	N1-C2-N3	-5.64	111.52	114.90
85	5	3368	U	C2-N3-C4	-5.64	123.62	127.00
38	8	116	G	N3-C4-C5	5.64	131.42	128.60
1	2	81	G	C6-C5-N7	-5.63	127.02	130.40
1	2	1098	U	C4-C5-C6	5.63	123.08	119.70
36	1	623	U	C4-C5-C6	-5.63	116.32	119.70
36	1	1118	C	C5-C6-N1	5.63	123.82	121.00
36	1	2908	G	N3-C2-N2	5.63	123.84	119.90
38	4	53	A	N7-C8-N9	-5.63	110.98	113.80
38	4	112	U	N3-C4-C5	-5.63	111.22	114.60
41	L4	362	ASP	CB-CG-OD1	-5.63	113.23	118.30
80	6	361	C	OP2-P-O3'	5.63	117.60	105.20
85	5	994	G	C4-N9-C1'	5.63	133.82	126.50
85	5	996	A	C8-N9-C4	-5.63	103.55	105.80
85	5	1471	U	N3-C4-O4	-5.63	115.45	119.40
85	5	1604	G	C2-N3-C4	5.63	114.72	111.90
85	5	1800	A	N3-C4-C5	-5.63	122.86	126.80
85	5	1861	G	C8-N9-C4	-5.63	104.15	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2686	A	N1-C2-N3	5.63	132.12	129.30
85	5	3086	A	C6-C5-N7	-5.63	128.35	132.30
37	7	54	U	C4-C5-C6	5.63	123.08	119.70
37	7	115	G	OP1-P-OP2	5.63	128.05	119.60
1	2	1564	C	C6-N1-C2	5.63	122.55	120.30
36	1	985	U	C5-C6-N1	-5.63	119.88	122.70
36	1	1449	A	C4-C5-N7	-5.63	107.88	110.70
36	1	3032	A	N1-C6-N6	-5.63	115.22	118.60
80	6	25	C	C5-C4-N4	-5.63	116.26	120.20
80	6	596	C	N3-C4-C5	-5.63	119.65	121.90
85	5	329	U	N1-C2-N3	5.63	118.28	114.90
85	5	363	G	C2-N3-C4	-5.63	109.08	111.90
85	5	547	G	C2-N3-C4	5.63	114.72	111.90
85	5	1468	A	C5-C6-N1	5.63	120.52	117.70
37	7	84	A	N1-C6-N6	-5.63	115.22	118.60
52	m6	128	ARG	NE-CZ-NH1	-5.63	117.48	120.30
1	2	1348	C	N3-C2-O2	-5.63	117.96	121.90
36	1	89	A	C5-C6-N6	5.63	128.21	123.70
36	1	504	A	N9-C4-C5	5.63	108.05	105.80
36	1	1901	A	N1-C2-N3	5.63	132.12	129.30
36	1	2370	G	C6-C5-N7	5.63	133.78	130.40
37	3	32	U	C5-C6-N1	5.63	125.52	122.70
80	6	963	A	N1-C2-N3	-5.63	126.48	129.30
80	6	1596	C	C2-N3-C4	-5.63	117.08	119.90
80	6	1627	U	N3-C4-O4	5.63	123.34	119.40
85	5	663	C	C5-C4-N4	5.63	124.14	120.20
85	5	1437	C	N1-C2-N3	5.63	123.14	119.20
85	5	1620	U	N3-C2-O2	-5.63	118.26	122.20
85	5	2976	A	O5'-P-OP2	5.63	117.46	110.70
44	17	53	LYS	CD-CE-NZ	5.63	124.65	111.70
46	19	23	ARG	NE-CZ-NH2	-5.63	117.48	120.30
1	2	14	C	C6-N1-C2	-5.63	118.05	120.30
1	2	950	A	C5-C6-N6	-5.63	119.20	123.70
1	2	979	U	N3-C4-C5	5.63	117.98	114.60
1	2	1136	G	C8-N9-C4	5.63	108.65	106.40
36	1	1098	A	N1-C6-N6	5.63	121.98	118.60
36	1	2345	A	O5'-P-OP2	-5.63	100.63	105.70
36	1	3009	G	C5-C6-O6	-5.63	125.22	128.60
38	4	134	G	N1-C2-N2	5.63	121.27	116.20
80	6	388	G	N1-C2-N2	-5.63	111.13	116.20
80	6	810	G	N3-C4-C5	5.63	131.41	128.60
85	5	933	A	OP1-P-OP2	5.63	128.04	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	984	G	N9-C4-C5	-5.63	103.15	105.40
85	5	1407	A	C4-C5-N7	5.63	113.52	110.70
85	5	2630	C	C2-N3-C4	5.63	122.72	119.90
85	5	3169	U	C2-N3-C4	-5.63	123.62	127.00
1	2	49	C	N1-C2-O2	-5.63	115.52	118.90
1	2	787	A	C5-C6-N1	-5.63	114.89	117.70
1	2	1162	G	N3-C4-C5	5.63	131.41	128.60
1	2	1445	G	N3-C2-N2	5.63	123.84	119.90
1	2	1528	A	N9-C4-C5	-5.63	103.55	105.80
1	2	1550	U	N3-C4-C5	-5.63	111.22	114.60
1	2	1742	C	N1-C2-O2	-5.63	115.52	118.90
36	1	2114	C	C6-N1-C2	5.63	122.55	120.30
36	1	2828	G	C5-N7-C8	5.63	107.11	104.30
36	1	2959	C	OP1-P-O3'	-5.63	92.82	105.20
36	1	3030	G	C5-C6-O6	5.63	131.98	128.60
37	3	109	G	N7-C8-N9	5.63	115.91	113.10
38	4	101	U	C2-N1-C1'	5.63	124.45	117.70
39	L2	6	ARG	NE-CZ-NH2	-5.63	117.49	120.30
80	6	1397	U	N3-C2-O2	-5.63	118.26	122.20
80	6	1746	A	C6-C5-N7	-5.63	128.36	132.30
85	5	525	C	C5-C6-N1	-5.63	118.19	121.00
85	5	2527	G	C5-N7-C8	5.63	107.11	104.30
85	5	2795	U	C4-C5-C6	-5.63	116.32	119.70
85	5	3370	A	N9-C4-C5	5.63	108.05	105.80
1	2	789	A	C8-N9-C4	-5.63	103.55	105.80
36	1	175	C	OP1-P-OP2	-5.63	111.16	119.60
36	1	262	U	C4-C5-C6	-5.63	116.32	119.70
36	1	688	G	C4-C5-C6	5.63	122.18	118.80
36	1	1064	A	OP2-P-O3'	5.63	117.58	105.20
36	1	1149	G	N9-C4-C5	5.63	107.65	105.40
36	1	1336	U	OP1-P-OP2	-5.63	111.16	119.60
36	1	1345	G	N3-C2-N2	-5.63	115.96	119.90
36	1	1447	G	C6-N1-C2	-5.63	121.72	125.10
36	1	1664	G	N1-C2-N3	5.63	127.28	123.90
36	1	1785	U	C2-N1-C1'	-5.63	110.95	117.70
36	1	1848	G	C5-C6-O6	-5.63	125.22	128.60
36	1	2168	A	O5'-P-OP2	-5.63	100.64	105.70
36	1	2518	C	C6-N1-C2	5.63	122.55	120.30
36	1	2703	A	C8-N9-C4	5.63	108.05	105.80
36	1	2703	A	C6-N1-C2	5.63	121.98	118.60
36	1	2963	C	O5'-P-OP1	-5.63	100.64	105.70
36	1	3089	C	C5-C4-N4	-5.63	116.26	120.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3109	G	N3-C4-C5	-5.63	125.79	128.60
36	1	3370	A	OP1-P-O3'	5.63	117.58	105.20
38	4	94	C	N3-C2-O2	-5.63	117.96	121.90
80	6	183	U	C5-C6-N1	-5.63	119.89	122.70
80	6	1318	G	O4'-C1'-N9	-5.63	103.70	108.20
80	6	1566	U	C5-C6-N1	-5.63	119.89	122.70
85	5	96	G	C6-N1-C2	5.63	128.47	125.10
85	5	247	C	C4-C5-C6	-5.63	114.59	117.40
85	5	385	A	C4-C5-C6	5.63	119.81	117.00
85	5	1107	C	OP1-P-OP2	5.63	128.04	119.60
85	5	1113	G	N9-C4-C5	5.63	107.65	105.40
85	5	1119	C	C5-C6-N1	-5.63	118.19	121.00
85	5	1179	A	N1-C6-N6	-5.63	115.22	118.60
85	5	1854	C	N1-C2-O2	-5.63	115.53	118.90
85	5	2185	G	N3-C2-N2	-5.63	115.96	119.90
85	5	2557	A	C8-N9-C4	5.63	108.05	105.80
85	5	2781	U	OP1-P-O3'	5.63	117.58	105.20
46	19	153	ASP	CB-CG-OD2	5.63	123.36	118.30
36	1	535	G	C5-C6-N1	-5.62	108.69	111.50
36	1	1263	A	C8-N9-C4	-5.62	103.55	105.80
36	1	2960	C	O5'-P-OP2	-5.62	100.64	105.70
38	4	105	A	C5-N7-C8	-5.62	101.09	103.90
80	6	380	U	C5-C4-O4	5.62	129.28	125.90
8	s6	177	ARG	NE-CZ-NH1	-5.62	117.49	120.30
85	5	1906	G	N7-C8-N9	5.62	115.91	113.10
85	5	2093	A	OP1-P-OP2	5.62	128.04	119.60
85	5	3239	G	N9-C4-C5	-5.62	103.15	105.40
38	8	99	C	C2-N3-C4	5.62	122.71	119.90
1	2	278	U	C2-N3-C4	5.62	130.37	127.00
1	2	964	U	C4-C5-C6	5.62	123.07	119.70
36	1	1094	U	O5'-P-OP2	-5.62	100.64	105.70
36	1	1183	C	C2-N1-C1'	5.62	124.99	118.80
36	1	1655	G	C4-C5-N7	5.62	113.05	110.80
36	1	2410	U	N3-C4-C5	5.62	117.97	114.60
36	1	2756	C	C6-N1-C2	-5.62	118.05	120.30
36	1	2770	G	N1-C6-O6	-5.62	116.53	119.90
80	6	834	G	N3-C4-C5	5.62	131.41	128.60
80	6	921	U	C2-N3-C4	-5.62	123.63	127.00
80	6	1132	A	C5-N7-C8	-5.62	101.09	103.90
80	6	1653	C	N1-C2-N3	5.62	123.14	119.20
85	5	574	U	OP1-P-O3'	5.62	117.57	105.20
85	5	673	U	OP2-P-O3'	5.62	117.57	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	685	G	N3-C4-C5	5.62	131.41	128.60
85	5	737	G	C6-C5-N7	5.62	133.77	130.40
85	5	1009	A	C4-C5-N7	5.62	113.51	110.70
85	5	1517	G	C4-C5-N7	-5.62	108.55	110.80
85	5	1546	A	N3-C4-C5	5.62	130.74	126.80
85	5	2644	C	N1-C2-O2	5.62	122.27	118.90
85	5	3035	A	C6-N1-C2	-5.62	115.23	118.60
38	8	31	G	N3-C2-N2	-5.62	115.96	119.90
38	8	65	A	N3-C4-C5	-5.62	122.86	126.80
1	2	499	U	P-O3'-C3'	5.62	126.44	119.70
1	2	1467	G	C4-C5-N7	-5.62	108.55	110.80
36	1	11	A	OP1-P-O3'	5.62	117.57	105.20
36	1	253	A	C8-N9-C4	-5.62	103.55	105.80
36	1	424	G	C8-N9-C4	5.62	108.65	106.40
36	1	562	C	N3-C2-O2	-5.62	117.97	121.90
36	1	1198	C	C5-C6-N1	5.62	123.81	121.00
36	1	1361	U	OP2-P-O3'	5.62	117.57	105.20
36	1	1782	U	OP1-P-O3'	5.62	117.57	105.20
36	1	1938	U	C5-C6-N1	5.62	125.51	122.70
36	1	2191	U	N3-C4-O4	5.62	123.33	119.40
36	1	2416	U	C2-N3-C4	-5.62	123.63	127.00
36	1	2523	A	C8-N9-C4	-5.62	103.55	105.80
36	1	2610	G	C4-C5-C6	5.62	122.17	118.80
36	1	2998	U	N3-C4-O4	5.62	123.33	119.40
38	4	151	C	N3-C2-O2	5.62	125.83	121.90
80	6	443	C	N1-C2-O2	5.62	122.27	118.90
80	6	448	C	N3-C2-O2	-5.62	117.97	121.90
80	6	1005	A	OP1-P-O3'	5.62	117.57	105.20
80	6	1107	G	N7-C8-N9	5.62	115.91	113.10
80	6	1222	C	C5-C6-N1	5.62	123.81	121.00
80	6	1423	U	C4-C5-C6	5.62	123.07	119.70
85	5	71	A	C4-C5-C6	5.62	119.81	117.00
85	5	315	C	N1-C2-O2	5.62	122.27	118.90
85	5	330	G	C8-N9-C1'	5.62	134.31	127.00
85	5	548	G	N7-C8-N9	5.62	115.91	113.10
85	5	1055	A	C4-C5-N7	-5.62	107.89	110.70
85	5	1670	C	OP2-P-O3'	5.62	117.56	105.20
85	5	1738	C	N3-C4-C5	-5.62	119.65	121.90
85	5	1779	C	N3-C4-C5	5.62	124.15	121.90
85	5	1785	U	C5-C4-O4	5.62	129.27	125.90
85	5	1920	U	C6-N1-C2	-5.62	117.63	121.00
85	5	1952	G	OP1-P-OP2	5.62	128.03	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2111	G	C6-C5-N7	-5.62	127.03	130.40
85	5	2206	G	O4'-C1'-N9	5.62	112.70	108.20
85	5	2375	G	O4'-C1'-N9	5.62	112.70	108.20
85	5	2378	C	N3-C2-O2	5.62	125.83	121.90
37	7	29	C	C4-C5-C6	5.62	120.21	117.40
55	m9	20	ARG	NE-CZ-NH1	5.62	123.11	120.30
36	1	38	U	O4'-C1'-N1	-5.62	103.70	108.20
36	1	313	A	OP2-P-O3'	5.62	117.56	105.20
36	1	1329	U	OP1-P-OP2	5.62	128.03	119.60
36	1	2627	C	N1-C2-N3	5.62	123.13	119.20
38	4	85	G	C5-C6-N1	5.62	114.31	111.50
80	6	317	C	C5-C6-N1	-5.62	118.19	121.00
85	5	1170	A	C4-N9-C1'	5.62	136.42	126.30
85	5	1521	G	OP1-P-O3'	5.62	117.56	105.20
85	5	1849	C	OP1-P-O3'	5.62	117.56	105.20
85	5	2625	C	N3-C2-O2	5.62	125.83	121.90
85	5	2703	A	C4-C5-N7	5.62	113.51	110.70
85	5	3378	C	C5-C6-N1	5.62	123.81	121.00
37	7	100	C	C5-C4-N4	-5.62	116.27	120.20
38	8	40	A	N9-C4-C5	5.62	108.05	105.80
38	8	106	C	C2-N3-C4	5.62	122.71	119.90
1	2	1124	G	C5-C6-N1	-5.62	108.69	111.50
36	1	105	C	OP1-P-O3'	5.62	117.56	105.20
36	1	353	G	N3-C4-C5	-5.62	125.79	128.60
36	1	435	C	OP2-P-O3'	5.62	117.56	105.20
36	1	683	U	C2-N3-C4	-5.62	123.63	127.00
36	1	944	C	OP1-P-OP2	5.62	128.03	119.60
36	1	1440	G	C4-C5-C6	5.62	122.17	118.80
36	1	1560	G	C2-N3-C4	5.62	114.71	111.90
36	1	1594	A	C8-N9-C4	-5.62	103.55	105.80
36	1	1666	G	C4-C5-N7	5.62	113.05	110.80
36	1	2443	A	C5-N7-C8	-5.62	101.09	103.90
36	1	2946	A	C5-C6-N1	5.62	120.51	117.70
36	1	3134	A	OP1-P-O3'	5.62	117.56	105.20
80	6	612	U	N3-C2-O2	-5.62	118.27	122.20
80	6	1133	A	C2-N3-C4	-5.62	107.79	110.60
80	6	1296	A	N7-C8-N9	-5.62	110.99	113.80
85	5	954	U	C2-N3-C4	-5.62	123.63	127.00
85	5	2120	A	N9-C4-C5	5.62	108.05	105.80
85	5	2402	A	OP1-P-O3'	5.62	117.56	105.20
85	5	2519	A	OP1-P-O3'	5.62	117.56	105.20
85	5	2664	C	N1-C2-N3	-5.62	115.27	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3143	C	N1-C2-O2	-5.62	115.53	118.90
1	2	951	U	N3-C2-O2	-5.62	118.27	122.20
36	1	1307	G	N3-C4-N9	5.62	129.37	126.00
36	1	1602	A	N7-C8-N9	-5.62	110.99	113.80
36	1	1863	G	C2-N3-C4	-5.62	109.09	111.90
36	1	1886	A	C4-C5-C6	5.62	119.81	117.00
36	1	2736	A	OP1-P-OP2	5.62	128.03	119.60
36	1	3128	G	C4-N9-C1'	5.62	133.80	126.50
36	1	3353	G	N1-C6-O6	5.62	123.27	119.90
80	6	1389	C	N1-C2-O2	5.62	122.27	118.90
80	6	1473	U	N3-C4-O4	5.62	123.33	119.40
80	6	1788	G	C6-C5-N7	-5.62	127.03	130.40
85	5	594	U	C5'-C4'-C3'	-5.62	107.01	116.00
85	5	1369	A	C4-C5-C6	5.62	119.81	117.00
85	5	2791	G	N7-C8-N9	-5.62	110.29	113.10
85	5	3123	A	C2-N3-C4	-5.62	107.79	110.60
1	2	258	C	O5'-P-OP2	-5.62	100.65	105.70
1	2	341	A	C5-N7-C8	-5.62	101.09	103.90
36	1	97	U	C2-N1-C1'	-5.62	110.96	117.70
36	1	730	C	C6-N1-C1'	-5.62	114.06	120.80
36	1	1786	G	C6-N1-C2	-5.62	121.73	125.10
36	1	2138	A	C5-C6-N6	-5.62	119.21	123.70
36	1	2141	U	N1-C2-O2	5.62	126.73	122.80
36	1	2398	A	N1-C2-N3	5.62	132.11	129.30
36	1	2606	G	C4-N9-C1'	5.62	133.80	126.50
36	1	2613	U	C5-C4-O4	5.62	129.27	125.90
36	1	2619	G	C5-C6-O6	5.62	131.97	128.60
36	1	3012	A	C5-C6-N1	5.62	120.51	117.70
36	1	3246	G	C5-C6-O6	5.62	131.97	128.60
37	3	22	A	C2-N3-C4	5.62	113.41	110.60
38	4	93	U	N1-C2-O2	-5.62	118.87	122.80
80	6	42	G	C8-N9-C4	-5.62	104.15	106.40
80	6	384	G	C6-N1-C2	-5.62	121.73	125.10
80	6	462	G	C8-N9-C4	5.62	108.65	106.40
80	6	1057	U	C5-C4-O4	5.62	129.27	125.90
80	6	1214	U	C6-N1-C1'	-5.62	113.34	121.20
85	5	596	C	C4-C5-C6	5.62	120.21	117.40
85	5	986	U	OP2-P-O3'	5.62	117.56	105.20
85	5	1060	U	N3-C4-O4	-5.62	115.47	119.40
85	5	1340	G	N7-C8-N9	-5.62	110.29	113.10
85	5	1740	U	N3-C4-C5	5.62	117.97	114.60
85	5	2177	G	N1-C6-O6	5.62	123.27	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2679	A	C4-C5-N7	5.62	113.51	110.70
38	8	60	U	O5'-P-OP2	-5.62	100.65	105.70
1	2	915	U	C5-C4-O4	5.61	129.27	125.90
1	2	1229	C	O4'-C1'-N1	5.61	112.69	108.20
1	2	1354	A	C8-N9-C4	5.61	108.05	105.80
1	2	1391	G	C2-N3-C4	-5.61	109.09	111.90
1	2	1471	G	C8-N9-C4	-5.61	104.16	106.40
1	2	1640	U	OP2-P-O3'	5.61	117.55	105.20
36	1	32	U	C5'-C4'-O4'	-5.61	102.36	109.10
36	1	147	U	C5-C4-O4	5.61	129.27	125.90
36	1	947	G	C4-N9-C1'	5.61	133.80	126.50
36	1	1782	U	N3-C2-O2	5.61	126.13	122.20
36	1	2550	U	C5-C4-O4	5.61	129.27	125.90
85	5	1194	G	N7-C8-N9	5.61	115.91	113.10
85	5	1724	U	C5-C6-N1	-5.61	119.89	122.70
85	5	1775	G	C8-N9-C4	5.61	108.65	106.40
85	5	2247	G	N3-C4-N9	-5.61	122.63	126.00
85	5	2298	U	N3-C4-C5	-5.61	111.23	114.60
85	5	2618	G	N1-C2-N2	-5.61	111.15	116.20
85	5	2933	A	C5-C6-N6	5.61	128.19	123.70
85	5	2947	G	OP1-P-O3'	5.61	117.55	105.20
85	5	3141	A	OP1-P-OP2	5.61	128.02	119.60
1	2	40	A	O5'-P-OP1	5.61	117.43	110.70
1	2	937	G	N1-C6-O6	5.61	123.27	119.90
1	2	1374	A	C8-N9-C4	5.61	108.05	105.80
36	1	1659	U	C5-C4-O4	5.61	129.27	125.90
36	1	2144	A	OP1-P-O3'	5.61	117.55	105.20
36	1	3174	A	C2-N3-C4	-5.61	107.79	110.60
80	6	1152	A	OP1-P-OP2	5.61	128.02	119.60
80	6	1161	C	N3-C2-O2	-5.61	117.97	121.90
85	5	30	G	C4-C5-N7	5.61	113.05	110.80
85	5	390	G	C8-N9-C1'	5.61	134.29	127.00
85	5	853	G	C6-N1-C2	-5.61	121.73	125.10
85	5	1486	G	C6-N1-C2	-5.61	121.73	125.10
36	1	69	C	C4-C5-C6	5.61	120.20	117.40
36	1	286	U	C4-C5-C6	5.61	123.07	119.70
36	1	1119	C	C2-N1-C1'	-5.61	112.63	118.80
36	1	1663	C	N1-C2-O2	-5.61	115.53	118.90
36	1	1940	G	N3-C4-C5	5.61	131.41	128.60
36	1	2967	A	C4-C5-C6	5.61	119.81	117.00
80	6	40	A	N9-C4-C5	5.61	108.04	105.80
80	6	156	A	N7-C8-N9	-5.61	111.00	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	786	C	N3-C4-C5	-5.61	119.66	121.90
80	6	1155	G	C8-N9-C1'	5.61	134.29	127.00
80	6	1254	U	N3-C2-O2	5.61	126.13	122.20
80	6	1264	G	C5-N7-C8	5.61	107.11	104.30
80	6	1450	U	C4-C5-C6	-5.61	116.33	119.70
80	6	1610	G	C2-N3-C4	-5.61	109.09	111.90
85	5	28	C	C6-N1-C2	5.61	122.54	120.30
85	5	354	U	N1-C2-O2	-5.61	118.87	122.80
85	5	945	C	C2-N1-C1'	5.61	124.97	118.80
85	5	1223	A	C4-C5-N7	-5.61	107.89	110.70
85	5	1293	U	OP2-P-O3'	5.61	117.55	105.20
85	5	1313	G	C6-C5-N7	-5.61	127.03	130.40
85	5	1944	U	C4-C5-C6	5.61	123.07	119.70
85	5	2400	G	O4'-C1'-N9	5.61	112.69	108.20
85	5	2421	U	C6-N1-C2	-5.61	117.63	121.00
85	5	3018	C	C6-N1-C2	-5.61	118.06	120.30
85	5	3169	U	N3-C4-C5	5.61	117.97	114.60
38	8	14	C	N1-C2-N3	5.61	123.13	119.20
38	8	99	C	C4-C5-C6	-5.61	114.59	117.40
68	o2	44	ARG	NE-CZ-NH1	-5.61	117.49	120.30
1	2	1014	U	N3-C4-O4	-5.61	115.47	119.40
1	2	1086	U	C4-C5-C6	-5.61	116.33	119.70
1	2	1223	U	C5-C4-O4	5.61	129.27	125.90
36	1	1289	G	C4-C5-N7	5.61	113.04	110.80
80	6	879	G	N9-C4-C5	5.61	107.64	105.40
80	6	1320	U	N3-C4-O4	-5.61	115.47	119.40
80	6	1325	A	N1-C6-N6	5.61	121.97	118.60
85	5	1444	G	N3-C2-N2	-5.61	115.97	119.90
85	5	2269	U	N1-C2-N3	5.61	118.27	114.90
85	5	3199	G	C5-C6-O6	5.61	131.97	128.60
85	5	3316	A	C5-C6-N6	5.61	128.19	123.70
37	7	110	G	N9-C4-C5	-5.61	103.16	105.40
38	8	65	A	C2-N3-C4	5.61	113.41	110.60
1	2	594	A	N7-C8-N9	-5.61	111.00	113.80
1	2	770	G	N1-C2-N3	5.61	127.27	123.90
1	2	1634	A	N1-C6-N6	5.61	121.97	118.60
1	2	1651	G	C5-C6-N1	-5.61	108.70	111.50
36	1	224	C	N3-C4-N4	5.61	121.92	118.00
36	1	654	C	C2-N3-C4	5.61	122.70	119.90
36	1	904	A	N7-C8-N9	-5.61	111.00	113.80
36	1	1326	A	OP1-P-O3'	5.61	117.54	105.20
36	1	1430	U	C6-N1-C2	5.61	124.36	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1691	U	C5-C4-O4	5.61	129.26	125.90
36	1	2513	U	OP1-P-OP2	-5.61	111.19	119.60
36	1	3044	G	C4-C5-N7	-5.61	108.56	110.80
37	3	102	A	C8-N9-C4	5.61	108.04	105.80
38	4	112	U	C5-C4-O4	5.61	129.26	125.90
80	6	1413	U	C4-C5-C6	-5.61	116.33	119.70
80	6	1662	G	N7-C8-N9	-5.61	110.30	113.10
85	5	344	A	OP2-P-O3'	5.61	117.54	105.20
85	5	567	G	C6-C5-N7	-5.61	127.04	130.40
85	5	732	C	C5-C4-N4	-5.61	116.28	120.20
85	5	863	C	C5-C4-N4	-5.61	116.28	120.20
85	5	1606	U	N3-C4-C5	-5.61	111.24	114.60
85	5	2685	C	OP1-P-O3'	-5.61	92.86	105.20
85	5	2710	C	C5-C4-N4	-5.61	116.27	120.20
85	5	2827	U	N3-C4-O4	5.61	123.33	119.40
85	5	3240	C	N1-C2-N3	-5.61	115.28	119.20
57	n1	10	ARG	NE-CZ-NH2	5.61	123.10	120.30
1	2	339	C	C6-N1-C2	-5.61	118.06	120.30
1	2	560	U	N3-C2-O2	-5.61	118.28	122.20
1	2	1092	G	N3-C4-N9	-5.61	122.64	126.00
1	2	1298	U	C5-C6-N1	-5.61	119.90	122.70
1	2	1560	A	C5-N7-C8	-5.61	101.10	103.90
36	1	354	U	OP1-P-OP2	5.61	128.01	119.60
36	1	888	A	OP2-P-O3'	5.61	117.53	105.20
36	1	1304	A	C6-C5-N7	5.61	136.22	132.30
36	1	1532	C	C5-C6-N1	-5.61	118.20	121.00
36	1	1596	C	C5-C6-N1	-5.61	118.20	121.00
36	1	1606	U	N3-C2-O2	5.61	126.12	122.20
36	1	2181	C	C5-C4-N4	-5.61	116.28	120.20
36	1	2869	U	N1-C2-N3	5.61	118.26	114.90
38	4	25	G	OP1-P-OP2	5.61	128.01	119.60
85	5	564	G	O4'-C1'-N9	-5.61	103.72	108.20
85	5	639	G	C5-N7-C8	-5.61	101.50	104.30
85	5	717	C	N3-C4-C5	5.61	124.14	121.90
85	5	962	A	N3-C4-C5	-5.61	122.88	126.80
85	5	1035	G	N9-C4-C5	5.61	107.64	105.40
85	5	1307	G	N7-C8-N9	-5.61	110.30	113.10
85	5	2181	C	N3-C4-C5	5.61	124.14	121.90
85	5	2568	C	C6-N1-C2	5.61	122.54	120.30
85	5	2787	G	C6-C5-N7	-5.61	127.04	130.40
85	5	2801	A	C6-C5-N7	5.61	136.22	132.30
85	5	3380	U	N3-C4-C5	5.61	117.96	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3384	U	C4-C5-C6	5.61	123.06	119.70
1	2	436	A	C6-N1-C2	-5.60	115.24	118.60
1	2	595	G	N1-C2-N3	5.60	127.26	123.90
36	1	1341	U	O4'-C1'-N1	-5.60	103.72	108.20
36	1	2753	G	C6-C5-N7	5.60	133.76	130.40
80	6	424	C	C4-C5-C6	-5.60	114.60	117.40
80	6	465	G	C6-C5-N7	-5.60	127.04	130.40
80	6	938	G	C6-C5-N7	-5.60	127.04	130.40
85	5	588	G	P-O3'-C3'	-5.60	112.97	119.70
85	5	971	G	C4-C5-N7	5.60	113.04	110.80
85	5	1134	G	C6-N1-C2	-5.60	121.74	125.10
85	5	1652	G	N9-C4-C5	5.60	107.64	105.40
85	5	1784	G	C4-C5-C6	5.60	122.16	118.80
85	5	1917	C	OP2-P-O3'	5.60	117.53	105.20
85	5	2642	A	N3-C4-C5	5.60	130.72	126.80
1	2	650	U	C5-C6-N1	5.60	125.50	122.70
1	2	698	U	C5-C6-N1	5.60	125.50	122.70
1	2	770	G	N9-C4-C5	5.60	107.64	105.40
1	2	1470	A	C2-N3-C4	-5.60	107.80	110.60
36	1	434	U	N3-C2-O2	-5.60	118.28	122.20
36	1	513	G	C5-N7-C8	5.60	107.10	104.30
36	1	822	G	C4-C5-C6	5.60	122.16	118.80
36	1	1105	A	C4-C5-C6	5.60	119.80	117.00
36	1	1619	A	C8-N9-C4	5.60	108.04	105.80
36	1	2269	U	C5-C4-O4	5.60	129.26	125.90
36	1	2378	C	N1-C2-O2	-5.60	115.54	118.90
80	6	48	G	OP2-P-O3'	5.60	117.53	105.20
80	6	383	G	P-O3'-C3'	-5.60	112.98	119.70
80	6	1035	G	C5-C6-N1	5.60	114.30	111.50
85	5	390	G	C6-C5-N7	-5.60	127.04	130.40
85	5	685	G	N9-C4-C5	-5.60	103.16	105.40
85	5	792	G	N7-C8-N9	-5.60	110.30	113.10
85	5	793	C	OP1-P-O3'	5.60	117.52	105.20
85	5	887	G	C5-C6-O6	-5.60	125.24	128.60
85	5	993	G	N1-C2-N2	-5.60	111.16	116.20
85	5	1137	C	C2-N1-C1'	5.60	124.96	118.80
85	5	1204	A	C5-C6-N1	-5.60	114.90	117.70
85	5	1603	A	N3-C4-C5	-5.60	122.88	126.80
85	5	2138	A	C8-N9-C4	-5.60	103.56	105.80
85	5	2439	A	N9-C4-C5	-5.60	103.56	105.80
85	5	2970	C	OP1-P-O3'	5.60	117.52	105.20
85	5	3219	G	N1-C6-O6	5.60	123.26	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3298	C	C6-N1-C2	5.60	122.54	120.30
51	m5	49	ARG	NE-CZ-NH2	-5.60	117.50	120.30
1	2	505	A	C2-N3-C4	5.60	113.40	110.60
36	1	331	G	C6-C5-N7	-5.60	127.04	130.40
36	1	547	G	C5-N7-C8	-5.60	101.50	104.30
36	1	1440	G	C5-C6-N1	-5.60	108.70	111.50
36	1	2387	A	C5-C6-N1	-5.60	114.90	117.70
80	6	359	A	C4-C5-N7	5.60	113.50	110.70
80	6	1201	G	N9-C4-C5	-5.60	103.16	105.40
80	6	1765	A	N9-C4-C5	5.60	108.04	105.80
85	5	682	U	C5-C4-O4	5.60	129.26	125.90
85	5	1780	G	N7-C8-N9	5.60	115.90	113.10
85	5	2777	G	OP1-P-O3'	5.60	117.52	105.20
85	5	3156	U	N3-C2-O2	-5.60	118.28	122.20
1	2	1349	U	O4'-C1'-N1	5.60	112.68	108.20
1	2	1558	G	N1-C6-O6	-5.60	116.54	119.90
36	1	308	A	N1-C6-N6	-5.60	115.24	118.60
36	1	604	G	C6-C5-N7	-5.60	127.04	130.40
36	1	818	C	N3-C4-N4	5.60	121.92	118.00
36	1	1710	C	C6-N1-C2	-5.60	118.06	120.30
36	1	1859	A	C4-C5-N7	-5.60	107.90	110.70
36	1	2977	G	N1-C2-N2	-5.60	111.16	116.20
70	O4	31	ARG	NE-CZ-NH2	-5.60	117.50	120.30
80	6	56	U	OP2-P-O3'	5.60	117.52	105.20
80	6	404	G	O5'-P-OP1	-5.60	100.66	105.70
80	6	407	A	N7-C8-N9	5.60	116.60	113.80
80	6	577	G	N1-C6-O6	5.60	123.26	119.90
80	6	1041	G	N3-C2-N2	-5.60	115.98	119.90
80	6	1368	G	C2-N3-C4	-5.60	109.10	111.90
80	6	1662	G	C4-C5-C6	5.60	122.16	118.80
80	6	1767	G	O5'-P-OP2	-5.60	100.66	105.70
85	5	65	A	C4-C5-N7	5.60	113.50	110.70
85	5	494	G	C5-N7-C8	-5.60	101.50	104.30
85	5	801	A	N9-C4-C5	5.60	108.04	105.80
85	5	1415	U	C5-C4-O4	5.60	129.26	125.90
85	5	1554	U	N1-C2-O2	-5.60	118.88	122.80
85	5	1846	C	C6-N1-C1'	-5.60	114.08	120.80
85	5	2516	U	N3-C4-C5	-5.60	111.24	114.60
85	5	2880	U	C6-N1-C1'	5.60	129.04	121.20
85	5	3027	A	C8-N9-C4	-5.60	103.56	105.80
85	5	3183	A	O5'-P-OP1	5.60	117.42	110.70
85	5	3229	G	N7-C8-N9	-5.60	110.30	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	l3	247	ARG	NE-CZ-NH1	-5.60	117.50	120.30
1	2	5	U	C6-N1-C2	-5.60	117.64	121.00
1	2	797	A	C2-N3-C4	-5.60	107.80	110.60
1	2	1368	G	C4-C5-N7	5.60	113.04	110.80
36	1	337	G	N9-C4-C5	-5.60	103.16	105.40
36	1	1545	A	N3-C4-C5	-5.60	122.88	126.80
36	1	1746	U	N1-C2-O2	-5.60	118.88	122.80
36	1	1885	U	N1-C2-N3	-5.60	111.54	114.90
36	1	2365	C	N3-C4-N4	5.60	121.92	118.00
36	1	2378	C	N3-C4-N4	5.60	121.92	118.00
36	1	2407	C	N3-C2-O2	-5.60	117.98	121.90
36	1	2690	G	C8-N9-C4	-5.60	104.16	106.40
36	1	3269	U	N1-C2-N3	5.60	118.26	114.90
37	3	96	U	O5'-P-OP2	-5.60	100.66	105.70
38	4	39	G	C8-N9-C4	-5.60	104.16	106.40
78	Q2	48	SER	C-N-CA	-5.60	110.55	122.30
80	6	363	G	OP2-P-O3'	5.60	117.51	105.20
80	6	557	G	OP2-P-O3'	5.60	117.52	105.20
80	6	658	C	OP2-P-O3'	5.60	117.51	105.20
80	6	1135	U	OP2-P-O3'	5.60	117.52	105.20
80	6	1424	A	C5-C6-N1	-5.60	114.90	117.70
80	6	1662	G	O5'-P-OP2	-5.60	100.66	105.70
85	5	242	C	N3-C2-O2	5.60	125.82	121.90
85	5	244	G	C4-N9-C1'	-5.60	119.22	126.50
85	5	339	C	C2-N3-C4	5.60	122.70	119.90
85	5	530	G	N3-C4-N9	5.60	129.36	126.00
85	5	742	G	OP1-P-O3'	5.60	117.51	105.20
85	5	972	A	OP2-P-O3'	5.60	117.52	105.20
85	5	1157	G	C4-C5-N7	-5.60	108.56	110.80
85	5	1160	C	C2-N1-C1'	-5.60	112.64	118.80
85	5	1424	C	C5-C4-N4	-5.60	116.28	120.20
85	5	1912	U	C4-C5-C6	5.60	123.06	119.70
85	5	2159	U	C6-N1-C2	5.60	124.36	121.00
37	7	116	C	N1-C2-N3	-5.60	115.28	119.20
1	2	577	G	C6-C5-N7	-5.60	127.04	130.40
1	2	1574	C	C5-C4-N4	5.60	124.12	120.20
85	5	947	G	C4-N9-C1'	5.60	133.78	126.50
1	2	129	U	C4-C5-C6	5.59	123.06	119.70
1	2	1584	G	N9-C4-C5	5.59	107.64	105.40
1	2	1650	A	N3-C4-N9	-5.59	122.92	127.40
36	1	1100	U	C2-N1-C1'	-5.59	110.99	117.70
36	1	2221	G	C2-N3-C4	-5.59	109.10	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2394	G	C4-C5-N7	-5.59	108.56	110.80
36	1	2631	U	C2-N1-C1'	5.59	124.41	117.70
38	4	25	G	C4-C5-N7	-5.59	108.56	110.80
38	4	93	U	C2-N3-C4	5.59	130.36	127.00
80	6	860	U	C5-C6-N1	-5.59	119.90	122.70
85	5	574	U	N1-C2-N3	-5.59	111.54	114.90
85	5	669	U	N1-C2-N3	5.59	118.26	114.90
85	5	686	G	C8-N9-C4	5.59	108.64	106.40
85	5	743	C	C2-N1-C1'	5.59	124.95	118.80
85	5	1213	G	C8-N9-C4	5.59	108.64	106.40
85	5	1613	A	C5-C6-N6	-5.59	119.22	123.70
85	5	1889	G	C6-N1-C2	-5.59	121.74	125.10
85	5	2836	C	OP2-P-O3'	5.59	117.51	105.20
85	5	3015	G	N1-C2-N3	5.59	127.26	123.90
85	5	3254	G	O5'-P-OP2	5.59	117.41	110.70
85	5	3266	G	O4'-C1'-N9	5.59	112.67	108.20
1	2	245	U	N3-C4-C5	5.59	117.96	114.60
1	2	692	C	C6-N1-C2	-5.59	118.06	120.30
1	2	961	A	C6-N1-C2	-5.59	115.24	118.60
1	2	1438	G	OP1-P-OP2	-5.59	111.21	119.60
36	1	1459	C	OP1-P-OP2	-5.59	111.21	119.60
36	1	2204	C	O5'-P-OP2	-5.59	100.67	105.70
38	4	90	U	OP1-P-OP2	-5.59	111.21	119.60
80	6	773	C	C5-C6-N1	-5.59	118.20	121.00
85	5	27	C	C6-N1-C1'	5.59	127.51	120.80
85	5	523	A	N3-C4-C5	5.59	130.72	126.80
85	5	680	G	OP1-P-OP2	5.59	127.99	119.60
85	5	992	A	N1-C6-N6	5.59	121.96	118.60
85	5	1159	A	N7-C8-N9	5.59	116.60	113.80
85	5	1549	U	N3-C2-O2	5.59	126.11	122.20
85	5	1714	A	C6-N1-C2	5.59	121.96	118.60
85	5	2117	A	C5-N7-C8	5.59	106.70	103.90
85	5	2386	A	N1-C2-N3	5.59	132.10	129.30
85	5	2435	G	C2-N3-C4	-5.59	109.10	111.90
1	2	133	U	C5-C6-N1	-5.59	119.90	122.70
1	2	296	U	N3-C4-O4	5.59	123.31	119.40
1	2	440	U	C4-C5-C6	5.59	123.06	119.70
1	2	474	A	C2-N3-C4	-5.59	107.81	110.60
1	2	1638	A	C8-N9-C4	-5.59	103.56	105.80
36	1	195	U	N3-C4-O4	-5.59	115.49	119.40
36	1	288	C	O5'-P-OP1	-5.59	100.67	105.70
36	1	315	C	N3-C4-N4	5.59	121.91	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	341	G	N1-C6-O6	5.59	123.25	119.90
36	1	498	A	C4-C5-C6	5.59	119.80	117.00
36	1	1059	G	C5-C6-N1	-5.59	108.70	111.50
36	1	1163	A	N1-C2-N3	5.59	132.10	129.30
36	1	1410	U	O4'-C1'-N1	5.59	112.67	108.20
36	1	2696	A	OP1-P-OP2	5.59	127.99	119.60
36	1	2761	G	N1-C2-N2	-5.59	111.17	116.20
36	1	3201	C	C4-C5-C6	5.59	120.20	117.40
37	3	2	G	C6-N1-C2	-5.59	121.75	125.10
38	4	105	A	OP1-P-O3'	5.59	117.50	105.20
80	6	375	U	N1-C2-O2	-5.59	118.89	122.80
80	6	846	G	C8-N9-C4	-5.59	104.16	106.40
80	6	987	G	C8-N9-C1'	5.59	134.27	127.00
80	6	1107	G	C6-N1-C2	-5.59	121.75	125.10
85	5	55	G	N3-C4-C5	5.59	131.40	128.60
85	5	150	A	OP1-P-O3'	5.59	117.50	105.20
85	5	374	A	C6-N1-C2	-5.59	115.25	118.60
85	5	2315	G	C4-C5-N7	5.59	113.04	110.80
85	5	3037	U	C4-C5-C6	5.59	123.06	119.70
85	5	3159	C	C2-N3-C4	-5.59	117.11	119.90
38	8	5	U	O5'-P-OP1	5.59	117.41	110.70
38	8	70	G	N1-C6-O6	-5.59	116.55	119.90
36	1	209	A	N1-C6-N6	5.59	121.95	118.60
36	1	220	G	OP2-P-O3'	5.59	117.50	105.20
36	1	368	G	N3-C4-C5	5.59	131.40	128.60
36	1	1949	G	C5-N7-C8	-5.59	101.51	104.30
36	1	2137	U	N3-C4-C5	5.59	117.95	114.60
36	1	2312	A	OP1-P-OP2	-5.59	111.22	119.60
36	1	2345	A	C5-C6-N1	-5.59	114.91	117.70
36	1	2397	A	N9-C4-C5	-5.59	103.56	105.80
36	1	2818	U	N3-C4-C5	5.59	117.95	114.60
36	1	3266	G	N3-C2-N2	-5.59	115.99	119.90
80	6	56	U	O5'-P-OP2	-5.59	100.67	105.70
80	6	877	G	C5-C6-N1	5.59	114.29	111.50
80	6	1137	A	C5-N7-C8	-5.59	101.11	103.90
80	6	1449	U	C5-C4-O4	5.59	129.25	125.90
85	5	412	G	N1-C2-N3	5.59	127.25	123.90
85	5	1647	A	N1-C6-N6	-5.59	115.25	118.60
85	5	1798	A	C5-C6-N6	5.59	128.17	123.70
85	5	1940	G	C8-N9-C4	-5.59	104.16	106.40
85	5	2373	A	C5-C6-N6	-5.59	119.23	123.70
85	5	2752	U	OP1-P-OP2	5.59	127.98	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	10	A	N7-C8-N9	5.59	116.59	113.80
36	1	1306	G	C4-N9-C1'	5.59	133.76	126.50
36	1	1407	A	OP1-P-OP2	-5.59	111.22	119.60
36	1	1883	A	N1-C2-N3	5.59	132.09	129.30
36	1	2989	U	OP2-P-O3'	5.59	117.49	105.20
85	5	2152	A	O5'-P-OP1	5.59	117.41	110.70
1	2	714	C	N3-C4-C5	5.59	124.14	121.90
1	2	868	G	C6-N1-C2	5.59	128.45	125.10
1	2	1056	G	N7-C8-N9	-5.59	110.31	113.10
1	2	1157	C	C6-N1-C1'	-5.59	114.10	120.80
1	2	1575	A	O4'-C1'-N9	5.59	112.67	108.20
36	1	38	U	C5-C6-N1	5.59	125.49	122.70
36	1	656	A	C6-N1-C2	-5.59	115.25	118.60
36	1	882	A	N7-C8-N9	5.59	116.59	113.80
36	1	1139	G	C5-N7-C8	5.59	107.09	104.30
36	1	1291	A	C4-C5-N7	5.59	113.49	110.70
36	1	1590	G	N1-C2-N2	-5.59	111.17	116.20
36	1	1730	G	C5-C6-O6	5.59	131.95	128.60
36	1	1943	C	N1-C2-N3	5.59	123.11	119.20
36	1	2276	G	N3-C2-N2	5.59	123.81	119.90
36	1	2959	C	C6-N1-C2	-5.59	118.06	120.30
36	1	3146	G	N7-C8-N9	-5.59	110.31	113.10
38	4	37	A	C2-N3-C4	5.59	113.39	110.60
73	O7	59	THR	C-N-CA	-5.59	110.57	122.30
80	6	114	C	C5-C4-N4	-5.59	116.29	120.20
80	6	363	G	N3-C4-C5	5.59	131.39	128.60
80	6	983	A	C8-N9-C4	-5.59	103.56	105.80
80	6	1371	A	C8-N9-C4	-5.59	103.57	105.80
85	5	944	C	C4-C5-C6	5.59	120.19	117.40
85	5	1225	A	C5-C6-N1	5.59	120.49	117.70
85	5	1547	G	O5'-P-OP1	-5.59	100.67	105.70
85	5	2737	C	N3-C2-O2	5.59	125.81	121.90
85	5	3030	G	N9-C4-C5	5.59	107.63	105.40
42	l5	230	ASP	CB-CG-OD2	5.59	123.33	118.30
1	2	1215	U	N3-C2-O2	-5.58	118.29	122.20
1	2	1308	A	C5-C6-N1	5.58	120.49	117.70
36	1	242	C	N1-C2-N3	-5.58	115.29	119.20
36	1	839	C	C5-C6-N1	5.58	123.79	121.00
36	1	1429	G	O4'-C1'-N9	-5.58	103.73	108.20
36	1	2881	C	C2-N3-C4	-5.58	117.11	119.90
38	4	128	U	N3-C4-C5	5.58	117.95	114.60
80	6	845	G	C5-C6-O6	5.58	131.95	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	894	U	C4-C5-C6	-5.58	116.35	119.70
85	5	331	G	C6-N1-C2	-5.58	121.75	125.10
85	5	713	U	N3-C4-C5	-5.58	111.25	114.60
85	5	1614	C	C5-C6-N1	-5.58	118.21	121.00
85	5	2323	G	N9-C4-C5	5.58	107.63	105.40
85	5	2412	G	C5-N7-C8	5.58	107.09	104.30
85	5	3027	A	C6-N1-C2	-5.58	115.25	118.60
85	5	3363	U	OP2-P-O3'	-5.58	92.91	105.20
1	2	368	U	C5-C4-O4	-5.58	122.55	125.90
1	2	405	C	C4-C5-C6	-5.58	114.61	117.40
1	2	1271	G	N9-C4-C5	5.58	107.63	105.40
1	2	1753	U	N3-C4-O4	5.58	123.31	119.40
36	1	55	G	C2-N3-C4	-5.58	109.11	111.90
36	1	93	C	C2-N3-C4	5.58	122.69	119.90
36	1	512	U	N1-C2-O2	-5.58	118.89	122.80
36	1	601	U	N3-C4-O4	-5.58	115.49	119.40
36	1	732	C	N3-C2-O2	-5.58	117.99	121.90
36	1	912	G	C6-N1-C2	-5.58	121.75	125.10
36	1	924	G	C4-C5-N7	5.58	113.03	110.80
36	1	1108	U	OP1-P-O3'	5.58	117.48	105.20
36	1	1514	G	C2-N3-C4	-5.58	109.11	111.90
36	1	1523	U	C2-N3-C4	5.58	130.35	127.00
36	1	1655	G	C6-C5-N7	-5.58	127.05	130.40
36	1	1771	C	OP1-P-OP2	-5.58	111.22	119.60
36	1	1816	A	C5-C6-N6	5.58	128.17	123.70
36	1	1863	G	N1-C2-N2	-5.58	111.17	116.20
36	1	1930	A	OP2-P-O3'	5.58	117.48	105.20
36	1	2110	G	C8-N9-C4	5.58	108.63	106.40
36	1	3130	A	N9-C4-C5	5.58	108.03	105.80
37	3	15	C	C2-N1-C1'	-5.58	112.66	118.80
37	3	33	U	N1-C2-N3	5.58	118.25	114.90
38	4	87	G	N7-C8-N9	-5.58	110.31	113.10
38	4	142	C	N1-C2-O2	-5.58	115.55	118.90
80	6	211	U	N3-C4-C5	5.58	117.95	114.60
80	6	392	G	C5-C6-O6	-5.58	125.25	128.60
80	6	1631	A	OP1-P-O3'	5.58	117.49	105.20
80	6	1646	C	OP1-P-O3'	5.58	117.48	105.20
80	6	1708	U	C6-N1-C2	-5.58	117.65	121.00
85	5	29	C	N3-C4-C5	-5.58	119.67	121.90
85	5	42	C	C5-C4-N4	-5.58	116.29	120.20
85	5	2622	C	P-O3'-C3'	-5.58	113.00	119.70
85	5	2759	U	N3-C4-O4	5.58	123.31	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	57	C	O5'-P-OP1	5.58	117.40	110.70
52	m6	102	LEU	CB-CG-CD1	-5.58	101.51	111.00
1	2	328	A	C5-C6-N6	-5.58	119.23	123.70
1	2	1198	C	C4-C5-C6	5.58	120.19	117.40
36	1	399	A	C8-N9-C4	-5.58	103.57	105.80
36	1	558	U	N3-C4-O4	-5.58	115.49	119.40
36	1	902	G	C5-C6-O6	-5.58	125.25	128.60
36	1	2131	A	C8-N9-C4	5.58	108.03	105.80
36	1	2328	U	N3-C4-C5	5.58	117.95	114.60
36	1	2342	U	C6-N1-C2	5.58	124.35	121.00
36	1	2391	G	C6-C5-N7	-5.58	127.05	130.40
36	1	2674	A	O5'-P-OP2	-5.58	100.68	105.70
36	1	2725	U	C2-N1-C1'	5.58	124.40	117.70
36	1	3282	U	C6-N1-C2	-5.58	117.65	121.00
37	3	14	U	N1-C2-N3	-5.58	111.55	114.90
38	4	29	U	N3-C4-O4	-5.58	115.49	119.40
80	6	616	G	N9-C4-C5	5.58	107.63	105.40
80	6	1668	G	C6-N1-C2	-5.58	121.75	125.10
80	6	1768	G	O4'-C1'-N9	-5.58	103.73	108.20
80	6	1780	G	C2-N3-C4	5.58	114.69	111.90
85	5	733	G	N1-C2-N3	-5.58	120.55	123.90
85	5	956	U	O5'-P-OP2	-5.58	100.68	105.70
85	5	1202	A	OP1-P-OP2	5.58	127.97	119.60
85	5	1312	C	OP1-P-OP2	-5.58	111.23	119.60
85	5	1476	G	C4-C5-C6	5.58	122.15	118.80
85	5	2253	G	N7-C8-N9	5.58	115.89	113.10
85	5	3363	U	N3-C4-O4	5.58	123.31	119.40
37	7	19	C	N3-C4-C5	5.58	124.13	121.90
37	7	20	A	C2-N3-C4	-5.58	107.81	110.60
51	m5	67	ARG	NE-CZ-NH1	-5.58	117.51	120.30
1	2	491	C	C5-C6-N1	5.58	123.79	121.00
1	2	1592	U	N3-C2-O2	5.58	126.11	122.20
36	1	979	U	C2-N1-C1'	5.58	124.40	117.70
36	1	1422	G	N3-C4-C5	-5.58	125.81	128.60
36	1	2540	A	C6-N1-C2	5.58	121.95	118.60
80	6	119	A	O5'-P-OP1	-5.58	100.68	105.70
85	5	1821	U	O5'-P-OP2	5.58	117.40	110.70
85	5	2645	G	C8-N9-C4	5.58	108.63	106.40
1	2	311	U	C5-C4-O4	5.58	129.25	125.90
1	2	602	U	C6-N1-C2	-5.58	117.65	121.00
36	1	107	A	OP1-P-OP2	-5.58	111.23	119.60
36	1	185	C	C5-C6-N1	-5.58	118.21	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	568	G	C5-C6-O6	5.58	131.95	128.60
36	1	844	G	N3-C4-C5	5.58	131.39	128.60
36	1	1178	G	N3-C4-N9	5.58	129.35	126.00
36	1	1284	C	O5'-P-OP2	5.58	117.39	110.70
36	1	1595	U	O5'-P-OP2	5.58	117.39	110.70
36	1	2152	A	N7-C8-N9	5.58	116.59	113.80
36	1	2966	G	C5-C6-N1	-5.58	108.71	111.50
36	1	3309	G	N1-C6-O6	5.58	123.25	119.90
80	6	54	C	OP2-P-O3'	5.58	117.47	105.20
80	6	488	G	N9-C4-C5	-5.58	103.17	105.40
80	6	1753	A	O5'-P-OP1	-5.58	100.68	105.70
85	5	50	U	N3-C4-C5	-5.58	111.25	114.60
85	5	762	U	OP1-P-OP2	-5.58	111.23	119.60
85	5	790	U	N3-C2-O2	5.58	126.11	122.20
85	5	1138	U	N1-C2-N3	5.58	118.25	114.90
85	5	1576	G	N1-C2-N3	-5.58	120.55	123.90
85	5	1925	U	N3-C2-O2	5.58	126.11	122.20
85	5	2175	U	N1-C2-O2	5.58	126.70	122.80
85	5	2205	U	C4-C5-C6	-5.58	116.35	119.70
85	5	2228	A	N1-C2-N3	5.58	132.09	129.30
85	5	2805	G	N1-C2-N3	5.58	127.25	123.90
85	5	3042	U	C2-N3-C4	-5.58	123.65	127.00
85	5	3077	A	C5-C6-N1	5.58	120.49	117.70
85	5	3116	G	C6-N1-C2	-5.58	121.75	125.10
85	5	3162	C	N3-C4-C5	-5.58	119.67	121.90
85	5	3374	U	N1-C2-O2	5.58	126.70	122.80
38	8	41	A	N1-C2-N3	5.58	132.09	129.30
38	8	62	C	O5'-P-OP2	5.58	117.39	110.70
1	2	74	U	N3-C2-O2	5.58	126.10	122.20
1	2	323	A	C8-N9-C4	-5.58	103.57	105.80
1	2	1496	G	C4-C5-C6	5.58	122.15	118.80
36	1	256	G	C6-C5-N7	-5.58	127.05	130.40
39	L2	17	THR	CA-CB-CG2	-5.58	104.59	112.40
80	6	1204	A	C8-N9-C4	-5.58	103.57	105.80
85	5	370	U	OP1-P-OP2	5.58	127.97	119.60
85	5	624	G	C4-C5-N7	5.58	113.03	110.80
85	5	924	G	N9-C4-C5	5.58	107.63	105.40
85	5	1103	A	N3-C4-N9	5.58	131.86	127.40
1	2	617	U	N3-C2-O2	-5.58	118.30	122.20
1	2	1253	G	N7-C8-N9	-5.58	110.31	113.10
36	1	896	A	C5-C6-N6	-5.58	119.24	123.70
36	1	1136	A	O5'-P-OP1	-5.58	100.68	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1308	A	C5-C6-N1	-5.58	114.91	117.70
36	1	1321	G	N1-C6-O6	5.58	123.25	119.90
36	1	2136	C	C2-N3-C4	5.58	122.69	119.90
80	6	1558	U	N3-C4-O4	5.58	123.30	119.40
85	5	268	A	C4-C5-N7	-5.58	107.91	110.70
85	5	359	U	OP1-P-OP2	-5.58	111.24	119.60
85	5	606	C	C4-C5-C6	5.58	120.19	117.40
85	5	1481	A	OP2-P-O3'	5.58	117.47	105.20
85	5	1486	G	C4-C5-N7	-5.58	108.57	110.80
85	5	2533	G	N3-C4-C5	5.58	131.39	128.60
85	5	3016	A	OP1-P-OP2	-5.58	111.24	119.60
85	5	3342	A	N3-C4-C5	-5.58	122.90	126.80
37	7	51	A	C5-C6-N1	-5.58	114.91	117.70
38	8	121	U	N1-C2-N3	5.58	118.25	114.90
1	2	1148	G	N3-C2-N2	5.57	123.80	119.90
36	1	591	G	C2-N3-C4	-5.57	109.11	111.90
36	1	1089	G	C4-C5-N7	-5.57	108.57	110.80
36	1	1449	A	C8-N9-C4	-5.57	103.57	105.80
36	1	2273	G	C5-C6-N1	-5.57	108.71	111.50
36	1	2288	G	C6-C5-N7	-5.57	127.06	130.40
36	1	2555	G	N3-C4-C5	5.57	131.39	128.60
36	1	2698	G	C6-N1-C2	-5.57	121.76	125.10
36	1	2829	U	OP1-P-O3'	-5.57	92.94	105.20
38	4	146	U	C4-C5-C6	5.57	123.04	119.70
80	6	620	A	N1-C6-N6	5.57	121.94	118.60
80	6	1634	C	C2-N1-C1'	5.57	124.93	118.80
85	5	89	A	OP1-P-OP2	-5.57	111.24	119.60
85	5	194	U	N1-C2-O2	5.57	126.70	122.80
85	5	418	A	C2-N3-C4	-5.57	107.81	110.60
85	5	555	U	O5'-P-OP2	5.57	117.39	110.70
85	5	900	G	C5-C6-O6	5.57	131.94	128.60
85	5	949	C	OP1-P-OP2	5.57	127.96	119.60
85	5	1101	G	O5'-P-OP1	5.57	117.39	110.70
85	5	1204	A	OP1-P-OP2	-5.57	111.24	119.60
85	5	1622	U	O5'-P-OP1	5.57	117.39	110.70
85	5	1752	A	C5-C6-N6	-5.57	119.24	123.70
85	5	2131	A	N9-C1'-C2'	-5.57	105.87	112.00
85	5	2161	G	C6-N1-C2	-5.57	121.76	125.10
85	5	2896	A	N3-C4-C5	5.57	130.70	126.80
85	5	3185	U	C5-C6-N1	-5.57	119.91	122.70
37	7	72	A	OP2-P-O3'	5.57	117.46	105.20
1	2	165	G	C2-N3-C4	-5.57	109.11	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	577	G	C5-N7-C8	-5.57	101.51	104.30
36	1	865	U	N1-C2-O2	-5.57	118.90	122.80
36	1	2302	G	N1-C2-N3	5.57	127.24	123.90
36	1	2836	C	N1-C2-N3	5.57	123.10	119.20
37	3	110	G	N3-C4-C5	-5.57	125.81	128.60
38	4	148	G	C2-N3-C4	-5.57	109.11	111.90
80	6	482	U	N3-C2-O2	5.57	126.10	122.20
85	5	829	U	OP1-P-O3'	5.57	117.46	105.20
85	5	3191	G	C8-N9-C4	5.57	108.63	106.40
85	5	3266	G	C5-C6-O6	5.57	131.94	128.60
85	5	3305	A	C6-N1-C2	5.57	121.94	118.60
1	2	217	A	N1-C2-N3	-5.57	126.52	129.30
1	2	325	G	C6-C5-N7	-5.57	127.06	130.40
1	2	330	G	N3-C2-N2	-5.57	116.00	119.90
1	2	975	A	C4-C5-N7	5.57	113.48	110.70
36	1	212	G	OP1-P-OP2	-5.57	111.25	119.60
36	1	325	A	C8-N9-C4	-5.57	103.57	105.80
36	1	384	A	C5-C6-N1	5.57	120.48	117.70
36	1	398	A	N7-C8-N9	-5.57	111.02	113.80
36	1	629	U	C5-C6-N1	5.57	125.48	122.70
36	1	1351	U	C5-C4-O4	-5.57	122.56	125.90
36	1	1368	U	N1-C2-O2	-5.57	118.90	122.80
36	1	2866	U	OP1-P-O3'	5.57	117.45	105.20
36	1	2973	G	OP1-P-O3'	5.57	117.45	105.20
80	6	102	U	C6-N1-C2	5.57	124.34	121.00
80	6	153	G	C8-N9-C4	5.57	108.63	106.40
80	6	241	U	O5'-P-OP1	-5.57	100.69	105.70
80	6	631	G	N1-C6-O6	5.57	123.24	119.90
85	5	153	U	C4-C5-C6	5.57	123.04	119.70
85	5	413	U	O5'-P-OP2	-5.57	100.69	105.70
85	5	676	G	N9-C4-C5	5.57	107.63	105.40
85	5	1387	G	C5-N7-C8	-5.57	101.52	104.30
85	5	1588	A	N7-C8-N9	-5.57	111.02	113.80
85	5	1744	G	C5-N7-C8	-5.57	101.52	104.30
85	5	2588	U	N3-C4-C5	-5.57	111.26	114.60
85	5	3019	U	OP1-P-O3'	-5.57	92.95	105.20
85	5	3253	G	N1-C6-O6	-5.57	116.56	119.90
38	8	78	G	N3-C2-N2	5.57	123.80	119.90
38	8	98	U	N3-C4-O4	5.57	123.30	119.40
1	2	24	U	N3-C2-O2	-5.57	118.30	122.20
1	2	349	U	C6-N1-C2	5.57	124.34	121.00
1	2	1131	C	N3-C2-O2	-5.57	118.00	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	728	G	N1-C2-N2	5.57	121.21	116.20
36	1	1215	U	N3-C4-C5	-5.57	111.26	114.60
36	1	1461	A	C2-N3-C4	-5.57	107.81	110.60
36	1	2314	U	OP1-P-O3'	5.57	117.45	105.20
85	5	1222	G	N9-C4-C5	-5.57	103.17	105.40
85	5	1225	A	N7-C8-N9	5.57	116.58	113.80
85	5	1545	A	N7-C8-N9	5.57	116.58	113.80
85	5	1697	A	N1-C6-N6	5.57	121.94	118.60
85	5	1803	C	OP2-P-O3'	5.57	117.45	105.20
1	2	495	C	N3-C2-O2	5.57	125.80	121.90
1	2	755	G	C2-N3-C4	-5.57	109.12	111.90
36	1	40	A	C4-C5-N7	-5.57	107.92	110.70
36	1	2164	A	C6-N1-C2	-5.57	115.26	118.60
36	1	2394	G	O5'-P-OP2	5.57	117.38	110.70
36	1	2814	G	N1-C2-N3	5.57	127.24	123.90
36	1	2897	A	C2-N3-C4	-5.57	107.82	110.60
36	1	2978	U	O4'-C1'-N1	5.57	112.65	108.20
36	1	3080	G	C4-C5-C6	-5.57	115.46	118.80
36	1	3141	A	O5'-P-OP2	5.57	117.38	110.70
36	1	3259	U	N1-C2-N3	5.57	118.24	114.90
80	6	398	G	C4-C5-N7	-5.57	108.57	110.80
80	6	875	G	C5-C6-O6	5.57	131.94	128.60
80	6	1125	A	N1-C2-N3	5.57	132.08	129.30
80	6	1472	C	N1-C2-N3	5.57	123.10	119.20
80	6	1567	U	C5-C4-O4	-5.57	122.56	125.90
80	6	1572	G	C5-C6-N1	-5.57	108.72	111.50
85	5	331	G	N1-C2-N2	-5.57	111.19	116.20
85	5	871	U	N1-C2-N3	5.57	118.24	114.90
85	5	1124	U	N3-C4-O4	5.57	123.30	119.40
85	5	1623	G	N1-C6-O6	-5.57	116.56	119.90
85	5	1671	C	OP1-P-OP2	-5.57	111.25	119.60
85	5	2186	U	C5-C4-O4	5.57	129.24	125.90
85	5	2802	A	OP2-P-O3'	5.57	117.45	105.20
85	5	2888	U	C6-N1-C2	-5.57	117.66	121.00
85	5	2914	G	C2-N3-C4	5.57	114.68	111.90
85	5	3133	C	OP1-P-O3'	5.57	117.45	105.20
85	5	3276	G	C6-C5-N7	5.57	133.74	130.40
85	5	3343	G	C6-C5-N7	-5.57	127.06	130.40
1	2	140	A	O5'-P-OP2	5.57	117.38	110.70
1	2	706	G	C8-N9-C4	-5.57	104.17	106.40
1	2	806	G	N1-C6-O6	-5.57	116.56	119.90
1	2	922	A	C8-N9-C4	-5.57	103.57	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1012	U	OP1-P-OP2	5.57	127.95	119.60
1	2	1101	G	N1-C6-O6	5.57	123.24	119.90
36	1	37	U	C6-N1-C2	-5.57	117.66	121.00
36	1	267	G	N3-C4-N9	-5.57	122.66	126.00
36	1	679	U	OP1-P-OP2	-5.57	111.25	119.60
36	1	1180	A	C6-N1-C2	-5.57	115.26	118.60
36	1	1190	A	C5-N7-C8	-5.57	101.12	103.90
36	1	1501	U	OP1-P-O3'	5.57	117.44	105.20
36	1	1557	A	N3-C4-C5	5.57	130.70	126.80
36	1	1748	G	C6-N1-C2	-5.57	121.76	125.10
36	1	2280	A	OP1-P-OP2	5.57	127.95	119.60
36	1	2605	G	N1-C2-N3	5.57	127.24	123.90
36	1	2706	G	C8-N9-C4	-5.57	104.17	106.40
36	1	2775	U	N1-C2-O2	-5.57	118.90	122.80
36	1	2951	G	O5'-P-OP2	5.57	117.38	110.70
36	1	3007	U	C2-N3-C4	-5.57	123.66	127.00
36	1	3242	G	N3-C4-N9	5.57	129.34	126.00
36	1	3278	C	C5-C4-N4	5.57	124.10	120.20
36	1	3295	A	N1-C2-N3	5.57	132.08	129.30
37	3	91	G	C2-N3-C4	5.57	114.68	111.90
38	4	48	A	C8-N9-C4	-5.57	103.57	105.80
38	4	124	G	N1-C2-N3	5.57	127.24	123.90
47	M0	82	ARG	NE-CZ-NH1	5.57	123.08	120.30
80	6	265	A	C4-C5-C6	5.57	119.78	117.00
80	6	284	G	C5-C6-O6	5.57	131.94	128.60
80	6	619	A	C5-C6-N6	5.57	128.15	123.70
80	6	793	A	N7-C8-N9	-5.57	111.02	113.80
80	6	864	U	C6-N1-C2	-5.57	117.66	121.00
80	6	1000	C	OP1-P-OP2	5.57	127.95	119.60
85	5	972	A	N1-C6-N6	5.57	121.94	118.60
85	5	1644	C	N3-C4-C5	-5.57	119.67	121.90
85	5	1937	U	OP1-P-O3'	5.57	117.44	105.20
85	5	2156	C	N1-C2-O2	-5.57	115.56	118.90
85	5	2649	A	C5-C6-N1	5.57	120.48	117.70
85	5	2937	G	N3-C4-N9	-5.57	122.66	126.00
85	5	3219	G	N7-C8-N9	5.57	115.88	113.10
1	2	48	G	OP2-P-O3'	5.56	117.44	105.20
1	2	169	A	N1-C2-N3	-5.56	126.52	129.30
1	2	1161	G	OP2-P-O3'	5.56	117.44	105.20
1	2	1502	U	N3-C2-O2	5.56	126.09	122.20
1	2	1665	U	C2-N3-C4	-5.56	123.66	127.00
36	1	179	C	C2-N3-C4	-5.56	117.12	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1096	U	C2-N3-C4	5.56	130.34	127.00
36	1	1139	G	N3-C4-C5	5.56	131.38	128.60
36	1	1207	G	C5-N7-C8	-5.56	101.52	104.30
36	1	1327	C	N3-C4-N4	-5.56	114.11	118.00
36	1	2586	G	N1-C2-N3	-5.56	120.56	123.90
36	1	3223	A	N1-C2-N3	5.56	132.08	129.30
37	3	103	A	N7-C8-N9	-5.56	111.02	113.80
85	5	441	U	C4-C5-C6	5.56	123.04	119.70
85	5	2560	C	C4-C5-C6	-5.56	114.62	117.40
85	5	2725	U	OP1-P-O3'	5.56	117.44	105.20
85	5	2858	U	C2-N1-C1'	5.56	124.38	117.70
1	2	246	G	O5'-P-OP1	5.56	117.38	110.70
1	2	901	U	O4'-C1'-N1	5.56	112.65	108.20
1	2	922	A	N7-C8-N9	5.56	116.58	113.80
36	1	32	U	N1-C2-O2	-5.56	118.91	122.80
36	1	1023	C	OP1-P-OP2	-5.56	111.26	119.60
36	1	1304	A	OP2-P-O3'	5.56	117.44	105.20
36	1	1515	A	C6-C5-N7	-5.56	128.41	132.30
36	1	1814	A	C6-N1-C2	5.56	121.94	118.60
36	1	2187	G	N3-C4-C5	5.56	131.38	128.60
36	1	2973	G	N1-C2-N3	5.56	127.24	123.90
36	1	3253	G	N3-C2-N2	5.56	123.79	119.90
80	6	453	U	C2-N3-C4	5.56	130.34	127.00
80	6	754	A	C5-C6-N6	-5.56	119.25	123.70
80	6	1139	A	C4-C5-N7	-5.56	107.92	110.70
80	6	1424	A	C6-N1-C2	5.56	121.94	118.60
80	6	1754	A	O5'-P-OP2	5.56	117.38	110.70
85	5	996	A	N1-C2-N3	5.56	132.08	129.30
85	5	1409	G	C5-C6-O6	-5.56	125.26	128.60
85	5	2758	A	C5-N7-C8	-5.56	101.12	103.90
85	5	3273	A	C5-C6-N1	5.56	120.48	117.70
85	5	3341	U	C4-C5-C6	5.56	123.04	119.70
37	7	106	U	N1-C2-O2	-5.56	118.91	122.80
1	2	1773	A	C5-C6-N6	5.56	128.15	123.70
80	6	560	U	OP1-P-O3'	-5.56	92.97	105.20
85	5	575	G	C5-C6-N1	-5.56	108.72	111.50
85	5	973	A	OP1-P-O3'	-5.56	92.97	105.20
85	5	1775	G	C2-N3-C4	5.56	114.68	111.90
85	5	2288	G	N3-C4-C5	-5.56	125.82	128.60
85	5	2323	G	C5-N7-C8	-5.56	101.52	104.30
85	5	2371	G	P-O3'-C3'	-5.56	113.03	119.70
1	2	786	A	C6-N1-C2	-5.56	115.26	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1481	G	C2-N3-C4	5.56	114.68	111.90
36	1	224	C	C6-N1-C1'	5.56	127.47	120.80
36	1	439	C	C4-C5-C6	-5.56	114.62	117.40
36	1	752	C	C2-N1-C1'	-5.56	112.68	118.80
36	1	817	A	O5'-P-OP2	-5.56	100.70	105.70
36	1	1661	G	N1-C6-O6	5.56	123.23	119.90
36	1	1716	U	OP1-P-O3'	5.56	117.43	105.20
36	1	2387	A	C5-N7-C8	-5.56	101.12	103.90
36	1	2403	G	O5'-P-OP2	5.56	117.37	110.70
36	1	2719	U	OP1-P-OP2	5.56	127.94	119.60
80	6	1121	C	C4-C5-C6	5.56	120.18	117.40
80	6	1214	U	C6-N1-C2	-5.56	117.67	121.00
80	6	1644	C	C2-N3-C4	-5.56	117.12	119.90
80	6	1651	A	C2-N3-C4	-5.56	107.82	110.60
85	5	24	G	C5-C6-O6	5.56	131.94	128.60
85	5	204	A	C2-N3-C4	5.56	113.38	110.60
85	5	595	G	N7-C8-N9	5.56	115.88	113.10
85	5	795	G	C4-C5-N7	5.56	113.02	110.80
85	5	861	C	N3-C4-N4	5.56	121.89	118.00
85	5	921	A	N1-C2-N3	5.56	132.08	129.30
85	5	1143	A	OP1-P-OP2	5.56	127.94	119.60
85	5	1345	G	N1-C2-N2	-5.56	111.20	116.20
85	5	3060	C	OP2-P-O3'	5.56	117.43	105.20
54	m8	57	ILE	CG1-CB-CG2	-5.56	99.17	111.40
1	2	802	G	C8-N9-C4	5.56	108.62	106.40
1	2	956	A	C6-C5-N7	-5.56	128.41	132.30
1	2	996	A	N1-C2-N3	-5.56	126.52	129.30
1	2	1668	G	C4-C5-N7	-5.56	108.58	110.80
36	1	9	U	N1-C2-O2	-5.56	118.91	122.80
36	1	282	G	C4-C5-N7	-5.56	108.58	110.80
36	1	1077	U	C6-N1-C2	5.56	124.33	121.00
36	1	1481	A	O4'-C1'-N9	5.56	112.65	108.20
36	1	1887	A	C5-N7-C8	5.56	106.68	103.90
36	1	2285	C	N1-C2-O2	5.56	122.23	118.90
36	1	2556	C	C5-C4-N4	5.56	124.09	120.20
36	1	2691	A	C5-N7-C8	5.56	106.68	103.90
36	1	2726	C	O4'-C1'-N1	5.56	112.64	108.20
36	1	3000	A	N9-C4-C5	-5.56	103.58	105.80
36	1	3170	A	C4-C5-C6	5.56	119.78	117.00
36	1	3209	A	O5'-P-OP1	-5.56	100.70	105.70
37	3	19	C	O5'-P-OP1	5.56	117.37	110.70
64	N8	69	TRP	C-N-CA	-5.56	107.81	121.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	188	A	C6-N1-C2	5.56	121.93	118.60
85	5	57	A	OP1-P-OP2	-5.56	111.26	119.60
85	5	965	A	C6-N1-C2	-5.56	115.27	118.60
85	5	1011	A	C4-C5-C6	5.56	119.78	117.00
85	5	1114	U	N1-C2-O2	-5.56	118.91	122.80
85	5	1674	G	N7-C8-N9	5.56	115.88	113.10
85	5	1747	G	N9-C4-C5	5.56	107.62	105.40
85	5	2226	U	N3-C2-O2	-5.56	118.31	122.20
85	5	2640	A	C5-C6-N1	5.56	120.48	117.70
85	5	2917	G	C5-C6-N1	5.56	114.28	111.50
85	5	3154	C	C5-C6-N1	5.56	123.78	121.00
85	5	3210	A	C4-C5-C6	-5.56	114.22	117.00
85	5	3327	G	C6-C5-N7	-5.56	127.06	130.40
38	8	113	U	C5-C6-N1	5.56	125.48	122.70
38	8	157	U	N3-C2-O2	-5.56	118.31	122.20
51	m5	83	LYS	CD-CE-NZ	5.56	124.48	111.70
1	2	1807	C	N3-C2-O2	-5.56	118.01	121.90
36	1	142	C	OP2-P-O3'	5.56	117.42	105.20
36	1	632	G	N3-C4-C5	5.56	131.38	128.60
36	1	843	A	N9-C4-C5	-5.56	103.58	105.80
36	1	2506	U	C5-C6-N1	5.56	125.48	122.70
51	M5	114	ARG	NE-CZ-NH1	-5.56	117.52	120.30
80	6	465	G	OP2-P-O3'	5.56	117.42	105.20
80	6	628	G	C5-C6-O6	5.56	131.93	128.60
80	6	1597	A	C5-C6-N6	5.56	128.15	123.70
85	5	388	G	N1-C6-O6	5.56	123.23	119.90
85	5	1599	G	OP1-P-OP2	-5.56	111.27	119.60
85	5	1845	G	N1-C2-N2	-5.56	111.20	116.20
1	2	297	U	C2-N3-C4	-5.55	123.67	127.00
1	2	821	G	C6-N1-C2	5.55	128.43	125.10
1	2	1076	A	C5-N7-C8	-5.55	101.12	103.90
1	2	1271	G	OP1-P-OP2	-5.55	111.27	119.60
36	1	427	C	N3-C4-N4	5.55	121.89	118.00
36	1	546	C	N1-C2-O2	5.55	122.23	118.90
36	1	1207	G	OP2-P-O3'	5.55	117.42	105.20
36	1	1936	A	N1-C2-N3	5.55	132.08	129.30
36	1	2801	A	OP1-P-O3'	5.55	117.42	105.20
36	1	3333	G	O5'-P-OP2	-5.55	100.70	105.70
37	3	10	C	C5-C4-N4	-5.55	116.31	120.20
80	6	127	G	N3-C4-N9	-5.55	122.67	126.00
80	6	195	G	C2-N3-C4	5.55	114.68	111.90
80	6	271	A	C5-C6-N1	5.55	120.48	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	457	G	N3-C2-N2	5.55	123.79	119.90
80	6	521	A	C5-N7-C8	5.55	106.68	103.90
85	5	138	U	N3-C2-O2	5.55	126.09	122.20
85	5	903	U	C5-C6-N1	-5.55	119.92	122.70
85	5	1085	A	O4'-C1'-N9	-5.55	103.76	108.20
85	5	1471	U	N1-C2-N3	5.55	118.23	114.90
85	5	2133	U	C2-N1-C1'	-5.55	111.03	117.70
85	5	2301	U	N3-C4-O4	5.55	123.29	119.40
85	5	3021	A	C5-C6-N1	-5.55	114.92	117.70
37	7	109	G	OP2-P-O3'	5.55	117.42	105.20
38	8	99	C	OP1-P-OP2	5.55	127.93	119.60
53	m7	56	ARG	NE-CZ-NH2	5.55	123.08	120.30
1	2	1137	G	C2-N3-C4	-5.55	109.12	111.90
36	1	41	G	C5-N7-C8	-5.55	101.52	104.30
36	1	386	A	C4-C5-N7	5.55	113.48	110.70
37	3	15	C	N3-C2-O2	5.55	125.79	121.90
80	6	109	G	N1-C2-N2	-5.55	111.20	116.20
80	6	1747	G	N7-C8-N9	-5.55	110.32	113.10
85	5	518	G	C2-N3-C4	-5.55	109.12	111.90
85	5	2221	G	C5-C6-O6	-5.55	125.27	128.60
85	5	3206	C	N3-C4-N4	-5.55	114.11	118.00
1	2	298	C	C2-N3-C4	-5.55	117.12	119.90
36	1	343	U	OP1-P-OP2	5.55	127.93	119.60
36	1	864	G	C8-N9-C4	5.55	108.62	106.40
36	1	1471	U	C5-C4-O4	-5.55	122.57	125.90
36	1	1838	G	OP1-P-O3'	5.55	117.41	105.20
36	1	2875	U	OP2-P-O3'	5.55	117.41	105.20
37	3	50	U	N3-C4-O4	5.55	123.29	119.40
37	3	78	U	C4-C5-C6	-5.55	116.37	119.70
80	6	1335	U	N1-C2-N3	5.55	118.23	114.90
80	6	1442	U	C5-C4-O4	5.55	129.23	125.90
80	6	1489	U	C5-C4-O4	-5.55	122.57	125.90
26	d4	121	THR	C-N-CA	-5.55	110.64	122.30
85	5	73	C	OP1-P-OP2	5.55	127.93	119.60
85	5	203	G	C6-N1-C2	-5.55	121.77	125.10
85	5	784	A	C5-C6-N6	5.55	128.14	123.70
85	5	1239	C	N1-C2-N3	-5.55	115.31	119.20
85	5	1376	C	C2-N3-C4	5.55	122.68	119.90
85	5	2298	U	N3-C2-O2	-5.55	118.31	122.20
85	5	2660	G	C8-N9-C4	5.55	108.62	106.40
85	5	2681	U	C4-C5-C6	5.55	123.03	119.70
85	5	2862	U	O5'-P-OP1	-5.55	100.70	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3281	U	OP1-P-OP2	5.55	127.93	119.60
85	5	3363	U	C2-N3-C4	-5.55	123.67	127.00
64	n8	46	ASP	OD1-CG-OD2	-5.55	112.75	123.30
1	2	1113	G	C2-N3-C4	-5.55	109.12	111.90
1	2	1265	U	N3-C4-C5	5.55	117.93	114.60
1	2	1665	U	C6-N1-C2	5.55	124.33	121.00
1	2	1720	G	N7-C8-N9	5.55	115.88	113.10
36	1	518	G	N3-C4-C5	5.55	131.38	128.60
36	1	850	U	O5'-P-OP2	5.55	117.36	110.70
36	1	955	U	C5-C6-N1	-5.55	119.93	122.70
36	1	2278	C	OP1-P-OP2	5.55	127.92	119.60
36	1	2707	C	C2-N3-C4	-5.55	117.12	119.90
36	1	2949	U	O5'-P-OP2	-5.55	100.70	105.70
36	1	3070	A	C6-N1-C2	-5.55	115.27	118.60
36	1	3275	U	N3-C4-C5	-5.55	111.27	114.60
73	O7	56	ARG	NE-CZ-NH1	-5.55	117.53	120.30
80	6	195	G	C5-C6-N1	5.55	114.28	111.50
80	6	571	G	N3-C2-N2	-5.55	116.02	119.90
80	6	684	A	N1-C2-N3	-5.55	126.53	129.30
80	6	986	G	C5-C6-O6	5.55	131.93	128.60
80	6	1029	U	N3-C2-O2	-5.55	118.31	122.20
80	6	1358	G	C5-N7-C8	5.55	107.08	104.30
80	6	1781	A	N1-C2-N3	5.55	132.07	129.30
85	5	283	G	C6-N1-C2	-5.55	121.77	125.10
85	5	355	A	C6-C5-N7	-5.55	128.42	132.30
85	5	590	G	C6-C5-N7	-5.55	127.07	130.40
85	5	721	G	N7-C8-N9	5.55	115.87	113.10
85	5	1014	U	C5-C4-O4	-5.55	122.57	125.90
85	5	1222	G	P-O3'-C3'	5.55	126.36	119.70
85	5	2100	A	C6-N1-C2	5.55	121.93	118.60
85	5	2436	U	N3-C2-O2	5.55	126.08	122.20
85	5	2818	U	N3-C4-O4	5.55	123.28	119.40
85	5	2892	A	C2-N3-C4	-5.55	107.83	110.60
37	7	51	A	C5-N7-C8	-5.55	101.13	103.90
36	1	693	A	C8-N9-C4	-5.55	103.58	105.80
36	1	1144	U	C5-C4-O4	-5.55	122.57	125.90
36	1	1201	C	C4-C5-C6	-5.55	114.63	117.40
36	1	1472	U	C2-N3-C4	-5.55	123.67	127.00
36	1	2979	U	OP2-P-O3'	5.55	117.41	105.20
80	6	350	U	N1-C2-O2	-5.55	118.92	122.80
80	6	1097	U	C5-C6-N1	5.55	125.47	122.70
85	5	1011	A	C6-N1-C2	-5.55	115.27	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1191	U	C2-N1-C1'	-5.55	111.04	117.70
85	5	1883	A	C2-N3-C4	-5.55	107.83	110.60
85	5	3119	U	N3-C4-O4	5.55	123.28	119.40
85	5	3136	G	C5-N7-C8	-5.55	101.53	104.30
1	2	80	A	C8-N9-C4	-5.55	103.58	105.80
1	2	111	U	N1-C2-N3	5.55	118.23	114.90
1	2	453	U	OP2-P-O3'	5.55	117.40	105.20
1	2	1764	A	C4-C5-C6	5.55	119.77	117.00
36	1	229	G	C5-N7-C8	-5.55	101.53	104.30
36	1	328	U	C5-C4-O4	5.55	129.23	125.90
36	1	333	G	N3-C2-N2	-5.55	116.02	119.90
36	1	550	A	C5-C6-N1	-5.55	114.93	117.70
36	1	1110	U	N3-C2-O2	5.55	126.08	122.20
36	1	1454	A	O5'-P-OP1	-5.55	100.71	105.70
36	1	1629	U	N3-C2-O2	5.55	126.08	122.20
36	1	2108	C	N3-C2-O2	-5.55	118.02	121.90
36	1	2906	C	OP2-P-O3'	5.55	117.40	105.20
60	N4	23	ARG	NE-CZ-NH1	5.55	123.07	120.30
80	6	809	A	N1-C6-N6	5.55	121.93	118.60
85	5	185	C	C6-N1-C2	5.55	122.52	120.30
85	5	312	C	N3-C4-C5	-5.55	119.68	121.90
85	5	592	A	N3-C4-C5	5.55	130.68	126.80
85	5	638	C	N1-C2-N3	5.55	123.08	119.20
85	5	849	C	C5-C6-N1	-5.55	118.23	121.00
85	5	1313	G	N1-C2-N2	5.55	121.19	116.20
85	5	1407	A	N9-C4-C5	-5.55	103.58	105.80
85	5	2134	G	N7-C8-N9	-5.55	110.33	113.10
85	5	2531	C	C2-N1-C1'	5.55	124.90	118.80
85	5	2688	U	C6-N1-C2	5.55	124.33	121.00
85	5	2785	A	C8-N9-C4	5.55	108.02	105.80
85	5	2936	A	N3-C4-C5	-5.55	122.92	126.80
85	5	2966	G	C6-N1-C2	5.55	128.43	125.10
85	5	3278	C	N3-C4-N4	5.55	121.88	118.00
85	5	3295	A	N9-C4-C5	-5.55	103.58	105.80
37	7	100	C	OP1-P-O3'	-5.55	93.00	105.20
1	2	1483	C	OP1-P-O3'	5.54	117.40	105.20
36	1	548	G	C5-N7-C8	-5.54	101.53	104.30
36	1	791	A	C5-C6-N1	5.54	120.47	117.70
36	1	1940	G	C8-N9-C4	5.54	108.62	106.40
36	1	3214	U	C4-C5-C6	5.54	123.03	119.70
80	6	1735	U	C4-C5-C6	5.54	123.03	119.70
85	5	3234	A	C6-C5-N7	5.54	136.18	132.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	440	U	C2-N3-C4	-5.54	123.67	127.00
1	2	848	A	N1-C6-N6	5.54	121.93	118.60
1	2	1010	A	C5-C6-N1	-5.54	114.93	117.70
36	1	25	U	OP1-P-O3'	5.54	117.39	105.20
36	1	44	U	N3-C4-C5	5.54	117.93	114.60
36	1	1137	C	C6-N1-C1'	-5.54	114.15	120.80
36	1	1189	C	C6-N1-C2	5.54	122.52	120.30
36	1	1226	G	N3-C4-N9	-5.54	122.67	126.00
36	1	1282	G	C8-N9-C4	-5.54	104.18	106.40
36	1	1552	G	N3-C4-C5	-5.54	125.83	128.60
36	1	1755	C	C5-C4-N4	-5.54	116.32	120.20
36	1	2823	G	C5-C6-O6	5.54	131.93	128.60
36	1	2878	G	C6-C5-N7	-5.54	127.07	130.40
36	1	3163	A	N7-C8-N9	-5.54	111.03	113.80
38	4	118	C	OP1-P-OP2	-5.54	111.29	119.60
80	6	170	U	C5-C6-N1	-5.54	119.93	122.70
80	6	223	U	C5-C6-N1	5.54	125.47	122.70
80	6	371	G	C4-N9-C1'	5.54	133.71	126.50
80	6	426	G	N3-C4-C5	-5.54	125.83	128.60
80	6	776	G	C2-N3-C4	-5.54	109.13	111.90
80	6	1519	U	N3-C4-C5	5.54	117.93	114.60
80	6	1718	G	N1-C2-N3	5.54	127.23	123.90
85	5	185	C	OP1-P-O3'	5.54	117.40	105.20
85	5	616	G	C8-N9-C4	5.54	108.62	106.40
85	5	780	A	C5-C6-N6	5.54	128.14	123.70
85	5	825	U	N3-C4-O4	-5.54	115.52	119.40
85	5	858	A	O5'-P-OP1	5.54	117.35	110.70
85	5	1003	A	C5-C6-N1	-5.54	114.93	117.70
85	5	1035	G	C2-N3-C4	5.54	114.67	111.90
85	5	1329	U	N3-C2-O2	-5.54	118.32	122.20
85	5	1417	G	O5'-P-OP2	5.54	117.35	110.70
85	5	1942	U	N3-C4-O4	5.54	123.28	119.40
85	5	2572	C	C2-N1-C1'	5.54	124.90	118.80
85	5	2743	A	C8-N9-C4	5.54	108.02	105.80
37	7	27	A	C5-N7-C8	-5.54	101.13	103.90
37	7	89	G	C8-N9-C4	5.54	108.62	106.40
1	2	57	G	C5-C6-O6	-5.54	125.28	128.60
1	2	744	G	C5-N7-C8	5.54	107.07	104.30
1	2	1569	A	C8-N9-C4	5.54	108.02	105.80
36	1	217	U	C5-C6-N1	-5.54	119.93	122.70
36	1	264	G	C5-C6-N1	-5.54	108.73	111.50
36	1	547	G	N9-C4-C5	-5.54	103.18	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	727	G	C4-C5-C6	5.54	122.12	118.80
36	1	966	U	N3-C4-C5	-5.54	111.28	114.60
36	1	992	A	C6-N1-C2	-5.54	115.28	118.60
36	1	1027	A	N1-C6-N6	5.54	121.92	118.60
36	1	2151	C	N1-C2-N3	5.54	123.08	119.20
36	1	2216	G	C6-C5-N7	-5.54	127.08	130.40
36	1	2915	U	C5-C4-O4	-5.54	122.58	125.90
36	1	3103	A	N3-C4-N9	-5.54	122.97	127.40
38	4	124	G	C6-N1-C2	-5.54	121.78	125.10
80	6	41	A	C2-N3-C4	5.54	113.37	110.60
80	6	100	A	N1-C2-N3	5.54	132.07	129.30
80	6	315	A	N1-C2-N3	-5.54	126.53	129.30
80	6	615	A	C5-C6-N6	5.54	128.13	123.70
80	6	1400	A	N1-C2-N3	-5.54	126.53	129.30
85	5	409	A	C4-C5-C6	-5.54	114.23	117.00
85	5	540	U	C5-C6-N1	5.54	125.47	122.70
85	5	1340	G	C6-N1-C2	-5.54	121.78	125.10
85	5	1376	C	C2-N1-C1'	5.54	124.89	118.80
85	5	1384	U	N3-C4-O4	5.54	123.28	119.40
85	5	2276	G	C5-N7-C8	-5.54	101.53	104.30
85	5	2285	C	OP2-P-O3'	5.54	117.39	105.20
85	5	2306	C	C6-N1-C2	-5.54	118.08	120.30
85	5	2815	G	N7-C8-N9	5.54	115.87	113.10
85	5	2922	G	O4'-C1'-N9	-5.54	103.77	108.20
85	5	3315	G	C4-C5-C6	5.54	122.12	118.80
85	5	3379	C	O5'-P-OP1	-5.54	100.71	105.70
37	7	8	G	N1-C6-O6	-5.54	116.58	119.90
38	8	44	A	OP1-P-O3'	5.54	117.39	105.20
1	2	522	U	N3-C4-O4	-5.54	115.52	119.40
1	2	1637	G	N7-C8-N9	5.54	115.87	113.10
36	1	1506	A	N7-C8-N9	5.54	116.57	113.80
36	1	1702	U	N3-C4-C5	-5.54	111.28	114.60
80	6	1792	G	N9-C4-C5	5.54	107.62	105.40
85	5	1255	C	OP1-P-OP2	-5.54	111.29	119.60
85	5	1921	A	C8-N9-C4	5.54	108.02	105.80
1	2	320	U	C5-C4-O4	-5.54	122.58	125.90
1	2	350	U	OP1-P-OP2	-5.54	111.29	119.60
1	2	827	A	N9-C4-C5	-5.54	103.58	105.80
1	2	1501	C	N1-C2-O2	-5.54	115.58	118.90
1	2	1574	C	C4-C5-C6	5.54	120.17	117.40
1	2	1665	U	N3-C2-O2	-5.54	118.32	122.20
36	1	590	G	C5-C6-N1	5.54	114.27	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	868	C	C6-N1-C2	5.54	122.52	120.30
36	1	1101	G	OP2-P-O3'	5.54	117.39	105.20
36	1	1204	A	O5'-P-OP1	-5.54	100.72	105.70
36	1	1542	G	C8-N9-C4	-5.54	104.18	106.40
36	1	1877	U	C4-C5-C6	5.54	123.02	119.70
36	1	2144	A	N3-C4-C5	-5.54	122.92	126.80
36	1	2221	G	OP1-P-OP2	5.54	127.91	119.60
36	1	2793	G	N1-C2-N3	5.54	127.22	123.90
36	1	3069	G	N3-C4-C5	-5.54	125.83	128.60
36	1	3244	A	O5'-P-OP2	-5.54	100.72	105.70
36	1	3303	G	C6-N1-C2	5.54	128.42	125.10
36	1	3372	A	N1-C2-N3	5.54	132.07	129.30
38	4	91	C	N3-C2-O2	-5.54	118.02	121.90
72	O6	62	ARG	NE-CZ-NH2	-5.54	117.53	120.30
80	6	337	G	N3-C2-N2	5.54	123.78	119.90
80	6	794	U	C5-C6-N1	5.54	125.47	122.70
85	5	704	U	OP1-P-OP2	5.54	127.91	119.60
85	5	925	A	C4-C5-N7	5.54	113.47	110.70
85	5	1075	A	C5-N7-C8	5.54	106.67	103.90
85	5	1303	A	N9-C4-C5	-5.54	103.58	105.80
85	5	1687	U	N3-C4-O4	5.54	123.28	119.40
85	5	1882	G	N1-C2-N2	-5.54	111.22	116.20
85	5	2188	A	N3-C4-C5	5.54	130.68	126.80
85	5	2195	C	C4-C5-C6	5.54	120.17	117.40
85	5	2228	A	N3-C4-C5	-5.54	122.92	126.80
85	5	2413	A	C6-C5-N7	-5.54	128.42	132.30
85	5	2636	A	OP1-P-O3'	5.54	117.39	105.20
85	5	2927	C	O5'-P-OP1	5.54	117.35	110.70
85	5	3293	U	N1-C2-N3	-5.54	111.58	114.90
37	7	91	G	N1-C6-O6	-5.54	116.58	119.90
38	8	111	A	P-O3'-C3'	5.54	126.34	119.70
46	l9	31	ARG	NE-CZ-NH1	-5.54	117.53	120.30
55	m9	53	LYS	CD-CE-NZ	5.54	124.44	111.70
67	o1	28	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	2	1019	A	N9-C4-C5	5.54	108.02	105.80
1	2	1081	U	C6-N1-C2	-5.54	117.68	121.00
36	1	183	G	C6-N1-C2	-5.54	121.78	125.10
36	1	1077	U	N3-C4-O4	-5.54	115.52	119.40
36	1	2311	G	C4-C5-C6	-5.54	115.48	118.80
36	1	2843	U	N3-C4-O4	-5.54	115.52	119.40
36	1	3091	A	C5-C6-N6	5.54	128.13	123.70
38	4	94	C	N3-C4-N4	-5.54	114.12	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	139	C	C6-N1-C2	-5.54	118.08	120.30
80	6	412	A	N1-C6-N6	-5.54	115.28	118.60
85	5	15	C	O5'-P-OP1	5.54	117.34	110.70
85	5	652	G	OP1-P-O3'	5.54	117.38	105.20
85	5	2272	G	C8-N9-C4	-5.54	104.19	106.40
85	5	2796	G	N1-C6-O6	-5.54	116.58	119.90
1	2	4	C	C4-C5-C6	-5.54	114.63	117.40
1	2	136	C	N3-C4-C5	5.54	124.11	121.90
1	2	193	U	N3-C4-O4	-5.54	115.53	119.40
1	2	539	G	N9-C4-C5	-5.54	103.19	105.40
1	2	577	G	C5-C6-N1	-5.54	108.73	111.50
36	1	432	G	C4-C5-C6	5.54	122.12	118.80
36	1	500	C	C6-N1-C2	-5.54	118.09	120.30
36	1	547	G	N3-C2-N2	-5.54	116.03	119.90
36	1	1428	A	C6-C5-N7	-5.54	128.43	132.30
36	1	2118	C	N3-C2-O2	-5.54	118.03	121.90
36	1	3055	U	P-O3'-C3'	-5.54	113.06	119.70
36	1	3205	G	N1-C2-N2	-5.54	111.22	116.20
38	4	47	C	C2-N1-C1'	5.54	124.89	118.80
80	6	115	G	N1-C6-O6	-5.54	116.58	119.90
80	6	298	C	C4-C5-C6	-5.54	114.63	117.40
80	6	1539	G	N7-C8-N9	5.54	115.87	113.10
80	6	1576	A	O5'-P-OP2	-5.54	100.72	105.70
85	5	763	G	C6-C5-N7	-5.54	127.08	130.40
85	5	816	A	C5-C6-N6	5.54	128.13	123.70
85	5	1106	G	N7-C8-N9	5.54	115.87	113.10
85	5	1121	U	OP1-P-OP2	5.54	127.90	119.60
85	5	2642	A	C4-C5-N7	5.54	113.47	110.70
85	5	2691	A	N7-C8-N9	5.54	116.57	113.80
48	m1	12	LEU	CA-CB-CG	5.54	128.03	115.30
36	1	611	A	C5-C6-N6	5.53	128.13	123.70
36	1	1493	G	N3-C2-N2	-5.53	116.03	119.90
36	1	1818	U	OP1-P-OP2	5.53	127.90	119.60
36	1	2240	G	C5-C6-N1	5.53	114.27	111.50
36	1	2800	G	O5'-P-OP2	-5.53	100.72	105.70
38	4	1	A	N7-C8-N9	5.53	116.57	113.80
68	O2	47	ARG	NE-CZ-NH2	5.53	123.07	120.30
80	6	109	G	C5-C6-N1	-5.53	108.73	111.50
80	6	130	C	O5'-P-OP1	-5.53	100.72	105.70
80	6	326	G	O5'-P-OP2	-5.53	100.72	105.70
80	6	691	C	N3-C4-C5	5.53	124.11	121.90
80	6	935	U	N1-C2-O2	-5.53	118.93	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1056	U	O5'-P-OP2	-5.53	100.72	105.70
80	6	1226	A	C5-C6-N1	5.53	120.47	117.70
80	6	1513	G	C5-N7-C8	5.53	107.07	104.30
80	6	1576	A	N9-C4-C5	-5.53	103.59	105.80
85	5	354	U	N3-C4-C5	-5.53	111.28	114.60
85	5	491	C	C6-N1-C2	5.53	122.51	120.30
85	5	701	G	N3-C4-N9	5.53	129.32	126.00
85	5	755	A	OP1-P-OP2	5.53	127.90	119.60
85	5	925	A	C5-N7-C8	-5.53	101.13	103.90
85	5	934	G	O5'-P-OP2	-5.53	100.72	105.70
85	5	1699	A	OP1-P-OP2	-5.53	111.30	119.60
85	5	2847	A	C5-C6-N1	-5.53	114.93	117.70
37	7	78	U	N3-C4-C5	-5.53	111.28	114.60
37	7	110	G	N1-C6-O6	5.53	123.22	119.90
36	1	161	G	N3-C2-N2	5.53	123.77	119.90
36	1	175	C	N1-C2-O2	-5.53	115.58	118.90
36	1	647	A	OP1-P-O3'	5.53	117.37	105.20
36	1	2962	U	N1-C2-O2	-5.53	118.93	122.80
80	6	1112	G	C4-C5-N7	-5.53	108.59	110.80
80	6	1730	A	C5-N7-C8	-5.53	101.13	103.90
85	5	1135	A	C5-C6-N6	5.53	128.13	123.70
85	5	1671	C	N3-C4-C5	5.53	124.11	121.90
85	5	2429	G	OP2-P-O3'	5.53	117.37	105.20
85	5	2676	A	N7-C8-N9	5.53	116.57	113.80
85	5	2879	C	C5-C6-N1	5.53	123.77	121.00
85	5	3317	U	N1-C2-N3	5.53	118.22	114.90
1	2	116	U	N3-C2-O2	-5.53	118.33	122.20
1	2	278	U	N1-C2-O2	-5.53	118.93	122.80
1	2	328	A	N9-C4-C5	-5.53	103.59	105.80
1	2	392	G	N1-C2-N3	5.53	127.22	123.90
1	2	402	C	O5'-P-OP2	5.53	117.34	110.70
1	2	1731	G	C4-C5-N7	-5.53	108.59	110.80
36	1	604	G	C4-C5-C6	5.53	122.12	118.80
36	1	883	A	C5-N7-C8	-5.53	101.14	103.90
36	1	1157	G	O5'-P-OP1	5.53	117.34	110.70
36	1	1399	A	N7-C8-N9	5.53	116.57	113.80
36	1	1654	A	N3-C4-N9	5.53	131.82	127.40
36	1	2357	A	C2-N3-C4	5.53	113.36	110.60
36	1	2653	C	N3-C2-O2	-5.53	118.03	121.90
36	1	3168	A	N1-C2-N3	5.53	132.07	129.30
80	6	720	G	C2-N3-C4	5.53	114.67	111.90
80	6	1098	U	N1-C2-O2	5.53	126.67	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	5	G	C5-C6-O6	5.53	131.92	128.60
85	5	245	U	C4-C5-C6	5.53	123.02	119.70
85	5	335	G	C5-C6-N1	5.53	114.27	111.50
85	5	424	G	OP1-P-OP2	-5.53	111.30	119.60
85	5	758	C	C6-N1-C2	-5.53	118.09	120.30
85	5	798	G	OP1-P-OP2	-5.53	111.30	119.60
85	5	894	G	C2-N3-C4	-5.53	109.14	111.90
85	5	924	G	O5'-P-OP2	5.53	117.34	110.70
85	5	968	G	C5-C6-N1	5.53	114.27	111.50
85	5	993	G	N1-C2-N3	5.53	127.22	123.90
85	5	1307	G	C6-N1-C2	-5.53	121.78	125.10
85	5	1470	U	C2-N1-C1'	5.53	124.34	117.70
85	5	1519	G	O5'-P-OP1	5.53	117.34	110.70
85	5	2856	G	N9-C4-C5	5.53	107.61	105.40
85	5	3395	G	C5-C6-N1	-5.53	108.73	111.50
49	m3	36	ARG	NE-CZ-NH1	-5.53	117.53	120.30
1	2	749	U	C6-N1-C2	-5.53	117.68	121.00
1	2	965	U	N1-C2-N3	5.53	118.22	114.90
36	1	1849	C	N3-C4-C5	-5.53	119.69	121.90
36	1	1851	G	N3-C4-N9	-5.53	122.68	126.00
36	1	1886	A	C4-C5-N7	-5.53	107.94	110.70
36	1	1942	U	N1-C2-O2	-5.53	118.93	122.80
36	1	2292	U	O5'-P-OP1	-5.53	100.72	105.70
36	1	2569	A	C6-C5-N7	5.53	136.17	132.30
36	1	3110	C	OP1-P-O3'	-5.53	93.04	105.20
37	3	32	U	OP1-P-OP2	-5.53	111.31	119.60
80	6	53	G	C4-C5-C6	5.53	122.12	118.80
80	6	1765	A	O5'-P-OP2	-5.53	100.72	105.70
85	5	520	U	C6-N1-C2	5.53	124.32	121.00
85	5	1312	C	N3-C2-O2	5.53	125.77	121.90
1	2	287	G	O4'-C1'-N9	5.53	112.62	108.20
1	2	1171	G	C8-N9-C4	-5.53	104.19	106.40
1	2	1714	A	C6-C5-N7	-5.53	128.43	132.30
1	2	1736	A	N9-C4-C5	-5.53	103.59	105.80
36	1	992	A	C8-N9-C4	-5.53	103.59	105.80
36	1	1826	C	O5'-P-OP2	5.53	117.33	110.70
36	1	2509	U	N1-C2-O2	-5.53	118.93	122.80
36	1	2951	G	C6-N1-C2	-5.53	121.78	125.10
36	1	3045	G	N3-C4-C5	-5.53	125.84	128.60
36	1	3058	U	O5'-P-OP1	-5.53	100.72	105.70
36	1	3220	G	N7-C8-N9	5.53	115.86	113.10
36	1	3316	A	C5-N7-C8	-5.53	101.14	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	21	U	OP2-P-O3'	5.53	117.36	105.20
80	6	67	A	O5'-P-OP1	-5.53	100.73	105.70
80	6	408	C	N3-C4-N4	-5.53	114.13	118.00
80	6	795	U	C2-N1-C1'	5.53	124.33	117.70
80	6	1348	A	C4-C5-C6	-5.53	114.24	117.00
80	6	1683	C	C5-C4-N4	-5.53	116.33	120.20
85	5	198	A	C6-N1-C2	5.53	121.92	118.60
85	5	332	C	N3-C4-C5	-5.53	119.69	121.90
85	5	347	G	N1-C2-N2	-5.53	111.23	116.20
85	5	903	U	C5-C4-O4	5.53	129.22	125.90
85	5	969	C	OP1-P-O3'	5.53	117.36	105.20
85	5	984	G	N1-C2-N2	-5.53	111.22	116.20
85	5	1100	U	OP1-P-OP2	5.53	127.89	119.60
85	5	1178	G	C6-C5-N7	-5.53	127.08	130.40
85	5	1384	U	N3-C4-C5	-5.53	111.28	114.60
85	5	1757	A	C8-N9-C4	-5.53	103.59	105.80
85	5	2566	C	C6-N1-C2	-5.53	118.09	120.30
85	5	3234	A	C5-C6-N1	5.53	120.46	117.70
38	8	95	G	O5'-P-OP2	-5.53	100.72	105.70
47	m0	139	ARG	CG-CD-NE	5.53	123.41	111.80
62	n6	51	ARG	NE-CZ-NH1	-5.53	117.54	120.30
1	2	318	U	C6-N1-C2	5.53	124.31	121.00
1	2	395	U	N1-C2-O2	-5.53	118.93	122.80
1	2	1296	A	N1-C2-N3	-5.53	126.54	129.30
1	2	1489	G	OP1-P-O3'	5.53	117.36	105.20
1	2	1505	U	OP1-P-OP2	-5.53	111.31	119.60
36	1	1129	A	N1-C2-N3	5.53	132.06	129.30
36	1	1369	A	N7-C8-N9	-5.53	111.04	113.80
36	1	1560	G	N3-C4-C5	-5.53	125.84	128.60
36	1	2187	G	C5-N7-C8	-5.53	101.54	104.30
36	1	2764	C	N1-C2-O2	-5.53	115.58	118.90
80	6	81	G	N7-C8-N9	-5.53	110.34	113.10
10	s8	50	GLY	C-N-CA	-5.53	110.69	122.30
85	5	515	C	N1-C2-O2	-5.53	115.58	118.90
85	5	995	U	C2-N3-C4	-5.53	123.69	127.00
85	5	1087	G	N1-C6-O6	5.53	123.22	119.90
85	5	2191	U	N3-C4-O4	-5.53	115.53	119.40
85	5	2262	A	N1-C2-N3	-5.53	126.54	129.30
85	5	2905	U	O5'-P-OP2	-5.53	100.73	105.70
75	o9	51	ILE	CG1-CB-CG2	-5.53	99.25	111.40
78	q2	8	ARG	NE-CZ-NH2	-5.53	117.54	120.30
1	2	551	G	C8-N9-C4	-5.52	104.19	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1248	G	C5-C6-N1	-5.52	108.74	111.50
36	1	1743	G	C5-C6-O6	5.52	131.91	128.60
36	1	1867	A	O5'-P-OP1	-5.52	100.73	105.70
36	1	1903	U	C4-C5-C6	5.52	123.01	119.70
36	1	2815	G	N7-C8-N9	5.52	115.86	113.10
51	M5	71	ARG	NE-CZ-NH1	5.52	123.06	120.30
80	6	669	G	N3-C4-N9	5.52	129.31	126.00
80	6	709	C	N3-C4-C5	-5.52	119.69	121.90
85	5	25	U	O5'-P-OP2	-5.52	100.73	105.70
85	5	619	A	C5-C6-N6	-5.52	119.28	123.70
85	5	1301	A	N3-C4-N9	-5.52	122.98	127.40
85	5	1893	A	C6-N1-C2	-5.52	115.29	118.60
85	5	3315	G	N1-C2-N2	-5.52	111.23	116.20
1	2	67	A	C6-C5-N7	5.52	136.17	132.30
1	2	971	A	N1-C6-N6	5.52	121.91	118.60
36	1	414	U	N3-C4-C5	5.52	117.91	114.60
36	1	790	U	C5-C6-N1	-5.52	119.94	122.70
36	1	1066	G	C2-N3-C4	-5.52	109.14	111.90
36	1	1819	U	C6-N1-C2	-5.52	117.69	121.00
36	1	2762	A	C5-C6-N1	-5.52	114.94	117.70
36	1	3128	G	N9-C4-C5	5.52	107.61	105.40
80	6	264	G	C6-C5-N7	-5.52	127.09	130.40
85	5	298	U	N3-C2-O2	-5.52	118.33	122.20
85	5	362	U	N3-C4-O4	5.52	123.27	119.40
85	5	588	G	N3-C4-C5	-5.52	125.84	128.60
85	5	773	G	OP1-P-OP2	-5.52	111.31	119.60
85	5	902	G	C5-C6-N1	5.52	114.26	111.50
85	5	902	G	C6-N1-C2	-5.52	121.79	125.10
85	5	1041	U	OP2-P-O3'	5.52	117.35	105.20
85	5	1534	A	C8-N9-C4	-5.52	103.59	105.80
85	5	1889	G	N3-C4-N9	5.52	129.31	126.00
85	5	2799	A	N7-C8-N9	5.52	116.56	113.80
85	5	3037	U	C6-N1-C2	-5.52	117.69	121.00
85	5	3087	A	O4'-C1'-N9	-5.52	103.78	108.20
1	2	833	A	N1-C6-N6	5.52	121.91	118.60
1	2	1011	C	C5-C6-N1	5.52	123.76	121.00
36	1	1028	U	N1-C2-N3	-5.52	111.59	114.90
36	1	2502	A	N9-C4-C5	-5.52	103.59	105.80
36	1	2778	G	P-O3'-C3'	-5.52	113.08	119.70
36	1	2849	C	C6-N1-C2	-5.52	118.09	120.30
38	4	90	U	O4'-C1'-N1	-5.52	103.78	108.20
80	6	778	G	C4-C5-C6	-5.52	115.49	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1305	U	OP1-P-OP2	5.52	127.88	119.60
85	5	741	U	N3-C4-C5	-5.52	111.29	114.60
85	5	1000	C	C4-C5-C6	-5.52	114.64	117.40
85	5	1255	C	C5-C6-N1	5.52	123.76	121.00
85	5	2410	U	O5'-P-OP1	-5.52	100.73	105.70
37	7	92	A	N9-C4-C5	-5.52	103.59	105.80
1	2	319	U	N3-C4-C5	-5.52	111.29	114.60
1	2	406	U	C4-C5-C6	5.52	123.01	119.70
1	2	646	C	N3-C4-C5	-5.52	119.69	121.90
1	2	680	C	N3-C2-O2	-5.52	118.04	121.90
1	2	1456	U	C5-C6-N1	5.52	125.46	122.70
1	2	1585	C	C2-N3-C4	-5.52	117.14	119.90
1	2	1611	U	C2-N3-C4	5.52	130.31	127.00
1	2	1796	C	N3-C4-C5	-5.52	119.69	121.90
36	1	724	U	C5-C6-N1	-5.52	119.94	122.70
36	1	933	A	C2-N3-C4	-5.52	107.84	110.60
36	1	1463	U	C5-C6-N1	-5.52	119.94	122.70
36	1	2802	A	N1-C2-N3	5.52	132.06	129.30
36	1	2846	U	N3-C2-O2	-5.52	118.34	122.20
36	1	3108	G	O5'-P-OP2	-5.52	100.73	105.70
36	1	3177	G	C4-C5-C6	-5.52	115.49	118.80
36	1	3214	U	N1-C2-N3	5.52	118.21	114.90
80	6	433	C	C6-N1-C1'	-5.52	114.18	120.80
80	6	512	A	N9-C4-C5	5.52	108.01	105.80
80	6	624	G	C8-N9-C4	5.52	108.61	106.40
80	6	1078	C	C2-N3-C4	5.52	122.66	119.90
85	5	644	G	N1-C2-N2	-5.52	111.23	116.20
85	5	1150	A	N7-C8-N9	-5.52	111.04	113.80
85	5	1302	A	OP2-P-O3'	5.52	117.34	105.20
85	5	1482	A	N1-C6-N6	5.52	121.91	118.60
85	5	2145	A	OP1-P-OP2	-5.52	111.32	119.60
85	5	2951	G	C5-C6-N1	5.52	114.26	111.50
85	5	3231	U	N1-C2-N3	5.52	118.21	114.90
85	5	3277	U	C5-C4-O4	-5.52	122.59	125.90
39	12	32	LEU	CB-CG-CD1	-5.52	101.62	111.00
1	2	586	G	C6-C5-N7	5.52	133.71	130.40
1	2	627	C	N3-C2-O2	5.52	125.76	121.90
10	S8	18	ARG	NE-CZ-NH1	-5.52	117.54	120.30
36	1	502	U	OP1-P-O3'	5.52	117.34	105.20
36	1	699	A	C5-N7-C8	-5.52	101.14	103.90
36	1	968	G	N9-C4-C5	-5.52	103.19	105.40
36	1	1096	U	N3-C4-C5	-5.52	111.29	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1784	G	N3-C2-N2	-5.52	116.04	119.90
36	1	2292	U	N3-C4-O4	5.52	123.26	119.40
36	1	2433	U	C6-N1-C1'	-5.52	113.47	121.20
36	1	2860	U	OP2-P-O3'	5.52	117.34	105.20
36	1	3120	C	OP1-P-OP2	5.52	127.88	119.60
80	6	280	U	C2-N3-C4	-5.52	123.69	127.00
80	6	327	U	C2-N3-C4	5.52	130.31	127.00
80	6	589	C	OP1-P-OP2	-5.52	111.32	119.60
80	6	1289	U	N3-C4-C5	-5.52	111.29	114.60
80	6	1535	U	N1-C2-N3	5.52	118.21	114.90
85	5	108	A	OP2-P-O3'	5.52	117.34	105.20
85	5	325	A	C8-N9-C4	-5.52	103.59	105.80
85	5	387	A	C2-N3-C4	5.52	113.36	110.60
85	5	1185	C	C5-C6-N1	-5.52	118.24	121.00
85	5	1325	U	O5'-P-OP2	-5.52	100.73	105.70
85	5	1637	A	N9-C4-C5	5.52	108.01	105.80
85	5	1820	U	O4'-C1'-N1	5.52	112.61	108.20
85	5	1922	A	N1-C6-N6	5.52	121.91	118.60
85	5	2607	G	C4-C5-C6	5.52	122.11	118.80
85	5	2972	G	O5'-P-OP2	5.52	117.32	110.70
85	5	3367	C	P-O3'-C3'	-5.52	113.08	119.70
36	1	1667	A	N1-C2-N3	5.52	132.06	129.30
36	1	1770	G	C2-N3-C4	-5.52	109.14	111.90
80	6	273	G	N7-C8-N9	5.52	115.86	113.10
80	6	466	U	N3-C4-O4	-5.52	115.54	119.40
80	6	533	U	C5-C6-N1	-5.52	119.94	122.70
80	6	544	A	C4-C5-C6	-5.52	114.24	117.00
80	6	879	G	N7-C8-N9	-5.52	110.34	113.10
85	5	90	C	N3-C4-N4	5.52	121.86	118.00
85	5	436	A	C4-C5-C6	-5.52	114.24	117.00
85	5	2956	A	C5-N7-C8	-5.52	101.14	103.90
85	5	3056	U	O4'-C1'-N1	-5.52	103.79	108.20
1	2	1171	G	N1-C6-O6	5.51	123.21	119.90
36	1	67	A	O5'-P-OP2	5.51	117.32	110.70
36	1	100	A	OP2-P-O3'	5.51	117.33	105.20
36	1	127	G	OP1-P-OP2	5.51	127.87	119.60
36	1	273	A	C8-N9-C4	5.51	108.01	105.80
36	1	1320	C	O5'-P-OP2	-5.51	100.74	105.70
36	1	1379	G	C4-C5-C6	5.51	122.11	118.80
36	1	1447	G	N7-C8-N9	-5.51	110.34	113.10
36	1	2325	G	OP2-P-O3'	5.51	117.33	105.20
36	1	2610	G	N1-C6-O6	5.51	123.21	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2691	A	N1-C2-N3	5.51	132.06	129.30
36	1	2753	G	N3-C2-N2	5.51	123.76	119.90
36	1	2826	U	C2-N3-C4	5.51	130.31	127.00
36	1	3358	U	N3-C4-O4	-5.51	115.54	119.40
78	Q2	87	ARG	NE-CZ-NH2	5.51	123.06	120.30
80	6	1591	C	N3-C4-C5	-5.51	119.69	121.90
80	6	1696	G	P-O3'-C3'	5.51	126.32	119.70
85	5	131	C	N3-C4-N4	-5.51	114.14	118.00
85	5	443	G	C5-C6-N1	-5.51	108.74	111.50
85	5	1081	U	O4'-C1'-N1	5.51	112.61	108.20
85	5	1238	C	OP1-P-OP2	5.51	127.87	119.60
85	5	1411	C	OP2-P-O3'	5.51	117.33	105.20
85	5	1529	A	N3-C4-N9	-5.51	122.99	127.40
85	5	1660	C	OP2-P-O3'	-5.51	93.07	105.20
85	5	2356	A	C6-C5-N7	-5.51	128.44	132.30
85	5	2612	U	O4'-C1'-N1	-5.51	103.79	108.20
85	5	2866	U	C5-C6-N1	5.51	125.46	122.70
85	5	3336	A	N9-C4-C5	5.51	108.01	105.80
37	7	84	A	O5'-P-OP1	-5.51	100.74	105.70
38	8	3	A	OP1-P-O3'	5.51	117.33	105.20
1	2	431	C	C5-C4-N4	5.51	124.06	120.20
1	2	724	C	C6-N1-C2	-5.51	118.09	120.30
36	1	371	G	C6-N1-C2	-5.51	121.79	125.10
36	1	523	A	C4-C5-N7	-5.51	107.94	110.70
36	1	1379	G	C6-C5-N7	-5.51	127.09	130.40
36	1	2283	G	C2-N3-C4	-5.51	109.14	111.90
36	1	2432	A	C4-C5-C6	5.51	119.76	117.00
36	1	2586	G	C5-C6-N1	5.51	114.26	111.50
36	1	3146	G	C2-N3-C4	-5.51	109.14	111.90
38	4	45	C	O4'-C1'-N1	-5.51	103.79	108.20
80	6	495	C	C5-C6-N1	5.51	123.76	121.00
80	6	1342	C	C2-N3-C4	5.51	122.66	119.90
85	5	393	U	C2-N3-C4	5.51	130.31	127.00
85	5	764	U	N3-C4-O4	5.51	123.26	119.40
85	5	2294	U	O4'-C1'-N1	-5.51	103.79	108.20
85	5	2605	G	C6-C5-N7	-5.51	127.09	130.40
85	5	3242	G	OP1-P-OP2	5.51	127.87	119.60
1	2	187	G	C6-C5-N7	5.51	133.71	130.40
1	2	1343	A	C6-N1-C2	5.51	121.91	118.60
1	2	1442	C	C4-C5-C6	5.51	120.16	117.40
36	1	18	G	N3-C4-N9	-5.51	122.69	126.00
36	1	780	A	O4'-C1'-N9	-5.51	103.79	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	982	C	OP1-P-OP2	5.51	127.87	119.60
36	1	1114	U	N1-C2-O2	5.51	126.66	122.80
36	1	1136	A	OP1-P-OP2	5.51	127.87	119.60
36	1	2701	U	N3-C4-C5	-5.51	111.29	114.60
36	1	3004	C	C4-C5-C6	-5.51	114.64	117.40
36	1	3006	A	C5-C6-N1	-5.51	114.94	117.70
36	1	3021	A	C4-C5-N7	-5.51	107.94	110.70
36	1	3063	C	O5'-P-OP1	5.51	117.31	110.70
36	1	3349	C	O5'-P-OP2	-5.51	100.74	105.70
80	6	138	A	C2-N3-C4	5.51	113.36	110.60
80	6	436	A	C2-N3-C4	-5.51	107.84	110.60
80	6	536	C	N3-C4-N4	5.51	121.86	118.00
80	6	784	C	N3-C4-C5	-5.51	119.69	121.90
85	5	608	A	C5-C6-N6	-5.51	119.29	123.70
85	5	625	G	N1-C6-O6	-5.51	116.59	119.90
85	5	787	G	N1-C6-O6	5.51	123.21	119.90
85	5	1092	C	N1-C2-O2	-5.51	115.59	118.90
85	5	1153	A	N7-C8-N9	-5.51	111.05	113.80
85	5	1168	U	C4-C5-C6	5.51	123.01	119.70
85	5	1674	G	N9-C4-C5	5.51	107.60	105.40
85	5	1732	U	C4-C5-C6	-5.51	116.39	119.70
88	n4	39	LEU	CA-CB-CG	5.51	127.98	115.30
1	2	436	A	N3-C4-C5	-5.51	122.94	126.80
1	2	603	U	C4-C5-C6	5.51	123.00	119.70
1	2	1142	C	C5-C6-N1	-5.51	118.25	121.00
1	2	1280	G	C5-C6-N1	-5.51	108.75	111.50
1	2	1320	A	O5'-P-OP1	-5.51	100.74	105.70
1	2	1647	C	O5'-P-OP1	5.51	117.31	110.70
1	2	1760	G	N1-C6-O6	5.51	123.21	119.90
36	1	1187	C	C5-C6-N1	5.51	123.75	121.00
36	1	1289	G	N1-C2-N3	5.51	127.21	123.90
36	1	1296	C	N3-C2-O2	5.51	125.76	121.90
36	1	1421	G	OP2-P-O3'	5.51	117.32	105.20
36	1	1542	G	N7-C8-N9	5.51	115.85	113.10
36	1	1949	G	N1-C2-N2	5.51	121.16	116.20
36	1	2802	A	OP1-P-OP2	-5.51	111.34	119.60
36	1	2838	A	C6-N1-C2	-5.51	115.29	118.60
36	1	2887	A	C8-N9-C4	5.51	108.00	105.80
36	1	2913	C	C6-N1-C2	-5.51	118.10	120.30
36	1	3101	G	N3-C4-C5	-5.51	125.84	128.60
37	3	118	A	N7-C8-N9	-5.51	111.05	113.80
80	6	1	U	C2-N1-C1'	5.51	124.31	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	34	G	C2-N3-C4	-5.51	109.14	111.90
80	6	370	A	O5'-P-OP1	5.51	117.31	110.70
80	6	591	A	C6-N1-C2	-5.51	115.30	118.60
80	6	874	C	N3-C4-N4	5.51	121.86	118.00
85	5	158	G	C8-N9-C4	5.51	108.60	106.40
85	5	342	A	C5-N7-C8	-5.51	101.15	103.90
85	5	368	G	N9-C4-C5	5.51	107.60	105.40
85	5	599	C	N3-C4-N4	5.51	121.86	118.00
85	5	705	A	OP1-P-O3'	5.51	117.32	105.20
85	5	877	C	C4-C5-C6	-5.51	114.64	117.40
85	5	1119	C	N3-C4-C5	-5.51	119.70	121.90
85	5	1619	A	N1-C6-N6	5.51	121.91	118.60
85	5	1929	G	O4'-C1'-N9	-5.51	103.79	108.20
85	5	2121	G	OP2-P-O3'	5.51	117.32	105.20
85	5	2122	G	N3-C4-C5	5.51	131.35	128.60
85	5	2383	C	C6-N1-C2	-5.51	118.10	120.30
85	5	3029	A	N1-C2-N3	5.51	132.06	129.30
85	5	3374	U	C5-C4-O4	5.51	129.21	125.90
85	5	3391	A	O5'-P-OP1	-5.51	100.74	105.70
49	m3	27	ASP	CB-CG-OD2	5.51	123.26	118.30
52	m6	41	LEU	CB-CG-CD1	-5.51	101.63	111.00
65	n9	28	LYS	CD-CE-NZ	5.51	124.37	111.70
36	1	44	U	C6-N1-C2	5.51	124.31	121.00
36	1	2217	U	N1-C2-O2	-5.51	118.94	122.80
36	1	2781	U	N1-C2-O2	-5.51	118.94	122.80
36	1	2911	A	C5-N7-C8	-5.51	101.15	103.90
38	4	40	A	C6-C5-N7	-5.51	128.44	132.30
38	4	61	A	C6-C5-N7	-5.51	128.44	132.30
80	6	14	C	OP2-P-O3'	5.51	117.32	105.20
85	5	219	A	C4-C5-C6	5.51	119.75	117.00
85	5	655	C	OP1-P-O3'	5.51	117.32	105.20
85	5	1180	A	N9-C4-C5	5.51	108.00	105.80
1	2	1711	A	N3-C4-C5	5.51	130.65	126.80
36	1	14	U	C5-C6-N1	-5.51	119.95	122.70
36	1	22	G	O5'-P-OP2	-5.51	100.74	105.70
36	1	124	U	P-O3'-C3'	5.51	126.31	119.70
36	1	358	G	C4-C5-N7	5.51	113.00	110.80
36	1	530	G	C2-N3-C4	5.51	114.65	111.90
36	1	728	G	C2-N3-C4	5.51	114.65	111.90
36	1	750	G	C4-C5-C6	5.51	122.10	118.80
36	1	844	G	N3-C2-N2	-5.51	116.05	119.90
36	1	994	G	OP1-P-O3'	5.51	117.31	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1035	G	N1-C6-O6	-5.51	116.60	119.90
36	1	1859	A	C5-N7-C8	5.51	106.65	103.90
36	1	2156	C	N3-C4-C5	-5.51	119.70	121.90
36	1	2278	C	N1-C2-N3	-5.51	115.35	119.20
36	1	2315	G	O5'-P-OP1	-5.51	100.74	105.70
37	3	87	G	O5'-P-OP1	-5.51	100.74	105.70
39	L2	247	ARG	NE-CZ-NH2	-5.51	117.55	120.30
80	6	337	G	N7-C8-N9	5.51	115.85	113.10
80	6	572	C	N1-C2-O2	-5.51	115.60	118.90
80	6	982	U	OP2-P-O3'	5.51	117.31	105.20
80	6	1384	A	C2-N3-C4	-5.51	107.85	110.60
80	6	1487	A	C5-N7-C8	5.51	106.65	103.90
85	5	612	U	N3-C4-O4	5.51	123.25	119.40
85	5	699	A	OP2-P-O3'	5.51	117.31	105.20
85	5	797	U	N3-C4-O4	5.51	123.25	119.40
85	5	851	C	C5-C6-N1	-5.51	118.25	121.00
85	5	1766	G	C5-C6-O6	-5.51	125.30	128.60
85	5	3182	G	C5-C6-N1	5.51	114.25	111.50
1	2	1593	G	C5-C6-O6	-5.50	125.30	128.60
36	1	925	A	N1-C6-N6	-5.50	115.30	118.60
36	1	1060	U	N1-C2-N3	-5.50	111.60	114.90
36	1	2252	A	C8-N9-C4	-5.50	103.60	105.80
38	4	67	U	OP2-P-O3'	5.50	117.31	105.20
38	4	116	G	C5-C6-O6	5.50	131.90	128.60
80	6	564	G	N9-C4-C5	5.50	107.60	105.40
80	6	845	G	C6-N1-C2	5.50	128.40	125.10
85	5	222	A	N1-C6-N6	-5.50	115.30	118.60
85	5	2161	G	C8-N9-C4	-5.50	104.20	106.40
85	5	3212	C	OP1-P-OP2	-5.50	111.34	119.60
85	5	3219	G	OP1-P-OP2	-5.50	111.34	119.60
1	2	98	U	C6-N1-C2	5.50	124.30	121.00
1	2	964	U	O5'-P-OP2	-5.50	100.75	105.70
36	1	401	U	C6-N1-C2	-5.50	117.70	121.00
36	1	1914	G	N1-C2-N2	-5.50	111.25	116.20
36	1	2521	U	N1-C2-N3	-5.50	111.60	114.90
36	1	2604	U	N3-C4-O4	5.50	123.25	119.40
36	1	2659	G	C8-N9-C4	5.50	108.60	106.40
80	6	128	U	C5-C4-O4	5.50	129.20	125.90
80	6	249	U	C6-N1-C2	-5.50	117.70	121.00
80	6	357	G	C5-C6-O6	5.50	131.90	128.60
80	6	381	C	N3-C4-C5	-5.50	119.70	121.90
80	6	1599	C	N3-C4-N4	-5.50	114.15	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	536	U	OP1-P-OP2	5.50	127.86	119.60
85	5	806	A	C4-C5-N7	5.50	113.45	110.70
85	5	868	C	N3-C2-O2	5.50	125.75	121.90
85	5	1049	C	N1-C2-N3	5.50	123.05	119.20
85	5	1125	U	OP1-P-O3'	-5.50	93.09	105.20
85	5	1881	A	C5-C6-N6	-5.50	119.30	123.70
85	5	2317	A	N3-C4-C5	-5.50	122.95	126.80
85	5	2903	A	C4-C5-N7	-5.50	107.95	110.70
85	5	3369	G	C6-N1-C2	-5.50	121.80	125.10
1	2	422	G	C5-C6-O6	-5.50	125.30	128.60
36	1	165	A	C5-C6-N1	-5.50	114.95	117.70
36	1	666	A	C5-N7-C8	5.50	106.65	103.90
36	1	918	C	C2-N3-C4	5.50	122.65	119.90
36	1	2589	G	N1-C2-N3	5.50	127.20	123.90
36	1	2911	A	O5'-P-OP2	-5.50	100.75	105.70
36	1	3379	C	N3-C4-N4	5.50	121.85	118.00
80	6	53	G	N9-C4-C5	5.50	107.60	105.40
80	6	331	A	C6-N1-C2	-5.50	115.30	118.60
80	6	842	C	C5-C6-N1	5.50	123.75	121.00
80	6	1102	G	C5-N7-C8	5.50	107.05	104.30
80	6	1516	A	C5-C6-N1	5.50	120.45	117.70
85	5	965	A	C4-C5-C6	-5.50	114.25	117.00
85	5	1057	A	OP1-P-OP2	-5.50	111.35	119.60
85	5	1314	C	OP2-P-O3'	5.50	117.30	105.20
85	5	1421	G	C2-N3-C4	-5.50	109.15	111.90
85	5	2384	A	P-O3'-C3'	-5.50	113.10	119.70
85	5	2687	G	C5-C6-O6	-5.50	125.30	128.60
85	5	2828	G	OP1-P-O3'	-5.50	93.10	105.20
85	5	2842	U	C6-N1-C2	-5.50	117.70	121.00
85	5	3002	C	C2-N1-C1'	-5.50	112.75	118.80
37	7	50	U	C6-N1-C2	-5.50	117.70	121.00
1	2	1288	U	N3-C4-C5	-5.50	111.30	114.60
36	1	1468	A	C5-N7-C8	-5.50	101.15	103.90
36	1	1833	G	OP2-P-O3'	5.50	117.30	105.20
36	1	3126	C	N3-C2-O2	5.50	125.75	121.90
80	6	881	A	C4-C5-N7	5.50	113.45	110.70
80	6	988	A	C8-N9-C4	-5.50	103.60	105.80
80	6	1298	U	N1-C2-O2	-5.50	118.95	122.80
80	6	1626	U	C5-C6-N1	-5.50	119.95	122.70
85	5	24	G	N7-C8-N9	-5.50	110.35	113.10
85	5	2229	A	N1-C6-N6	-5.50	115.30	118.60
85	5	2525	G	OP1-P-OP2	5.50	127.85	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3347	A	C2-N3-C4	-5.50	107.85	110.60
38	8	87	G	C6-C5-N7	5.50	133.70	130.40
1	2	370	A	C6-C5-N7	5.50	136.15	132.30
1	2	986	A	N7-C8-N9	5.50	116.55	113.80
1	2	1112	U	N3-C4-O4	-5.50	115.55	119.40
1	2	1179	A	N3-C4-C5	-5.50	122.95	126.80
36	1	331	G	C5-N7-C8	-5.50	101.55	104.30
36	1	964	G	OP2-P-O3'	5.50	117.30	105.20
36	1	967	A	C4-C5-C6	5.50	119.75	117.00
36	1	1476	G	N1-C2-N3	5.50	127.20	123.90
36	1	1492	G	C2-N3-C4	-5.50	109.15	111.90
36	1	1850	A	N7-C8-N9	5.50	116.55	113.80
36	1	2223	A	OP1-P-OP2	-5.50	111.35	119.60
36	1	2306	C	C2-N1-C1'	5.50	124.85	118.80
36	1	2696	A	N7-C8-N9	5.50	116.55	113.80
36	1	2957	G	C4-C5-C6	-5.50	115.50	118.80
80	6	1633	A	N7-C8-N9	5.50	116.55	113.80
80	6	1761	U	N1-C2-N3	5.50	118.20	114.90
85	5	24	G	C4-C5-C6	-5.50	115.50	118.80
85	5	34	A	C6-N1-C2	-5.50	115.30	118.60
85	5	1891	A	N1-C6-N6	-5.50	115.30	118.60
85	5	2597	U	N3-C4-C5	5.50	117.90	114.60
85	5	2929	C	C5-C6-N1	-5.50	118.25	121.00
85	5	2936	A	C5-C6-N6	5.50	128.10	123.70
85	5	2973	G	C4-C5-C6	5.50	122.10	118.80
85	5	2978	U	OP1-P-OP2	-5.50	111.35	119.60
85	5	3021	A	N3-C4-N9	-5.50	123.00	127.40
85	5	3115	C	N1-C2-O2	5.50	122.20	118.90
85	5	3232	G	C2-N3-C4	-5.50	109.15	111.90
85	5	3336	A	C4-C5-C6	5.50	119.75	117.00
37	7	64	A	N3-C4-N9	5.50	131.80	127.40
1	2	110	U	O5'-P-OP1	-5.50	100.75	105.70
1	2	869	U	C5-C6-N1	5.50	125.45	122.70
36	1	63	A	N7-C8-N9	5.50	116.55	113.80
36	1	85	A	C6-C5-N7	-5.50	128.45	132.30
36	1	142	C	N1-C2-N3	5.50	123.05	119.20
36	1	331	G	N9-C4-C5	5.50	107.60	105.40
36	1	390	G	C2-N3-C4	-5.50	109.15	111.90
36	1	549	U	N3-C2-O2	5.50	126.05	122.20
36	1	697	A	C4-C5-N7	5.50	113.45	110.70
36	1	941	G	N3-C4-N9	5.50	129.30	126.00
36	1	998	A	C6-C5-N7	-5.50	128.45	132.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1466	G	C6-C5-N7	-5.50	127.10	130.40
36	1	1704	A	OP2-P-O3'	5.50	117.29	105.20
36	1	2130	G	N7-C8-N9	5.50	115.85	113.10
36	1	2172	A	OP1-P-O3'	5.50	117.29	105.20
36	1	2900	A	C5-C6-N6	-5.50	119.30	123.70
36	1	3025	C	C6-N1-C1'	-5.50	114.20	120.80
36	1	3045	G	C5-N7-C8	5.50	107.05	104.30
36	1	3136	G	P-O3'-C3'	-5.50	113.11	119.70
36	1	3221	C	OP1-P-O3'	5.50	117.29	105.20
36	1	3231	U	OP1-P-OP2	5.50	127.84	119.60
80	6	172	C	OP1-P-OP2	-5.50	111.36	119.60
80	6	491	C	C5-C6-N1	5.50	123.75	121.00
80	6	586	G	C5-C6-O6	5.50	131.90	128.60
80	6	696	C	N1-C2-O2	-5.50	115.60	118.90
80	6	952	A	O5'-P-OP1	5.50	117.30	110.70
80	6	1672	G	C8-N9-C4	-5.50	104.20	106.40
85	5	592	A	N9-C4-C5	-5.50	103.60	105.80
85	5	1223	A	C2-N3-C4	-5.50	107.85	110.60
85	5	2234	G	C8-N9-C1'	-5.50	119.86	127.00
85	5	2307	G	C4-C5-N7	-5.50	108.60	110.80
85	5	2533	G	C5-C6-N1	5.50	114.25	111.50
85	5	2665	U	C5-C4-O4	-5.50	122.60	125.90
57	n1	83	ARG	NE-CZ-NH1	-5.50	117.55	120.30
36	1	58	G	C5-C6-N1	5.50	114.25	111.50
36	1	2750	U	C4-C5-C6	5.50	123.00	119.70
36	1	3207	U	C2-N3-C4	5.50	130.30	127.00
80	6	366	A	C5-N7-C8	5.50	106.65	103.90
80	6	460	A	N9-C4-C5	5.50	108.00	105.80
80	6	1228	G	N3-C4-C5	-5.50	125.85	128.60
85	5	2172	A	OP1-P-OP2	5.50	127.84	119.60
85	5	3030	G	N1-C6-O6	-5.50	116.60	119.90
1	2	64	U	N3-C4-C5	-5.49	111.30	114.60
1	2	368	U	C6-N1-C1'	-5.49	113.51	121.20
1	2	467	G	C6-N1-C2	-5.49	121.80	125.10
36	1	180	C	O5'-P-OP2	5.49	117.29	110.70
36	1	299	G	N1-C2-N2	5.49	121.14	116.20
36	1	338	A	N1-C6-N6	-5.49	115.30	118.60
36	1	656	A	C5-C6-N6	-5.49	119.31	123.70
36	1	1181	U	C5-C4-O4	5.49	129.20	125.90
36	1	1395	G	C6-C5-N7	-5.49	127.10	130.40
36	1	2345	A	C5-N7-C8	-5.49	101.15	103.90
36	1	2513	U	C5-C4-O4	5.49	129.20	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2660	G	N1-C6-O6	-5.49	116.60	119.90
36	1	2887	A	C2-N3-C4	5.49	113.35	110.60
36	1	2956	A	N3-C4-C5	-5.49	122.95	126.80
36	1	3263	G	C5-C6-N1	-5.49	108.75	111.50
37	3	11	A	OP1-P-OP2	5.49	127.84	119.60
38	4	114	G	C5-N7-C8	-5.49	101.55	104.30
80	6	230	C	N1-C2-O2	5.49	122.20	118.90
80	6	252	U	C5-C6-N1	-5.49	119.95	122.70
80	6	811	A	C8-N9-C4	-5.49	103.60	105.80
80	6	1161	C	OP1-P-OP2	5.49	127.84	119.60
80	6	1198	G	N1-C2-N3	-5.49	120.60	123.90
80	6	1337	A	N1-C6-N6	5.49	121.90	118.60
6	s4	187	ARG	NE-CZ-NH2	-5.49	117.55	120.30
85	5	234	G	N3-C2-N2	-5.49	116.06	119.90
85	5	847	A	C2-N3-C4	-5.49	107.85	110.60
85	5	857	G	C4-C5-N7	-5.49	108.60	110.80
85	5	1060	U	N3-C4-C5	5.49	117.90	114.60
85	5	1607	U	C5-C4-O4	-5.49	122.60	125.90
85	5	2138	A	N7-C8-N9	5.49	116.55	113.80
85	5	2552	C	C2-N1-C1'	5.49	124.84	118.80
85	5	2679	A	N9-C4-C5	-5.49	103.60	105.80
85	5	2996	U	O5'-P-OP1	5.49	117.29	110.70
36	1	557	A	OP1-P-O3'	5.49	117.28	105.20
36	1	1655	G	N3-C4-N9	5.49	129.29	126.00
36	1	2764	C	C6-N1-C2	-5.49	118.10	120.30
39	L2	128	ARG	NE-CZ-NH1	-5.49	117.55	120.30
85	5	350	C	C5-C6-N1	5.49	123.75	121.00
85	5	1480	G	N1-C2-N2	5.49	121.14	116.20
85	5	1555	U	C4-C5-C6	5.49	123.00	119.70
1	2	10	G	N3-C2-N2	5.49	123.74	119.90
1	2	86	A	C6-N1-C2	5.49	121.89	118.60
1	2	971	A	C6-C5-N7	-5.49	128.46	132.30
1	2	1224	G	O4'-C1'-N9	5.49	112.59	108.20
1	2	1665	U	N1-C2-O2	5.49	126.64	122.80
36	1	29	C	N3-C4-C5	5.49	124.10	121.90
36	1	103	G	N9-C4-C5	5.49	107.60	105.40
36	1	1199	C	C5-C6-N1	-5.49	118.25	121.00
36	1	1776	G	O5'-P-OP1	-5.49	100.76	105.70
36	1	2230	C	N3-C2-O2	5.49	125.74	121.90
36	1	2321	A	O4'-C1'-N9	-5.49	103.81	108.20
36	1	2955	U	N1-C2-O2	5.49	126.64	122.80
36	1	3241	G	OP2-P-O3'	5.49	117.28	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	45	C	N1-C2-N3	-5.49	115.36	119.20
38	4	141	C	C6-N1-C2	-5.49	118.10	120.30
49	M3	139	LEU	CB-CG-CD2	-5.49	101.67	111.00
79	Q3	36	ARG	NE-CZ-NH2	5.49	123.05	120.30
80	6	327	U	C2-N1-C1'	5.49	124.29	117.70
80	6	640	U	C5-C4-O4	-5.49	122.61	125.90
80	6	1592	A	C4-C5-N7	5.49	113.45	110.70
80	6	1676	U	C5-C6-N1	5.49	125.44	122.70
85	5	58	G	C2-N3-C4	5.49	114.64	111.90
85	5	310	U	O5'-P-OP1	5.49	117.29	110.70
85	5	1051	U	OP1-P-O3'	5.49	117.28	105.20
85	5	1401	A	OP1-P-OP2	5.49	127.84	119.60
85	5	1510	G	C5-C6-O6	-5.49	125.31	128.60
85	5	1562	C	O5'-P-OP2	5.49	117.29	110.70
85	5	2820	A	N1-C6-N6	5.49	121.89	118.60
85	5	3197	G	O4'-C1'-N9	-5.49	103.81	108.20
85	5	3320	A	C4-C5-C6	5.49	119.75	117.00
1	2	17	C	N3-C4-C5	-5.49	119.70	121.90
1	2	1426	U	C5-C6-N1	-5.49	119.96	122.70
1	2	1509	A	C5-N7-C8	-5.49	101.16	103.90
36	1	164	A	C2-N3-C4	5.49	113.34	110.60
36	1	1891	A	N1-C2-N3	5.49	132.04	129.30
36	1	2194	G	C6-C5-N7	-5.49	127.11	130.40
36	1	2837	A	C8-N9-C4	-5.49	103.60	105.80
37	3	51	A	C8-N9-C4	-5.49	103.61	105.80
38	4	102	U	C2-N1-C1'	5.49	124.29	117.70
80	6	1797	A	C5-C6-N1	5.49	120.44	117.70
85	5	141	C	O5'-P-OP2	5.49	117.29	110.70
85	5	542	G	C6-C5-N7	-5.49	127.11	130.40
85	5	999	G	N7-C8-N9	-5.49	110.36	113.10
85	5	1450	G	N3-C4-N9	-5.49	122.71	126.00
85	5	1580	A	C8-N9-C4	-5.49	103.61	105.80
85	5	1808	G	C6-N1-C2	5.49	128.39	125.10
85	5	2374	C	C5-C4-N4	-5.49	116.36	120.20
85	5	2423	U	C4-C5-C6	5.49	122.99	119.70
1	2	626	U	C5-C6-N1	5.49	125.44	122.70
36	1	212	G	C4-C5-N7	-5.49	108.61	110.80
36	1	1189	C	OP1-P-OP2	5.49	127.83	119.60
36	1	2360	C	N1-C2-O2	-5.49	115.61	118.90
36	1	2626	A	N7-C8-N9	-5.49	111.06	113.80
37	3	59	U	N1-C2-O2	5.49	126.64	122.80
80	6	727	U	C6-N1-C2	-5.49	117.71	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	676	G	N1-C2-N2	-5.49	111.26	116.20
85	5	1870	C	N1-C2-O2	-5.49	115.61	118.90
85	5	2246	G	N3-C4-N9	-5.49	122.71	126.00
85	5	2878	G	C5-N7-C8	-5.49	101.56	104.30
85	5	2928	C	C6-N1-C1'	5.49	127.39	120.80
85	5	3347	A	OP1-P-OP2	-5.49	111.37	119.60
38	8	4	C	C6-N1-C2	-5.49	118.11	120.30
1	2	689	A	C2-N3-C4	-5.49	107.86	110.60
1	2	961	A	N7-C8-N9	5.49	116.54	113.80
1	2	1064	A	C5-N7-C8	5.49	106.64	103.90
36	1	26	A	O5'-P-OP2	5.49	117.28	110.70
36	1	678	G	OP2-P-O3'	5.49	117.27	105.20
36	1	686	G	OP1-P-OP2	-5.49	111.37	119.60
36	1	847	A	C5-C6-N6	-5.49	119.31	123.70
36	1	965	A	C5-N7-C8	-5.49	101.16	103.90
36	1	1289	G	C8-N9-C1'	-5.49	119.87	127.00
36	1	2296	A	C6-N1-C2	-5.49	115.31	118.60
36	1	2581	U	C6-N1-C2	5.49	124.29	121.00
36	1	3026	G	C6-N1-C2	5.49	128.39	125.10
36	1	3085	G	C6-C5-N7	-5.49	127.11	130.40
36	1	3373	U	C4-C5-C6	5.49	122.99	119.70
68	O2	111	ARG	NE-CZ-NH2	5.49	123.04	120.30
80	6	475	A	C5-C6-N6	-5.49	119.31	123.70
80	6	791	A	C4-C5-N7	5.49	113.44	110.70
80	6	824	G	C5-N7-C8	-5.49	101.56	104.30
80	6	926	A	C6-C5-N7	-5.49	128.46	132.30
80	6	975	C	C6-N1-C2	5.49	122.49	120.30
85	5	430	U	N1-C2-N3	5.49	118.19	114.90
85	5	1077	U	C4-C5-C6	-5.49	116.41	119.70
85	5	1152	G	N1-C2-N2	-5.49	111.26	116.20
85	5	1204	A	C4-C5-N7	-5.49	107.96	110.70
85	5	1463	U	N3-C4-C5	-5.49	111.31	114.60
85	5	1735	G	N3-C2-N2	-5.49	116.06	119.90
85	5	2410	U	C4-C5-C6	5.49	122.99	119.70
37	7	108	A	C4-C5-C6	5.49	119.74	117.00
39	12	112	ILE	CG1-CB-CG2	-5.49	99.33	111.40
43	16	82	ARG	NE-CZ-NH1	-5.49	117.56	120.30
80	6	919	A	N7-C8-N9	5.48	116.54	113.80
85	5	21	G	N7-C8-N9	-5.48	110.36	113.10
85	5	277	G	C5-N7-C8	5.48	107.04	104.30
85	5	744	A	OP2-P-O3'	5.48	117.27	105.20
85	5	1749	A	N9-C4-C5	-5.48	103.61	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2197	C	OP1-P-OP2	5.48	127.83	119.60
85	5	2237	C	N1-C2-O2	5.48	122.19	118.90
85	5	3318	G	N3-C4-N9	-5.48	122.71	126.00
1	2	110	U	O4'-C1'-N1	5.48	112.59	108.20
1	2	556	A	OP1-P-O3'	5.48	117.26	105.20
1	2	556	A	N1-C6-N6	-5.48	115.31	118.60
1	2	706	G	N9-C4-C5	5.48	107.59	105.40
1	2	859	G	C4-C5-C6	-5.48	115.51	118.80
36	1	666	A	C4-C5-N7	-5.48	107.96	110.70
36	1	1332	A	C4-C5-C6	5.48	119.74	117.00
36	1	2327	U	O5'-P-OP1	-5.48	100.77	105.70
36	1	3299	A	C6-C5-N7	-5.48	128.46	132.30
36	1	3303	G	N3-C2-N2	5.48	123.74	119.90
37	3	49	G	N1-C6-O6	-5.48	116.61	119.90
80	6	509	G	OP1-P-O3'	5.48	117.26	105.20
80	6	785	U	OP1-P-OP2	-5.48	111.38	119.60
80	6	892	A	C5-C6-N6	5.48	128.09	123.70
80	6	1651	A	N1-C2-N3	5.48	132.04	129.30
85	5	777	U	N1-C2-O2	-5.48	118.96	122.80
85	5	1146	C	C4-C5-C6	5.48	120.14	117.40
85	5	1293	U	O5'-P-OP2	5.48	117.28	110.70
85	5	1383	G	O4'-C1'-N9	5.48	112.58	108.20
85	5	1402	C	C5-C6-N1	-5.48	118.26	121.00
85	5	1636	U	N1-C2-O2	-5.48	118.96	122.80
85	5	1845	G	N3-C4-C5	-5.48	125.86	128.60
85	5	1922	A	OP1-P-O3'	-5.48	93.14	105.20
85	5	2408	U	OP1-P-OP2	5.48	127.83	119.60
85	5	2414	G	O5'-P-OP1	-5.48	100.77	105.70
85	5	3046	A	N3-C4-C5	-5.48	122.96	126.80
85	5	3170	A	N9-C4-C5	5.48	107.99	105.80
37	7	28	C	C6-N1-C2	-5.48	118.11	120.30
37	7	121	U	C5-C4-O4	-5.48	122.61	125.90
1	2	502	U	C6-N1-C2	5.48	124.29	121.00
1	2	685	G	C4-N9-C1'	5.48	133.62	126.50
1	2	1582	C	N3-C2-O2	-5.48	118.06	121.90
36	1	7	C	C5-C6-N1	-5.48	118.26	121.00
36	1	1488	G	N1-C6-O6	-5.48	116.61	119.90
36	1	1784	G	N3-C4-C5	5.48	131.34	128.60
36	1	3291	G	N7-C8-N9	-5.48	110.36	113.10
38	4	68	G	N3-C2-N2	-5.48	116.06	119.90
56	N0	26	ARG	NE-CZ-NH1	-5.48	117.56	120.30
80	6	47	A	OP1-P-O3'	5.48	117.26	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	302	U	P-O3'-C3'	-5.48	113.12	119.70
80	6	609	U	N3-C4-O4	-5.48	115.56	119.40
80	6	792	U	C5-C4-O4	5.48	129.19	125.90
80	6	834	G	C4-C5-N7	5.48	112.99	110.80
85	5	158	G	C5-C6-O6	-5.48	125.31	128.60
85	5	515	C	C2-N3-C4	5.48	122.64	119.90
85	5	1314	C	N3-C2-O2	-5.48	118.06	121.90
85	5	2262	A	O5'-P-OP1	5.48	117.28	110.70
85	5	2583	C	N3-C4-C5	-5.48	119.71	121.90
85	5	2706	G	N1-C2-N2	-5.48	111.27	116.20
85	5	3098	G	N1-C2-N3	-5.48	120.61	123.90
37	7	5	G	N1-C2-N3	5.48	127.19	123.90
37	7	29	C	N3-C4-C5	5.48	124.09	121.90
38	8	151	C	C5-C6-N1	-5.48	118.26	121.00
89	p0	76	LEU	CA-CB-CG	5.48	127.91	115.30
1	2	63	G	N1-C2-N3	5.48	127.19	123.90
1	2	955	G	N3-C2-N2	-5.48	116.06	119.90
36	1	228	U	C4-C5-C6	-5.48	116.41	119.70
36	1	353	G	N9-C1'-C2'	5.48	121.12	114.00
36	1	569	A	C5-N7-C8	5.48	106.64	103.90
36	1	1341	U	N1-C2-O2	-5.48	118.97	122.80
36	1	2370	G	C4-C5-C6	-5.48	115.51	118.80
36	1	2582	C	O5'-P-OP1	-5.48	100.77	105.70
36	1	2779	A	C5-C6-N1	-5.48	114.96	117.70
80	6	976	G	N1-C6-O6	5.48	123.19	119.90
85	5	336	A	C6-N1-C2	5.48	121.89	118.60
85	5	1697	A	OP2-P-O3'	5.48	117.25	105.20
85	5	1845	G	N1-C2-N3	5.48	127.19	123.90
85	5	2874	G	O5'-P-OP1	5.48	117.28	110.70
1	2	189	C	C5-C4-N4	-5.48	116.37	120.20
1	2	744	G	C5-C6-N1	-5.48	108.76	111.50
36	1	807	A	C8-N9-C4	5.48	107.99	105.80
36	1	1078	U	C4-C5-C6	5.48	122.99	119.70
36	1	1312	C	C4-C5-C6	5.48	120.14	117.40
36	1	2605	G	O5'-P-OP2	-5.48	100.77	105.70
36	1	3257	C	N3-C2-O2	-5.48	118.07	121.90
37	3	49	G	N3-C4-N9	5.48	129.29	126.00
80	6	1	U	O4'-C1'-N1	5.48	112.58	108.20
80	6	250	C	OP1-P-OP2	5.48	127.82	119.60
80	6	281	G	N1-C2-N3	-5.48	120.61	123.90
80	6	619	A	C4-C5-C6	-5.48	114.26	117.00
80	6	901	G	C6-C5-N7	-5.48	127.11	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	274	G	C4-C5-N7	-5.48	108.61	110.80
85	5	726	G	O5'-P-OP1	-5.48	100.77	105.70
85	5	730	C	N3-C4-C5	-5.48	119.71	121.90
85	5	843	A	N1-C6-N6	5.48	121.89	118.60
85	5	1012	G	N3-C2-N2	-5.48	116.07	119.90
85	5	1070	U	O5'-P-OP1	5.48	117.27	110.70
85	5	1607	U	C6-N1-C1'	-5.48	113.53	121.20
37	7	31	U	C2-N3-C4	5.48	130.29	127.00
37	7	55	A	N1-C6-N6	-5.48	115.31	118.60
43	16	66	SER	C-N-CA	-5.48	110.80	122.30
1	2	1310	C	N3-C2-O2	5.48	125.73	121.90
36	1	214	G	O5'-P-OP2	-5.48	100.77	105.70
36	1	714	G	N1-C2-N3	5.48	127.19	123.90
36	1	1646	G	C5-C6-O6	5.48	131.89	128.60
36	1	1923	C	N1-C2-O2	-5.48	115.61	118.90
36	1	2992	U	N3-C2-O2	5.48	126.03	122.20
85	5	23	A	C4-C5-N7	5.48	113.44	110.70
85	5	781	G	C8-N9-C4	-5.48	104.21	106.40
85	5	1150	A	C8-N9-C4	5.48	107.99	105.80
85	5	1379	G	C5-C6-O6	-5.48	125.31	128.60
37	7	11	A	N7-C8-N9	5.48	116.54	113.80
1	2	412	A	C4-C5-C6	5.47	119.74	117.00
1	2	658	C	C5-C6-N1	5.47	123.74	121.00
36	1	165	A	O5'-P-OP1	5.47	117.27	110.70
36	1	244	G	O5'-P-OP2	-5.47	100.77	105.70
36	1	494	G	N7-C8-N9	-5.47	110.36	113.10
36	1	709	A	OP1-P-O3'	-5.47	93.16	105.20
36	1	809	G	N3-C4-C5	5.47	131.34	128.60
36	1	859	G	C4-N9-C1'	5.47	133.62	126.50
36	1	1517	G	C6-N1-C2	-5.47	121.81	125.10
36	1	1642	A	N9-C4-C5	5.47	107.99	105.80
36	1	2760	C	N1-C2-O2	-5.47	115.61	118.90
36	1	2898	G	N9-C4-C5	5.47	107.59	105.40
36	1	2947	G	N3-C4-C5	5.47	131.34	128.60
36	1	3065	G	N3-C2-N2	-5.47	116.07	119.90
36	1	3275	U	N1-C2-O2	5.47	126.63	122.80
37	3	33	U	N3-C4-O4	-5.47	115.57	119.40
80	6	235	G	N9-C4-C5	5.47	107.59	105.40
80	6	427	C	C6-N1-C2	-5.47	118.11	120.30
80	6	539	G	C4-C5-N7	5.47	112.99	110.80
80	6	1107	G	C5-N7-C8	-5.47	101.56	104.30
85	5	912	G	N1-C6-O6	5.47	123.18	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1167	U	N3-C2-O2	-5.47	118.37	122.20
85	5	1307	G	O5'-P-OP1	-5.47	100.77	105.70
85	5	1561	G	O4'-C1'-N9	5.47	112.58	108.20
85	5	1757	A	N9-C4-C5	5.47	107.99	105.80
85	5	2107	A	N1-C6-N6	-5.47	115.31	118.60
85	5	2253	G	N3-C4-C5	-5.47	125.86	128.60
85	5	2711	C	C5-C4-N4	-5.47	116.37	120.20
85	5	3354	U	C2-N3-C4	5.47	130.28	127.00
59	n3	137	VAL	CG1-CB-CG2	-5.47	102.14	110.90
1	2	717	A	N7-C8-N9	5.47	116.54	113.80
36	1	1776	G	C5-C6-O6	-5.47	125.32	128.60
36	1	1881	A	N1-C6-N6	5.47	121.88	118.60
36	1	1911	A	C8-N9-C4	-5.47	103.61	105.80
36	1	2157	G	O5'-P-OP2	-5.47	100.78	105.70
36	1	2730	G	C8-N9-C4	-5.47	104.21	106.40
37	3	109	G	O5'-P-OP1	-5.47	100.78	105.70
38	4	31	G	C6-C5-N7	-5.47	127.12	130.40
38	4	146	U	N3-C4-C5	-5.47	111.32	114.60
41	L4	52	VAL	CG1-CB-CG2	-5.47	102.14	110.90
69	O3	40	ASP	CB-CG-OD1	-5.47	113.38	118.30
80	6	194	U	C5-C4-O4	-5.47	122.62	125.90
80	6	515	A	C5-C6-N1	5.47	120.44	117.70
80	6	1477	G	N1-C6-O6	5.47	123.18	119.90
85	5	197	G	N7-C8-N9	5.47	115.84	113.10
85	5	659	G	OP2-P-O3'	5.47	117.24	105.20
85	5	804	C	C5-C6-N1	5.47	123.74	121.00
85	5	1003	A	N1-C2-N3	5.47	132.04	129.30
85	5	1006	A	OP1-P-OP2	5.47	127.81	119.60
85	5	1140	G	C8-N9-C1'	-5.47	119.89	127.00
85	5	1177	G	N1-C2-N2	-5.47	111.28	116.20
85	5	1701	C	C5-C4-N4	-5.47	116.37	120.20
85	5	2215	A	N1-C2-N3	5.47	132.04	129.30
85	5	2534	G	C8-N9-C4	5.47	108.59	106.40
85	5	2817	A	N1-C6-N6	5.47	121.88	118.60
1	2	502	U	N1-C2-O2	5.47	126.63	122.80
36	1	1094	U	N3-C2-O2	-5.47	118.37	122.20
36	1	1147	G	N3-C2-N2	-5.47	116.07	119.90
36	1	1868	G	C6-N1-C2	-5.47	121.82	125.10
36	1	1928	G	N1-C6-O6	-5.47	116.62	119.90
36	1	2185	G	OP1-P-OP2	5.47	127.81	119.60
36	1	2400	G	C6-N1-C2	-5.47	121.82	125.10
36	1	2599	U	N3-C4-C5	-5.47	111.32	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	99	G	C8-N9-C4	-5.47	104.21	106.40
80	6	446	A	C5-N7-C8	-5.47	101.16	103.90
80	6	578	U	C4-C5-C6	5.47	122.98	119.70
80	6	917	U	C6-N1-C2	-5.47	117.72	121.00
85	5	367	A	C2-N3-C4	-5.47	107.86	110.60
85	5	387	A	O5'-P-OP1	5.47	117.27	110.70
85	5	412	G	OP1-P-O3'	5.47	117.23	105.20
85	5	437	G	N9-C1'-C2'	-5.47	105.98	112.00
85	5	1457	U	N3-C4-O4	5.47	123.23	119.40
85	5	2313	A	C5-C6-N1	-5.47	114.96	117.70
38	8	140	G	N1-C6-O6	5.47	123.18	119.90
1	2	232	U	C6-N1-C2	-5.47	117.72	121.00
1	2	739	A	O5'-P-OP2	-5.47	100.78	105.70
1	2	1112	U	N3-C2-O2	-5.47	118.37	122.20
1	2	1257	C	N3-C4-N4	-5.47	114.17	118.00
36	1	594	U	OP1-P-O3'	5.47	117.23	105.20
36	1	858	A	N3-C4-C5	-5.47	122.97	126.80
36	1	2508	U	N3-C4-C5	-5.47	111.32	114.60
36	1	2675	C	C6-N1-C2	5.47	122.49	120.30
61	N5	113	LEU	CB-CG-CD2	-5.47	101.70	111.00
80	6	60	U	O5'-P-OP1	-5.47	100.78	105.70
80	6	111	U	OP1-P-OP2	5.47	127.81	119.60
80	6	445	A	C8-N9-C4	-5.47	103.61	105.80
80	6	626	U	N1-C2-O2	5.47	126.63	122.80
80	6	1137	A	C6-N1-C2	5.47	121.88	118.60
80	6	1669	U	N3-C4-O4	5.47	123.23	119.40
85	5	325	A	N3-C4-C5	-5.47	122.97	126.80
85	5	594	U	P-O3'-C3'	-5.47	113.14	119.70
85	5	658	G	C4-C5-C6	5.47	122.08	118.80
85	5	1934	G	OP1-P-OP2	5.47	127.80	119.60
85	5	2599	U	C2-N3-C4	-5.47	123.72	127.00
85	5	2901	G	N3-C4-N9	5.47	129.28	126.00
85	5	3296	A	N1-C6-N6	5.47	121.88	118.60
37	7	1	G	O5'-P-OP1	-5.47	100.78	105.70
37	7	33	U	C6-N1-C1'	-5.47	113.54	121.20
37	7	61	G	C5-C6-N1	5.47	114.23	111.50
78	q2	70	LEU	CA-CB-CG	5.47	127.88	115.30
1	2	322	G	C4-C5-N7	-5.47	108.61	110.80
1	2	1028	C	C4-C5-C6	5.47	120.13	117.40
1	2	1155	G	N1-C2-N3	5.47	127.18	123.90
36	1	642	U	O5'-P-OP2	-5.47	100.78	105.70
36	1	880	G	N3-C4-N9	-5.47	122.72	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1738	C	C5-C4-N4	5.47	124.03	120.20
36	1	2958	A	OP1-P-O3'	5.47	117.23	105.20
36	1	3024	A	N7-C8-N9	5.47	116.53	113.80
37	3	120	C	OP2-P-O3'	5.47	117.23	105.20
85	5	1194	G	N9-C4-C5	5.47	107.59	105.40
85	5	2706	G	N1-C2-N3	5.47	127.18	123.90
85	5	3026	G	N3-C2-N2	-5.47	116.07	119.90
85	5	3234	A	C2-N3-C4	5.47	113.33	110.60
37	7	84	A	C4-N9-C1'	5.47	136.14	126.30
38	8	93	U	N3-C4-O4	-5.47	115.57	119.40
52	m6	58	LEU	CB-CG-CD1	-5.47	101.70	111.00
1	2	1091	G	N7-C8-N9	5.47	115.83	113.10
1	2	1095	G	N1-C2-N3	5.47	127.18	123.90
18	C6	40	GLU	C-N-CA	5.47	144.96	122.00
36	1	32	U	N3-C4-O4	5.47	123.23	119.40
36	1	139	G	P-O3'-C3'	-5.47	113.14	119.70
36	1	651	G	OP2-P-O3'	5.47	117.23	105.20
36	1	761	A	N3-C4-C5	5.47	130.63	126.80
36	1	882	A	C6-C5-N7	-5.47	128.47	132.30
36	1	990	U	O5'-P-OP2	-5.47	100.78	105.70
36	1	1465	A	N1-C6-N6	-5.47	115.32	118.60
36	1	2100	A	C5-C6-N1	5.47	120.43	117.70
36	1	3021	A	C6-N1-C2	-5.47	115.32	118.60
36	1	3233	C	N3-C2-O2	5.47	125.73	121.90
36	1	3264	G	N9-C4-C5	-5.47	103.21	105.40
36	1	3282	U	C2-N3-C4	5.47	130.28	127.00
38	4	56	G	N9-C4-C5	-5.47	103.21	105.40
80	6	689	G	C5-C6-N1	-5.47	108.77	111.50
80	6	809	A	C5-C6-N6	-5.47	119.33	123.70
85	5	379	C	C5-C4-N4	-5.47	116.37	120.20
85	5	797	U	N1-C2-O2	-5.47	118.97	122.80
85	5	941	G	OP2-P-O3'	-5.47	93.17	105.20
85	5	996	A	C4-C5-C6	5.47	119.73	117.00
85	5	998	A	C5-C6-N6	5.47	128.07	123.70
85	5	1481	A	C4-C5-C6	5.47	119.73	117.00
85	5	1931	U	OP2-P-O3'	5.47	117.22	105.20
85	5	2388	U	OP2-P-O3'	5.47	117.23	105.20
85	5	2637	A	O4'-C1'-N9	-5.47	103.83	108.20
85	5	2815	G	N9-C4-C5	5.47	107.59	105.40
85	5	3136	G	O5'-P-OP2	-5.47	100.78	105.70
38	8	70	G	N9-C4-C5	5.47	107.59	105.40
86	18	57	ARG	NE-CZ-NH1	5.47	123.03	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	m0	69	ARG	NE-CZ-NH1	5.47	123.03	120.30
1	2	420	A	C8-N9-C4	-5.46	103.61	105.80
1	2	528	U	C5-C4-O4	5.46	129.18	125.90
1	2	610	G	N1-C6-O6	5.46	123.18	119.90
1	2	794	A	N9-C4-C5	5.46	107.99	105.80
1	2	1646	G	C4-C5-N7	5.46	112.98	110.80
36	1	152	U	C6-N1-C2	-5.46	117.72	121.00
36	1	846	A	C6-C5-N7	-5.46	128.47	132.30
36	1	1328	C	N1-C2-N3	5.46	123.03	119.20
36	1	1538	G	C2-N3-C4	-5.46	109.17	111.90
36	1	1597	C	N3-C4-N4	5.46	121.83	118.00
36	1	1633	C	N3-C2-O2	-5.46	118.08	121.90
36	1	2108	C	N3-C4-N4	-5.46	114.17	118.00
36	1	2237	C	C6-N1-C1'	-5.46	114.24	120.80
36	1	2915	U	O5'-P-OP2	-5.46	100.78	105.70
36	1	3111	U	C5-C6-N1	5.46	125.43	122.70
80	6	652	G	N3-C4-C5	5.46	131.33	128.60
85	5	591	G	C4-C5-C6	5.46	122.08	118.80
85	5	697	A	C8-N9-C4	-5.46	103.61	105.80
85	5	1807	G	C5-C6-N1	-5.46	108.77	111.50
85	5	3057	U	N3-C4-C5	5.46	117.88	114.60
85	5	3176	G	N1-C2-N2	-5.46	111.28	116.20
85	5	3262	U	OP1-P-O3'	5.46	117.22	105.20
37	7	31	U	O4'-C1'-N1	5.46	112.57	108.20
37	7	57	G	C6-C5-N7	-5.46	127.12	130.40
61	n5	42	ARG	NE-CZ-NH1	-5.46	117.57	120.30
1	2	972	U	O5'-P-OP2	-5.46	100.78	105.70
1	2	1424	C	C2-N3-C4	5.46	122.63	119.90
36	1	320	G	C6-N1-C2	-5.46	121.82	125.10
36	1	781	G	N7-C8-N9	5.46	115.83	113.10
36	1	1479	U	N3-C4-O4	5.46	123.22	119.40
36	1	2921	U	N1-C2-N3	5.46	118.18	114.90
38	4	15	G	C6-N1-C2	-5.46	121.82	125.10
80	6	256	A	C6-C5-N7	-5.46	128.48	132.30
85	5	1044	U	C5-C6-N1	5.46	125.43	122.70
85	5	1515	A	C5-C6-N6	-5.46	119.33	123.70
85	5	2276	G	C6-N1-C2	-5.46	121.82	125.10
85	5	2806	U	O5'-P-OP2	-5.46	100.78	105.70
85	5	3376	A	N9-C4-C5	5.46	107.98	105.80
1	2	410	A	N3-C4-C5	5.46	130.62	126.80
1	2	1225	A	C8-N9-C4	-5.46	103.62	105.80
1	2	1535	U	N1-C2-N3	-5.46	111.62	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1740	G	OP1-P-OP2	-5.46	111.41	119.60
36	1	371	G	N1-C2-N3	5.46	127.18	123.90
36	1	383	G	N3-C2-N2	5.46	123.72	119.90
36	1	726	G	OP1-P-OP2	5.46	127.79	119.60
36	1	1169	A	C5-C6-N6	5.46	128.07	123.70
36	1	1363	A	C8-N9-C4	-5.46	103.62	105.80
36	1	1508	C	C5-C4-N4	5.46	124.02	120.20
36	1	1519	G	C6-N1-C2	-5.46	121.82	125.10
36	1	1535	A	OP2-P-O3'	5.46	117.22	105.20
36	1	3183	A	C2-N3-C4	-5.46	107.87	110.60
36	1	3261	C	C5-C6-N1	-5.46	118.27	121.00
80	6	564	G	N7-C8-N9	5.46	115.83	113.10
80	6	861	U	C5-C6-N1	5.46	125.43	122.70
80	6	1637	C	C6-N1-C2	5.46	122.48	120.30
80	6	1743	U	N3-C2-O2	-5.46	118.38	122.20
85	5	323	A	O5'-P-OP2	-5.46	100.78	105.70
85	5	491	C	C2-N1-C1'	-5.46	112.79	118.80
85	5	604	G	OP1-P-OP2	5.46	127.79	119.60
85	5	631	U	OP2-P-O3'	5.46	117.22	105.20
85	5	856	G	N1-C2-N2	-5.46	111.28	116.20
85	5	1080	A	OP1-P-O3'	5.46	117.21	105.20
85	5	1178	G	O5'-P-OP2	-5.46	100.78	105.70
85	5	1575	A	C4-C5-N7	5.46	113.43	110.70
85	5	2830	G	P-O3'-C3'	-5.46	113.15	119.70
85	5	2865	U	O5'-P-OP2	5.46	117.25	110.70
37	7	48	U	C4-C5-C6	5.46	122.98	119.70
1	2	1424	C	N3-C2-O2	5.46	125.72	121.90
1	2	1774	A	C6-C5-N7	-5.46	128.48	132.30
36	1	831	G	O5'-P-OP1	-5.46	100.79	105.70
36	1	1291	A	O5'-P-OP2	5.46	117.25	110.70
36	1	2337	C	C5-C4-N4	-5.46	116.38	120.20
36	1	2643	A	N9-C4-C5	-5.46	103.62	105.80
36	1	2982	A	N3-C4-N9	5.46	131.77	127.40
38	4	82	U	N1-C2-N3	-5.46	111.62	114.90
38	4	123	G	C2-N3-C4	5.46	114.63	111.90
53	M7	7	THR	CA-CB-CG2	-5.46	104.75	112.40
80	6	569	C	O5'-P-OP2	-5.46	100.79	105.70
80	6	878	G	C8-N9-C4	-5.46	104.22	106.40
80	6	1734	U	C5-C6-N1	5.46	125.43	122.70
85	5	706	A	O5'-P-OP1	-5.46	100.79	105.70
85	5	841	A	C2-N3-C4	-5.46	107.87	110.60
85	5	2620	G	N3-C2-N2	-5.46	116.08	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	m8	130	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	2	485	A	N9-C4-C5	-5.46	103.62	105.80
1	2	1189	U	N1-C2-O2	5.46	126.62	122.80
1	2	1397	U	N1-C2-O2	5.46	126.62	122.80
36	1	514	G	N1-C6-O6	5.46	123.17	119.90
36	1	645	A	C5-C6-N6	5.46	128.07	123.70
36	1	726	G	OP1-P-O3'	5.46	117.21	105.20
36	1	1116	G	O5'-P-OP1	-5.46	100.79	105.70
36	1	1155	C	O5'-P-OP2	5.46	117.25	110.70
36	1	1218	U	C5-C4-O4	5.46	129.18	125.90
36	1	1858	A	C4-N9-C1'	5.46	136.13	126.30
36	1	2247	G	C4-C5-N7	-5.46	108.62	110.80
36	1	2787	G	N1-C2-N2	5.46	121.11	116.20
36	1	3025	C	N3-C4-N4	-5.46	114.18	118.00
36	1	3110	C	N1-C2-N3	5.46	123.02	119.20
36	1	3334	U	N3-C4-C5	-5.46	111.33	114.60
80	6	285	G	N1-C6-O6	5.46	123.17	119.90
80	6	446	A	OP1-P-OP2	-5.46	111.41	119.60
80	6	914	G	OP1-P-O3'	5.46	117.21	105.20
80	6	1627	U	C4-C5-C6	5.46	122.97	119.70
80	6	1720	G	N3-C2-N2	5.46	123.72	119.90
85	5	141	C	C4-C5-C6	-5.46	114.67	117.40
85	5	290	G	C5-N7-C8	5.46	107.03	104.30
85	5	326	U	OP2-P-O3'	5.46	117.21	105.20
85	5	1161	G	N1-C2-N3	-5.46	120.62	123.90
85	5	2156	C	C2-N1-C1'	-5.46	112.80	118.80
85	5	2672	G	OP2-P-O3'	5.46	117.21	105.20
85	5	2865	U	O4'-C1'-N1	5.46	112.57	108.20
85	5	2872	A	N3-C4-N9	-5.46	123.03	127.40
85	5	2988	C	C4-C5-C6	5.46	120.13	117.40
85	5	2993	G	OP2-P-O3'	5.46	117.21	105.20
85	5	3052	G	N3-C2-N2	-5.46	116.08	119.90
78	q2	54	THR	CA-CB-CG2	-5.46	104.76	112.40
1	2	169	A	C4-C5-N7	5.46	113.43	110.70
1	2	469	C	C2-N3-C4	-5.46	117.17	119.90
1	2	865	U	N3-C2-O2	5.46	126.02	122.20
36	1	98	G	C6-C5-N7	-5.46	127.13	130.40
36	1	516	A	N3-C4-C5	5.46	130.62	126.80
36	1	1303	A	C5-C6-N6	5.46	128.07	123.70
36	1	1593	A	N1-C2-N3	5.46	132.03	129.30
36	1	1754	G	OP1-P-OP2	5.46	127.78	119.60
36	1	3075	G	OP1-P-OP2	-5.46	111.42	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	117	A	C5-C6-N1	-5.46	114.97	117.70
80	6	137	U	OP1-P-O3'	5.46	117.20	105.20
80	6	632	U	O5'-P-OP1	-5.46	100.79	105.70
80	6	944	A	C5-C6-N1	5.46	120.43	117.70
85	5	64	G	C2-N3-C4	-5.46	109.17	111.90
85	5	89	A	O5'-P-OP1	5.46	117.25	110.70
85	5	107	A	N7-C8-N9	5.46	116.53	113.80
85	5	1072	G	C2-N3-C4	-5.46	109.17	111.90
85	5	1441	G	C6-C5-N7	-5.46	127.13	130.40
85	5	1689	U	C2-N3-C4	5.46	130.27	127.00
85	5	1895	A	O5'-P-OP2	5.46	117.25	110.70
85	5	2198	A	N1-C2-N3	5.46	132.03	129.30
85	5	2371	G	N7-C8-N9	-5.46	110.37	113.10
85	5	2852	C	OP1-P-OP2	5.46	127.78	119.60
37	7	37	G	C5-N7-C8	5.46	107.03	104.30
37	7	68	C	N3-C4-C5	-5.46	119.72	121.90
36	1	16	A	O5'-P-OP2	-5.46	100.79	105.70
36	1	416	A	O5'-P-OP1	5.46	117.25	110.70
36	1	1190	A	N1-C2-N3	-5.46	126.57	129.30
36	1	2222	A	C6-C5-N7	-5.46	128.48	132.30
36	1	2254	U	C4-C5-C6	5.46	122.97	119.70
36	1	2508	U	N3-C4-O4	5.46	123.22	119.40
36	1	2958	A	C5-C6-N1	5.46	120.43	117.70
80	6	195	G	N3-C2-N2	5.46	123.72	119.90
80	6	898	A	N9-C4-C5	5.46	107.98	105.80
80	6	917	U	N3-C4-O4	5.46	123.22	119.40
80	6	1384	A	N7-C8-N9	5.46	116.53	113.80
80	6	1572	G	N3-C2-N2	-5.46	116.08	119.90
85	5	1409	G	C6-N1-C2	-5.46	121.83	125.10
85	5	1479	U	OP1-P-O3'	5.46	117.20	105.20
1	2	207	U	C5-C4-O4	5.45	129.17	125.90
1	2	761	G	N3-C4-C5	5.45	131.33	128.60
1	2	968	G	C5-C6-N1	5.45	114.23	111.50
36	1	44	U	C2-N3-C4	-5.45	123.73	127.00
36	1	409	A	O5'-P-OP2	-5.45	100.79	105.70
36	1	661	G	P-O3'-C3'	5.45	126.24	119.70
36	1	1339	C	C4-C5-C6	5.45	120.13	117.40
36	1	1476	G	N1-C6-O6	-5.45	116.63	119.90
36	1	2522	G	C2-N3-C4	5.45	114.63	111.90
36	1	2929	C	C2-N1-C1'	5.45	124.80	118.80
36	1	2991	A	N1-C2-N3	5.45	132.03	129.30
36	1	3019	U	C6-N1-C2	-5.45	117.73	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3245	A	N3-C4-C5	5.45	130.62	126.80
36	1	3342	A	C2-N3-C4	-5.45	107.87	110.60
37	3	17	A	C4-C5-C6	5.45	119.73	117.00
38	4	3	A	N1-C6-N6	5.45	121.87	118.60
80	6	167	U	C6-N1-C2	-5.45	117.73	121.00
80	6	235	G	N7-C8-N9	5.45	115.83	113.10
80	6	553	G	N3-C2-N2	5.45	123.72	119.90
80	6	563	U	C5-C6-N1	5.45	125.43	122.70
80	6	1199	G	N9-C4-C5	-5.45	103.22	105.40
80	6	1356	U	N1-C2-O2	5.45	126.62	122.80
80	6	1518	C	O5'-P-OP2	5.45	117.25	110.70
85	5	116	A	C4-C5-N7	-5.45	107.97	110.70
85	5	291	C	N3-C4-N4	-5.45	114.18	118.00
85	5	705	A	C8-N9-C4	5.45	107.98	105.80
85	5	1174	G	O5'-P-OP2	5.45	117.24	110.70
85	5	1261	G	C5-C6-N1	5.45	114.23	111.50
85	5	1410	U	OP2-P-O3'	5.45	117.20	105.20
85	5	1419	A	N1-C6-N6	5.45	121.87	118.60
85	5	1611	G	C4-C5-C6	5.45	122.07	118.80
85	5	1744	G	OP2-P-O3'	5.45	117.20	105.20
85	5	2183	A	OP2-P-O3'	5.45	117.20	105.20
85	5	3244	A	C2-N3-C4	5.45	113.33	110.60
37	7	74	C	C5-C4-N4	5.45	124.02	120.20
38	8	16	G	O5'-P-OP1	5.45	117.24	110.70
1	2	23	G	N7-C8-N9	5.45	115.83	113.10
1	2	1489	G	C5-C6-N1	5.45	114.23	111.50
1	2	1583	A	C4-C5-N7	5.45	113.43	110.70
36	1	2386	A	C6-C5-N7	-5.45	128.48	132.30
80	6	102	U	N1-C2-O2	-5.45	118.98	122.80
80	6	159	U	N3-C2-O2	-5.45	118.38	122.20
80	6	444	C	O5'-P-OP2	5.45	117.24	110.70
85	5	214	G	C4-C5-N7	5.45	112.98	110.80
85	5	272	G	N1-C6-O6	-5.45	116.63	119.90
85	5	430	U	C2-N3-C4	-5.45	123.73	127.00
85	5	1059	G	C6-N1-C2	-5.45	121.83	125.10
85	5	1851	G	C4-C5-C6	5.45	122.07	118.80
85	5	3369	G	C4-C5-N7	5.45	112.98	110.80
1	2	361	C	P-O3'-C3'	5.45	126.24	119.70
1	2	525	A	C5-N7-C8	-5.45	101.17	103.90
1	2	1414	C	C4-C5-C6	-5.45	114.67	117.40
36	1	74	G	OP1-P-OP2	5.45	127.78	119.60
36	1	112	U	OP2-P-O3'	5.45	117.19	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	368	G	C5-C6-N1	-5.45	108.78	111.50
36	1	937	G	OP2-P-O3'	5.45	117.19	105.20
36	1	1581	C	C2-N1-C1'	5.45	124.79	118.80
36	1	1762	C	N3-C4-N4	5.45	121.82	118.00
36	1	2174	G	OP2-P-O3'	-5.45	93.21	105.20
36	1	2396	G	N1-C6-O6	5.45	123.17	119.90
36	1	3212	C	C2-N1-C1'	-5.45	112.80	118.80
37	3	79	A	C4-C5-C6	5.45	119.72	117.00
80	6	4	C	N1-C2-O2	5.45	122.17	118.90
80	6	443	C	N3-C4-C5	-5.45	119.72	121.90
80	6	1087	A	OP1-P-O3'	5.45	117.19	105.20
80	6	1724	U	N3-C4-C5	5.45	117.87	114.60
85	5	75	G	C6-C5-N7	-5.45	127.13	130.40
85	5	331	G	OP2-P-O3'	5.45	117.19	105.20
85	5	1043	C	C2-N3-C4	-5.45	117.17	119.90
85	5	1106	G	C6-C5-N7	-5.45	127.13	130.40
85	5	1418	A	N9-C4-C5	5.45	107.98	105.80
85	5	1728	G	C6-N1-C2	-5.45	121.83	125.10
85	5	2621	G	C5-C6-O6	-5.45	125.33	128.60
85	5	2853	A	OP2-P-O3'	5.45	117.19	105.20
85	5	2933	A	O5'-P-OP2	-5.45	100.80	105.70
85	5	2935	U	C2-N3-C4	5.45	130.27	127.00
85	5	3004	C	C5-C4-N4	-5.45	116.39	120.20
38	8	88	A	C2-N3-C4	-5.45	107.87	110.60
1	2	410	A	C4-C5-N7	5.45	113.42	110.70
1	2	743	A	C8-N9-C4	5.45	107.98	105.80
36	1	30	G	N3-C4-N9	-5.45	122.73	126.00
36	1	270	U	N3-C4-O4	5.45	123.21	119.40
36	1	926	A	N1-C6-N6	-5.45	115.33	118.60
36	1	1349	G	OP1-P-OP2	-5.45	111.43	119.60
36	1	1629	U	N3-C4-C5	-5.45	111.33	114.60
36	1	1720	U	C6-N1-C2	5.45	124.27	121.00
36	1	1882	G	N1-C2-N3	5.45	127.17	123.90
36	1	2281	A	N1-C6-N6	5.45	121.87	118.60
36	1	2399	A	OP1-P-OP2	-5.45	111.43	119.60
36	1	2847	A	N1-C2-N3	5.45	132.02	129.30
36	1	2976	A	C6-N1-C2	-5.45	115.33	118.60
36	1	3188	G	N3-C4-C5	5.45	131.32	128.60
80	6	92	A	N1-C6-N6	5.45	121.87	118.60
80	6	815	G	N1-C2-N3	-5.45	120.63	123.90
80	6	880	C	OP1-P-OP2	-5.45	111.43	119.60
80	6	1157	A	OP2-P-O3'	5.45	117.19	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1558	U	N3-C4-C5	-5.45	111.33	114.60
85	5	517	G	N1-C2-N2	-5.45	111.30	116.20
85	5	721	G	C8-N9-C4	-5.45	104.22	106.40
85	5	779	G	N1-C6-O6	5.45	123.17	119.90
85	5	780	A	C6-N1-C2	5.45	121.87	118.60
85	5	996	A	C4-C5-N7	-5.45	107.98	110.70
85	5	1212	A	C5-C6-N1	5.45	120.42	117.70
85	5	2224	A	O5'-P-OP2	-5.45	100.80	105.70
85	5	2269	U	O5'-P-OP1	-5.45	100.80	105.70
85	5	2654	C	N3-C4-C5	5.45	124.08	121.90
85	5	2908	G	C8-N9-C1'	5.45	134.08	127.00
1	2	103	A	N7-C8-N9	5.45	116.52	113.80
1	2	412	A	N9-C4-C5	5.45	107.98	105.80
1	2	577	G	C6-N1-C2	5.45	128.37	125.10
36	1	159	A	C6-C5-N7	-5.45	128.49	132.30
36	1	161	G	N9-C4-C5	-5.45	103.22	105.40
36	1	1180	A	N1-C6-N6	-5.45	115.33	118.60
36	1	2320	A	C5-C6-N6	5.45	128.06	123.70
36	1	2727	A	C5-C6-N6	5.45	128.06	123.70
36	1	3349	C	C2-N3-C4	5.45	122.62	119.90
38	4	31	G	OP1-P-OP2	5.45	127.77	119.60
38	4	55	U	OP2-P-O3'	-5.45	93.22	105.20
80	6	889	U	O5'-P-OP1	-5.45	100.80	105.70
80	6	1791	A	C2-N3-C4	-5.45	107.88	110.60
85	5	116	A	C5-C6-N6	5.45	128.06	123.70
85	5	2512	C	OP1-P-OP2	-5.45	111.43	119.60
37	7	81	U	N3-C4-C5	-5.45	111.33	114.60
36	1	251	G	C5-C6-N1	5.45	114.22	111.50
36	1	662	U	OP1-P-O3'	5.45	117.18	105.20
36	1	1427	U	C4-C5-C6	5.45	122.97	119.70
36	1	1552	G	N9-C4-C5	5.45	107.58	105.40
36	1	1909	A	N1-C6-N6	-5.45	115.33	118.60
36	1	2206	G	N3-C2-N2	5.45	123.71	119.90
36	1	2280	A	O5'-P-OP2	-5.45	100.80	105.70
36	1	2375	G	O5'-P-OP1	-5.45	100.80	105.70
36	1	2666	C	C6-N1-C2	-5.45	118.12	120.30
38	4	152	G	C4-C5-C6	5.45	122.07	118.80
80	6	21	U	C5-C4-O4	-5.45	122.63	125.90
80	6	94	U	C2-N1-C1'	-5.45	111.16	117.70
80	6	1175	U	OP1-P-OP2	5.45	127.77	119.60
85	5	14	U	N1-C2-N3	5.45	118.17	114.90
85	5	170	G	C4-C5-C6	5.45	122.07	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1185	C	O5'-P-OP1	5.45	117.23	110.70
85	5	1187	C	C4-C5-C6	-5.45	114.68	117.40
85	5	1273	A	N3-C4-C5	5.45	130.61	126.80
85	5	1637	A	O5'-P-OP1	5.45	117.23	110.70
85	5	2384	A	C8-N9-C4	-5.45	103.62	105.80
85	5	2610	G	C5-N7-C8	-5.45	101.58	104.30
85	5	2905	U	C2-N1-C1'	5.45	124.23	117.70
85	5	3087	A	C8-N9-C1'	-5.45	117.90	127.70
1	2	490	C	N3-C4-C5	-5.44	119.72	121.90
1	2	1249	U	N3-C4-O4	5.44	123.21	119.40
36	1	60	A	C8-N9-C4	-5.44	103.62	105.80
36	1	398	A	OP2-P-O3'	5.44	117.18	105.20
36	1	1370	G	C4-C5-C6	5.44	122.07	118.80
36	1	2306	C	C2-N3-C4	5.44	122.62	119.90
36	1	2906	C	OP1-P-O3'	-5.44	93.22	105.20
36	1	3099	C	N1-C2-O2	-5.44	115.63	118.90
36	1	3346	U	O5'-P-OP2	-5.44	100.80	105.70
80	6	842	C	C2-N3-C4	5.44	122.62	119.90
85	5	170	G	N3-C4-N9	5.44	129.27	126.00
85	5	200	C	OP1-P-O3'	5.44	117.18	105.20
85	5	1109	U	OP2-P-O3'	-5.44	93.22	105.20
85	5	1463	U	O5'-P-OP1	5.44	117.23	110.70
85	5	1739	U	C6-N1-C1'	5.44	128.82	121.20
85	5	2535	A	N9-C4-C5	-5.44	103.62	105.80
85	5	2602	G	C4-C5-C6	5.44	122.07	118.80
38	8	51	G	C6-C5-N7	-5.44	127.13	130.40
1	2	620	A	N1-C2-N3	5.44	132.02	129.30
1	2	1087	U	N3-C2-O2	5.44	126.01	122.20
36	1	494	G	C5-C6-O6	-5.44	125.33	128.60
36	1	912	G	N1-C2-N3	5.44	127.17	123.90
36	1	1071	U	C6-N1-C2	-5.44	117.73	121.00
36	1	1371	G	O4'-C1'-N9	-5.44	103.84	108.20
36	1	1548	C	C6-N1-C2	-5.44	118.12	120.30
36	1	1806	A	C5-C6-N6	-5.44	119.35	123.70
36	1	1949	G	N9-C4-C5	-5.44	103.22	105.40
36	1	2413	A	C6-N1-C2	-5.44	115.33	118.60
36	1	2759	U	C6-N1-C2	-5.44	117.73	121.00
36	1	2826	U	C5-C6-N1	5.44	125.42	122.70
36	1	3022	G	N3-C4-C5	-5.44	125.88	128.60
36	1	3027	A	C6-N1-C2	5.44	121.87	118.60
36	1	3084	C	N1-C2-N3	5.44	123.01	119.20
36	1	3332	U	C2-N3-C4	-5.44	123.73	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	2	G	C5-N7-C8	5.44	107.02	104.30
38	4	16	G	C6-C5-N7	5.44	133.66	130.40
69	O3	70	LYS	CD-CE-NZ	5.44	124.22	111.70
80	6	196	G	N9-C4-C5	-5.44	103.22	105.40
80	6	228	G	C5-N7-C8	5.44	107.02	104.30
80	6	286	C	C6-N1-C2	5.44	122.48	120.30
80	6	561	G	C4-C5-C6	5.44	122.06	118.80
80	6	581	U	O5'-P-OP2	-5.44	100.80	105.70
85	5	143	G	N1-C6-O6	5.44	123.17	119.90
85	5	206	G	O4'-C1'-N9	5.44	112.55	108.20
85	5	760	G	C5-C6-O6	-5.44	125.33	128.60
85	5	1900	A	OP1-P-OP2	5.44	127.77	119.60
85	5	2593	A	C5-C6-N6	-5.44	119.34	123.70
85	5	2608	G	C6-C5-N7	-5.44	127.14	130.40
85	5	2755	C	N3-C4-C5	-5.44	119.72	121.90
85	5	2906	C	C2-N3-C4	-5.44	117.18	119.90
85	5	2996	U	C5-C4-O4	5.44	129.17	125.90
85	5	3110	C	OP1-P-OP2	-5.44	111.44	119.60
37	7	64	A	C6-C5-N7	5.44	136.11	132.30
38	8	79	A	C6-C5-N7	-5.44	128.49	132.30
1	2	358	U	N3-C2-O2	-5.44	118.39	122.20
1	2	623	A	C4-C5-N7	-5.44	107.98	110.70
1	2	1315	C	OP2-P-O3'	5.44	117.17	105.20
1	2	1589	C	N1-C2-O2	5.44	122.17	118.90
36	1	376	G	N3-C4-N9	-5.44	122.74	126.00
36	1	650	C	C6-N1-C2	-5.44	118.12	120.30
36	1	1711	C	C6-N1-C2	-5.44	118.12	120.30
36	1	1768	U	O5'-P-OP1	5.44	117.23	110.70
36	1	2106	A	N9-C4-C5	-5.44	103.62	105.80
36	1	3039	C	O5'-P-OP1	5.44	117.23	110.70
36	1	3104	U	C6-N1-C1'	-5.44	113.58	121.20
36	1	3113	A	C4-C5-C6	5.44	119.72	117.00
36	1	3374	U	C6-N1-C2	5.44	124.26	121.00
37	3	80	G	OP2-P-O3'	5.44	117.17	105.20
68	O2	22	SER	CA-CB-OG	-5.44	96.51	111.20
71	O5	10	ARG	NE-CZ-NH1	5.44	123.02	120.30
80	6	199	G	C4-C5-N7	5.44	112.98	110.80
80	6	410	A	N7-C8-N9	5.44	116.52	113.80
80	6	890	C	N3-C4-N4	-5.44	114.19	118.00
80	6	1014	G	C4-N9-C1'	5.44	133.57	126.50
80	6	1671	A	C6-N1-C2	-5.44	115.34	118.60
85	5	80	G	N3-C4-C5	5.44	131.32	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	828	A	C5-C6-N1	-5.44	114.98	117.70
85	5	1000	C	C5-C6-N1	-5.44	118.28	121.00
85	5	2653	C	C6-N1-C2	-5.44	118.12	120.30
85	5	2874	G	C5-C6-N1	-5.44	108.78	111.50
85	5	3278	C	N1-C2-N3	-5.44	115.39	119.20
85	5	3327	G	N1-C2-N2	5.44	121.10	116.20
38	8	44	A	C5-N7-C8	-5.44	101.18	103.90
38	8	75	G	N3-C2-N2	-5.44	116.09	119.90
1	2	836	G	C5-C6-N1	-5.44	108.78	111.50
36	1	522	A	OP1-P-OP2	-5.44	111.44	119.60
36	1	1087	G	C5-C6-N1	-5.44	108.78	111.50
36	1	1101	G	N7-C8-N9	-5.44	110.38	113.10
36	1	1882	G	C8-N9-C4	-5.44	104.22	106.40
36	1	3212	C	N3-C4-N4	-5.44	114.19	118.00
37	3	38	U	P-O3'-C3'	-5.44	113.17	119.70
80	6	9	U	N3-C2-O2	5.44	126.01	122.20
80	6	139	C	N1-C2-O2	5.44	122.16	118.90
80	6	408	C	N1-C2-N3	5.44	123.01	119.20
85	5	681	U	C2-N1-C1'	5.44	124.23	117.70
85	5	785	G	C4-C5-N7	5.44	112.98	110.80
37	7	33	U	C5-C6-N1	-5.44	119.98	122.70
1	2	201	G	C8-N9-C4	5.44	108.58	106.40
1	2	965	U	C5-C4-O4	5.44	129.16	125.90
1	2	1101	G	N3-C2-N2	-5.44	116.09	119.90
36	1	322	U	C4-C5-C6	5.44	122.96	119.70
36	1	1658	G	N7-C8-N9	5.44	115.82	113.10
36	1	2317	A	C6-N1-C2	-5.44	115.34	118.60
80	6	100	A	N7-C8-N9	-5.44	111.08	113.80
80	6	106	U	N1-C2-N3	-5.44	111.64	114.90
80	6	171	A	O5'-P-OP2	-5.44	100.81	105.70
80	6	219	A	C8-N9-C4	5.44	107.97	105.80
80	6	881	A	C5-N7-C8	-5.44	101.18	103.90
80	6	994	G	N7-C8-N9	5.44	115.82	113.10
80	6	1116	A	OP2-P-O3'	5.44	117.16	105.20
80	6	1119	G	C5-C6-O6	-5.44	125.34	128.60
80	6	1258	U	N3-C2-O2	-5.44	118.39	122.20
80	6	1748	G	C8-N9-C1'	-5.44	119.93	127.00
85	5	53	G	C5-C6-O6	5.44	131.86	128.60
85	5	2524	A	C6-C5-N7	-5.44	128.49	132.30
85	5	2690	G	C5-C6-N1	5.44	114.22	111.50
85	5	3084	C	C4-C5-C6	-5.44	114.68	117.40
1	2	1162	G	C5-N7-C8	-5.44	101.58	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	157	A	N1-C2-N3	5.44	132.02	129.30
36	1	331	G	N3-C4-C5	-5.44	125.88	128.60
36	1	1408	G	N9-C1'-C2'	-5.44	106.02	112.00
36	1	2316	G	N1-C2-N3	5.44	127.16	123.90
36	1	2832	C	OP2-P-O3'	5.44	117.16	105.20
36	1	3305	A	O5'-P-OP2	5.44	117.22	110.70
37	3	69	C	N3-C2-O2	-5.44	118.09	121.90
80	6	703	G	C4-C5-C6	5.44	122.06	118.80
80	6	1068	C	N1-C2-N3	-5.44	115.39	119.20
80	6	1176	G	N1-C6-O6	-5.44	116.64	119.90
80	6	1329	A	C8-N9-C4	-5.44	103.62	105.80
85	5	415	G	O5'-P-OP2	5.44	117.22	110.70
1	2	969	G	C5-C6-O6	5.43	131.86	128.60
1	2	1562	U	C2-N3-C4	-5.43	123.74	127.00
36	1	41	G	C4-C5-C6	5.43	122.06	118.80
36	1	397	A	C4-C5-N7	-5.43	107.98	110.70
36	1	417	A	N9-C4-C5	-5.43	103.63	105.80
36	1	554	A	N1-C6-N6	-5.43	115.34	118.60
36	1	563	U	N3-C4-C5	-5.43	111.34	114.60
36	1	1220	U	N3-C4-O4	5.43	123.20	119.40
36	1	1444	G	C2-N3-C4	-5.43	109.18	111.90
36	1	1807	G	C4-C5-C6	5.43	122.06	118.80
36	1	2149	A	C5-N7-C8	5.43	106.62	103.90
36	1	2778	G	N9-C4-C5	-5.43	103.23	105.40
36	1	2892	A	N1-C6-N6	-5.43	115.34	118.60
36	1	3015	G	C5-C6-O6	-5.43	125.34	128.60
38	4	66	A	C4-C5-C6	5.43	119.72	117.00
38	4	106	C	C2-N3-C4	-5.43	117.18	119.90
80	6	239	C	C2-N3-C4	5.43	122.62	119.90
80	6	390	G	C6-C5-N7	-5.43	127.14	130.40
80	6	577	G	N3-C2-N2	-5.43	116.10	119.90
80	6	707	A	N1-C6-N6	5.43	121.86	118.60
80	6	822	U	C5-C6-N1	5.43	125.42	122.70
80	6	1187	U	C5-C6-N1	5.43	125.42	122.70
85	5	213	A	OP2-P-O3'	5.43	117.16	105.20
85	5	875	G	N3-C2-N2	-5.43	116.10	119.90
85	5	1165	A	OP1-P-O3'	5.43	117.16	105.20
85	5	1458	U	N1-C2-N3	5.43	118.16	114.90
85	5	1482	A	C5-C6-N1	-5.43	114.98	117.70
85	5	2112	U	C6-N1-C2	-5.43	117.74	121.00
85	5	2833	A	N7-C8-N9	-5.43	111.08	113.80
85	5	3303	G	C4-C5-C6	-5.43	115.54	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	145	U	N3-C4-O4	5.43	123.20	119.40
1	2	469	C	C5-C6-N1	-5.43	118.28	121.00
1	2	613	G	C8-N9-C4	-5.43	104.23	106.40
1	2	1372	C	N3-C4-N4	-5.43	114.20	118.00
1	2	1439	C	N3-C2-O2	-5.43	118.10	121.90
36	1	99	A	O4'-C1'-N9	5.43	112.55	108.20
36	1	1059	G	N9-C4-C5	-5.43	103.23	105.40
36	1	1141	C	OP2-P-O3'	5.43	117.15	105.20
36	1	1171	G	N3-C4-C5	-5.43	125.88	128.60
36	1	1238	C	C6-N1-C2	-5.43	118.13	120.30
36	1	3183	A	N1-C2-N3	5.43	132.02	129.30
37	3	96	U	C6-N1-C2	-5.43	117.74	121.00
38	4	15	G	OP1-P-OP2	-5.43	111.45	119.60
53	M7	53	ASP	CB-CG-OD1	-5.43	113.41	118.30
80	6	436	A	C6-N1-C2	-5.43	115.34	118.60
80	6	634	G	N9-C4-C5	5.43	107.57	105.40
80	6	788	A	C8-N9-C4	5.43	107.97	105.80
80	6	871	G	N3-C4-C5	5.43	131.32	128.60
85	5	20	A	N1-C2-N3	5.43	132.02	129.30
85	5	352	A	O4'-C1'-N9	5.43	112.55	108.20
85	5	791	A	N9-C4-C5	-5.43	103.63	105.80
85	5	875	G	N7-C8-N9	5.43	115.82	113.10
85	5	1643	A	N7-C8-N9	5.43	116.52	113.80
85	5	1759	C	C2-N3-C4	5.43	122.62	119.90
85	5	2406	C	N1-C2-N3	5.43	123.00	119.20
38	8	137	C	N3-C2-O2	5.43	125.70	121.90
1	2	362	G	N1-C6-O6	5.43	123.16	119.90
1	2	1248	G	N3-C2-N2	-5.43	116.10	119.90
1	2	1498	A	C5-C6-N1	5.43	120.42	117.70
36	1	26	A	C4-C5-N7	-5.43	107.98	110.70
36	1	651	G	N9-C4-C5	5.43	107.57	105.40
36	1	1313	G	C5-C6-N1	5.43	114.22	111.50
36	1	1688	U	C4-C5-C6	5.43	122.96	119.70
36	1	1903	U	C5-C6-N1	5.43	125.42	122.70
36	1	2253	G	C5-C6-O6	-5.43	125.34	128.60
36	1	2271	A	N3-C4-N9	-5.43	123.06	127.40
80	6	18	C	N3-C4-C5	-5.43	119.73	121.90
80	6	1058	U	OP1-P-O3'	5.43	117.15	105.20
85	5	36	C	N1-C2-O2	5.43	122.16	118.90
85	5	853	G	C5-N7-C8	-5.43	101.58	104.30
85	5	1373	A	OP1-P-O3'	-5.43	93.25	105.20
85	5	1787	A	C2-N3-C4	-5.43	107.88	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2214	A	O5'-P-OP1	5.43	117.22	110.70
85	5	2334	U	OP1-P-O3'	5.43	117.15	105.20
85	5	2560	C	N3-C4-N4	5.43	121.80	118.00
85	5	3143	C	OP1-P-OP2	5.43	127.75	119.60
1	2	815	U	C5-C6-N1	-5.43	119.98	122.70
1	2	847	U	C6-N1-C2	-5.43	117.74	121.00
1	2	1129	G	C2-N3-C4	-5.43	109.19	111.90
1	2	1706	U	N3-C4-O4	5.43	123.20	119.40
36	1	340	C	OP2-P-O3'	5.43	117.14	105.20
36	1	1022	U	N1-C2-O2	5.43	126.60	122.80
36	1	2392	C	C2-N3-C4	5.43	122.61	119.90
36	1	2723	U	P-O3'-C3'	-5.43	113.18	119.70
36	1	3320	A	N7-C8-N9	5.43	116.52	113.80
36	1	3337	G	OP2-P-O3'	5.43	117.14	105.20
37	3	60	G	C5-C6-N1	-5.43	108.78	111.50
80	6	366	A	N1-C6-N6	-5.43	115.34	118.60
80	6	560	U	C5-C4-O4	-5.43	122.64	125.90
80	6	1360	A	C5-C6-N1	5.43	120.42	117.70
80	6	1527	C	N3-C2-O2	5.43	125.70	121.90
80	6	1535	U	O5'-P-OP2	-5.43	100.81	105.70
80	6	1735	U	N3-C4-O4	-5.43	115.60	119.40
85	5	402	A	N1-C2-N3	5.43	132.01	129.30
85	5	1184	A	C6-C5-N7	5.43	136.10	132.30
85	5	1830	G	C5-C6-N1	-5.43	108.78	111.50
85	5	2881	C	O5'-P-OP1	-5.43	100.81	105.70
85	5	2908	G	N1-C2-N3	-5.43	120.64	123.90
85	5	3003	G	N3-C4-C5	5.43	131.31	128.60
85	5	3081	C	N1-C2-N3	5.43	123.00	119.20
85	5	3112	G	N3-C2-N2	-5.43	116.10	119.90
85	5	3200	G	O4'-C1'-N9	5.43	112.54	108.20
37	7	45	A	OP1-P-O3'	5.43	117.15	105.20
37	7	115	G	C6-C5-N7	-5.43	127.14	130.40
1	2	861	G	N1-C6-O6	5.43	123.16	119.90
36	1	883	A	O5'-P-OP2	-5.43	100.81	105.70
36	1	1561	G	N3-C4-C5	5.43	131.31	128.60
36	1	2582	C	C2-N1-C1'	5.43	124.77	118.80
36	1	3214	U	C6-N1-C2	-5.43	117.74	121.00
38	4	4	C	N1-C2-O2	-5.43	115.64	118.90
38	4	28	C	N3-C2-O2	-5.43	118.10	121.90
80	6	1617	U	O5'-P-OP1	5.43	117.21	110.70
85	5	214	G	C5-N7-C8	-5.43	101.59	104.30
85	5	1448	U	C4-C5-C6	5.43	122.96	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1902	G	OP2-P-O3'	5.43	117.14	105.20
85	5	2174	G	C2-N3-C4	-5.43	109.19	111.90
85	5	2741	C	C2-N3-C4	-5.43	117.19	119.90
85	5	3134	A	OP2-P-O3'	5.43	117.14	105.20
1	2	1139	C	OP1-P-O3'	5.43	117.14	105.20
1	2	1291	G	C4-C5-C6	5.43	122.06	118.80
1	2	1384	A	N1-C6-N6	-5.43	115.34	118.60
36	1	1283	C	C4-C5-C6	5.43	120.11	117.40
36	1	1578	C	OP1-P-OP2	5.43	127.74	119.60
36	1	1704	A	C5-C6-N1	5.43	120.41	117.70
36	1	1932	A	N1-C2-N3	5.43	132.01	129.30
36	1	2261	G	N1-C2-N3	5.43	127.16	123.90
36	1	2436	U	O5'-P-OP2	-5.43	100.82	105.70
36	1	2628	A	OP1-P-O3'	5.43	117.14	105.20
38	4	75	G	N1-C2-N3	5.43	127.16	123.90
80	6	816	G	N9-C4-C5	-5.43	103.23	105.40
80	6	1698	G	C8-N9-C4	5.43	108.57	106.40
85	5	803	C	N3-C4-N4	5.43	121.80	118.00
85	5	1131	G	C6-N1-C2	5.43	128.36	125.10
85	5	1217	A	O5'-P-OP2	5.43	117.21	110.70
85	5	1317	A	C6-C5-N7	-5.43	128.50	132.30
85	5	1406	A	C8-N9-C4	-5.43	103.63	105.80
85	5	1728	G	N3-C4-C5	-5.43	125.89	128.60
85	5	2224	A	C6-N1-C2	-5.43	115.34	118.60
85	5	2313	A	OP2-P-O3'	5.43	117.14	105.20
85	5	2678	A	O5'-P-OP1	5.43	117.21	110.70
85	5	2883	U	C5-C6-N1	-5.43	119.99	122.70
85	5	3075	G	N1-C2-N2	-5.43	111.32	116.20
37	7	109	G	C5-C6-N1	-5.43	108.79	111.50
42	15	15	ARG	NE-CZ-NH1	-5.43	117.59	120.30
1	2	243	G	OP1-P-OP2	-5.42	111.46	119.60
1	2	786	A	C8-N9-C4	-5.42	103.63	105.80
1	2	810	C	C5-C4-N4	-5.42	116.40	120.20
1	2	1566	A	N7-C8-N9	-5.42	111.09	113.80
36	1	163	C	N1-C2-O2	5.42	122.15	118.90
36	1	248	U	OP2-P-O3'	5.42	117.14	105.20
36	1	390	G	C5-C6-O6	-5.42	125.34	128.60
36	1	1009	A	C5-C6-N6	5.42	128.04	123.70
36	1	1391	C	C6-N1-C1'	-5.42	114.29	120.80
36	1	1468	A	OP1-P-OP2	5.42	127.74	119.60
36	1	2242	A	C5-C6-N6	-5.42	119.36	123.70
36	1	2428	U	N1-C2-N3	5.42	118.15	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2900	A	C4-C5-N7	5.42	113.41	110.70
36	1	2942	C	N3-C2-O2	5.42	125.70	121.90
38	4	96	A	N1-C6-N6	-5.42	115.34	118.60
80	6	167	U	N3-C2-O2	-5.42	118.40	122.20
80	6	198	A	C2-N3-C4	5.42	113.31	110.60
80	6	955	A	OP2-P-O3'	5.42	117.13	105.20
80	6	1314	U	N3-C4-C5	5.42	117.86	114.60
80	6	1455	G	N3-C2-N2	-5.42	116.10	119.90
80	6	1755	A	C4-N9-C1'	5.42	136.06	126.30
85	5	191	U	C5-C6-N1	-5.42	119.99	122.70
85	5	684	G	N9-C4-C5	5.42	107.57	105.40
85	5	1104	G	N7-C8-N9	5.42	115.81	113.10
85	5	3030	G	N1-C2-N3	5.42	127.16	123.90
85	5	3280	U	C5-C6-N1	-5.42	119.99	122.70
36	1	33	G	OP2-P-O3'	5.42	117.13	105.20
36	1	386	A	OP1-P-OP2	5.42	127.73	119.60
36	1	956	U	C6-N1-C2	-5.42	117.75	121.00
37	3	85	G	C2-N3-C4	5.42	114.61	111.90
38	4	61	A	C4-C5-C6	5.42	119.71	117.00
38	4	90	U	C4-C5-C6	5.42	122.95	119.70
80	6	229	U	C6-N1-C2	-5.42	117.75	121.00
80	6	1747	G	C2-N3-C4	-5.42	109.19	111.90
85	5	295	A	O4'-C1'-N9	-5.42	103.86	108.20
85	5	2185	G	OP2-P-O3'	5.42	117.13	105.20
85	5	2898	G	C6-N1-C2	5.42	128.35	125.10
85	5	3015	G	C5-N7-C8	5.42	107.01	104.30
85	5	3138	U	C5-C4-O4	-5.42	122.65	125.90
85	5	3273	A	N9-C4-C5	5.42	107.97	105.80
1	2	728	U	C4-C5-C6	5.42	122.95	119.70
1	2	1297	U	C6-N1-C2	-5.42	117.75	121.00
1	2	1337	G	N7-C8-N9	5.42	115.81	113.10
1	2	1542	A	C6-C5-N7	-5.42	128.51	132.30
36	1	333	G	C2-N3-C4	-5.42	109.19	111.90
36	1	380	U	O5'-P-OP2	5.42	117.21	110.70
36	1	537	A	OP2-P-O3'	5.42	117.13	105.20
36	1	583	G	C5-C6-O6	5.42	131.85	128.60
36	1	626	U	C4-C5-C6	5.42	122.95	119.70
36	1	1128	U	C6-N1-C2	5.42	124.25	121.00
36	1	2770	G	N9-C4-C5	5.42	107.57	105.40
38	4	88	A	O5'-P-OP1	-5.42	100.82	105.70
80	6	792	U	O4'-C1'-N1	5.42	112.54	108.20
80	6	1062	A	N1-C6-N6	5.42	121.85	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	718	G	N3-C4-N9	5.42	129.25	126.00
85	5	911	C	OP2-P-O3'	5.42	117.13	105.20
85	5	1585	C	O5'-P-OP2	-5.42	100.82	105.70
85	5	2109	U	N3-C2-O2	5.42	126.00	122.20
85	5	2145	A	C6-C5-N7	-5.42	128.50	132.30
85	5	2193	U	N3-C4-C5	5.42	117.85	114.60
85	5	2210	G	N9-C4-C5	5.42	107.57	105.40
85	5	2944	U	P-O3'-C3'	-5.42	113.19	119.70
85	5	3044	G	C5-C6-N1	-5.42	108.79	111.50
85	5	3067	C	N1-C2-N3	5.42	123.00	119.20
74	o8	68	SER	C-N-CA	5.42	135.25	121.70
1	2	459	G	C8-N9-C4	-5.42	104.23	106.40
36	1	866	A	N9-C4-C5	-5.42	103.63	105.80
36	1	1005	G	N3-C4-C5	5.42	131.31	128.60
36	1	1314	C	OP2-P-O3'	5.42	117.12	105.20
36	1	1900	A	N9-C4-C5	5.42	107.97	105.80
36	1	2223	A	C4-C5-C6	5.42	119.71	117.00
36	1	2808	A	N3-C4-C5	5.42	130.59	126.80
36	1	3159	C	C5-C4-N4	5.42	123.99	120.20
80	6	511	A	C4-C5-C6	-5.42	114.29	117.00
80	6	1095	U	O5'-P-OP2	-5.42	100.82	105.70
80	6	1383	G	C5-N7-C8	-5.42	101.59	104.30
80	6	1768	G	N7-C8-N9	-5.42	110.39	113.10
85	5	735	A	C8-N9-C4	5.42	107.97	105.80
85	5	779	G	N7-C8-N9	5.42	115.81	113.10
85	5	1172	G	C6-C5-N7	-5.42	127.15	130.40
85	5	1436	U	N1-C2-N3	5.42	118.15	114.90
85	5	2849	C	N3-C4-N4	5.42	121.79	118.00
85	5	3072	C	OP2-P-O3'	5.42	117.12	105.20
85	5	3324	C	C6-N1-C2	5.42	122.47	120.30
1	2	745	A	N9-C4-C5	5.42	107.97	105.80
1	2	953	A	N1-C6-N6	-5.42	115.35	118.60
1	2	1534	U	C5-C6-N1	5.42	125.41	122.70
1	2	1577	G	N7-C8-N9	-5.42	110.39	113.10
36	1	31	C	OP2-P-O3'	5.42	117.12	105.20
36	1	56	G	N3-C4-C5	5.42	131.31	128.60
36	1	329	U	OP2-P-O3'	5.42	117.12	105.20
36	1	557	A	C8-N9-C4	5.42	107.97	105.80
36	1	690	A	C5-C6-N1	-5.42	114.99	117.70
36	1	1163	A	O5'-P-OP2	-5.42	100.82	105.70
36	1	2233	A	C6-N1-C2	5.42	121.85	118.60
36	1	2239	G	N1-C2-N3	-5.42	120.65	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2398	A	C8-N9-C4	-5.42	103.63	105.80
36	1	3184	A	N3-C4-N9	5.42	131.73	127.40
37	3	39	C	C5-C4-N4	5.42	123.99	120.20
37	3	77	G	C5-C6-N1	-5.42	108.79	111.50
38	4	74	U	O5'-P-OP1	-5.42	100.82	105.70
80	6	206	A	OP2-P-O3'	5.42	117.12	105.20
80	6	512	A	O4'-C1'-N9	5.42	112.53	108.20
80	6	761	G	N3-C2-N2	5.42	123.69	119.90
80	6	1222	C	C6-N1-C2	-5.42	118.13	120.30
85	5	583	G	N3-C2-N2	-5.42	116.11	119.90
85	5	1022	U	N3-C4-C5	5.42	117.85	114.60
85	5	1058	U	N1-C2-O2	-5.42	119.01	122.80
85	5	1325	U	C5-C4-O4	5.42	129.15	125.90
85	5	1403	C	C4-C5-C6	5.42	120.11	117.40
1	2	298	C	O5'-P-OP1	-5.42	100.83	105.70
1	2	322	G	C6-N1-C2	-5.42	121.85	125.10
1	2	938	A	C2-N3-C4	-5.42	107.89	110.60
1	2	1163	C	O5'-P-OP2	-5.42	100.83	105.70
1	2	1706	U	N1-C2-O2	-5.42	119.01	122.80
36	1	420	G	C5-C6-N1	5.42	114.21	111.50
36	1	688	G	C5-C6-O6	5.42	131.85	128.60
36	1	1127	G	C2-N3-C4	5.42	114.61	111.90
36	1	1664	G	OP1-P-OP2	-5.42	111.48	119.60
36	1	2134	G	N1-C2-N3	5.42	127.15	123.90
36	1	2143	A	C5-N7-C8	-5.42	101.19	103.90
36	1	2322	C	N3-C4-N4	-5.42	114.21	118.00
38	4	124	G	C4-C5-C6	5.42	122.05	118.80
46	L9	130	ASP	CB-CG-OD1	-5.42	113.43	118.30
80	6	1012	U	OP1-P-OP2	-5.42	111.48	119.60
80	6	1122	G	O5'-P-OP1	-5.42	100.83	105.70
80	6	1124	A	C4-C5-C6	-5.42	114.29	117.00
80	6	1432	U	C5-C6-N1	-5.42	119.99	122.70
85	5	672	A	OP2-P-O3'	5.42	117.11	105.20
85	5	806	A	C4-C5-C6	5.42	119.71	117.00
85	5	887	G	C2-N3-C4	5.42	114.61	111.90
85	5	3184	A	N7-C8-N9	5.42	116.51	113.80
1	2	16	G	C8-N9-C4	-5.42	104.23	106.40
1	2	342	C	C5-C4-N4	-5.42	116.41	120.20
1	2	1610	U	C5-C6-N1	5.42	125.41	122.70
36	1	1643	A	N3-C4-N9	5.42	131.73	127.40
36	1	2321	A	C8-N9-C4	5.42	107.97	105.80
36	1	2800	G	N9-C4-C5	5.42	107.57	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	21	G	N9-C4-C5	-5.42	103.23	105.40
80	6	1	U	N1-C2-O2	5.42	126.59	122.80
80	6	980	G	OP1-P-OP2	-5.42	111.48	119.60
85	5	709	A	N1-C2-N3	5.42	132.01	129.30
85	5	892	U	C4-C5-C6	5.42	122.95	119.70
85	5	1298	C	N3-C4-N4	5.42	121.79	118.00
85	5	1505	C	C6-N1-C2	-5.42	118.13	120.30
85	5	1758	G	N1-C2-N3	-5.42	120.65	123.90
85	5	2110	G	C8-N9-C4	5.42	108.57	106.40
85	5	3193	C	O5'-P-OP1	5.42	117.20	110.70
36	1	16	A	N1-C6-N6	5.41	121.85	118.60
36	1	376	G	OP1-P-O3'	-5.41	93.29	105.20
36	1	735	A	O4'-C1'-N9	-5.41	103.87	108.20
36	1	805	G	N3-C4-C5	-5.41	125.89	128.60
36	1	1187	C	OP2-P-O3'	5.41	117.11	105.20
36	1	1484	U	C5-C6-N1	-5.41	119.99	122.70
36	1	1834	U	OP1-P-O3'	5.41	117.11	105.20
36	1	2411	U	O5'-P-OP2	-5.41	100.83	105.70
36	1	3359	A	N1-C6-N6	5.41	121.85	118.60
37	3	42	A	N1-C2-N3	5.41	132.01	129.30
47	M0	24	ARG	NE-CZ-NH2	-5.41	117.59	120.30
80	6	86	A	OP2-P-O3'	5.41	117.11	105.20
80	6	287	G	O5'-P-OP2	5.41	117.19	110.70
80	6	522	U	N3-C4-O4	-5.41	115.61	119.40
85	5	246	U	C2-N3-C4	-5.41	123.75	127.00
85	5	391	A	P-O3'-C3'	-5.41	113.20	119.70
85	5	723	U	N3-C2-O2	5.41	125.99	122.20
85	5	1117	G	C6-C5-N7	-5.41	127.15	130.40
85	5	1291	A	C5-C6-N6	-5.41	119.37	123.70
85	5	1335	C	OP2-P-O3'	5.41	117.11	105.20
85	5	1793	C	N3-C2-O2	5.41	125.69	121.90
85	5	1911	A	N7-C8-N9	-5.41	111.09	113.80
37	7	17	A	N3-C4-C5	5.41	130.59	126.80
1	2	122	U	C5-C6-N1	5.41	125.41	122.70
1	2	755	G	C6-C5-N7	-5.41	127.15	130.40
36	1	173	G	OP1-P-OP2	5.41	127.72	119.60
36	1	266	A	C5-C6-N1	5.41	120.41	117.70
36	1	1509	A	C8-N9-C4	-5.41	103.64	105.80
36	1	3272	C	C4-C5-C6	-5.41	114.69	117.40
36	1	3380	U	C2-N3-C4	5.41	130.25	127.00
37	3	72	A	C8-N9-C4	5.41	107.97	105.80
54	M8	54	LEU	CB-CG-CD2	-5.41	101.80	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	117	U	N3-C2-O2	5.41	125.99	122.20
80	6	445	A	C6-N1-C2	5.41	121.85	118.60
80	6	553	G	C8-N9-C4	-5.41	104.23	106.40
80	6	765	G	C5-C6-O6	5.41	131.85	128.60
85	5	813	G	O5'-P-OP2	-5.41	100.83	105.70
85	5	1774	C	OP2-P-O3'	5.41	117.11	105.20
85	5	2843	U	O4'-C1'-N1	5.41	112.53	108.20
38	8	39	G	C6-N1-C2	-5.41	121.85	125.10
1	2	421	A	OP1-P-OP2	-5.41	111.48	119.60
1	2	602	U	N3-C4-C5	-5.41	111.35	114.60
1	2	635	A	OP2-P-O3'	5.41	117.10	105.20
1	2	1391	G	C6-C5-N7	-5.41	127.15	130.40
36	1	199	A	N1-C2-N3	5.41	132.00	129.30
36	1	767	U	N3-C4-C5	-5.41	111.35	114.60
36	1	878	G	C4-C5-C6	5.41	122.05	118.80
36	1	1564	U	N1-C2-O2	5.41	126.59	122.80
36	1	2602	G	C5-N7-C8	5.41	107.00	104.30
36	1	2754	G	C6-N1-C2	-5.41	121.85	125.10
36	1	2875	U	C6-N1-C2	-5.41	117.75	121.00
38	4	36	G	N3-C4-C5	5.41	131.31	128.60
80	6	18	C	OP1-P-OP2	5.41	127.72	119.60
80	6	204	G	N1-C2-N3	-5.41	120.65	123.90
80	6	249	U	C2-N3-C4	-5.41	123.75	127.00
80	6	375	U	C4-C5-C6	5.41	122.95	119.70
80	6	613	G	N3-C4-C5	-5.41	125.89	128.60
80	6	1450	U	C6-N1-C2	5.41	124.25	121.00
85	5	79	U	C5-C4-O4	5.41	129.15	125.90
85	5	331	G	N1-C2-N3	5.41	127.15	123.90
85	5	357	A	C4-C5-N7	-5.41	108.00	110.70
85	5	1335	C	C4-C5-C6	-5.41	114.69	117.40
85	5	2303	A	N1-C2-N3	5.41	132.01	129.30
85	5	2364	G	C5-C6-O6	-5.41	125.35	128.60
85	5	2393	G	N7-C8-N9	5.41	115.81	113.10
85	5	3123	A	OP2-P-O3'	5.41	117.10	105.20
85	5	3297	U	N1-C2-N3	5.41	118.15	114.90
1	2	763	A	N1-C2-N3	5.41	132.00	129.30
1	2	778	U	C2-N3-C4	-5.41	123.75	127.00
1	2	1180	C	N3-C2-O2	-5.41	118.11	121.90
36	1	215	G	N1-C2-N2	5.41	121.07	116.20
36	1	562	C	C2-N3-C4	-5.41	117.19	119.90
36	1	639	G	OP1-P-OP2	-5.41	111.49	119.60
36	1	784	A	C5-N7-C8	5.41	106.60	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2830	G	N3-C2-N2	-5.41	116.11	119.90
37	3	58	C	N3-C4-N4	5.41	121.79	118.00
80	6	102	U	C5-C6-N1	5.41	125.40	122.70
80	6	367	A	N1-C2-N3	5.41	132.00	129.30
80	6	912	U	C5-C6-N1	5.41	125.41	122.70
80	6	976	G	OP1-P-O3'	5.41	117.10	105.20
80	6	1783	C	C2-N1-C1'	5.41	124.75	118.80
85	5	182	U	C5-C6-N1	5.41	125.40	122.70
85	5	930	U	C2-N1-C1'	-5.41	111.21	117.70
85	5	945	C	C6-N1-C1'	-5.41	114.31	120.80
85	5	1916	U	O5'-P-OP2	-5.41	100.83	105.70
85	5	2224	A	C8-N9-C4	5.41	107.96	105.80
85	5	2917	G	C6-C5-N7	-5.41	127.16	130.40
85	5	3318	G	C4-C5-N7	-5.41	108.64	110.80
37	7	57	G	OP2-P-O3'	5.41	117.10	105.20
37	7	65	G	N1-C2-N2	5.41	121.07	116.20
37	7	72	A	C6-N1-C2	-5.41	115.36	118.60
38	8	17	A	O5'-P-OP1	5.41	117.19	110.70
40	13	348	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	2	1	U	C5-C6-N1	5.41	125.40	122.70
36	1	186	U	O5'-P-OP2	5.41	117.19	110.70
36	1	297	G	C8-N9-C4	5.41	108.56	106.40
36	1	1760	A	O5'-P-OP1	-5.41	100.83	105.70
36	1	2844	C	OP1-P-OP2	5.41	127.71	119.60
38	4	47	C	C5-C4-N4	5.41	123.98	120.20
80	6	1449	U	C6-N1-C2	-5.41	117.76	121.00
85	5	327	A	C6-N1-C2	-5.41	115.36	118.60
85	5	791	A	C8-N9-C4	5.41	107.96	105.80
85	5	1589	A	N1-C2-N3	-5.41	126.60	129.30
85	5	1627	U	C4-C5-C6	5.41	122.94	119.70
85	5	1685	C	C5-C6-N1	5.41	123.70	121.00
85	5	2937	G	C5-N7-C8	-5.41	101.60	104.30
1	2	1297	U	O5'-P-OP1	-5.41	100.83	105.70
36	1	331	G	OP1-P-OP2	5.41	127.71	119.60
36	1	1203	A	C6-C5-N7	5.41	136.08	132.30
36	1	1488	G	C4-C5-N7	-5.41	108.64	110.80
36	1	1513	G	N1-C2-N3	5.41	127.14	123.90
36	1	1680	G	C6-C5-N7	5.41	133.64	130.40
36	1	2285	C	N3-C2-O2	-5.41	118.12	121.90
36	1	2291	A	C4-C5-N7	-5.41	108.00	110.70
36	1	2377	G	OP1-P-OP2	-5.41	111.49	119.60
36	1	2607	G	C4-C5-C6	5.41	122.04	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2966	G	OP2-P-O3'	5.41	117.09	105.20
36	1	3045	G	C4-C5-N7	-5.41	108.64	110.80
49	M3	70	ARG	NE-CZ-NH1	-5.41	117.60	120.30
69	O3	7	LEU	CB-CG-CD2	-5.41	101.81	111.00
80	6	57	G	OP2-P-O3'	5.41	117.09	105.20
80	6	155	U	C5-C4-O4	5.41	129.14	125.90
80	6	681	U	OP1-P-OP2	5.41	127.71	119.60
80	6	687	G	N3-C4-C5	5.41	131.30	128.60
80	6	980	G	C8-N9-C4	-5.41	104.24	106.40
80	6	1203	A	N7-C8-N9	5.41	116.50	113.80
85	5	402	A	N7-C8-N9	-5.41	111.10	113.80
85	5	515	C	O5'-P-OP2	-5.41	100.84	105.70
85	5	551	A	N1-C6-N6	-5.41	115.36	118.60
85	5	650	C	C4-C5-C6	-5.41	114.70	117.40
85	5	869	G	C4-C5-C6	-5.41	115.56	118.80
85	5	1200	A	N1-C2-N3	5.41	132.00	129.30
85	5	1222	G	N1-C2-N3	-5.41	120.66	123.90
85	5	1406	A	O5'-P-OP1	5.41	117.19	110.70
85	5	2972	G	N1-C2-N2	-5.41	111.34	116.20
85	5	3044	G	N3-C4-C5	5.41	131.30	128.60
85	5	3366	G	OP1-P-O3'	5.41	117.09	105.20
38	8	39	G	C2-N3-C4	-5.41	109.20	111.90
1	2	343	C	C2-N3-C4	5.40	122.60	119.90
1	2	437	A	C6-N1-C2	5.40	121.84	118.60
1	2	780	G	C5-N7-C8	-5.40	101.60	104.30
1	2	1395	G	N3-C4-C5	5.40	131.30	128.60
36	1	558	U	C6-N1-C2	5.40	124.24	121.00
36	1	2117	A	N7-C8-N9	-5.40	111.10	113.80
36	1	2726	C	OP2-P-O3'	5.40	117.09	105.20
80	6	1097	U	C4-C5-C6	-5.40	116.46	119.70
85	5	101	G	C8-N9-C4	-5.40	104.24	106.40
85	5	527	A	C2-N3-C4	-5.40	107.90	110.60
85	5	688	G	C5-N7-C8	5.40	107.00	104.30
85	5	909	G	C5-C6-N1	-5.40	108.80	111.50
85	5	1018	G	C5-C6-N1	5.40	114.20	111.50
85	5	1076	C	C4-C5-C6	5.40	120.10	117.40
85	5	1484	U	C5-C4-O4	5.40	129.14	125.90
85	5	2677	G	N3-C4-N9	5.40	129.24	126.00
85	5	2977	G	N1-C2-N2	5.40	121.06	116.20
85	5	2991	A	N3-C4-C5	-5.40	123.02	126.80
38	8	26	U	C4-C5-C6	-5.40	116.46	119.70
56	n0	70	THR	CA-CB-CG2	-5.40	104.83	112.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	528	U	C4-C5-C6	5.40	122.94	119.70
1	2	904	U	N3-C2-O2	5.40	125.98	122.20
1	2	1522	G	N7-C8-N9	5.40	115.80	113.10
36	1	211	A	C5-C6-N6	-5.40	119.38	123.70
36	1	2108	C	N1-C2-O2	5.40	122.14	118.90
36	1	2691	A	C5-C6-N6	5.40	128.02	123.70
36	1	3065	G	C4-C5-C6	5.40	122.04	118.80
36	1	3145	C	C4-C5-C6	-5.40	114.70	117.40
36	1	3184	A	C2-N3-C4	5.40	113.30	110.60
47	M0	142	ASP	CB-CG-OD1	-5.40	113.44	118.30
62	N6	83	ASP	CB-CG-OD1	-5.40	113.44	118.30
80	6	165	G	N3-C4-C5	5.40	131.30	128.60
80	6	284	G	C8-N9-C4	-5.40	104.24	106.40
80	6	652	G	N9-C4-C5	5.40	107.56	105.40
80	6	705	U	N1-C2-O2	5.40	126.58	122.80
80	6	834	G	C6-N1-C2	5.40	128.34	125.10
80	6	880	C	C4-C5-C6	5.40	120.10	117.40
80	6	1655	A	C4-C5-N7	-5.40	108.00	110.70
80	6	1680	G	N1-C2-N3	5.40	127.14	123.90
85	5	16	A	OP1-P-O3'	5.40	117.09	105.20
85	5	20	A	C8-N9-C4	5.40	107.96	105.80
85	5	306	A	O5'-P-OP1	5.40	117.18	110.70
85	5	333	G	OP1-P-OP2	-5.40	111.50	119.60
85	5	1123	U	OP1-P-O3'	5.40	117.09	105.20
85	5	1485	G	N7-C8-N9	5.40	115.80	113.10
85	5	1707	A	C4-C5-C6	5.40	119.70	117.00
85	5	2519	A	C6-C5-N7	-5.40	128.52	132.30
85	5	2525	G	O5'-P-OP2	-5.40	100.84	105.70
85	5	2793	G	C5-C6-O6	-5.40	125.36	128.60
85	5	2889	C	N1-C2-N3	-5.40	115.42	119.20
85	5	2918	G	N1-C2-N2	5.40	121.06	116.20
38	8	106	C	C6-N1-C2	5.40	122.46	120.30
1	2	121	U	C4-C5-C6	5.40	122.94	119.70
1	2	205	U	N3-C4-C5	-5.40	111.36	114.60
1	2	364	G	OP1-P-OP2	-5.40	111.50	119.60
1	2	551	G	N1-C6-O6	5.40	123.14	119.90
1	2	1577	G	C8-N9-C4	5.40	108.56	106.40
36	1	21	G	C4-C5-C6	5.40	122.04	118.80
36	1	229	G	N1-C2-N2	5.40	121.06	116.20
36	1	316	U	OP2-P-O3'	5.40	117.08	105.20
36	1	589	A	C8-N9-C4	5.40	107.96	105.80
36	1	795	G	C6-C5-N7	-5.40	127.16	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1662	G	N9-C4-C5	-5.40	103.24	105.40
36	1	2112	U	O5'-P-OP2	-5.40	100.84	105.70
36	1	2840	C	N1-C2-O2	5.40	122.14	118.90
36	1	3048	A	OP1-P-OP2	5.40	127.70	119.60
36	1	3190	C	C5-C4-N4	-5.40	116.42	120.20
36	1	3191	G	N3-C4-N9	-5.40	122.76	126.00
37	3	2	G	C2-N3-C4	-5.40	109.20	111.90
41	L4	206	LEU	CA-CB-CG	5.40	127.72	115.30
80	6	336	G	C8-N9-C4	-5.40	104.24	106.40
80	6	618	U	N3-C4-O4	5.40	123.18	119.40
80	6	959	U	C5-C6-N1	5.40	125.40	122.70
80	6	969	C	C2-N3-C4	-5.40	117.20	119.90
80	6	1084	A	C8-N9-C4	-5.40	103.64	105.80
85	5	723	U	N3-C4-C5	5.40	117.84	114.60
85	5	1114	U	OP1-P-OP2	5.40	127.70	119.60
85	5	1421	G	OP2-P-O3'	5.40	117.08	105.20
85	5	1458	U	OP2-P-O3'	5.40	117.08	105.20
85	5	1739	U	C5-C4-O4	5.40	129.14	125.90
85	5	2698	G	O5'-P-OP2	-5.40	100.84	105.70
85	5	3033	A	C5-C6-N1	5.40	120.40	117.70
85	5	3055	U	N3-C2-O2	-5.40	118.42	122.20
85	5	3116	G	N3-C4-C5	-5.40	125.90	128.60
85	5	3140	G	OP2-P-O3'	-5.40	93.32	105.20
1	2	1652	U	C4-C5-C6	-5.40	116.46	119.70
36	1	415	G	N7-C8-N9	5.40	115.80	113.10
36	1	991	G	O4'-C1'-N9	5.40	112.52	108.20
36	1	1609	C	N3-C4-C5	-5.40	119.74	121.90
36	1	2501	U	N1-C2-N3	-5.40	111.66	114.90
36	1	2753	G	C4-N9-C1'	5.40	133.52	126.50
36	1	2796	G	C6-N1-C2	-5.40	121.86	125.10
36	1	3200	G	C2-N3-C4	-5.40	109.20	111.90
80	6	615	A	C8-N9-C4	5.40	107.96	105.80
85	5	156	G	OP1-P-O3'	-5.40	93.32	105.20
85	5	379	C	C6-N1-C2	-5.40	118.14	120.30
85	5	857	G	N1-C6-O6	5.40	123.14	119.90
85	5	1025	A	N1-C6-N6	5.40	121.84	118.60
85	5	1898	G	OP2-P-O3'	5.40	117.08	105.20
85	5	2420	C	N3-C4-C5	-5.40	119.74	121.90
85	5	3154	C	N1-C2-N3	-5.40	115.42	119.20
1	2	403	G	C8-N9-C4	5.40	108.56	106.40
1	2	1482	G	N9-C4-C5	-5.40	103.24	105.40
1	2	1606	C	OP1-P-O3'	5.40	117.07	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	265	A	O5'-P-OP2	5.40	117.18	110.70
36	1	805	G	C8-N9-C4	5.40	108.56	106.40
36	1	858	A	C4-C5-C6	5.40	119.70	117.00
36	1	1060	U	C5-C4-O4	-5.40	122.66	125.90
36	1	1295	G	C6-N1-C2	-5.40	121.86	125.10
36	1	1379	G	N1-C6-O6	5.40	123.14	119.90
36	1	2120	A	N1-C2-N3	5.40	132.00	129.30
36	1	2427	U	C2-N3-C4	-5.40	123.76	127.00
36	1	2590	A	N9-C4-C5	5.40	107.96	105.80
36	1	2625	C	O5'-P-OP1	-5.40	100.84	105.70
36	1	2639	G	OP1-P-O3'	-5.40	93.33	105.20
36	1	2925	C	N1-C2-O2	5.40	122.14	118.90
36	1	3252	G	C8-N9-C4	5.40	108.56	106.40
36	1	3284	G	N7-C8-N9	5.40	115.80	113.10
41	L4	324	LEU	CB-CG-CD2	-5.40	101.82	111.00
80	6	15	U	N3-C4-C5	5.40	117.84	114.60
80	6	579	A	C6-N1-C2	5.40	121.84	118.60
80	6	676	G	C2-N3-C4	5.40	114.60	111.90
80	6	1011	G	N1-C2-N3	5.40	127.14	123.90
85	5	96	G	OP1-P-O3'	5.40	117.08	105.20
85	5	137	G	N1-C6-O6	5.40	123.14	119.90
85	5	375	A	C5-C6-N1	-5.40	115.00	117.70
85	5	620	U	C5-C4-O4	-5.40	122.66	125.90
85	5	1384	U	C5-C6-N1	5.40	125.40	122.70
85	5	1486	G	N3-C4-N9	-5.40	122.76	126.00
85	5	1709	C	N1-C2-N3	5.40	122.98	119.20
85	5	1837	U	N1-C2-N3	5.40	118.14	114.90
85	5	2134	G	C8-N9-C1'	-5.40	119.98	127.00
85	5	2388	U	C5-C6-N1	-5.40	120.00	122.70
85	5	2431	C	O5'-P-OP2	-5.40	100.84	105.70
85	5	2604	U	C4-C5-C6	-5.40	116.46	119.70
85	5	2956	A	O4'-C1'-N9	-5.40	103.88	108.20
85	5	3310	A	C5-C6-N6	-5.40	119.38	123.70
37	7	26	C	O4'-C1'-N1	5.40	112.52	108.20
36	1	726	G	N9-C4-C5	5.40	107.56	105.40
80	6	371	G	N3-C4-C5	-5.40	125.90	128.60
80	6	1517	U	C4-C5-C6	5.40	122.94	119.70
80	6	1707	A	O4'-C1'-N9	5.40	112.52	108.20
85	5	1898	G	N3-C4-C5	-5.40	125.90	128.60
85	5	2710	C	O5'-P-OP2	5.40	117.17	110.70
1	2	588	U	N3-C4-C5	-5.39	111.36	114.60
1	2	1111	C	N1-C2-N3	5.39	122.98	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	152	U	C5-C4-O4	5.39	129.14	125.90
36	1	368	G	C6-C5-N7	-5.39	127.16	130.40
36	1	863	C	C2-N3-C4	-5.39	117.20	119.90
36	1	1112	A	OP2-P-O3'	5.39	117.07	105.20
36	1	1380	G	C5-N7-C8	5.39	107.00	104.30
36	1	1912	U	N1-C2-O2	5.39	126.58	122.80
36	1	2656	A	N1-C2-N3	5.39	132.00	129.30
36	1	2946	A	O5'-P-OP1	5.39	117.17	110.70
36	1	3228	C	C6-N1-C2	5.39	122.46	120.30
36	1	3347	A	N1-C2-N3	-5.39	126.60	129.30
38	4	81	U	N3-C4-O4	-5.39	115.62	119.40
38	4	155	A	N1-C6-N6	5.39	121.84	118.60
80	6	966	A	O5'-P-OP1	5.39	117.17	110.70
80	6	1110	G	N1-C6-O6	-5.39	116.66	119.90
80	6	1113	A	C2-N3-C4	-5.39	107.90	110.60
80	6	1172	G	N3-C4-C5	-5.39	125.90	128.60
80	6	1766	A	C4-C5-C6	5.39	119.70	117.00
85	5	661	G	N7-C8-N9	5.39	115.80	113.10
85	5	1012	G	N1-C2-N3	5.39	127.14	123.90
85	5	3074	G	O5'-P-OP1	-5.39	100.84	105.70
85	5	3098	G	C2-N3-C4	5.39	114.60	111.90
85	5	3313	U	N3-C4-O4	-5.39	115.62	119.40
1	2	29	U	C5-C6-N1	-5.39	120.00	122.70
1	2	1155	G	C6-N1-C2	-5.39	121.86	125.10
36	1	85	A	C6-N1-C2	5.39	121.84	118.60
36	1	405	U	O5'-P-OP2	5.39	117.17	110.70
36	1	962	A	C4-C5-C6	5.39	119.70	117.00
36	1	972	A	C6-N1-C2	-5.39	115.36	118.60
36	1	1734	G	O5'-P-OP2	-5.39	100.85	105.70
36	1	1874	A	N1-C2-N3	5.39	132.00	129.30
36	1	2746	A	C4-C5-C6	5.39	119.70	117.00
36	1	2865	U	C5-C4-O4	-5.39	122.67	125.90
44	L7	165	ASP	CB-CG-OD1	5.39	123.15	118.30
79	Q3	5	THR	CA-CB-CG2	-5.39	104.85	112.40
80	6	1122	G	C6-C5-N7	-5.39	127.17	130.40
80	6	1752	U	N1-C2-N3	5.39	118.14	114.90
85	5	513	G	C5-C6-O6	5.39	131.84	128.60
85	5	683	U	C4-C5-C6	-5.39	116.46	119.70
85	5	687	U	C5-C6-N1	-5.39	120.00	122.70
85	5	698	U	C6-N1-C2	-5.39	117.76	121.00
85	5	1112	A	OP2-P-O3'	-5.39	93.34	105.20
85	5	1652	G	C5-C6-N1	-5.39	108.80	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2158	A	N3-C4-C5	-5.39	123.03	126.80
85	5	2516	U	C4-C5-C6	5.39	122.94	119.70
85	5	2689	A	N1-C2-N3	5.39	132.00	129.30
85	5	3036	G	C5-C6-O6	-5.39	125.36	128.60
38	8	36	G	C4-C5-C6	5.39	122.03	118.80
56	n0	82	ASP	CB-CG-OD1	5.39	123.15	118.30
1	2	557	G	C2-N3-C4	-5.39	109.20	111.90
36	1	2593	A	P-O3'-C3'	5.39	126.17	119.70
37	3	114	U	C6-N1-C2	5.39	124.23	121.00
80	6	201	G	C6-N1-C2	-5.39	121.87	125.10
80	6	1174	C	N3-C4-C5	5.39	124.06	121.90
80	6	1353	U	N1-C2-N3	-5.39	111.67	114.90
80	6	1780	G	C5-C6-N1	5.39	114.19	111.50
85	5	276	U	N1-C2-O2	-5.39	119.03	122.80
85	5	518	G	N1-C2-N2	5.39	121.05	116.20
85	5	852	U	C2-N3-C4	-5.39	123.77	127.00
85	5	1576	G	C4-C5-N7	5.39	112.96	110.80
85	5	2423	U	C5-C6-N1	-5.39	120.00	122.70
1	2	425	A	C8-N9-C4	-5.39	103.64	105.80
1	2	575	C	N3-C2-O2	-5.39	118.13	121.90
1	2	963	G	C4-C5-C6	-5.39	115.57	118.80
1	2	1498	A	C4-C5-C6	-5.39	114.31	117.00
36	1	510	G	C5-C6-O6	-5.39	125.37	128.60
36	1	729	C	C6-N1-C2	-5.39	118.14	120.30
36	1	1004	U	N3-C4-O4	5.39	123.17	119.40
36	1	1497	C	P-O3'-C3'	-5.39	113.23	119.70
36	1	1539	A	O5'-P-OP1	5.39	117.17	110.70
36	1	1736	G	C5-C6-N1	5.39	114.19	111.50
36	1	1850	A	C5-C6-N6	5.39	128.01	123.70
36	1	1948	G	N1-C2-N2	5.39	121.05	116.20
36	1	2242	A	N1-C2-N3	5.39	132.00	129.30
36	1	2399	A	OP1-P-O3'	5.39	117.06	105.20
36	1	3230	G	N7-C8-N9	5.39	115.80	113.10
61	N5	124	VAL	CG1-CB-CG2	-5.39	102.28	110.90
79	Q3	29	LEU	CB-CG-CD2	-5.39	101.84	111.00
80	6	43	A	N1-C2-N3	5.39	131.99	129.30
80	6	777	C	C2-N3-C4	-5.39	117.20	119.90
80	6	983	A	N3-C4-C5	-5.39	123.03	126.80
80	6	1519	U	N3-C4-O4	-5.39	115.63	119.40
80	6	1634	C	C6-N1-C1'	-5.39	114.33	120.80
85	5	100	A	OP2-P-O3'	5.39	117.06	105.20
85	5	1718	G	N1-C2-N2	5.39	121.05	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2317	A	N9-C4-C5	5.39	107.96	105.80
85	5	2713	U	OP1-P-O3'	5.39	117.06	105.20
85	5	3288	G	O5'-P-OP1	5.39	117.17	110.70
37	7	29	C	N3-C2-O2	-5.39	118.13	121.90
37	7	103	A	N9-C4-C5	-5.39	103.64	105.80
1	2	1324	A	C5-C6-N6	5.39	128.01	123.70
36	1	891	G	C2-N3-C4	-5.39	109.21	111.90
36	1	1150	A	C2-N3-C4	-5.39	107.91	110.60
36	1	3315	G	C5-N7-C8	5.39	106.99	104.30
38	4	18	U	OP2-P-O3'	5.39	117.05	105.20
80	6	860	U	N1-C2-O2	5.39	126.57	122.80
80	6	960	U	C2-N1-C1'	5.39	124.17	117.70
80	6	1267	G	C5-C6-N1	-5.39	108.81	111.50
85	5	720	A	C8-N9-C4	-5.39	103.64	105.80
85	5	819	U	C5-C4-O4	5.39	129.13	125.90
85	5	2952	G	N1-C2-N3	5.39	127.13	123.90
38	8	104	A	C6-C5-N7	5.39	136.07	132.30
1	2	83	G	C2-N3-C4	5.39	114.59	111.90
1	2	116	U	N3-C4-O4	-5.39	115.63	119.40
1	2	128	U	C4-C5-C6	5.39	122.93	119.70
1	2	981	A	C2-N3-C4	-5.39	107.91	110.60
1	2	1162	G	OP1-P-OP2	-5.39	111.52	119.60
1	2	1173	C	N1-C2-O2	-5.39	115.67	118.90
1	2	1735	U	C5-C4-O4	-5.39	122.67	125.90
36	1	685	G	N3-C2-N2	-5.39	116.13	119.90
36	1	722	G	C4-C5-N7	5.39	112.95	110.80
36	1	727	G	N3-C4-N9	5.39	129.23	126.00
36	1	751	A	N1-C2-N3	5.39	131.99	129.30
36	1	814	U	N1-C2-O2	5.39	126.57	122.80
36	1	1345	G	N1-C2-N3	5.39	127.13	123.90
36	1	1611	G	N3-C4-C5	5.39	131.29	128.60
36	1	2890	A	O4'-C1'-N9	5.39	112.51	108.20
36	1	2994	A	C6-N1-C2	-5.39	115.37	118.60
36	1	3261	C	N1-C2-O2	-5.39	115.67	118.90
61	N5	38	LEU	CB-CG-CD2	5.39	120.16	111.00
80	6	96	G	C2-N3-C4	-5.39	109.21	111.90
80	6	919	A	C5-C6-N1	-5.39	115.01	117.70
85	5	202	G	N1-C2-N3	5.39	127.13	123.90
85	5	665	A	C6-C5-N7	-5.39	128.53	132.30
85	5	938	C	N3-C2-O2	5.39	125.67	121.90
85	5	1104	G	P-O3'-C3'	-5.39	113.24	119.70
85	5	1136	A	C8-N9-C4	5.39	107.95	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1220	U	N3-C4-O4	-5.39	115.63	119.40
85	5	1281	G	N1-C6-O6	-5.39	116.67	119.90
85	5	1648	A	C5-N7-C8	-5.39	101.21	103.90
85	5	2739	A	C5-C6-N6	-5.39	119.39	123.70
85	5	3048	A	N3-C4-C5	-5.39	123.03	126.80
37	7	2	G	N7-C8-N9	5.39	115.79	113.10
37	7	8	G	C8-N9-C4	-5.39	104.25	106.40
37	7	63	A	C8-N9-C1'	-5.39	118.00	127.70
39	12	180	LEU	CA-CB-CG	-5.39	102.91	115.30
1	2	1107	A	OP1-P-OP2	-5.38	111.52	119.60
36	1	264	G	C5-C6-O6	5.38	131.83	128.60
36	1	312	C	N3-C4-N4	5.38	121.77	118.00
36	1	514	G	C5-C6-N1	-5.38	108.81	111.50
36	1	520	U	C4-C5-C6	5.38	122.93	119.70
36	1	625	G	N3-C2-N2	5.38	123.67	119.90
36	1	853	G	OP2-P-O3'	5.38	117.05	105.20
36	1	1680	G	C5-C6-O6	5.38	131.83	128.60
36	1	1861	G	C6-N1-C2	5.38	128.33	125.10
36	1	1911	A	N7-C8-N9	5.38	116.49	113.80
36	1	3109	G	OP2-P-O3'	5.38	117.05	105.20
36	1	3390	G	C5-C6-N1	-5.38	108.81	111.50
37	3	48	U	N1-C2-N3	-5.38	111.67	114.90
37	3	107	C	OP1-P-OP2	-5.38	111.53	119.60
38	4	80	A	N3-C4-C5	5.38	130.57	126.80
80	6	544	A	O4'-C1'-N9	-5.38	103.89	108.20
85	5	29	C	C4-C5-C6	5.38	120.09	117.40
85	5	108	A	N1-C6-N6	-5.38	115.37	118.60
85	5	202	G	OP1-P-O3'	5.38	117.04	105.20
85	5	439	C	N3-C4-C5	-5.38	119.75	121.90
85	5	714	G	C5-N7-C8	-5.38	101.61	104.30
85	5	924	G	N1-C2-N3	5.38	127.13	123.90
85	5	1385	C	C6-N1-C2	-5.38	118.15	120.30
85	5	1589	A	N3-C4-C5	-5.38	123.03	126.80
85	5	1656	A	N1-C6-N6	-5.38	115.37	118.60
85	5	2260	U	C2-N3-C4	-5.38	123.77	127.00
37	7	82	G	C4-C5-N7	5.38	112.95	110.80
38	8	138	A	C8-N9-C4	5.38	107.95	105.80
54	m8	59	ARG	NE-CZ-NH1	-5.38	117.61	120.30
1	2	740	A	C8-N9-C4	5.38	107.95	105.80
1	2	1466	A	N9-C4-C5	5.38	107.95	105.80
1	2	1587	U	O5'-P-OP1	-5.38	100.86	105.70
36	1	7	C	N3-C4-C5	-5.38	119.75	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	696	C	C6-N1-C1'	-5.38	114.34	120.80
36	1	913	A	C6-C5-N7	-5.38	128.53	132.30
36	1	1848	G	N3-C4-C5	-5.38	125.91	128.60
36	1	2713	U	N3-C4-C5	5.38	117.83	114.60
36	1	3013	U	N1-C2-N3	-5.38	111.67	114.90
36	1	3164	C	OP2-P-O3'	5.38	117.04	105.20
80	6	337	G	O4'-C1'-N9	-5.38	103.89	108.20
80	6	410	A	N9-C4-C5	5.38	107.95	105.80
80	6	439	U	C2-N1-C1'	-5.38	111.24	117.70
80	6	1473	U	C4-C5-C6	5.38	122.93	119.70
85	5	226	C	OP1-P-OP2	5.38	127.67	119.60
85	5	249	U	N1-C2-O2	5.38	126.57	122.80
85	5	1045	C	OP1-P-O3'	-5.38	93.36	105.20
85	5	1083	G	N7-C8-N9	-5.38	110.41	113.10
85	5	2338	C	C2-N3-C4	-5.38	117.21	119.90
85	5	2672	G	N3-C4-C5	5.38	131.29	128.60
85	5	2831	G	C5-C6-N1	5.38	114.19	111.50
1	2	271	A	O5'-P-OP2	-5.38	100.86	105.70
1	2	406	U	N3-C4-C5	-5.38	111.37	114.60
1	2	648	G	N3-C4-N9	5.38	129.23	126.00
1	2	1123	G	N1-C6-O6	-5.38	116.67	119.90
36	1	215	G	C4-C5-N7	-5.38	108.65	110.80
36	1	618	C	C2-N3-C4	-5.38	117.21	119.90
36	1	1179	A	N1-C2-N3	5.38	131.99	129.30
36	1	1481	A	C5-N7-C8	-5.38	101.21	103.90
36	1	1698	C	C5-C4-N4	5.38	123.97	120.20
36	1	1912	U	C6-N1-C2	5.38	124.23	121.00
36	1	2161	G	C4-C5-C6	-5.38	115.57	118.80
36	1	2324	A	C4-C5-N7	5.38	113.39	110.70
36	1	2965	U	C6-N1-C2	-5.38	117.77	121.00
80	6	569	C	C5-C4-N4	5.38	123.97	120.20
80	6	788	A	OP1-P-OP2	-5.38	111.53	119.60
80	6	1445	G	N1-C6-O6	5.38	123.13	119.90
80	6	1739	C	N1-C2-O2	-5.38	115.67	118.90
85	5	196	G	C2-N3-C4	5.38	114.59	111.90
85	5	587	U	C5-C4-O4	-5.38	122.67	125.90
85	5	1152	G	O4'-C1'-N9	-5.38	103.89	108.20
85	5	1169	A	C5-C6-N6	5.38	128.00	123.70
85	5	1201	C	C5-C6-N1	5.38	123.69	121.00
85	5	1316	C	C5-C4-N4	-5.38	116.43	120.20
85	5	1744	G	N1-C2-N2	5.38	121.04	116.20
85	5	2213	A	N3-C4-N9	-5.38	123.09	127.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2694	A	N7-C8-N9	5.38	116.49	113.80
85	5	3211	C	C6-N1-C2	5.38	122.45	120.30
85	5	3262	U	O5'-P-OP1	5.38	117.16	110.70
37	7	109	G	C8-N9-C1'	5.38	134.00	127.00
38	8	45	C	N3-C2-O2	-5.38	118.13	121.90
38	8	83	C	C6-N1-C2	5.38	122.45	120.30
44	17	147	LEU	CB-CG-CD2	-5.38	101.85	111.00
1	2	629	U	C5-C6-N1	-5.38	120.01	122.70
1	2	1143	A	O5'-P-OP2	-5.38	100.86	105.70
36	1	692	A	C4-C5-N7	-5.38	108.01	110.70
36	1	1005	G	N7-C8-N9	-5.38	110.41	113.10
36	1	2308	C	OP2-P-O3'	5.38	117.03	105.20
36	1	2391	G	N3-C2-N2	-5.38	116.13	119.90
36	1	2899	C	OP2-P-O3'	5.38	117.04	105.20
36	1	3358	U	C6-N1-C2	5.38	124.23	121.00
80	6	807	A	C5-N7-C8	-5.38	101.21	103.90
85	5	45	A	O5'-P-OP1	5.38	117.16	110.70
85	5	423	A	O5'-P-OP2	5.38	117.16	110.70
85	5	2821	C	P-O3'-C3'	-5.38	113.24	119.70
85	5	2868	U	N1-C2-N3	5.38	118.13	114.90
85	5	3031	G	N3-C4-C5	5.38	131.29	128.60
1	2	434	G	N7-C8-N9	-5.38	110.41	113.10
36	1	619	A	C6-C5-N7	-5.38	128.53	132.30
36	1	643	U	C2-N3-C4	5.38	130.23	127.00
36	1	763	G	N7-C8-N9	-5.38	110.41	113.10
36	1	968	G	C6-C5-N7	-5.38	127.17	130.40
36	1	1216	C	N1-C2-O2	5.38	122.13	118.90
36	1	1662	G	N1-C2-N3	5.38	127.13	123.90
36	1	2248	C	C2-N3-C4	-5.38	117.21	119.90
36	1	2536	A	C4-C5-N7	5.38	113.39	110.70
36	1	2762	A	OP1-P-O3'	5.38	117.03	105.20
36	1	2836	C	OP1-P-O3'	-5.38	93.37	105.20
36	1	3174	A	O4'-C1'-N9	5.38	112.50	108.20
36	1	3365	U	C2-N3-C4	-5.38	123.77	127.00
38	4	36	G	OP2-P-O3'	5.38	117.03	105.20
40	L3	102	LEU	CB-CG-CD2	-5.38	101.86	111.00
80	6	341	A	C6-N1-C2	-5.38	115.37	118.60
80	6	347	G	C8-N9-C1'	-5.38	120.01	127.00
80	6	502	U	N3-C2-O2	-5.38	118.44	122.20
80	6	617	U	C2-N1-C1'	5.38	124.15	117.70
80	6	652	G	N7-C8-N9	5.38	115.79	113.10
80	6	688	G	C5-C6-N1	-5.38	108.81	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1240	U	C6-N1-C2	-5.38	117.77	121.00
80	6	1516	A	C8-N9-C4	5.38	107.95	105.80
80	6	1584	G	N1-C2-N2	-5.38	111.36	116.20
80	6	1595	U	C4-C5-C6	5.38	122.93	119.70
80	6	1737	G	C5-C6-N1	5.38	114.19	111.50
85	5	45	A	C5-C6-N6	-5.38	119.40	123.70
85	5	123	A	C5-N7-C8	5.38	106.59	103.90
85	5	313	A	C5-C6-N6	-5.38	119.40	123.70
85	5	668	G	N7-C8-N9	-5.38	110.41	113.10
85	5	958	C	C5-C4-N4	-5.38	116.44	120.20
85	5	1304	A	OP2-P-O3'	5.38	117.03	105.20
85	5	2210	G	O5'-P-OP1	5.38	117.15	110.70
85	5	2789	U	N3-C2-O2	5.38	125.97	122.20
1	2	103	A	C5-N7-C8	-5.38	101.21	103.90
1	2	120	U	N3-C4-C5	-5.38	111.37	114.60
1	2	612	U	N1-C2-O2	5.38	126.56	122.80
1	2	634	G	N1-C6-O6	5.38	123.13	119.90
1	2	1159	G	C4-C5-N7	5.38	112.95	110.80
36	1	365	A	C5-N7-C8	5.38	106.59	103.90
36	1	434	U	N3-C4-O4	-5.38	115.64	119.40
36	1	560	G	O5'-P-OP2	-5.38	100.86	105.70
36	1	627	U	N3-C4-O4	5.38	123.16	119.40
36	1	1520	G	C6-C5-N7	5.38	133.63	130.40
36	1	1659	U	C2-N3-C4	5.38	130.23	127.00
36	1	1950	U	C6-N1-C2	5.38	124.23	121.00
36	1	2394	G	C5-N7-C8	5.38	106.99	104.30
36	1	2400	G	OP2-P-O3'	5.38	117.03	105.20
36	1	2520	A	C5-N7-C8	5.38	106.59	103.90
36	1	2802	A	C5-N7-C8	-5.38	101.21	103.90
36	1	3125	U	OP1-P-OP2	5.38	127.66	119.60
80	6	37	U	N3-C4-O4	-5.38	115.64	119.40
80	6	77	U	OP1-P-OP2	5.38	127.66	119.60
80	6	455	C	C4-C5-C6	-5.38	114.71	117.40
80	6	549	G	OP1-P-OP2	-5.38	111.53	119.60
80	6	764	U	C2-N3-C4	5.38	130.22	127.00
80	6	810	G	C2-N3-C4	-5.38	109.21	111.90
80	6	1272	U	C6-N1-C2	5.38	124.23	121.00
80	6	1288	G	C5-C6-N1	-5.38	108.81	111.50
80	6	1662	G	N1-C2-N3	5.38	127.13	123.90
85	5	78	U	N1-C2-O2	5.38	126.56	122.80
85	5	674	G	N1-C6-O6	-5.38	116.67	119.90
85	5	950	G	C8-N9-C1'	-5.38	120.01	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1022	U	N1-C2-O2	5.38	126.56	122.80
85	5	1317	A	N7-C8-N9	5.38	116.49	113.80
85	5	1338	C	N3-C4-N4	5.38	121.76	118.00
85	5	1456	A	N1-C2-N3	5.38	131.99	129.30
85	5	1615	C	N1-C2-O2	5.38	122.13	118.90
85	5	2404	A	C6-N1-C2	5.38	121.83	118.60
85	5	2548	C	N3-C2-O2	-5.38	118.14	121.90
85	5	2589	G	N1-C6-O6	-5.38	116.67	119.90
85	5	2709	C	N3-C4-N4	5.38	121.76	118.00
85	5	2852	C	C6-N1-C1'	-5.38	114.35	120.80
38	8	67	U	N3-C4-O4	-5.38	115.64	119.40
1	2	577	G	N3-C4-C5	5.38	131.29	128.60
1	2	1288	U	N1-C2-N3	5.38	118.12	114.90
1	2	1617	C	OP2-P-O3'	5.38	117.02	105.20
36	1	529	A	C8-N9-C4	5.38	107.95	105.80
36	1	1384	U	N1-C2-N3	5.38	118.12	114.90
36	1	1539	A	C6-N1-C2	-5.38	115.38	118.60
36	1	2170	U	N3-C2-O2	-5.38	118.44	122.20
36	1	2314	U	C5-C4-O4	-5.38	122.67	125.90
80	6	128	U	O5'-P-OP2	-5.38	100.86	105.70
80	6	489	C	N1-C2-O2	5.38	122.12	118.90
80	6	1535	U	N3-C2-O2	-5.38	118.44	122.20
80	6	1690	G	C6-N1-C2	5.38	128.32	125.10
85	5	696	C	C6-N1-C2	5.38	122.45	120.30
85	5	3173	G	C2-N3-C4	-5.38	109.21	111.90
73	o7	67	LEU	CA-CB-CG	5.38	127.66	115.30
1	2	164	A	N1-C2-N3	5.37	131.99	129.30
36	1	26	A	C5-N7-C8	5.37	106.59	103.90
36	1	72	C	O5'-P-OP2	5.37	117.15	110.70
36	1	609	G	N3-C4-N9	5.37	129.22	126.00
36	1	1408	G	N9-C4-C5	-5.37	103.25	105.40
36	1	2381	G	C5-C6-N1	-5.37	108.81	111.50
36	1	2611	U	C5-C6-N1	5.37	125.39	122.70
36	1	2751	G	C5-N7-C8	-5.37	101.61	104.30
36	1	3014	U	OP1-P-OP2	5.37	127.66	119.60
36	1	3066	U	C6-N1-C2	-5.37	117.78	121.00
36	1	3119	U	O4'-C1'-N1	5.37	112.50	108.20
80	6	44	U	C5-C6-N1	5.37	125.39	122.70
80	6	61	A	C5-C6-N6	5.37	128.00	123.70
80	6	115	G	N1-C2-N3	5.37	127.12	123.90
85	5	1061	A	P-O3'-C3'	-5.37	113.25	119.70
85	5	1130	A	N3-C4-N9	5.37	131.70	127.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1665	C	P-O3'-C3'	-5.37	113.25	119.70
85	5	1760	A	C5-N7-C8	5.37	106.59	103.90
37	7	72	A	OP1-P-OP2	5.37	127.66	119.60
37	7	88	G	N9-C4-C5	5.37	107.55	105.40
50	m4	22	LEU	CB-CG-CD2	-5.37	101.87	111.00
1	2	836	G	N3-C4-C5	5.37	131.28	128.60
1	2	839	A	C4-C5-C6	5.37	119.69	117.00
1	2	1178	C	N1-C2-O2	5.37	122.12	118.90
10	S8	110	ARG	NE-CZ-NH2	5.37	122.99	120.30
36	1	256	G	C5-C6-O6	-5.37	125.38	128.60
36	1	517	G	C4-C5-C6	5.37	122.02	118.80
36	1	941	G	C4-C5-N7	5.37	112.95	110.80
36	1	1943	C	C2-N3-C4	-5.37	117.21	119.90
36	1	2113	A	N9-C4-C5	5.37	107.95	105.80
36	1	2871	G	C4-C5-C6	-5.37	115.58	118.80
36	1	3166	C	C6-N1-C2	-5.37	118.15	120.30
80	6	554	C	N3-C4-N4	-5.37	114.24	118.00
80	6	776	G	N9-C4-C5	-5.37	103.25	105.40
80	6	1422	A	C4-C5-C6	5.37	119.69	117.00
85	5	74	G	C5-C6-O6	5.37	131.82	128.60
85	5	150	A	C4-C5-N7	5.37	113.39	110.70
85	5	350	C	C6-N1-C2	-5.37	118.15	120.30
85	5	411	U	C4-C5-C6	5.37	122.92	119.70
85	5	732	C	N1-C2-O2	5.37	122.12	118.90
85	5	973	A	N1-C6-N6	5.37	121.82	118.60
85	5	2377	G	C4-C5-N7	-5.37	108.65	110.80
85	5	2562	A	N3-C4-C5	5.37	130.56	126.80
85	5	2901	G	N1-C2-N2	-5.37	111.36	116.20
85	5	3111	U	C2-N3-C4	5.37	130.22	127.00
85	5	3139	A	OP1-P-OP2	5.37	127.66	119.60
44	l7	183	ASP	CB-CG-OD1	5.37	123.14	118.30
69	o3	48	ARG	NE-CZ-NH1	5.37	122.99	120.30
1	2	255	U	C5-C6-N1	5.37	125.39	122.70
36	1	304	G	C4-C5-C6	5.37	122.02	118.80
36	1	315	C	C6-N1-C2	-5.37	118.15	120.30
36	1	393	U	C5-C6-N1	5.37	125.39	122.70
36	1	1688	U	N1-C2-N3	5.37	118.12	114.90
36	1	1722	U	N3-C4-O4	5.37	123.16	119.40
36	1	2659	G	OP1-P-O3'	5.37	117.01	105.20
37	3	86	U	O4'-C1'-N1	-5.37	103.90	108.20
80	6	163	G	N1-C2-N3	5.37	127.12	123.90
80	6	349	U	N3-C4-O4	-5.37	115.64	119.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	586	G	O5'-P-OP2	-5.37	100.87	105.70
80	6	1056	U	N1-C2-N3	5.37	118.12	114.90
85	5	1428	A	C6-C5-N7	5.37	136.06	132.30
85	5	2300	G	C8-N9-C4	-5.37	104.25	106.40
85	5	2820	A	O5'-P-OP2	5.37	117.14	110.70
85	5	2903	A	C4-C5-C6	5.37	119.69	117.00
1	2	718	C	C5-C6-N1	5.37	123.68	121.00
1	2	1022	A	C8-N9-C4	-5.37	103.65	105.80
36	1	1104	G	N7-C8-N9	5.37	115.78	113.10
36	1	1422	G	C6-N1-C2	-5.37	121.88	125.10
36	1	2408	U	C2-N3-C4	-5.37	123.78	127.00
36	1	3067	C	C6-N1-C2	5.37	122.45	120.30
38	4	37	A	N9-C4-C5	5.37	107.95	105.80
43	L6	85	ILE	CG1-CB-CG2	-5.37	99.59	111.40
80	6	248	U	C4-C5-C6	5.37	122.92	119.70
80	6	370	A	N1-C2-N3	5.37	131.99	129.30
80	6	1474	G	C5-N7-C8	5.37	106.98	104.30
80	6	1618	C	C5-C4-N4	5.37	123.96	120.20
85	5	96	G	C5-C6-O6	-5.37	125.38	128.60
85	5	515	C	OP1-P-OP2	5.37	127.65	119.60
85	5	763	G	N3-C2-N2	-5.37	116.14	119.90
85	5	895	A	C5-C6-N1	-5.37	115.02	117.70
85	5	1011	A	N9-C4-C5	5.37	107.95	105.80
85	5	1154	A	C6-C5-N7	5.37	136.06	132.30
85	5	2188	A	C4-C5-C6	5.37	119.68	117.00
38	8	109	A	C6-N1-C2	-5.37	115.38	118.60
1	2	595	G	OP1-P-OP2	-5.37	111.55	119.60
36	1	1608	C	C4-C5-C6	5.37	120.08	117.40
36	1	1755	C	N3-C4-N4	5.37	121.76	118.00
36	1	1934	G	N7-C8-N9	5.37	115.78	113.10
36	1	3128	G	C4-C5-C6	5.37	122.02	118.80
38	4	142	C	N1-C2-N3	5.37	122.96	119.20
85	5	393	U	N1-C2-N3	5.37	118.12	114.90
85	5	683	U	N1-C2-N3	-5.37	111.68	114.90
85	5	971	G	N7-C8-N9	-5.37	110.42	113.10
85	5	1534	A	C5-C6-N6	-5.37	119.41	123.70
85	5	1785	U	OP2-P-O3'	5.37	117.01	105.20
85	5	2155	G	P-O3'-C3'	-5.37	113.26	119.70
85	5	2358	A	C5-C6-N6	-5.37	119.41	123.70
37	7	34	C	N3-C2-O2	5.37	125.66	121.90
1	2	307	G	C2-N3-C4	-5.37	109.22	111.90
1	2	1003	A	C4-C5-N7	-5.37	108.02	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	805	G	C4-C5-N7	-5.37	108.65	110.80
36	1	992	A	OP1-P-OP2	5.37	127.65	119.60
36	1	1019	G	C4-C5-C6	-5.37	115.58	118.80
36	1	1103	A	N1-C2-N3	-5.37	126.62	129.30
36	1	1434	G	C4-C5-N7	5.37	112.95	110.80
36	1	2276	G	N9-C4-C5	-5.37	103.25	105.40
36	1	2635	A	C5-C6-N1	-5.37	115.02	117.70
36	1	2934	A	OP1-P-O3'	5.37	117.00	105.20
36	1	3001	C	OP1-P-OP2	-5.37	111.55	119.60
47	M0	156	ARG	NE-CZ-NH2	5.37	122.98	120.30
80	6	788	A	N7-C8-N9	-5.37	111.12	113.80
80	6	1130	G	N1-C2-N3	5.37	127.12	123.90
80	6	1297	G	C4-C5-N7	-5.37	108.65	110.80
85	5	217	U	C5-C6-N1	5.37	125.38	122.70
85	5	663	C	N1-C2-O2	-5.37	115.68	118.90
85	5	1553	U	C4-C5-C6	5.37	122.92	119.70
85	5	1907	C	C2-N1-C1'	5.37	124.70	118.80
85	5	2216	G	N3-C4-N9	-5.37	122.78	126.00
37	7	57	G	O5'-P-OP1	5.37	117.14	110.70
1	2	271	A	C4-C5-C6	5.36	119.68	117.00
1	2	519	C	O5'-P-OP1	5.36	117.14	110.70
1	2	1563	C	C5-C6-N1	-5.36	118.32	121.00
36	1	305	U	N3-C4-O4	-5.36	115.65	119.40
36	1	502	U	N1-C2-N3	-5.36	111.68	114.90
36	1	686	G	N3-C4-N9	-5.36	122.78	126.00
36	1	1125	U	O5'-P-OP1	-5.36	100.87	105.70
36	1	1581	C	N1-C2-O2	5.36	122.12	118.90
36	1	1747	G	C2-N3-C4	-5.36	109.22	111.90
36	1	1823	A	C8-N9-C4	-5.36	103.65	105.80
36	1	1903	U	OP1-P-O3'	5.36	117.00	105.20
36	1	2504	U	N3-C4-O4	5.36	123.16	119.40
36	1	2533	G	N3-C4-C5	5.36	131.28	128.60
36	1	2712	U	N3-C4-C5	-5.36	111.38	114.60
52	M6	58	LEU	CA-CB-CG	5.36	127.64	115.30
80	6	270	C	N1-C2-N3	-5.36	115.45	119.20
80	6	1040	G	N7-C8-N9	5.36	115.78	113.10
80	6	1748	G	N7-C8-N9	-5.36	110.42	113.10
85	5	13	A	N1-C6-N6	-5.36	115.38	118.60
85	5	192	C	C2-N1-C1'	5.36	124.70	118.80
85	5	582	G	N1-C2-N2	-5.36	111.37	116.20
85	5	1423	C	N1-C2-N3	5.36	122.95	119.20
85	5	1486	G	C5-C6-N1	-5.36	108.82	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1806	A	C5-N7-C8	-5.36	101.22	103.90
85	5	2102	U	O5'-P-OP1	-5.36	100.87	105.70
85	5	2411	U	N1-C2-O2	-5.36	119.05	122.80
85	5	2537	U	N3-C2-O2	5.36	125.95	122.20
85	5	2572	C	C5-C4-N4	5.36	123.95	120.20
85	5	2819	A	N9-C1'-C2'	-5.36	106.10	112.00
85	5	2859	U	O5'-P-OP1	5.36	117.14	110.70
85	5	2879	C	N3-C4-C5	5.36	124.05	121.90
85	5	2901	G	N3-C2-N2	5.36	123.65	119.90
85	5	2937	G	P-O3'-C3'	5.36	126.14	119.70
85	5	3149	G	C5-N7-C8	-5.36	101.62	104.30
37	7	51	A	C4-C5-C6	5.36	119.68	117.00
38	8	76	C	C5-C6-N1	5.36	123.68	121.00
1	2	142	G	C5-C6-N1	-5.36	108.82	111.50
1	2	1064	A	O4'-C1'-N9	5.36	112.49	108.20
1	2	1351	G	C5-N7-C8	-5.36	101.62	104.30
1	2	1467	G	N9-C4-C5	5.36	107.55	105.40
36	1	681	U	C5-C4-O4	-5.36	122.68	125.90
36	1	1451	C	N3-C2-O2	5.36	125.65	121.90
36	1	3022	G	N1-C6-O6	5.36	123.12	119.90
36	1	3381	U	OP2-P-O3'	5.36	117.00	105.20
37	3	88	G	N1-C2-N3	5.36	127.12	123.90
38	4	2	A	C5-N7-C8	-5.36	101.22	103.90
85	5	254	A	N1-C6-N6	-5.36	115.38	118.60
85	5	1516	C	O5'-P-OP2	-5.36	100.87	105.70
85	5	2807	U	C2-N3-C4	-5.36	123.78	127.00
85	5	2808	A	C4-C5-N7	-5.36	108.02	110.70
85	5	2828	G	N9-C4-C5	-5.36	103.25	105.40
1	2	250	C	N3-C4-N4	5.36	121.75	118.00
1	2	1443	A	C2-N3-C4	-5.36	107.92	110.60
1	2	1647	C	C2-N3-C4	5.36	122.58	119.90
36	1	873	C	N3-C2-O2	5.36	125.65	121.90
36	1	1017	C	O4'-C1'-N1	5.36	112.49	108.20
36	1	2131	A	N9-C1'-C2'	-5.36	106.10	112.00
36	1	2410	U	C6-N1-C1'	-5.36	113.69	121.20
37	3	30	G	OP1-P-OP2	-5.36	111.56	119.60
80	6	688	G	N9-C4-C5	5.36	107.54	105.40
80	6	1074	G	C5-C6-N1	-5.36	108.82	111.50
80	6	1522	U	N1-C2-N3	5.36	118.12	114.90
85	5	25	U	N1-C2-O2	-5.36	119.05	122.80
85	5	410	U	C2-N3-C4	5.36	130.22	127.00
85	5	514	G	C4-C5-N7	5.36	112.94	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	559	A	OP1-P-OP2	5.36	127.64	119.60
85	5	646	A	O5'-P-OP1	5.36	117.13	110.70
85	5	735	A	N3-C4-C5	5.36	130.55	126.80
85	5	932	U	N1-C2-N3	5.36	118.12	114.90
85	5	1332	A	C5-C6-N1	-5.36	115.02	117.70
85	5	1343	A	C4-C5-N7	5.36	113.38	110.70
85	5	1511	U	C5-C4-O4	5.36	129.12	125.90
85	5	2719	U	C2-N1-C1'	-5.36	111.27	117.70
85	5	2751	G	C2-N3-C4	-5.36	109.22	111.90
85	5	3331	U	N1-C2-N3	-5.36	111.68	114.90
85	5	3381	U	O5'-P-OP2	-5.36	100.88	105.70
1	2	137	U	C4-C5-C6	5.36	122.92	119.70
1	2	1566	A	C5-N7-C8	5.36	106.58	103.90
36	1	715	A	C4'-C3'-O3'	5.36	123.72	113.00
36	1	1076	C	N3-C4-N4	-5.36	114.25	118.00
36	1	2283	G	C5-C6-N1	-5.36	108.82	111.50
36	1	2863	G	N7-C8-N9	5.36	115.78	113.10
36	1	3183	A	P-O3'-C3'	-5.36	113.27	119.70
85	5	421	G	C5-C6-O6	5.36	131.81	128.60
85	5	719	U	N3-C4-C5	-5.36	111.39	114.60
85	5	923	C	C2-N3-C4	-5.36	117.22	119.90
85	5	2368	A	OP1-P-OP2	-5.36	111.56	119.60
38	8	111	A	OP1-P-OP2	-5.36	111.56	119.60
1	2	396	G	N9-C4-C5	-5.36	103.26	105.40
1	2	1172	A	C5-C6-N1	-5.36	115.02	117.70
1	2	1773	A	N1-C2-N3	5.36	131.98	129.30
36	1	12	A	C5-C6-N1	5.36	120.38	117.70
36	1	54	C	O4'-C1'-N1	-5.36	103.92	108.20
36	1	771	A	C6-C5-N7	-5.36	128.55	132.30
36	1	1560	G	N3-C4-N9	5.36	129.22	126.00
36	1	1929	G	C4-C5-C6	5.36	122.02	118.80
36	1	2343	C	N1-C2-O2	-5.36	115.69	118.90
36	1	2766	U	OP1-P-O3'	5.36	116.99	105.20
36	1	3019	U	N3-C4-C5	-5.36	111.39	114.60
37	3	8	G	C6-C5-N7	-5.36	127.19	130.40
47	M0	125	LEU	CA-CB-CG	5.36	127.62	115.30
80	6	371	G	O5'-P-OP2	5.36	117.13	110.70
80	6	1020	A	C8-N9-C4	-5.36	103.66	105.80
80	6	1133	A	N3-C4-C5	5.36	130.55	126.80
80	6	1384	A	C5-C6-N1	-5.36	115.02	117.70
85	5	123	A	OP1-P-OP2	-5.36	111.56	119.60
85	5	383	G	C5-N7-C8	5.36	106.98	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	763	G	C4-C5-N7	5.36	112.94	110.80
85	5	893	C	N3-C4-C5	-5.36	119.76	121.90
85	5	1087	G	OP2-P-O3'	5.36	116.99	105.20
85	5	1126	G	C5-C6-O6	5.36	131.81	128.60
85	5	1205	A	N1-C2-N3	5.36	131.98	129.30
85	5	1708	C	C2-N3-C4	-5.36	117.22	119.90
85	5	1938	U	N3-C4-C5	-5.36	111.39	114.60
85	5	2160	G	O5'-P-OP1	5.36	117.13	110.70
85	5	2167	A	OP2-P-O3'	5.36	116.98	105.20
85	5	3093	C	C5-C4-N4	5.36	123.95	120.20
85	5	3342	A	N1-C2-N3	5.36	131.98	129.30
38	8	67	U	O5'-P-OP2	5.36	117.13	110.70
38	8	72	A	C5-C6-N6	5.36	127.99	123.70
1	2	182	A	O5'-P-OP2	5.36	117.13	110.70
1	2	1110	G	N1-C2-N3	5.36	127.11	123.90
1	2	1188	C	OP1-P-O3'	5.36	116.98	105.20
1	2	1229	C	N3-C2-O2	-5.36	118.15	121.90
36	1	357	A	OP1-P-O3'	5.36	116.98	105.20
36	1	402	A	C5-C6-N1	5.36	120.38	117.70
36	1	417	A	N3-C4-C5	5.36	130.55	126.80
36	1	707	U	N3-C2-O2	5.36	125.95	122.20
36	1	805	G	N7-C8-N9	-5.36	110.42	113.10
36	1	900	G	N3-C4-N9	-5.36	122.79	126.00
36	1	946	U	OP2-P-O3'	5.36	116.98	105.20
36	1	1325	U	C6-N1-C2	5.36	124.21	121.00
36	1	1448	U	N1-C2-O2	-5.36	119.05	122.80
36	1	1583	A	C4-C5-N7	-5.36	108.02	110.70
36	1	1599	G	C8-N9-C4	5.36	108.54	106.40
36	1	2159	U	N1-C2-N3	-5.36	111.69	114.90
36	1	2425	G	C5-C6-N1	5.36	114.18	111.50
36	1	2788	C	N3-C4-N4	5.36	121.75	118.00
80	6	41	A	C5-C6-N6	-5.36	119.42	123.70
80	6	517	U	N1-C2-N3	5.36	118.11	114.90
80	6	755	A	N3-C4-C5	5.36	130.55	126.80
80	6	888	U	OP1-P-OP2	-5.36	111.57	119.60
80	6	1430	U	C2-N3-C4	5.36	130.21	127.00
80	6	1727	G	C4-N9-C1'	5.36	133.46	126.50
85	5	58	G	N1-C2-N3	-5.36	120.69	123.90
85	5	329	U	N1-C2-O2	5.36	126.55	122.80
85	5	352	A	OP1-P-O3'	5.36	116.98	105.20
85	5	865	U	OP2-P-O3'	5.36	116.98	105.20
85	5	1082	U	C2-N3-C4	5.36	130.21	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1133	A	C5-C6-N6	-5.36	119.42	123.70
85	5	1308	A	OP2-P-O3'	-5.36	93.42	105.20
85	5	1346	G	OP2-P-O3'	5.36	116.98	105.20
85	5	1753	G	C8-N9-C1'	-5.36	120.04	127.00
85	5	1906	G	OP1-P-OP2	5.36	127.63	119.60
85	5	2134	G	P-O3'-C3'	-5.36	113.27	119.70
85	5	2810	C	C2-N3-C4	5.36	122.58	119.90
85	5	3077	A	N7-C8-N9	5.36	116.48	113.80
85	5	3104	U	O4'-C1'-N1	-5.36	103.92	108.20
85	5	3318	G	C4-C5-C6	5.36	122.01	118.80
41	14	259	ASP	CB-CG-OD1	-5.36	113.48	118.30
36	1	194	U	OP1-P-O3'	5.35	116.98	105.20
36	1	1675	G	C8-N9-C4	5.35	108.54	106.40
36	1	2364	G	C8-N9-C1'	5.35	133.96	127.00
36	1	2752	U	C5-C4-O4	5.35	129.11	125.90
36	1	2901	G	O5'-P-OP1	-5.35	100.88	105.70
36	1	3136	G	C6-N1-C2	-5.35	121.89	125.10
80	6	140	A	N1-C6-N6	-5.35	115.39	118.60
80	6	754	A	P-O3'-C3'	5.35	126.12	119.70
80	6	1127	G	C8-N9-C4	5.35	108.54	106.40
85	5	1135	A	N9-C4-C5	5.35	107.94	105.80
85	5	1150	A	C4-C5-C6	-5.35	114.32	117.00
85	5	2403	G	C5-C6-O6	-5.35	125.39	128.60
1	2	414	C	N1-C2-O2	5.35	122.11	118.90
1	2	763	A	C2-N3-C4	-5.35	107.92	110.60
1	2	808	U	C6-N1-C2	-5.35	117.79	121.00
1	2	859	G	N1-C6-O6	5.35	123.11	119.90
1	2	1656	G	N1-C6-O6	5.35	123.11	119.90
1	2	1726	U	N1-C2-O2	-5.35	119.05	122.80
36	1	496	C	C2-N1-C1'	-5.35	112.91	118.80
36	1	693	A	OP1-P-OP2	5.35	127.63	119.60
36	1	1126	G	C5-N7-C8	-5.35	101.62	104.30
36	1	1485	G	C4-N9-C1'	-5.35	119.54	126.50
36	1	2283	G	N1-C6-O6	5.35	123.11	119.90
36	1	2620	G	O5'-P-OP2	5.35	117.12	110.70
36	1	2637	A	C5-N7-C8	-5.35	101.22	103.90
36	1	2796	G	C5-C6-O6	-5.35	125.39	128.60
36	1	2842	U	C5-C6-N1	-5.35	120.02	122.70
36	1	3121	U	C4-C5-C6	-5.35	116.49	119.70
80	6	199	G	O4'-C1'-N9	5.35	112.48	108.20
80	6	1144	U	N3-C2-O2	-5.35	118.45	122.20
80	6	1404	C	C4-C5-C6	5.35	120.08	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1465	C	N3-C4-N4	5.35	121.75	118.00
80	6	1580	C	C6-N1-C2	5.35	122.44	120.30
85	5	228	U	N3-C4-O4	5.35	123.15	119.40
85	5	437	G	N3-C2-N2	5.35	123.65	119.90
85	5	753	C	N3-C2-O2	5.35	125.65	121.90
85	5	1059	G	C8-N9-C1'	-5.35	120.04	127.00
85	5	2148	U	C6-N1-C2	5.35	124.21	121.00
85	5	3036	G	C8-N9-C1'	-5.35	120.04	127.00
85	5	3355	U	C5-C4-O4	5.35	129.11	125.90
1	2	377	G	N9-C4-C5	5.35	107.54	105.40
1	2	1030	G	C5-C6-O6	-5.35	125.39	128.60
36	1	205	C	C2-N3-C4	-5.35	117.22	119.90
36	1	1598	G	C5-C6-O6	5.35	131.81	128.60
36	1	2733	A	C8-N9-C4	-5.35	103.66	105.80
37	3	53	U	N3-C4-C5	-5.35	111.39	114.60
80	6	343	C	OP2-P-O3'	5.35	116.97	105.20
85	5	218	G	N1-C6-O6	-5.35	116.69	119.90
85	5	689	U	C5-C4-O4	5.35	129.11	125.90
85	5	1043	C	C5-C4-N4	-5.35	116.45	120.20
85	5	1500	G	OP2-P-O3'	5.35	116.97	105.20
85	5	2389	C	N1-C2-O2	-5.35	115.69	118.90
85	5	2800	G	N9-C4-C5	5.35	107.54	105.40
85	5	3303	G	C8-N9-C1'	5.35	133.96	127.00
1	2	594	A	C6-C5-N7	5.35	136.04	132.30
1	2	1320	A	N1-C6-N6	5.35	121.81	118.60
1	2	1469	G	C5-N7-C8	-5.35	101.62	104.30
1	2	1577	G	C5-N7-C8	5.35	106.97	104.30
36	1	292	U	OP1-P-O3'	5.35	116.97	105.20
36	1	696	C	C2-N1-C1'	5.35	124.69	118.80
36	1	978	G	O5'-P-OP1	-5.35	100.89	105.70
36	1	1080	A	C6-N1-C2	-5.35	115.39	118.60
36	1	1294	A	OP1-P-OP2	5.35	127.62	119.60
36	1	1422	G	N7-C8-N9	5.35	115.77	113.10
36	1	1791	C	N1-C2-N3	5.35	122.94	119.20
36	1	2194	G	N7-C8-N9	5.35	115.78	113.10
36	1	2270	A	C6-N1-C2	-5.35	115.39	118.60
36	1	2823	G	C2-N3-C4	-5.35	109.22	111.90
36	1	3026	G	N1-C2-N3	5.35	127.11	123.90
36	1	3198	U	O5'-P-OP2	5.35	117.12	110.70
36	1	3385	U	C2-N3-C4	-5.35	123.79	127.00
37	3	11	A	N7-C8-N9	-5.35	111.12	113.80
80	6	299	A	N9-C4-C5	-5.35	103.66	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	553	G	O5'-P-OP1	-5.35	100.89	105.70
80	6	1682	U	N1-C2-N3	-5.35	111.69	114.90
80	6	1704	U	N1-C2-N3	-5.35	111.69	114.90
80	6	1792	G	C5-C6-O6	5.35	131.81	128.60
85	5	190	U	C6-N1-C2	-5.35	117.79	121.00
85	5	228	U	OP1-P-O3'	5.35	116.97	105.20
85	5	568	G	N1-C2-N3	5.35	127.11	123.90
85	5	590	G	N7-C8-N9	5.35	115.78	113.10
85	5	606	C	C5-C6-N1	-5.35	118.33	121.00
85	5	1451	C	N1-C2-O2	5.35	122.11	118.90
85	5	1626	U	C5-C4-O4	5.35	129.11	125.90
85	5	2186	U	C2-N3-C4	5.35	130.21	127.00
85	5	2268	U	C5-C6-N1	5.35	125.38	122.70
85	5	2983	C	O5'-P-OP1	-5.35	100.89	105.70
1	2	719	C	N3-C4-C5	-5.35	119.76	121.90
1	2	1114	A	OP1-P-OP2	5.35	127.62	119.60
36	1	803	C	N1-C2-O2	-5.35	115.69	118.90
36	1	1155	C	C6-N1-C2	5.35	122.44	120.30
36	1	1545	A	C5-C6-N6	5.35	127.98	123.70
36	1	2195	C	N3-C4-N4	5.35	121.74	118.00
36	1	2234	G	N1-C6-O6	-5.35	116.69	119.90
36	1	2655	U	C5-C6-N1	5.35	125.37	122.70
36	1	3118	C	N3-C4-C5	-5.35	119.76	121.90
36	1	3158	G	C5-C6-N1	5.35	114.17	111.50
36	1	3298	C	OP1-P-OP2	-5.35	111.58	119.60
80	6	577	G	OP1-P-OP2	5.35	127.62	119.60
80	6	957	G	OP1-P-OP2	-5.35	111.58	119.60
85	5	46	U	OP1-P-OP2	5.35	127.62	119.60
85	5	164	A	C2-N3-C4	5.35	113.27	110.60
85	5	795	G	C5-N7-C8	-5.35	101.63	104.30
85	5	1397	C	C2-N3-C4	-5.35	117.23	119.90
85	5	1685	C	N3-C4-C5	5.35	124.04	121.90
85	5	2658	G	C6-C5-N7	-5.35	127.19	130.40
85	5	2945	G	C4-C5-C6	5.35	122.01	118.80
85	5	3261	C	C6-N1-C2	5.35	122.44	120.30
85	5	3354	U	C5-C4-O4	5.35	129.11	125.90
38	8	114	G	C6-N1-C2	5.35	128.31	125.10
1	2	222	A	C6-N1-C2	5.35	121.81	118.60
1	2	1319	A	C2-N3-C4	-5.35	107.93	110.60
36	1	679	U	N3-C4-C5	-5.35	111.39	114.60
36	1	1337	A	N7-C8-N9	-5.35	111.13	113.80
36	1	1767	C	N1-C2-N3	5.35	122.94	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2382	G	N1-C6-O6	5.35	123.11	119.90
36	1	2624	G	N3-C2-N2	5.35	123.64	119.90
80	6	402	C	C6-N1-C2	-5.35	118.16	120.30
80	6	749	U	N3-C4-C5	-5.35	111.39	114.60
80	6	1369	U	O5'-P-OP2	-5.35	100.89	105.70
85	5	561	C	N1-C2-O2	5.35	122.11	118.90
85	5	2239	G	N7-C8-N9	5.35	115.77	113.10
85	5	3342	A	O5'-P-OP1	-5.35	100.89	105.70
88	n4	52	THR	CA-CB-CG2	-5.35	104.92	112.40
1	2	114	C	C2-N1-C1'	5.34	124.68	118.80
36	1	203	G	N3-C2-N2	-5.34	116.16	119.90
36	1	686	G	N9-C4-C5	5.34	107.54	105.40
36	1	1193	A	C5-C6-N6	-5.34	119.42	123.70
36	1	1208	U	O4'-C1'-N1	-5.34	103.92	108.20
36	1	1334	U	OP2-P-O3'	5.34	116.96	105.20
36	1	1443	G	C5-C6-O6	-5.34	125.39	128.60
36	1	2182	A	C5-C6-N1	5.34	120.37	117.70
36	1	2575	G	N7-C8-N9	5.34	115.77	113.10
36	1	2982	A	N7-C8-N9	-5.34	111.13	113.80
36	1	3016	A	C4-C5-C6	5.34	119.67	117.00
36	1	3327	G	C4-C5-C6	5.34	122.01	118.80
38	4	49	G	O5'-P-OP1	-5.34	100.89	105.70
38	4	99	C	C2-N1-C1'	-5.34	112.92	118.80
80	6	515	A	OP1-P-OP2	5.34	127.62	119.60
80	6	680	U	N1-C2-N3	-5.34	111.69	114.90
80	6	1417	A	C8-N9-C4	5.34	107.94	105.80
85	5	27	C	N1-C2-N3	5.34	122.94	119.20
85	5	82	C	O5'-P-OP2	-5.34	100.89	105.70
85	5	97	U	OP2-P-O3'	5.34	116.96	105.20
85	5	882	A	C4-C5-C6	5.34	119.67	117.00
85	5	1319	G	N1-C2-N2	5.34	121.01	116.20
85	5	1443	G	C5-C6-N1	-5.34	108.83	111.50
85	5	2228	A	C5-C6-N1	5.34	120.37	117.70
38	8	108	C	C4-C5-C6	5.34	120.07	117.40
1	2	456	A	N7-C8-N9	5.34	116.47	113.80
1	2	612	U	O5'-P-OP2	-5.34	100.89	105.70
1	2	1621	G	OP1-P-O3'	5.34	116.95	105.20
36	1	242	C	O5'-P-OP1	-5.34	100.89	105.70
36	1	558	U	C2-N3-C4	-5.34	123.79	127.00
36	1	799	G	OP1-P-OP2	5.34	127.61	119.60
36	1	826	G	N3-C2-N2	-5.34	116.16	119.90
36	1	2431	C	N1-C2-N3	5.34	122.94	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2578	U	C5-C6-N1	-5.34	120.03	122.70
51	M5	176	LYS	CD-CE-NZ	5.34	123.99	111.70
68	O2	16	LYS	CD-CE-NZ	-5.34	99.41	111.70
80	6	113	U	N3-C2-O2	5.34	125.94	122.20
80	6	745	U	N1-C2-N3	-5.34	111.69	114.90
85	5	629	U	C2-N3-C4	5.34	130.21	127.00
85	5	1363	A	C4-C5-C6	5.34	119.67	117.00
85	5	1807	G	O5'-P-OP2	5.34	117.11	110.70
1	2	234	G	C5-C6-O6	5.34	131.81	128.60
1	2	325	G	N1-C2-N3	5.34	127.11	123.90
1	2	558	U	N3-C4-O4	5.34	123.14	119.40
1	2	773	U	C2-N3-C4	5.34	130.20	127.00
1	2	1168	U	C5-C4-O4	-5.34	122.70	125.90
36	1	666	A	OP2-P-O3'	5.34	116.95	105.20
36	1	791	A	C2-N3-C4	5.34	113.27	110.60
36	1	1126	G	C4-C5-N7	5.34	112.94	110.80
36	1	1393	A	N1-C6-N6	-5.34	115.39	118.60
36	1	1880	U	N1-C2-N3	5.34	118.11	114.90
36	1	2243	A	C5-C6-N1	5.34	120.37	117.70
36	1	2974	U	OP1-P-OP2	-5.34	111.59	119.60
36	1	3238	G	C6-C5-N7	-5.34	127.19	130.40
37	3	65	G	OP1-P-OP2	5.34	127.61	119.60
48	M1	61	ARG	NE-CZ-NH2	-5.34	117.63	120.30
64	N8	117	ARG	NE-CZ-NH1	5.34	122.97	120.30
80	6	841	U	O5'-P-OP1	-5.34	100.89	105.70
80	6	1708	U	N3-C2-O2	-5.34	118.46	122.20
85	5	268	A	N1-C6-N6	-5.34	115.39	118.60
85	5	1047	A	N3-C4-C5	5.34	130.54	126.80
85	5	1136	A	C6-C5-N7	-5.34	128.56	132.30
85	5	1298	C	C2-N3-C4	-5.34	117.23	119.90
85	5	1348	U	O5'-P-OP1	-5.34	100.89	105.70
85	5	1519	G	N1-C2-N2	5.34	121.01	116.20
85	5	1703	U	N1-C2-O2	-5.34	119.06	122.80
85	5	2147	A	C5-C6-N6	-5.34	119.43	123.70
85	5	2592	G	C5-C6-N1	-5.34	108.83	111.50
85	5	2827	U	OP1-P-O3'	5.34	116.95	105.20
85	5	2989	U	N3-C2-O2	5.34	125.94	122.20
85	5	3088	G	N1-C6-O6	-5.34	116.69	119.90
38	8	47	C	OP1-P-O3'	5.34	116.95	105.20
1	2	266	A	C8-N9-C4	5.34	107.94	105.80
1	2	375	U	OP1-P-OP2	5.34	127.61	119.60
1	2	836	G	N7-C8-N9	5.34	115.77	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1154	A	C5-C6-N1	5.34	120.37	117.70
36	1	47	C	N3-C2-O2	5.34	125.64	121.90
36	1	130	A	C4-C5-C6	-5.34	114.33	117.00
36	1	665	A	N3-C4-C5	-5.34	123.06	126.80
36	1	1093	A	C2-N3-C4	5.34	113.27	110.60
36	1	2693	C	C4-C5-C6	5.34	120.07	117.40
36	1	3083	G	N3-C4-N9	5.34	129.20	126.00
80	6	396	G	C6-C5-N7	-5.34	127.20	130.40
80	6	991	G	O5'-P-OP1	-5.34	100.89	105.70
25	d3	132	LEU	CB-CG-CD1	-5.34	101.92	111.00
85	5	678	G	C6-C5-N7	-5.34	127.20	130.40
85	5	1393	A	C4-C5-N7	-5.34	108.03	110.70
85	5	1552	G	C6-C5-N7	-5.34	127.20	130.40
85	5	1643	A	C5-N7-C8	-5.34	101.23	103.90
85	5	1908	A	C5-C6-N6	-5.34	119.43	123.70
85	5	2358	A	OP1-P-OP2	5.34	127.61	119.60
85	5	2393	G	C5-N7-C8	-5.34	101.63	104.30
85	5	2628	A	C4-C5-N7	-5.34	108.03	110.70
85	5	3059	G	N7-C8-N9	5.34	115.77	113.10
37	7	33	U	O5'-P-OP1	-5.34	100.89	105.70
38	8	141	C	C6-N1-C2	5.34	122.44	120.30
38	8	152	G	N1-C6-O6	5.34	123.10	119.90
39	l2	122	ASP	CB-CG-OD2	5.34	123.11	118.30
1	2	205	U	OP1-P-OP2	5.34	127.61	119.60
1	2	719	C	C5-C6-N1	5.34	123.67	121.00
1	2	1746	A	C8-N9-C4	5.34	107.94	105.80
36	1	264	G	N1-C2-N2	5.34	121.00	116.20
36	1	854	G	N3-C2-N2	-5.34	116.16	119.90
36	1	1300	G	N1-C2-N3	5.34	127.10	123.90
36	1	1471	U	C5-C6-N1	-5.34	120.03	122.70
36	1	2503	G	C5-C6-N1	-5.34	108.83	111.50
36	1	3028	G	OP1-P-O3'	5.34	116.94	105.20
80	6	669	G	N3-C4-C5	-5.34	125.93	128.60
85	5	1900	A	N9-C4-C5	-5.34	103.67	105.80
85	5	1948	G	C5-N7-C8	-5.34	101.63	104.30
85	5	2723	U	C2-N3-C4	-5.34	123.80	127.00
40	l3	193	ASP	CB-CG-OD2	5.34	123.10	118.30
1	2	155	U	C4-C5-C6	-5.34	116.50	119.70
1	2	462	G	C6-N1-C2	-5.34	121.90	125.10
1	2	1008	A	C8-N9-C4	-5.34	103.67	105.80
1	2	1567	G	N3-C2-N2	5.34	123.64	119.90
36	1	585	A	C5-C6-N6	5.34	127.97	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1534	A	C5-N7-C8	-5.34	101.23	103.90
36	1	2211	U	C4-C5-C6	5.34	122.90	119.70
36	1	3063	C	O5'-P-OP2	-5.34	100.90	105.70
36	1	3153	U	C5-C4-O4	5.34	129.10	125.90
36	1	3241	G	N9-C4-C5	5.34	107.53	105.40
37	3	73	C	N3-C4-C5	5.34	124.03	121.90
38	4	25	G	C5-N7-C8	5.34	106.97	104.30
38	4	27	U	C2-N3-C4	-5.34	123.80	127.00
62	N6	114	ASP	CB-CG-OD1	5.34	123.10	118.30
85	5	292	U	C5-C4-O4	-5.34	122.70	125.90
85	5	518	G	C8-N9-C4	-5.34	104.27	106.40
85	5	812	G	N7-C8-N9	5.34	115.77	113.10
85	5	1054	A	C6-N1-C2	5.34	121.80	118.60
85	5	1134	G	N9-C4-C5	5.34	107.53	105.40
85	5	1143	A	N3-C4-C5	5.34	130.53	126.80
85	5	1348	U	O4'-C1'-N1	5.34	112.47	108.20
85	5	1786	G	O5'-P-OP1	5.34	117.10	110.70
85	5	2271	A	C6-N1-C2	-5.34	115.40	118.60
37	7	47	C	C6-N1-C2	-5.34	118.17	120.30
53	m7	111	LYS	CD-CE-NZ	5.34	123.97	111.70
1	2	161	U	C2-N3-C4	-5.33	123.80	127.00
36	1	13	A	N1-C2-N3	5.33	131.97	129.30
36	1	324	A	C4-C5-C6	5.33	119.67	117.00
36	1	706	A	N3-C4-C5	5.33	130.53	126.80
36	1	1466	G	C4-C5-C6	5.33	122.00	118.80
36	1	1537	A	C5-N7-C8	-5.33	101.23	103.90
36	1	2558	U	C5-C4-O4	-5.33	122.70	125.90
36	1	2672	G	C2-N3-C4	-5.33	109.23	111.90
37	3	48	U	C4-C5-C6	-5.33	116.50	119.70
38	4	91	C	OP2-P-O3'	5.33	116.94	105.20
42	L5	92	LEU	CA-CB-CG	5.33	127.57	115.30
80	6	385	A	O5'-P-OP1	5.33	117.10	110.70
80	6	1082	C	C4-C5-C6	5.33	120.07	117.40
80	6	1568	C	OP1-P-OP2	-5.33	111.60	119.60
80	6	1636	C	N3-C2-O2	-5.33	118.17	121.90
85	5	1270	A	N9-C4-C5	-5.33	103.67	105.80
85	5	2357	A	N7-C8-N9	-5.33	111.13	113.80
85	5	2671	A	C4-C5-C6	5.33	119.67	117.00
85	5	2828	G	N1-C2-N3	5.33	127.10	123.90
37	7	119	U	N3-C4-O4	-5.33	115.67	119.40
1	2	201	G	C4-C5-C6	-5.33	115.60	118.80
1	2	254	A	C5-C6-N1	-5.33	115.03	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	301	A	N1-C2-N3	5.33	131.97	129.30
1	2	858	G	N3-C4-C5	-5.33	125.93	128.60
1	2	885	G	N1-C6-O6	5.33	123.10	119.90
1	2	1017	C	C2-N3-C4	-5.33	117.23	119.90
1	2	1460	G	C5-C6-O6	-5.33	125.40	128.60
36	1	134	U	O5'-P-OP2	-5.33	100.90	105.70
36	1	164	A	OP1-P-OP2	5.33	127.60	119.60
36	1	667	C	N3-C4-C5	5.33	124.03	121.90
36	1	734	C	C4-C5-C6	5.33	120.07	117.40
36	1	792	G	N9-C4-C5	5.33	107.53	105.40
36	1	2288	G	C8-N9-C4	-5.33	104.27	106.40
36	1	2418	G	C5-N7-C8	-5.33	101.63	104.30
36	1	3358	U	N3-C2-O2	-5.33	118.47	122.20
38	4	22	U	C2-N3-C4	-5.33	123.80	127.00
38	4	136	G	C8-N9-C4	5.33	108.53	106.40
80	6	73	U	N1-C2-O2	-5.33	119.07	122.80
80	6	269	G	C8-N9-C4	5.33	108.53	106.40
80	6	420	A	C5-C6-N6	5.33	127.97	123.70
80	6	446	A	N9-C4-C5	5.33	107.93	105.80
80	6	549	G	O5'-P-OP2	5.33	117.10	110.70
80	6	588	U	C2-N3-C4	5.33	130.20	127.00
80	6	933	A	C8-N9-C4	5.33	107.93	105.80
85	5	148	G	C5-C6-O6	5.33	131.80	128.60
85	5	2555	G	N3-C2-N2	-5.33	116.17	119.90
85	5	2741	C	N1-C2-N3	5.33	122.93	119.20
85	5	2819	A	N1-C2-N3	5.33	131.97	129.30
85	5	2839	G	C5-N7-C8	-5.33	101.63	104.30
68	o2	8	LYS	CD-CE-NZ	5.33	123.97	111.70
1	2	399	A	N1-C6-N6	-5.33	115.40	118.60
1	2	551	G	O5'-P-OP1	5.33	117.10	110.70
1	2	1076	A	N7-C8-N9	5.33	116.47	113.80
1	2	1744	U	C4-C5-C6	5.33	122.90	119.70
36	1	59	G	N1-C2-N2	5.33	121.00	116.20
36	1	212	G	N9-C4-C5	5.33	107.53	105.40
36	1	337	G	N1-C2-N3	5.33	127.10	123.90
36	1	386	A	C4-C5-C6	5.33	119.67	117.00
36	1	405	U	OP1-P-OP2	-5.33	111.60	119.60
36	1	984	G	N3-C4-C5	-5.33	125.94	128.60
36	1	1562	C	C5-C6-N1	-5.33	118.33	121.00
36	1	1610	G	OP1-P-OP2	-5.33	111.60	119.60
36	1	1729	A	OP1-P-OP2	-5.33	111.60	119.60
36	1	1870	C	O5'-P-OP1	-5.33	100.90	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2439	A	C6-N1-C2	5.33	121.80	118.60
36	1	2691	A	C6-C5-N7	5.33	136.03	132.30
36	1	2947	G	C2-N3-C4	-5.33	109.23	111.90
36	1	2985	C	N1-C2-O2	5.33	122.10	118.90
36	1	3150	A	N1-C6-N6	5.33	121.80	118.60
80	6	405	C	C2-N1-C1'	-5.33	112.94	118.80
80	6	680	U	N3-C4-C5	5.33	117.80	114.60
80	6	918	U	N3-C2-O2	5.33	125.93	122.20
85	5	640	U	O5'-P-OP1	5.33	117.10	110.70
85	5	897	U	OP1-P-OP2	5.33	127.60	119.60
85	5	984	G	C8-N9-C1'	-5.33	120.07	127.00
85	5	1103	A	N1-C6-N6	-5.33	115.40	118.60
85	5	1427	U	C5-C6-N1	5.33	125.37	122.70
85	5	1620	U	OP2-P-O3'	5.33	116.93	105.20
85	5	2844	C	N1-C2-O2	-5.33	115.70	118.90
38	8	92	A	OP1-P-OP2	5.33	127.60	119.60
1	2	71	A	C5-C6-N6	-5.33	119.44	123.70
1	2	89	G	N3-C2-N2	-5.33	116.17	119.90
1	2	113	U	OP2-P-O3'	5.33	116.93	105.20
1	2	961	A	C5-C6-N6	5.33	127.96	123.70
1	2	1027	U	N1-C2-O2	-5.33	119.07	122.80
36	1	201	A	OP1-P-O3'	5.33	116.93	105.20
36	1	1361	U	N3-C4-C5	-5.33	111.40	114.60
36	1	2908	G	N1-C2-N3	5.33	127.10	123.90
80	6	851	U	C5-C6-N1	-5.33	120.03	122.70
85	5	94	G	O5'-P-OP2	5.33	117.10	110.70
85	5	96	G	N1-C2-N3	5.33	127.10	123.90
85	5	1459	C	C4-C5-C6	5.33	120.06	117.40
85	5	2516	U	N1-C2-O2	-5.33	119.07	122.80
1	2	123	G	C8-N9-C4	5.33	108.53	106.40
1	2	609	U	N1-C2-N3	5.33	118.10	114.90
1	2	779	A	N7-C8-N9	5.33	116.46	113.80
36	1	327	A	O5'-P-OP2	-5.33	100.90	105.70
36	1	1002	A	OP1-P-O3'	5.33	116.92	105.20
36	1	1653	G	C6-C5-N7	-5.33	127.20	130.40
36	1	1653	G	N9-C4-C5	-5.33	103.27	105.40
36	1	1896	A	C5-C6-N1	5.33	120.36	117.70
36	1	2144	A	C6-C5-N7	5.33	136.03	132.30
36	1	2656	A	C6-N1-C2	-5.33	115.40	118.60
36	1	3242	G	C5-C6-O6	-5.33	125.40	128.60
80	6	581	U	C6-N1-C2	5.33	124.20	121.00
80	6	779	U	N1-C2-O2	5.33	126.53	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	911	U	N1-C2-O2	5.33	126.53	122.80
80	6	1054	U	O5'-P-OP1	-5.33	100.91	105.70
80	6	1182	U	C4-C5-C6	5.33	122.90	119.70
80	6	1498	G	N9-C4-C5	5.33	107.53	105.40
80	6	1718	G	C4-C5-C6	5.33	122.00	118.80
85	5	96	G	N3-C2-N2	-5.33	116.17	119.90
85	5	833	G	N7-C8-N9	-5.33	110.44	113.10
85	5	971	G	OP2-P-O3'	5.33	116.92	105.20
85	5	1355	A	N3-C4-C5	5.33	130.53	126.80
85	5	1367	G	C4-N9-C1'	5.33	133.43	126.50
85	5	1594	A	OP1-P-OP2	5.33	127.59	119.60
85	5	1657	C	N3-C4-N4	5.33	121.73	118.00
85	5	2180	G	O5'-P-OP2	-5.33	100.91	105.70
85	5	2583	C	C2-N3-C4	5.33	122.56	119.90
1	2	1429	A	N9-C4-C5	5.33	107.93	105.80
36	1	645	A	N3-C4-N9	5.33	131.66	127.40
36	1	666	A	N3-C4-C5	-5.33	123.07	126.80
36	1	804	C	C6-N1-C2	5.33	122.43	120.30
36	1	1211	U	O5'-P-OP2	-5.33	100.91	105.70
36	1	1760	A	C4-C5-C6	-5.33	114.34	117.00
36	1	2824	G	C5-C6-O6	5.33	131.80	128.60
80	6	594	A	OP2-P-O3'	5.33	116.92	105.20
85	5	1231	A	C5-C6-N1	-5.33	115.04	117.70
85	5	1891	A	C4-C5-C6	5.33	119.66	117.00
85	5	2385	G	N7-C8-N9	-5.33	110.44	113.10
85	5	2430	A	C6-C5-N7	-5.33	128.57	132.30
1	2	185	U	N3-C4-O4	-5.33	115.67	119.40
1	2	305	C	C6-N1-C2	-5.33	118.17	120.30
36	1	501	A	N7-C8-N9	-5.33	111.14	113.80
36	1	669	U	OP1-P-OP2	-5.33	111.61	119.60
36	1	1306	G	C8-N9-C1'	-5.33	120.08	127.00
36	1	1387	G	C6-N1-C2	-5.33	121.91	125.10
36	1	1536	G	N1-C6-O6	-5.33	116.70	119.90
36	1	1588	A	C5-C6-N1	5.33	120.36	117.70
36	1	1612	A	OP1-P-OP2	5.33	127.59	119.60
36	1	1947	G	C4-C5-C6	5.33	122.00	118.80
36	1	2630	C	O5'-P-OP1	-5.33	100.91	105.70
36	1	3036	G	C5-C6-N1	5.33	114.16	111.50
56	N0	59	VAL	CG1-CB-CG2	-5.33	102.38	110.90
80	6	56	U	O5'-P-OP1	5.33	117.09	110.70
80	6	96	G	C5-C6-O6	5.33	131.79	128.60
80	6	794	U	N1-C2-N3	-5.33	111.70	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	913	G	N3-C2-N2	-5.33	116.17	119.90
80	6	975	C	C5-C6-N1	-5.33	118.34	121.00
80	6	994	G	OP2-P-O3'	5.33	116.92	105.20
80	6	1471	A	C5-N7-C8	-5.33	101.24	103.90
85	5	516	A	O5'-P-OP2	-5.33	100.91	105.70
85	5	834	U	O5'-P-OP2	-5.33	100.91	105.70
85	5	895	A	N7-C8-N9	5.33	116.46	113.80
85	5	1135	A	OP2-P-O3'	5.33	116.92	105.20
85	5	1524	A	C6-C5-N7	-5.33	128.57	132.30
85	5	1813	A	OP2-P-O3'	5.33	116.92	105.20
85	5	2762	A	OP2-P-O3'	5.33	116.92	105.20
85	5	2887	A	C4-C5-N7	-5.33	108.04	110.70
85	5	3206	C	N1-C2-N3	5.33	122.93	119.20
85	5	3266	G	N1-C2-N2	5.33	120.99	116.20
85	5	3290	G	C8-N9-C4	-5.33	104.27	106.40
38	8	25	G	N3-C2-N2	-5.33	116.17	119.90
46	19	48	VAL	CG1-CB-CG2	-5.33	102.38	110.90
1	2	103	A	C6-C5-N7	-5.32	128.57	132.30
1	2	180	A	N1-C2-N3	-5.32	126.64	129.30
1	2	212	U	N1-C2-O2	5.32	126.53	122.80
1	2	1764	A	C5-C6-N6	5.32	127.96	123.70
36	1	239	G	C4-C5-N7	5.32	112.93	110.80
36	1	712	G	C8-N9-C4	5.32	108.53	106.40
36	1	848	A	OP1-P-OP2	-5.32	111.62	119.60
36	1	1218	U	N3-C4-O4	-5.32	115.67	119.40
36	1	1875	G	C2-N3-C4	-5.32	109.24	111.90
36	1	1924	U	C5-C4-O4	5.32	129.09	125.90
36	1	2206	G	N1-C2-N3	-5.32	120.71	123.90
36	1	2782	U	OP2-P-O3'	5.32	116.91	105.20
36	1	2957	G	O4'-C1'-N9	-5.32	103.94	108.20
38	4	76	C	OP1-P-O3'	-5.32	93.49	105.20
80	6	531	C	N3-C4-N4	5.32	121.73	118.00
80	6	542	A	N9-C4-C5	5.32	107.93	105.80
80	6	1073	G	N3-C4-N9	-5.32	122.81	126.00
85	5	61	A	C6-C5-N7	-5.32	128.57	132.30
85	5	160	G	C2-N3-C4	-5.32	109.24	111.90
85	5	421	G	C5-N7-C8	-5.32	101.64	104.30
85	5	604	G	N7-C8-N9	5.32	115.76	113.10
85	5	936	A	O4'-C1'-N9	5.32	112.46	108.20
85	5	1468	A	C8-N9-C4	-5.32	103.67	105.80
85	5	3332	U	C2-N3-C4	-5.32	123.81	127.00
38	8	149	A	O5'-P-OP1	-5.32	100.91	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	470	A	C5-C6-N1	-5.32	115.04	117.70
36	1	1077	U	N1-C1'-C2'	-5.32	106.14	112.00
36	1	2143	A	C6-N1-C2	-5.32	115.41	118.60
36	1	2366	C	OP2-P-O3'	5.32	116.91	105.20
36	1	2787	G	N7-C8-N9	5.32	115.76	113.10
38	4	1	A	N3-C4-N9	-5.32	123.14	127.40
85	5	344	A	OP1-P-OP2	-5.32	111.62	119.60
85	5	1770	G	C5-C6-N1	5.32	114.16	111.50
85	5	2908	G	N1-C2-N2	5.32	120.99	116.20
1	2	773	U	N3-C4-C5	-5.32	111.41	114.60
1	2	1108	A	N1-C2-N3	5.32	131.96	129.30
1	2	1284	U	O5'-P-OP2	-5.32	100.91	105.70
1	2	1731	G	N9-C4-C5	5.32	107.53	105.40
36	1	318	A	C5-N7-C8	-5.32	101.24	103.90
36	1	696	C	C5-C4-N4	-5.32	116.48	120.20
36	1	709	A	C8-N9-C1'	-5.32	118.12	127.70
36	1	1009	A	N1-C6-N6	-5.32	115.41	118.60
36	1	1134	G	C4-C5-C6	5.32	121.99	118.80
36	1	1814	A	C4-C5-N7	5.32	113.36	110.70
36	1	2599	U	N1-C2-N3	5.32	118.09	114.90
36	1	2607	G	C8-N9-C1'	-5.32	120.08	127.00
36	1	3003	G	N3-C2-N2	-5.32	116.18	119.90
36	1	3056	U	O5'-P-OP2	5.32	117.08	110.70
36	1	3240	C	C6-N1-C2	-5.32	118.17	120.30
38	4	59	A	P-O3'-C3'	5.32	126.08	119.70
41	L4	194	TYR	CB-CG-CD2	5.32	124.19	121.00
80	6	925	G	N3-C2-N2	-5.32	116.18	119.90
85	5	571	U	C5-C4-O4	-5.32	122.71	125.90
85	5	707	U	N3-C4-C5	-5.32	111.41	114.60
85	5	727	G	N3-C4-C5	5.32	131.26	128.60
85	5	1005	G	C8-N9-C4	5.32	108.53	106.40
85	5	1301	A	C6-N1-C2	-5.32	115.41	118.60
85	5	1744	G	N3-C4-N9	-5.32	122.81	126.00
85	5	1874	A	N1-C2-N3	5.32	131.96	129.30
85	5	2644	C	C6-N1-C2	5.32	122.43	120.30
85	5	2818	U	O4'-C1'-N1	-5.32	103.94	108.20
85	5	2910	A	OP2-P-O3'	5.32	116.91	105.20
85	5	3128	G	C6-N1-C2	-5.32	121.91	125.10
1	2	1116	A	C5-C6-N6	5.32	127.95	123.70
1	2	1583	A	C5'-C4'-O4'	-5.32	102.72	109.10
1	2	1603	C	O5'-P-OP1	-5.32	100.91	105.70
36	1	148	G	N3-C2-N2	-5.32	116.18	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	357	A	N1-C2-N3	5.32	131.96	129.30
36	1	498	A	C2-N3-C4	5.32	113.26	110.60
36	1	684	G	C6-C5-N7	-5.32	127.21	130.40
36	1	1448	U	N1-C2-N3	5.32	118.09	114.90
36	1	1514	G	N7-C8-N9	5.32	115.76	113.10
36	1	1762	C	N3-C4-C5	-5.32	119.77	121.90
36	1	2209	U	O4'-C1'-N1	5.32	112.45	108.20
36	1	2818	U	N3-C2-O2	5.32	125.92	122.20
36	1	2871	G	C5-C6-N1	5.32	114.16	111.50
38	4	105	A	C6-C5-N7	-5.32	128.58	132.30
64	N8	46	ASP	CB-CG-OD2	5.32	123.09	118.30
80	6	356	G	N9-C4-C5	5.32	107.53	105.40
85	5	439	C	N3-C4-N4	5.32	121.72	118.00
85	5	2790	A	C4-C5-N7	5.32	113.36	110.70
1	2	1	U	P-O3'-C3'	-5.32	113.32	119.70
1	2	3	U	O5'-P-OP1	-5.32	100.92	105.70
1	2	176	C	N3-C2-O2	5.32	125.62	121.90
1	2	403	G	N1-C6-O6	-5.32	116.71	119.90
1	2	568	G	O5'-P-OP2	-5.32	100.91	105.70
1	2	570	A	OP1-P-O3'	5.32	116.90	105.20
1	2	1171	G	N9-C4-C5	5.32	107.53	105.40
1	2	1744	U	P-O3'-C3'	5.32	126.08	119.70
36	1	22	G	N9-C4-C5	5.32	107.53	105.40
36	1	791	A	C6-N1-C2	-5.32	115.41	118.60
36	1	835	G	C5-C6-O6	5.32	131.79	128.60
36	1	856	G	N3-C4-N9	5.32	129.19	126.00
36	1	1003	A	C5-C6-N6	5.32	127.95	123.70
36	1	1023	C	N3-C2-O2	5.32	125.62	121.90
36	1	1284	C	C6-N1-C2	-5.32	118.17	120.30
36	1	1285	G	N1-C2-N2	-5.32	111.42	116.20
36	1	1610	G	O5'-P-OP1	5.32	117.08	110.70
36	1	1836	C	C5-C6-N1	5.32	123.66	121.00
36	1	2156	C	C5-C6-N1	-5.32	118.34	121.00
36	1	2221	G	C8-N9-C4	5.32	108.53	106.40
36	1	2296	A	N1-C6-N6	-5.32	115.41	118.60
36	1	2362	C	N3-C4-N4	5.32	121.72	118.00
36	1	2430	A	N1-C2-N3	5.32	131.96	129.30
36	1	2848	G	OP2-P-O3'	5.32	116.90	105.20
36	1	3011	A	N1-C2-N3	5.32	131.96	129.30
36	1	3244	A	C6-C5-N7	-5.32	128.58	132.30
37	3	117	A	C2-N3-C4	-5.32	107.94	110.60
38	4	122	U	N3-C2-O2	-5.32	118.48	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	412	A	C6-N1-C2	-5.32	115.41	118.60
80	6	1557	U	N3-C2-O2	-5.32	118.48	122.20
85	5	781	G	N9-C4-C5	5.32	107.53	105.40
85	5	1203	A	N3-C4-C5	-5.32	123.08	126.80
85	5	1763	U	C5-C6-N1	5.32	125.36	122.70
85	5	2425	G	O5'-P-OP2	-5.32	100.91	105.70
85	5	2757	U	C2-N1-C1'	5.32	124.08	117.70
85	5	2995	A	O4'-C1'-N9	5.32	112.45	108.20
85	5	3140	G	C4-N9-C1'	5.32	133.41	126.50
85	5	3148	U	OP2-P-O3'	5.32	116.90	105.20
85	5	3264	G	C6-C5-N7	-5.32	127.21	130.40
85	5	3383	G	C6-C5-N7	-5.32	127.21	130.40
38	8	22	U	C6-N1-C2	5.32	124.19	121.00
1	2	255	U	O5'-P-OP2	5.32	117.08	110.70
1	2	475	A	C8-N9-C4	-5.32	103.67	105.80
1	2	648	G	C5-C6-N1	5.32	114.16	111.50
1	2	1168	U	N1-C2-O2	5.32	126.52	122.80
36	1	46	U	O5'-P-OP1	5.32	117.08	110.70
36	1	148	G	C5-C6-O6	5.32	131.79	128.60
36	1	572	A	OP1-P-OP2	5.32	127.58	119.60
36	1	604	G	C5-N7-C8	-5.32	101.64	104.30
36	1	1303	A	C4-C5-C6	-5.32	114.34	117.00
36	1	1445	U	C6-N1-C2	-5.32	117.81	121.00
36	1	2113	A	C6-N1-C2	-5.32	115.41	118.60
36	1	2157	G	N9-C4-C5	-5.32	103.27	105.40
36	1	2224	A	N9-C4-C5	5.32	107.93	105.80
36	1	3120	C	OP1-P-O3'	5.32	116.89	105.20
37	3	111	U	C5-C6-N1	-5.32	120.04	122.70
80	6	293	U	N1-C2-O2	-5.32	119.08	122.80
80	6	447	U	C6-N1-C2	-5.32	117.81	121.00
80	6	504	U	C6-N1-C2	-5.32	117.81	121.00
80	6	535	A	OP1-P-OP2	-5.32	111.63	119.60
80	6	702	G	C6-C5-N7	-5.32	127.21	130.40
80	6	875	G	C8-N9-C4	-5.32	104.27	106.40
80	6	986	G	N9-C4-C5	5.32	107.53	105.40
80	6	1627	U	O5'-P-OP2	5.32	117.08	110.70
85	5	173	G	N3-C2-N2	5.32	123.62	119.90
85	5	280	U	N1-C2-N3	5.32	118.09	114.90
85	5	728	G	O5'-P-OP2	5.32	117.08	110.70
85	5	901	G	C6-N1-C2	-5.32	121.91	125.10
85	5	2381	G	C4-N9-C1'	5.32	133.41	126.50
85	5	2414	G	OP2-P-O3'	5.32	116.89	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2531	C	N3-C2-O2	-5.32	118.18	121.90
85	5	2814	G	N7-C8-N9	-5.32	110.44	113.10
85	5	3024	A	C8-N9-C4	-5.32	103.67	105.80
85	5	3219	G	O5'-P-OP1	5.32	117.08	110.70
85	5	3276	G	O5'-P-OP1	-5.32	100.92	105.70
38	8	21	C	C4-C5-C6	5.32	120.06	117.40
42	15	140	ARG	NE-CZ-NH2	-5.32	117.64	120.30
1	2	169	A	N7-C8-N9	5.31	116.46	113.80
1	2	428	A	OP2-P-O3'	5.31	116.89	105.20
36	1	1121	U	C2-N1-C1'	-5.31	111.32	117.70
36	1	2560	C	N3-C4-C5	5.31	124.03	121.90
36	1	2607	G	OP1-P-OP2	5.31	127.57	119.60
80	6	335	U	N3-C4-C5	-5.31	111.41	114.60
80	6	1016	C	C2-N1-C1'	5.31	124.64	118.80
80	6	1614	A	C8-N9-C4	5.31	107.93	105.80
85	5	113	C	C4-C5-C6	-5.31	114.74	117.40
85	5	739	G	OP1-P-O3'	5.31	116.89	105.20
85	5	3101	G	OP1-P-OP2	5.31	127.57	119.60
85	5	3247	G	O5'-P-OP1	5.31	117.08	110.70
38	8	30	C	C5-C4-N4	-5.31	116.48	120.20
62	n6	54	ASP	CB-CG-OD2	5.31	123.08	118.30
1	2	75	U	N1-C2-O2	5.31	126.52	122.80
1	2	347	G	C5-N7-C8	-5.31	101.64	104.30
1	2	946	A	C2-N3-C4	5.31	113.26	110.60
1	2	1079	C	C2-N1-C1'	5.31	124.64	118.80
1	2	1082	U	C5-C4-O4	5.31	129.09	125.90
36	1	325	A	OP2-P-O3'	5.31	116.89	105.20
36	1	377	A	OP1-P-OP2	5.31	127.57	119.60
36	1	411	U	C5-C4-O4	5.31	129.09	125.90
36	1	762	U	OP1-P-O3'	-5.31	93.51	105.20
36	1	953	G	N1-C6-O6	5.31	123.09	119.90
36	1	1012	G	N1-C6-O6	-5.31	116.71	119.90
36	1	1155	C	O5'-P-OP1	-5.31	100.92	105.70
36	1	1622	U	OP1-P-OP2	-5.31	111.63	119.60
36	1	1661	G	C8-N9-C1'	-5.31	120.09	127.00
36	1	2104	A	N9-C4-C5	-5.31	103.67	105.80
36	1	2521	U	N3-C4-C5	5.31	117.79	114.60
36	1	2780	A	N1-C6-N6	-5.31	115.41	118.60
36	1	2904	U	C5-C4-O4	5.31	129.09	125.90
36	1	2952	G	N3-C2-N2	-5.31	116.18	119.90
36	1	3364	C	C5-C6-N1	-5.31	118.34	121.00
37	3	84	A	C6-N1-C2	-5.31	115.41	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	101	U	N3-C4-C5	-5.31	111.41	114.60
78	Q2	8	ARG	NE-CZ-NH1	5.31	122.96	120.30
80	6	397	A	C5-N7-C8	-5.31	101.24	103.90
80	6	504	U	N3-C4-C5	-5.31	111.41	114.60
80	6	611	U	C4-C5-C6	5.31	122.89	119.70
80	6	651	G	C4-C5-N7	5.31	112.92	110.80
80	6	1368	G	N1-C6-O6	-5.31	116.71	119.90
85	5	1189	C	N1-C2-O2	-5.31	115.71	118.90
85	5	1363	A	N1-C6-N6	-5.31	115.41	118.60
85	5	1431	G	N1-C2-N3	-5.31	120.71	123.90
85	5	1610	G	C5-N7-C8	5.31	106.96	104.30
85	5	1614	C	C2-N3-C4	-5.31	117.24	119.90
85	5	1627	U	N1-C2-O2	-5.31	119.08	122.80
85	5	2526	C	O5'-P-OP1	5.31	117.07	110.70
85	5	2801	A	O5'-P-OP2	-5.31	100.92	105.70
85	5	2982	A	N1-C6-N6	-5.31	115.41	118.60
85	5	3008	A	C4-C5-N7	-5.31	108.04	110.70
85	5	3272	C	N1-C2-O2	-5.31	115.71	118.90
85	5	3280	U	OP1-P-OP2	-5.31	111.63	119.60
37	7	19	C	N3-C2-O2	-5.31	118.18	121.90
37	7	56	A	C6-N1-C2	-5.31	115.41	118.60
38	8	84	C	N3-C4-C5	-5.31	119.78	121.90
75	o9	29	LEU	CA-CB-CG	5.31	127.52	115.30
1	2	1181	G	C8-N9-C4	-5.31	104.28	106.40
1	2	1764	A	C2-N3-C4	-5.31	107.94	110.60
36	1	837	A	OP1-P-OP2	-5.31	111.63	119.60
36	1	1131	G	C4-C5-N7	-5.31	108.67	110.80
36	1	1394	A	O5'-P-OP2	-5.31	100.92	105.70
36	1	2123	G	OP1-P-O3'	5.31	116.89	105.20
36	1	3208	G	OP2-P-O3'	5.31	116.88	105.20
38	4	128	U	OP1-P-OP2	5.31	127.57	119.60
38	4	132	G	N1-C2-N3	-5.31	120.71	123.90
80	6	319	U	C5-C6-N1	5.31	125.36	122.70
80	6	570	A	N1-C6-N6	5.31	121.79	118.60
80	6	910	C	N3-C4-C5	-5.31	119.78	121.90
80	6	1421	A	C5-C6-N6	5.31	127.95	123.70
80	6	1512	G	N1-C2-N3	5.31	127.09	123.90
85	5	568	G	C5-N7-C8	-5.31	101.64	104.30
85	5	1040	A	C8-N9-C4	5.31	107.92	105.80
85	5	1249	G	N1-C6-O6	5.31	123.09	119.90
85	5	2254	U	OP2-P-O3'	5.31	116.89	105.20
85	5	2756	C	C6-N1-C1'	5.31	127.17	120.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3373	U	N3-C4-O4	-5.31	115.68	119.40
1	2	97	C	C4-C5-C6	5.31	120.06	117.40
1	2	151	G	O4'-C1'-N9	5.31	112.45	108.20
1	2	437	A	C5-C6-N1	-5.31	115.05	117.70
1	2	658	C	C2-N3-C4	5.31	122.56	119.90
1	2	1044	A	C5-N7-C8	5.31	106.56	103.90
1	2	1383	A	N9-C4-C5	-5.31	103.68	105.80
1	2	1776	G	N1-C2-N3	5.31	127.09	123.90
36	1	225	C	N3-C4-N4	5.31	121.72	118.00
36	1	667	C	C5-C6-N1	5.31	123.66	121.00
36	1	784	A	OP2-P-O3'	5.31	116.88	105.20
36	1	915	A	OP1-P-O3'	5.31	116.88	105.20
36	1	1783	U	N3-C4-C5	-5.31	111.41	114.60
36	1	2156	C	OP1-P-OP2	5.31	127.56	119.60
36	1	2639	G	N3-C4-C5	-5.31	125.95	128.60
42	L5	273	ARG	NE-CZ-NH1	-5.31	117.65	120.30
80	6	331	A	C5-C6-N1	-5.31	115.05	117.70
80	6	1188	G	C5-C6-O6	-5.31	125.42	128.60
85	5	63	A	N7-C8-N9	-5.31	111.14	113.80
85	5	341	G	C8-N9-C4	-5.31	104.28	106.40
85	5	342	A	C5-C6-N6	-5.31	119.45	123.70
85	5	701	G	C8-N9-C1'	-5.31	120.10	127.00
85	5	746	A	C5-C6-N6	5.31	127.95	123.70
85	5	900	G	N3-C2-N2	-5.31	116.18	119.90
85	5	974	G	N3-C4-C5	-5.31	125.94	128.60
85	5	1043	C	C5-C6-N1	-5.31	118.34	121.00
85	5	1883	A	OP2-P-O3'	5.31	116.88	105.20
85	5	1895	A	N3-C4-C5	5.31	130.52	126.80
85	5	2944	U	C5-C6-N1	5.31	125.36	122.70
85	5	3144	G	OP2-P-O3'	5.31	116.88	105.20
85	5	3337	G	O5'-P-OP2	-5.31	100.92	105.70
85	5	3362	A	O4'-C1'-N9	5.31	112.45	108.20
37	7	13	A	N1-C6-N6	-5.31	115.41	118.60
1	2	848	A	N1-C2-N3	5.31	131.95	129.30
1	2	1664	A	C5-C6-N6	5.31	127.95	123.70
36	1	219	A	N9-C4-C5	5.31	107.92	105.80
36	1	678	G	C2-N3-C4	-5.31	109.25	111.90
36	1	794	U	OP2-P-O3'	5.31	116.88	105.20
36	1	840	C	OP1-P-O3'	-5.31	93.52	105.20
36	1	844	G	N1-C6-O6	5.31	123.08	119.90
36	1	1030	A	N7-C8-N9	-5.31	111.15	113.80
36	1	1295	G	C2-N3-C4	5.31	114.55	111.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1586	G	O5'-P-OP2	-5.31	100.92	105.70
36	1	1655	G	C8-N9-C4	5.31	108.52	106.40
36	1	2105	G	N1-C6-O6	5.31	123.08	119.90
36	1	2112	U	O5'-P-OP1	-5.31	100.92	105.70
36	1	3288	G	N9-C4-C5	-5.31	103.28	105.40
36	1	3393	U	N3-C2-O2	5.31	125.92	122.20
37	3	47	C	C6-N1-C2	5.31	122.42	120.30
37	3	120	C	O4'-C1'-N1	5.31	112.44	108.20
38	4	30	C	O5'-P-OP2	-5.31	100.92	105.70
80	6	770	A	C6-N1-C2	-5.31	115.42	118.60
80	6	915	A	N7-C8-N9	5.31	116.45	113.80
80	6	1188	G	N1-C6-O6	5.31	123.08	119.90
4	s2	207	LEU	CA-CB-CG	5.31	127.51	115.30
8	s6	121	LEU	CB-CG-CD2	-5.31	101.98	111.00
85	5	145	G	N7-C8-N9	5.31	115.75	113.10
85	5	169	U	C4-C5-C6	-5.31	116.52	119.70
85	5	248	U	N3-C2-O2	-5.31	118.48	122.20
85	5	567	G	N1-C2-N3	5.31	127.08	123.90
85	5	929	A	C8-N9-C1'	-5.31	118.15	127.70
85	5	2741	C	OP1-P-OP2	-5.31	111.64	119.60
85	5	3356	G	O5'-P-OP1	-5.31	100.92	105.70
46	19	38	LEU	CB-CG-CD2	-5.31	101.98	111.00
1	2	422	G	OP1-P-OP2	-5.31	111.64	119.60
1	2	1488	A	OP1-P-OP2	5.31	127.56	119.60
36	1	697	A	C6-C5-N7	-5.31	128.59	132.30
36	1	1667	A	N1-C6-N6	-5.31	115.42	118.60
36	1	1821	U	N3-C2-O2	5.31	125.91	122.20
37	3	25	G	N3-C4-C5	-5.31	125.95	128.60
80	6	606	A	N7-C8-N9	5.31	116.45	113.80
80	6	1536	G	N3-C2-N2	5.31	123.61	119.90
80	6	1626	U	C2-N3-C4	-5.31	123.82	127.00
85	5	925	A	O5'-P-OP1	-5.31	100.92	105.70
85	5	1189	C	OP1-P-O3'	5.31	116.87	105.20
85	5	1844	C	OP2-P-O3'	5.31	116.87	105.20
85	5	2292	U	C5-C6-N1	5.31	125.35	122.70
85	5	3059	G	C5-C6-O6	5.31	131.78	128.60
37	7	20	A	C5-N7-C8	5.31	106.55	103.90
1	2	467	G	N1-C2-N3	5.30	127.08	123.90
1	2	768	U	OP1-P-O3'	5.30	116.87	105.20
1	2	889	A	OP1-P-OP2	-5.30	111.64	119.60
1	2	932	C	N3-C2-O2	-5.30	118.19	121.90
1	2	1082	U	N3-C4-C5	-5.30	111.42	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1094	G	O4'-C1'-N9	-5.30	103.96	108.20
36	1	374	A	N9-C1'-C2'	5.30	120.89	114.00
36	1	1240	A	C2-N3-C4	5.30	113.25	110.60
36	1	1631	C	N3-C4-N4	-5.30	114.29	118.00
36	1	1730	G	N1-C2-N2	-5.30	111.43	116.20
36	1	1902	G	C5-N7-C8	-5.30	101.65	104.30
36	1	2381	G	N1-C6-O6	5.30	123.08	119.90
36	1	2552	C	OP1-P-OP2	-5.30	111.64	119.60
41	L4	197	ARG	NE-CZ-NH2	5.30	122.95	120.30
80	6	73	U	C2-N1-C1'	-5.30	111.33	117.70
80	6	252	U	C4-C5-C6	5.30	122.88	119.70
80	6	448	C	P-O3'-C3'	-5.30	113.33	119.70
85	5	344	A	N9-C4-C5	5.30	107.92	105.80
85	5	1184	A	O5'-P-OP1	5.30	117.07	110.70
85	5	1294	A	N9-C4-C5	5.30	107.92	105.80
85	5	1809	A	C6-C5-N7	-5.30	128.59	132.30
85	5	2514	U	N3-C2-O2	5.30	125.91	122.20
85	5	2943	G	C4-N9-C1'	5.30	133.40	126.50
85	5	3019	U	O5'-P-OP2	5.30	117.07	110.70
85	5	3094	A	N1-C6-N6	5.30	121.78	118.60
37	7	53	U	N1-C2-N3	5.30	118.08	114.90
37	7	101	G	C5-C6-O6	-5.30	125.42	128.60
38	8	102	U	N3-C2-O2	5.30	125.91	122.20
59	n3	129	VAL	CG1-CB-CG2	-5.30	102.41	110.90
36	1	143	G	N3-C4-N9	5.30	129.18	126.00
36	1	1187	C	C4-C5-C6	-5.30	114.75	117.40
36	1	1801	U	C6-N1-C2	-5.30	117.82	121.00
36	1	3034	C	C5-C4-N4	-5.30	116.49	120.20
80	6	1364	G	N1-C2-N3	-5.30	120.72	123.90
85	5	1286	A	OP1-P-O3'	5.30	116.87	105.20
1	2	94	U	O5'-P-OP2	-5.30	100.93	105.70
1	2	1575	A	N3-C4-C5	-5.30	123.09	126.80
1	2	1616	A	C8-N9-C4	-5.30	103.68	105.80
36	1	583	G	N3-C4-N9	-5.30	122.82	126.00
36	1	910	G	C6-C5-N7	-5.30	127.22	130.40
36	1	1078	U	N1-C2-N3	5.30	118.08	114.90
36	1	1485	G	C4-C5-N7	5.30	112.92	110.80
36	1	1616	U	O5'-P-OP1	-5.30	100.93	105.70
36	1	1847	A	O5'-P-OP2	-5.30	100.93	105.70
36	1	2216	G	N1-C2-N3	5.30	127.08	123.90
36	1	2334	U	C6-N1-C1'	-5.30	113.78	121.20
36	1	2334	U	C4-C5-C6	5.30	122.88	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2793	G	N3-C4-N9	-5.30	122.82	126.00
38	4	83	C	P-O3'-C3'	-5.30	113.34	119.70
80	6	67	A	OP1-P-OP2	5.30	127.55	119.60
80	6	844	A	C5-N7-C8	-5.30	101.25	103.90
80	6	934	C	C6-N1-C2	-5.30	118.18	120.30
80	6	1555	A	N9-C4-C5	-5.30	103.68	105.80
80	6	1781	A	N3-C4-C5	-5.30	123.09	126.80
85	5	348	A	C6-N1-C2	-5.30	115.42	118.60
85	5	391	A	C5-N7-C8	5.30	106.55	103.90
85	5	857	G	C4-C5-C6	5.30	121.98	118.80
85	5	929	A	OP1-P-OP2	5.30	127.55	119.60
85	5	2137	U	C2-N1-C1'	5.30	124.06	117.70
85	5	3000	A	C8-N9-C4	5.30	107.92	105.80
85	5	3192	U	C5-C4-O4	-5.30	122.72	125.90
85	5	3266	G	OP1-P-OP2	-5.30	111.65	119.60
1	2	381	C	OP1-P-O3'	5.30	116.86	105.20
1	2	536	C	N3-C4-N4	5.30	121.71	118.00
36	1	354	U	N3-C4-C5	-5.30	111.42	114.60
36	1	532	A	C4-C5-C6	-5.30	114.35	117.00
36	1	887	G	C8-N9-C4	5.30	108.52	106.40
36	1	1163	A	C5-N7-C8	-5.30	101.25	103.90
36	1	1395	G	C5-N7-C8	-5.30	101.65	104.30
36	1	1724	U	N3-C2-O2	5.30	125.91	122.20
36	1	2549	G	N7-C8-N9	-5.30	110.45	113.10
36	1	2911	A	C6-N1-C2	-5.30	115.42	118.60
36	1	3015	G	O4'-C1'-N9	5.30	112.44	108.20
36	1	3089	C	C2-N3-C4	-5.30	117.25	119.90
46	L9	68	LEU	CB-CG-CD2	5.30	120.01	111.00
80	6	1101	G	N1-C6-O6	5.30	123.08	119.90
80	6	1682	U	C5-C6-N1	5.30	125.35	122.70
80	6	1744	A	N7-C8-N9	-5.30	111.15	113.80
85	5	20	A	C4-C5-N7	-5.30	108.05	110.70
85	5	137	G	O5'-P-OP2	5.30	117.06	110.70
85	5	1190	A	C6-C5-N7	5.30	136.01	132.30
85	5	1289	G	N7-C8-N9	5.30	115.75	113.10
85	5	1474	A	N3-C4-C5	5.30	130.51	126.80
85	5	1585	C	C5-C6-N1	-5.30	118.35	121.00
85	5	1682	U	C2-N3-C4	5.30	130.18	127.00
85	5	2207	A	C5-C6-N1	-5.30	115.05	117.70
85	5	2414	G	C2-N3-C4	-5.30	109.25	111.90
85	5	2680	A	N1-C2-N3	5.30	131.95	129.30
38	8	103	G	C4-N9-C1'	5.30	133.39	126.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	479	C	C2-N3-C4	-5.30	117.25	119.90
36	1	43	A	N3-C4-N9	-5.30	123.16	127.40
36	1	537	A	C5-C6-N1	5.30	120.35	117.70
36	1	652	G	C5-C6-O6	-5.30	125.42	128.60
36	1	1477	A	O5'-P-OP2	-5.30	100.93	105.70
36	1	1510	G	N3-C4-N9	5.30	129.18	126.00
36	1	1671	C	C4-C5-C6	-5.30	114.75	117.40
36	1	3140	G	OP2-P-O3'	5.30	116.86	105.20
36	1	3337	G	C6-C5-N7	-5.30	127.22	130.40
80	6	7	G	N1-C6-O6	5.30	123.08	119.90
80	6	113	U	C2-N1-C1'	-5.30	111.34	117.70
80	6	474	A	N1-C2-N3	-5.30	126.65	129.30
80	6	802	G	N1-C6-O6	5.30	123.08	119.90
80	6	1547	A	C2-N3-C4	-5.30	107.95	110.60
85	5	426	G	C6-C5-N7	5.30	133.58	130.40
85	5	505	G	N7-C8-N9	5.30	115.75	113.10
85	5	722	G	N3-C4-C5	-5.30	125.95	128.60
85	5	1054	A	OP1-P-OP2	5.30	127.55	119.60
85	5	3026	G	C8-N9-C4	-5.30	104.28	106.40
42	15	232	ASP	CB-CG-OD1	5.30	123.07	118.30
1	2	44	U	O5'-P-OP1	5.30	117.06	110.70
36	1	180	C	C6-N1-C2	5.30	122.42	120.30
36	1	584	G	N7-C8-N9	-5.30	110.45	113.10
36	1	637	C	C4'-C3'-O3'	5.30	123.59	113.00
36	1	784	A	C5-C6-N1	-5.30	115.05	117.70
36	1	1053	A	C2-N3-C4	-5.30	107.95	110.60
36	1	1474	A	O5'-P-OP2	5.30	117.06	110.70
36	1	1758	G	N3-C4-C5	-5.30	125.95	128.60
36	1	1806	A	N1-C6-N6	5.30	121.78	118.60
36	1	1846	C	O5'-P-OP1	5.30	117.06	110.70
36	1	2207	A	N3-C4-C5	-5.30	123.09	126.80
36	1	2360	C	N3-C4-N4	5.30	121.71	118.00
36	1	2541	U	P-O3'-C3'	5.30	126.06	119.70
36	1	3247	G	O5'-P-OP2	-5.30	100.93	105.70
80	6	127	G	C6-N1-C2	5.30	128.28	125.10
80	6	280	U	C6-N1-C1'	-5.30	113.78	121.20
80	6	1618	C	N3-C4-C5	5.30	124.02	121.90
85	5	616	G	C8-N9-C1'	-5.30	120.12	127.00
85	5	1166	G	N1-C6-O6	-5.30	116.72	119.90
85	5	1582	C	O5'-P-OP1	-5.30	100.93	105.70
85	5	1660	C	C6-N1-C2	-5.30	118.18	120.30
85	5	1875	G	O5'-P-OP2	-5.30	100.93	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2608	G	C2-N3-C4	-5.30	109.25	111.90
85	5	2811	A	OP1-P-OP2	5.30	127.54	119.60
38	8	46	G	N7-C8-N9	5.30	115.75	113.10
1	2	1515	U	C2-N3-C4	5.29	130.18	127.00
36	1	362	U	C5-C6-N1	-5.29	120.05	122.70
36	1	622	A	C4-C5-C6	5.29	119.65	117.00
36	1	1714	A	OP1-P-OP2	5.29	127.54	119.60
38	4	26	U	C2-N1-C1'	5.29	124.05	117.70
80	6	1555	A	C4-C5-C6	-5.29	114.35	117.00
85	5	150	A	N1-C6-N6	5.29	121.78	118.60
85	5	2679	A	C5-C6-N6	-5.29	119.46	123.70
85	5	2904	U	C2-N3-C4	-5.29	123.82	127.00
85	5	3049	A	C5-N7-C8	5.29	106.55	103.90
38	8	97	A	C5-N7-C8	5.29	106.55	103.90
1	2	238	U	N3-C4-O4	5.29	123.11	119.40
1	2	320	U	C6-N1-C2	5.29	124.18	121.00
1	2	996	A	C4-C5-C6	-5.29	114.35	117.00
1	2	1111	C	C6-N1-C2	-5.29	118.18	120.30
1	2	1327	A	N1-C2-N3	-5.29	126.65	129.30
1	2	1760	G	C4-C5-N7	5.29	112.92	110.80
36	1	437	G	N1-C2-N2	5.29	120.96	116.20
36	1	542	G	C6-N1-C2	5.29	128.28	125.10
36	1	610	G	C6-N1-C2	5.29	128.28	125.10
36	1	999	G	O4'-C1'-N9	5.29	112.44	108.20
36	1	1068	C	C5-C6-N1	-5.29	118.35	121.00
36	1	1392	G	C4-C5-N7	-5.29	108.68	110.80
36	1	1436	U	N1-C2-O2	-5.29	119.09	122.80
36	1	1442	U	C5-C6-N1	5.29	125.35	122.70
36	1	1489	A	O5'-P-OP2	5.29	117.05	110.70
36	1	1620	U	OP1-P-OP2	-5.29	111.66	119.60
36	1	1760	A	N9-C4-C5	5.29	107.92	105.80
36	1	3064	U	C6-N1-C2	-5.29	117.82	121.00
37	3	84	A	C5-C6-N1	5.29	120.35	117.70
38	4	16	G	N1-C2-N3	5.29	127.08	123.90
44	L7	83	LEU	CA-CB-CG	5.29	127.47	115.30
80	6	640	U	N3-C4-C5	5.29	117.78	114.60
80	6	1002	G	C2-N3-C4	-5.29	109.25	111.90
80	6	1123	C	O5'-P-OP2	-5.29	100.94	105.70
85	5	195	U	C5-C6-N1	-5.29	120.05	122.70
85	5	746	A	OP2-P-O3'	5.29	116.84	105.20
85	5	884	A	N3-C4-C5	5.29	130.50	126.80
85	5	1119	C	OP1-P-OP2	-5.29	111.66	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1904	C	OP2-P-O3'	5.29	116.84	105.20
85	5	2926	A	N1-C2-N3	5.29	131.95	129.30
85	5	3209	A	C5-N7-C8	5.29	106.55	103.90
85	5	3216	G	N3-C2-N2	5.29	123.61	119.90
85	5	3288	G	C8-N9-C4	5.29	108.52	106.40
1	2	15	U	C6-N1-C2	-5.29	117.83	121.00
1	2	145	A	C6-N1-C2	-5.29	115.42	118.60
1	2	1168	U	C6-N1-C1'	-5.29	113.79	121.20
36	1	102	C	C4-C5-C6	5.29	120.05	117.40
36	1	282	G	N3-C4-N9	-5.29	122.83	126.00
36	1	360	G	C8-N9-C1'	-5.29	120.12	127.00
36	1	532	A	N9-C4-C5	-5.29	103.68	105.80
36	1	740	G	N1-C2-N3	5.29	127.08	123.90
36	1	779	G	C4-C5-C6	5.29	121.97	118.80
36	1	2274	U	N3-C2-O2	-5.29	118.50	122.20
36	1	2694	A	OP1-P-O3'	5.29	116.84	105.20
36	1	2811	A	C5-C6-N6	5.29	127.93	123.70
80	6	92	A	OP2-P-O3'	5.29	116.84	105.20
80	6	801	G	C4-C5-N7	-5.29	108.68	110.80
80	6	1641	C	C2-N3-C4	5.29	122.55	119.90
85	5	130	A	N7-C8-N9	-5.29	111.16	113.80
85	5	224	C	N3-C4-N4	5.29	121.70	118.00
85	5	263	C	C5-C6-N1	5.29	123.65	121.00
85	5	403	C	C2-N1-C1'	5.29	124.62	118.80
85	5	571	U	O5'-P-OP1	5.29	117.05	110.70
85	5	591	G	C6-N1-C2	5.29	128.28	125.10
85	5	835	G	N1-C2-N2	-5.29	111.44	116.20
85	5	1328	C	C2-N3-C4	-5.29	117.25	119.90
85	5	1357	G	N1-C2-N2	-5.29	111.44	116.20
85	5	1389	G	N3-C4-C5	5.29	131.25	128.60
85	5	1481	A	N3-C4-C5	-5.29	123.10	126.80
85	5	1490	A	C5-C6-N6	5.29	127.93	123.70
85	5	1619	A	C6-C5-N7	-5.29	128.60	132.30
85	5	1793	C	OP1-P-OP2	-5.29	111.66	119.60
85	5	2325	G	P-O3'-C3'	-5.29	113.35	119.70
85	5	2342	U	C5-C6-N1	-5.29	120.05	122.70
85	5	2637	A	C2-N3-C4	-5.29	107.95	110.60
85	5	3227	A	C2-N3-C4	-5.29	107.95	110.60
1	2	1385	G	N1-C6-O6	5.29	123.07	119.90
1	2	1793	G	N1-C2-N3	-5.29	120.73	123.90
36	1	282	G	N1-C2-N2	-5.29	111.44	116.20
36	1	846	A	O5'-P-OP2	5.29	117.05	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2226	U	O5'-P-OP2	5.29	117.05	110.70
36	1	2831	G	C4-C5-N7	-5.29	108.68	110.80
36	1	3144	G	C5-N7-C8	-5.29	101.66	104.30
36	1	3326	G	C5-N7-C8	5.29	106.94	104.30
36	1	3352	U	N3-C2-O2	5.29	125.90	122.20
80	6	322	G	C5-C6-N1	-5.29	108.86	111.50
80	6	531	C	N1-C2-O2	-5.29	115.73	118.90
85	5	1403	C	C5-C4-N4	-5.29	116.50	120.20
85	5	2937	G	C4-C5-C6	5.29	121.97	118.80
37	7	105	C	N3-C4-C5	-5.29	119.78	121.90
37	7	110	G	C5-N7-C8	-5.29	101.66	104.30
1	2	388	G	C5-C6-O6	-5.29	125.43	128.60
1	2	420	A	C5-C6-N1	5.29	120.34	117.70
1	2	1306	C	C5-C6-N1	-5.29	118.36	121.00
1	2	1621	G	C5-N7-C8	-5.29	101.66	104.30
36	1	104	G	OP2-P-O3'	5.29	116.83	105.20
36	1	303	G	P-O3'-C3'	-5.29	113.35	119.70
36	1	311	C	C4-C5-C6	5.29	120.04	117.40
36	1	719	U	P-O3'-C3'	-5.29	113.35	119.70
36	1	1644	C	C5-C6-N1	5.29	123.64	121.00
36	1	2197	C	C5-C4-N4	-5.29	116.50	120.20
36	1	2842	U	O5'-P-OP1	-5.29	100.94	105.70
36	1	2959	C	O5'-P-OP1	5.29	117.05	110.70
36	1	3286	G	O5'-P-OP1	-5.29	100.94	105.70
80	6	293	U	C2-N3-C4	-5.29	123.83	127.00
80	6	335	U	N1-C2-O2	5.29	126.50	122.80
80	6	436	A	C5-N7-C8	-5.29	101.26	103.90
80	6	624	G	N3-C4-N9	-5.29	122.83	126.00
80	6	801	G	O5'-P-OP1	5.29	117.05	110.70
80	6	885	G	C5-C6-N1	-5.29	108.86	111.50
80	6	956	C	OP1-P-OP2	-5.29	111.67	119.60
80	6	1456	C	N1-C2-O2	5.29	122.07	118.90
80	6	1631	A	O5'-P-OP2	-5.29	100.94	105.70
80	6	1752	U	N3-C2-O2	-5.29	118.50	122.20
85	5	127	G	N9-C4-C5	-5.29	103.28	105.40
85	5	393	U	C4-C5-C6	5.29	122.87	119.70
85	5	734	C	OP1-P-OP2	5.29	127.53	119.60
85	5	831	G	N7-C8-N9	-5.29	110.46	113.10
85	5	1152	G	N3-C4-C5	5.29	131.24	128.60
85	5	1472	U	OP1-P-O3'	5.29	116.84	105.20
85	5	1483	G	C5-C6-N1	5.29	114.14	111.50
85	5	1638	A	C2-N3-C4	-5.29	107.96	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2400	G	O5'-P-OP2	5.29	117.05	110.70
85	5	2506	U	N3-C4-O4	5.29	123.10	119.40
85	5	2688	U	OP1-P-O3'	5.29	116.83	105.20
85	5	2748	A	N7-C8-N9	-5.29	111.16	113.80
85	5	3013	U	C2-N1-C1'	5.29	124.05	117.70
85	5	3052	G	C8-N9-C4	-5.29	104.28	106.40
37	7	54	U	C5-C6-N1	-5.29	120.06	122.70
38	8	129	C	N3-C4-N4	5.29	121.70	118.00
1	2	91	G	N1-C2-N2	5.29	120.96	116.20
1	2	950	A	N9-C4-C5	-5.29	103.69	105.80
36	1	1188	U	O5'-P-OP2	-5.29	100.94	105.70
36	1	2244	A	C5-C6-N1	5.29	120.34	117.70
36	1	3336	A	C2-N3-C4	-5.29	107.96	110.60
40	L3	196	ARG	NE-CZ-NH1	-5.29	117.66	120.30
46	L9	78	MET	CG-SD-CE	-5.29	91.74	100.20
85	5	421	G	OP2-P-O3'	-5.29	93.57	105.20
85	5	616	G	C4-C5-N7	-5.29	108.69	110.80
85	5	1346	G	C5-C6-O6	-5.29	125.43	128.60
85	5	1794	G	N3-C2-N2	-5.29	116.20	119.90
1	2	509	G	N3-C2-N2	-5.29	116.20	119.90
1	2	789	A	C6-N1-C2	-5.29	115.43	118.60
1	2	976	A	C4-C5-C6	5.29	119.64	117.00
1	2	1047	G	N1-C2-N2	5.29	120.96	116.20
1	2	1073	C	N1-C2-O2	5.29	122.07	118.90
1	2	1469	G	C4-C5-C6	5.29	121.97	118.80
1	2	1657	C	C5-C6-N1	5.29	123.64	121.00
36	1	45	A	O5'-P-OP2	-5.29	100.94	105.70
36	1	171	G	N7-C8-N9	-5.29	110.46	113.10
36	1	364	G	N3-C4-N9	-5.29	122.83	126.00
36	1	959	C	C6-N1-C1'	-5.29	114.46	120.80
36	1	1827	C	OP1-P-OP2	-5.29	111.67	119.60
36	1	2102	U	N1-C2-N3	-5.29	111.73	114.90
36	1	2313	A	C4-C5-N7	5.29	113.34	110.70
80	6	149	C	OP1-P-O3'	5.29	116.83	105.20
80	6	454	U	N3-C2-O2	5.29	125.90	122.20
80	6	523	G	C6-N1-C2	-5.29	121.93	125.10
80	6	996	U	C6-N1-C1'	5.29	128.60	121.20
80	6	1110	G	C8-N9-C4	-5.29	104.29	106.40
80	6	1287	A	N1-C6-N6	-5.29	115.43	118.60
80	6	1712	A	C6-N1-C2	5.29	121.77	118.60
85	5	1513	G	C5-N7-C8	-5.29	101.66	104.30
85	5	1836	C	C2-N3-C4	5.29	122.54	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2115	G	C4-N9-C1'	5.29	133.37	126.50
38	8	105	A	C5-C6-N1	-5.29	115.06	117.70
1	2	286	C	O5'-P-OP1	-5.28	100.95	105.70
1	2	386	G	N9-C4-C5	5.28	107.51	105.40
1	2	410	A	N9-C4-C5	-5.28	103.69	105.80
1	2	1730	G	C8-N9-C4	5.28	108.51	106.40
36	1	143	G	OP1-P-OP2	5.28	127.53	119.60
36	1	1120	A	N3-C4-N9	5.28	131.63	127.40
36	1	1178	G	OP1-P-OP2	5.28	127.53	119.60
36	1	1604	G	C5-C6-O6	-5.28	125.43	128.60
36	1	3198	U	N3-C2-O2	-5.28	118.50	122.20
80	6	25	C	C2-N1-C1'	5.28	124.61	118.80
80	6	334	G	C8-N9-C4	-5.28	104.29	106.40
80	6	386	G	C4-C5-N7	5.28	112.91	110.80
80	6	1076	A	C4-C5-C6	-5.28	114.36	117.00
80	6	1440	C	OP1-P-OP2	-5.28	111.68	119.60
85	5	12	A	N1-C6-N6	5.28	121.77	118.60
85	5	125	C	C2-N3-C4	5.28	122.54	119.90
85	5	670	C	OP2-P-O3'	5.28	116.83	105.20
85	5	1575	A	C5-N7-C8	-5.28	101.26	103.90
85	5	1586	G	N1-C2-N3	5.28	127.07	123.90
85	5	2123	G	C5-C6-N1	-5.28	108.86	111.50
85	5	2218	G	N3-C4-N9	5.28	129.17	126.00
85	5	2249	G	C3'-C2'-C1'	-5.28	97.27	101.50
85	5	2428	U	OP2-P-O3'	5.28	116.83	105.20
85	5	2725	U	OP2-P-O3'	5.28	116.82	105.20
85	5	2813	A	C4-C5-C6	5.28	119.64	117.00
85	5	2872	A	N1-C6-N6	-5.28	115.43	118.60
85	5	3099	C	C5-C4-N4	-5.28	116.50	120.20
85	5	3135	U	N1-C2-O2	-5.28	119.10	122.80
36	1	365	A	OP1-P-O3'	5.28	116.82	105.20
36	1	668	G	C4-C5-N7	-5.28	108.69	110.80
36	1	843	A	C6-C5-N7	-5.28	128.60	132.30
36	1	1200	A	OP2-P-O3'	-5.28	93.58	105.20
36	1	1785	U	C4-C5-C6	5.28	122.87	119.70
36	1	1799	A	N9-C4-C5	5.28	107.91	105.80
36	1	2721	A	C8-N9-C4	-5.28	103.69	105.80
38	4	4	C	C5-C6-N1	-5.28	118.36	121.00
80	6	837	G	C2-N3-C4	5.28	114.54	111.90
80	6	1407	U	C5-C6-N1	-5.28	120.06	122.70
85	5	143	G	N3-C4-C5	5.28	131.24	128.60
85	5	1278	A	C2-N3-C4	-5.28	107.96	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1656	A	C6-C5-N7	5.28	136.00	132.30
85	5	2805	G	N3-C4-N9	5.28	129.17	126.00
85	5	2879	C	C6-N1-C1'	5.28	127.14	120.80
1	2	304	U	N3-C2-O2	5.28	125.90	122.20
1	2	1043	U	C2-N1-C1'	5.28	124.04	117.70
1	2	1411	G	C5-C6-O6	5.28	131.77	128.60
36	1	419	G	O5'-P-OP2	-5.28	100.95	105.70
36	1	530	G	C5-C6-N1	5.28	114.14	111.50
36	1	1040	A	C2-N3-C4	-5.28	107.96	110.60
36	1	1337	A	C8-N9-C4	5.28	107.91	105.80
36	1	1544	G	N3-C4-C5	-5.28	125.96	128.60
36	1	1614	C	C2-N3-C4	-5.28	117.26	119.90
36	1	1813	A	O5'-P-OP1	5.28	117.04	110.70
36	1	2095	G	N7-C8-N9	-5.28	110.46	113.10
36	1	2096	A	N9-C4-C5	5.28	107.91	105.80
36	1	2613	U	N1-C2-O2	-5.28	119.10	122.80
36	1	2704	A	P-O3'-C3'	5.28	126.04	119.70
36	1	2869	U	C2-N1-C1'	5.28	124.04	117.70
36	1	3292	A	N7-C8-N9	-5.28	111.16	113.80
36	1	3313	U	OP1-P-OP2	-5.28	111.68	119.60
44	L7	202	LEU	CB-CG-CD2	-5.28	102.02	111.00
53	M7	82	ARG	NE-CZ-NH2	-5.28	117.66	120.30
80	6	512	A	C6-N1-C2	-5.28	115.43	118.60
80	6	620	A	OP2-P-O3'	5.28	116.82	105.20
80	6	1800	A	C5-N7-C8	5.28	106.54	103.90
85	5	72	C	N3-C4-C5	5.28	124.01	121.90
85	5	164	A	C6-C5-N7	-5.28	128.60	132.30
85	5	229	G	OP1-P-OP2	-5.28	111.68	119.60
85	5	281	G	N1-C2-N2	5.28	120.95	116.20
85	5	302	U	C5-C4-O4	5.28	129.07	125.90
85	5	391	A	N9-C4-C5	5.28	107.91	105.80
85	5	1212	A	N3-C4-N9	5.28	131.62	127.40
85	5	1291	A	C2-N3-C4	-5.28	107.96	110.60
85	5	2523	A	N3-C4-N9	5.28	131.62	127.40
85	5	2657	A	C5-N7-C8	-5.28	101.26	103.90
85	5	2914	G	OP1-P-O3'	5.28	116.81	105.20
85	5	2961	G	N7-C8-N9	5.28	115.74	113.10
85	5	2965	U	N1-C2-O2	-5.28	119.10	122.80
85	5	3085	G	C6-C5-N7	5.28	133.57	130.40
85	5	3260	G	N1-C2-N3	5.28	127.07	123.90
38	8	22	U	C4-C5-C6	-5.28	116.53	119.70
1	2	53	G	N1-C2-N3	5.28	127.07	123.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1584	G	C8-N9-C4	-5.28	104.29	106.40
36	1	3019	U	C4-C5-C6	5.28	122.87	119.70
36	1	3051	U	C2-N1-C1'	-5.28	111.36	117.70
80	6	750	U	N3-C4-C5	-5.28	111.43	114.60
80	6	1122	G	N3-C2-N2	-5.28	116.20	119.90
85	5	806	A	C5-N7-C8	-5.28	101.26	103.90
85	5	1037	C	OP1-P-O3'	5.28	116.81	105.20
85	5	2149	A	N1-C2-N3	5.28	131.94	129.30
85	5	2241	U	N3-C4-C5	-5.28	111.43	114.60
85	5	2924	U	C2-N3-C4	-5.28	123.83	127.00
85	5	2961	G	O5'-P-OP2	-5.28	100.95	105.70
85	5	3180	A	OP2-P-O3'	5.28	116.81	105.20
1	2	81	G	N7-C8-N9	5.28	115.74	113.10
1	2	1537	U	N3-C4-O4	5.28	123.09	119.40
36	1	19	U	C6-N1-C1'	5.28	128.59	121.20
36	1	23	A	N7-C8-N9	-5.28	111.16	113.80
36	1	40	A	N1-C2-N3	5.28	131.94	129.30
36	1	831	G	OP2-P-O3'	5.28	116.81	105.20
36	1	850	U	N1-C2-O2	5.28	126.49	122.80
36	1	910	G	O5'-P-OP2	-5.28	100.95	105.70
36	1	1357	G	O5'-P-OP2	-5.28	100.95	105.70
36	1	1560	G	N3-C2-N2	5.28	123.59	119.90
36	1	2124	G	C6-N1-C2	-5.28	121.93	125.10
36	1	2953	U	N1-C2-N3	5.28	118.07	114.90
36	1	3144	G	N3-C4-C5	5.28	131.24	128.60
37	3	15	C	C5-C6-N1	-5.28	118.36	121.00
39	L2	9	ARG	NE-CZ-NH2	-5.28	117.66	120.30
68	O2	36	LYS	CD-CE-NZ	-5.28	99.56	111.70
80	6	617	U	C2-N3-C4	-5.28	123.83	127.00
80	6	929	A	N1-C6-N6	5.28	121.77	118.60
80	6	1095	U	N1-C2-N3	5.28	118.07	114.90
80	6	1498	G	N1-C2-N3	-5.28	120.73	123.90
80	6	1514	U	C6-N1-C2	-5.28	117.83	121.00
80	6	1559	A	C8-N9-C4	-5.28	103.69	105.80
85	5	875	G	C5-C6-O6	5.28	131.77	128.60
85	5	1235	U	C5-C6-N1	5.28	125.34	122.70
85	5	1249	G	C8-N9-C4	-5.28	104.29	106.40
85	5	1586	G	N3-C4-N9	5.28	129.17	126.00
85	5	1855	U	C5-C4-O4	5.28	129.07	125.90
85	5	2101	C	O5'-P-OP2	-5.28	100.95	105.70
85	5	2576	G	N3-C4-N9	-5.28	122.83	126.00
85	5	2723	U	OP1-P-OP2	5.28	127.52	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2865	U	OP2-P-O3'	5.28	116.81	105.20
1	2	298	C	N3-C4-N4	5.28	121.69	118.00
1	2	567	A	C8-N9-C4	5.28	107.91	105.80
36	1	1438	U	C2-N3-C4	-5.28	123.83	127.00
36	1	1468	A	C5-C6-N1	-5.28	115.06	117.70
36	1	1531	C	N1-C2-N3	5.28	122.89	119.20
36	1	1588	A	C5-C6-N6	-5.28	119.48	123.70
36	1	2167	A	C6-N1-C2	5.28	121.77	118.60
36	1	2735	U	C5-C4-O4	5.28	129.06	125.90
36	1	2784	G	N9-C4-C5	-5.28	103.29	105.40
36	1	3070	A	N1-C2-N3	5.28	131.94	129.30
36	1	3228	C	C5-C4-N4	5.28	123.89	120.20
36	1	3338	C	C5-C6-N1	5.28	123.64	121.00
38	4	145	U	N3-C4-C5	5.28	117.77	114.60
80	6	210	A	C4-C5-C6	5.28	119.64	117.00
80	6	655	G	N1-C2-N3	-5.28	120.73	123.90
80	6	1676	U	N3-C2-O2	5.28	125.89	122.20
85	5	215	G	C4-C5-N7	-5.28	108.69	110.80
85	5	550	A	C6-N1-C2	5.28	121.77	118.60
85	5	625	G	N1-C2-N3	5.28	127.07	123.90
85	5	899	U	C6-N1-C2	-5.28	117.83	121.00
85	5	1002	A	N7-C8-N9	5.28	116.44	113.80
85	5	1155	C	C4-C5-C6	-5.28	114.76	117.40
85	5	1322	U	C2-N3-C4	-5.28	123.83	127.00
85	5	1513	G	C5-C6-O6	-5.28	125.44	128.60
85	5	1565	G	N1-C2-N3	-5.28	120.73	123.90
85	5	2330	C	N3-C4-N4	-5.28	114.31	118.00
85	5	2646	C	N1-C2-O2	-5.28	115.73	118.90
85	5	2659	G	C4-C5-C6	-5.28	115.64	118.80
85	5	2958	A	O4'-C1'-N9	5.28	112.42	108.20
85	5	2999	U	O5'-P-OP2	5.28	117.03	110.70
85	5	3341	U	C5-C6-N1	-5.28	120.06	122.70
38	8	106	C	C6-N1-C1'	-5.28	114.47	120.80
1	2	345	U	N3-C2-O2	5.27	125.89	122.20
1	2	392	G	N7-C8-N9	-5.27	110.46	113.10
1	2	433	C	O5'-P-OP2	5.27	117.03	110.70
36	1	19	U	N1-C2-O2	-5.27	119.11	122.80
36	1	283	G	N9-C4-C5	-5.27	103.29	105.40
36	1	2179	C	N1-C2-N3	5.27	122.89	119.20
36	1	3048	A	N7-C8-N9	5.27	116.44	113.80
80	6	27	U	OP1-P-O3'	5.27	116.80	105.20
80	6	352	A	C8-N9-C4	5.27	107.91	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1120	U	OP2-P-O3'	5.27	116.80	105.20
85	5	404	G	N9-C4-C5	5.27	107.51	105.40
85	5	1091	A	C5-C6-N1	-5.27	115.06	117.70
85	5	2371	G	N1-C2-N3	5.27	127.06	123.90
85	5	2763	U	N3-C4-O4	5.27	123.09	119.40
85	5	3011	A	OP1-P-OP2	5.27	127.51	119.60
1	2	1011	C	C5-C4-N4	-5.27	116.51	120.20
1	2	1528	A	C5-C6-N1	-5.27	115.06	117.70
15	C3	22	ALA	C-N-CD	-5.27	109.00	120.60
36	1	766	U	O5'-P-OP2	5.27	117.03	110.70
36	1	808	A	OP1-P-OP2	-5.27	111.69	119.60
36	1	1521	G	N1-C2-N3	5.27	127.06	123.90
36	1	1760	A	C6-N1-C2	-5.27	115.44	118.60
36	1	1905	G	C6-N1-C2	-5.27	121.94	125.10
36	1	2297	U	O5'-P-OP1	5.27	117.03	110.70
36	1	2991	A	N3-C4-N9	-5.27	123.18	127.40
80	6	162	A	C8-N9-C4	5.27	107.91	105.80
80	6	518	A	N9-C4-C5	5.27	107.91	105.80
80	6	586	G	N3-C2-N2	5.27	123.59	119.90
80	6	1399	C	N1-C2-O2	5.27	122.06	118.90
80	6	1549	C	C4-C5-C6	5.27	120.04	117.40
85	5	276	U	C5-C4-O4	-5.27	122.74	125.90
85	5	375	A	C5-N7-C8	-5.27	101.26	103.90
85	5	514	G	C5-C6-N1	5.27	114.14	111.50
85	5	571	U	OP1-P-OP2	-5.27	111.69	119.60
85	5	607	A	C4-N9-C1'	5.27	135.79	126.30
85	5	608	A	N1-C6-N6	5.27	121.76	118.60
85	5	880	G	C5-C6-N1	5.27	114.14	111.50
85	5	1466	G	C8-N9-C1'	-5.27	120.15	127.00
85	5	1520	G	C4-N9-C1'	5.27	133.35	126.50
85	5	1530	U	C2-N1-C1'	-5.27	111.37	117.70
85	5	2815	G	OP2-P-O3'	5.27	116.80	105.20
37	7	23	A	N1-C6-N6	-5.27	115.44	118.60
44	17	183	ASP	CB-CG-OD2	-5.27	113.55	118.30
1	2	470	A	C2-N3-C4	-5.27	107.96	110.60
36	1	322	U	C2-N3-C4	-5.27	123.84	127.00
36	1	351	A	N1-C2-N3	5.27	131.94	129.30
36	1	370	U	C5-C4-O4	-5.27	122.74	125.90
36	1	552	G	C2-N3-C4	-5.27	109.26	111.90
36	1	1351	U	C5'-C4'-O4'	5.27	115.43	109.10
37	3	17	A	OP1-P-OP2	-5.27	111.69	119.60
38	4	97	A	O5'-P-OP2	5.27	117.03	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	108	C	C6-N1-C1'	5.27	127.12	120.80
38	4	158	U	N1-C2-O2	5.27	126.49	122.80
80	6	574	G	C2-N3-C4	-5.27	109.27	111.90
80	6	719	U	N1-C2-O2	-5.27	119.11	122.80
80	6	1024	U	C5-C6-N1	-5.27	120.06	122.70
80	6	1101	G	O5'-P-OP2	-5.27	100.96	105.70
80	6	1730	A	C6-N1-C2	-5.27	115.44	118.60
85	5	988	U	C6-N1-C2	-5.27	117.84	121.00
85	5	1470	U	C2-N3-C4	-5.27	123.84	127.00
85	5	1484	U	N1-C2-N3	5.27	118.06	114.90
85	5	1910	A	C6-N1-C2	5.27	121.76	118.60
85	5	1936	A	C5-C6-N1	-5.27	115.06	117.70
85	5	2144	A	O5'-P-OP1	5.27	117.03	110.70
85	5	2240	G	C4-C5-C6	-5.27	115.64	118.80
1	2	776	A	N3-C4-C5	-5.27	123.11	126.80
1	2	1076	A	C8-N9-C4	-5.27	103.69	105.80
1	2	1537	U	N3-C4-C5	-5.27	111.44	114.60
1	2	1761	G	C8-N9-C4	-5.27	104.29	106.40
36	1	239	G	C5-C6-O6	-5.27	125.44	128.60
36	1	392	G	N3-C4-N9	-5.27	122.84	126.00
36	1	1327	C	OP1-P-OP2	-5.27	111.70	119.60
36	1	1519	G	C6-C5-N7	-5.27	127.24	130.40
36	1	2120	A	N9-C4-C5	5.27	107.91	105.80
36	1	2124	G	OP2-P-O3'	5.27	116.79	105.20
36	1	2796	G	C8-N9-C4	5.27	108.51	106.40
36	1	3019	U	O4'-C1'-N1	5.27	112.42	108.20
36	1	3053	G	C4-C5-N7	-5.27	108.69	110.80
50	M4	19	ARG	NE-CZ-NH1	5.27	122.94	120.30
80	6	825	U	C6-N1-C2	5.27	124.16	121.00
80	6	1009	U	N3-C2-O2	5.27	125.89	122.20
80	6	1082	C	C2-N1-C1'	5.27	124.60	118.80
80	6	1575	G	C5-C6-N1	5.27	114.14	111.50
80	6	1641	C	C6-N1-C1'	5.27	127.12	120.80
85	5	118	U	C5-C4-O4	5.27	129.06	125.90
85	5	590	G	N3-C4-N9	5.27	129.16	126.00
85	5	826	G	C8-N9-C4	-5.27	104.29	106.40
85	5	1476	G	N1-C6-O6	5.27	123.06	119.90
85	5	1545	A	C2-N3-C4	-5.27	107.97	110.60
85	5	1627	U	O5'-P-OP1	-5.27	100.96	105.70
85	5	1750	A	C8-N9-C4	-5.27	103.69	105.80
85	5	1877	U	OP1-P-O3'	5.27	116.80	105.20
85	5	1910	A	O5'-P-OP2	-5.27	100.96	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2201	G	O5'-P-OP1	5.27	117.02	110.70
85	5	2244	A	N1-C6-N6	-5.27	115.44	118.60
85	5	2370	G	N3-C4-N9	-5.27	122.84	126.00
85	5	2709	C	C5-C4-N4	-5.27	116.51	120.20
85	5	2802	A	C2-N3-C4	5.27	113.23	110.60
37	7	88	G	N3-C4-N9	5.27	129.16	126.00
44	17	153	PHE	CB-CG-CD1	-5.27	117.11	120.80
1	2	644	C	C5-C4-N4	5.27	123.89	120.20
36	1	351	A	N7-C8-N9	-5.27	111.17	113.80
36	1	705	A	O5'-P-OP2	-5.27	100.96	105.70
36	1	1678	G	N3-C2-N2	-5.27	116.21	119.90
36	1	1860	G	C4-C5-C6	5.27	121.96	118.80
36	1	2314	U	N3-C4-O4	5.27	123.09	119.40
38	4	126	A	N7-C8-N9	-5.27	111.17	113.80
80	6	286	C	C4-C5-C6	-5.27	114.77	117.40
80	6	378	A	C5-C6-N6	-5.27	119.49	123.70
80	6	396	G	OP1-P-OP2	5.27	127.50	119.60
80	6	442	C	OP1-P-OP2	5.27	127.50	119.60
80	6	627	C	OP1-P-OP2	-5.27	111.70	119.60
80	6	1488	G	C6-N1-C2	-5.27	121.94	125.10
85	5	589	A	C4-C5-C6	5.27	119.63	117.00
85	5	1061	A	N1-C6-N6	-5.27	115.44	118.60
85	5	1518	U	C5-C6-N1	5.27	125.33	122.70
85	5	1852	G	C3'-C2'-O2'	-5.27	98.02	113.30
85	5	3158	G	N7-C8-N9	5.27	115.73	113.10
37	7	18	C	OP2-P-O3'	5.27	116.79	105.20
37	7	59	U	N3-C4-C5	-5.27	111.44	114.60
37	7	68	C	C4-C5-C6	5.27	120.03	117.40
37	7	110	G	P-O3'-C3'	-5.27	113.38	119.70
38	8	3	A	N7-C8-N9	5.27	116.43	113.80
75	o9	28	ARG	NE-CZ-NH1	-5.27	117.67	120.30
1	2	128	U	C5-C6-N1	-5.27	120.07	122.70
1	2	565	C	C4-C5-C6	5.27	120.03	117.40
1	2	1573	G	C5-C6-O6	5.27	131.76	128.60
36	1	611	A	C4-C5-C6	5.27	119.63	117.00
36	1	1212	A	C4-C5-C6	-5.27	114.37	117.00
36	1	1507	G	C5-C6-N1	5.27	114.13	111.50
36	1	1543	G	C5-N7-C8	5.27	106.93	104.30
36	1	1620	U	C4-C5-C6	5.27	122.86	119.70
36	1	1868	G	N1-C2-N2	-5.27	111.46	116.20
36	1	2897	A	OP1-P-O3'	5.27	116.79	105.20
36	1	2938	G	O5'-P-OP1	-5.27	100.96	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3166	C	C2-N3-C4	5.27	122.53	119.90
80	6	765	G	N3-C4-N9	-5.27	122.84	126.00
80	6	932	U	C5-C4-O4	5.27	129.06	125.90
85	5	588	G	N1-C6-O6	-5.27	116.74	119.90
85	5	1115	G	C8-N9-C1'	-5.27	120.16	127.00
85	5	1383	G	N9-C4-C5	5.27	107.51	105.40
51	m5	108	ARG	NE-CZ-NH1	5.27	122.93	120.30
1	2	610	G	N3-C2-N2	-5.26	116.22	119.90
1	2	963	G	N1-C2-N3	-5.26	120.74	123.90
36	1	127	G	O5'-P-OP2	5.26	117.02	110.70
36	1	175	C	O5'-P-OP1	5.26	117.02	110.70
36	1	514	G	N3-C4-C5	5.26	131.23	128.60
36	1	609	G	OP2-P-O3'	5.26	116.78	105.20
36	1	972	A	N1-C6-N6	5.26	121.76	118.60
36	1	1124	U	C5-C4-O4	5.26	129.06	125.90
36	1	1421	G	C4-C5-N7	5.26	112.91	110.80
36	1	3049	A	N7-C8-N9	-5.26	111.17	113.80
80	6	655	G	N7-C8-N9	5.26	115.73	113.10
80	6	1659	A	C5-C6-N6	5.26	127.91	123.70
80	6	1730	A	C6-C5-N7	-5.26	128.62	132.30
85	5	76	G	C5-C6-O6	-5.26	125.44	128.60
85	5	335	G	C6-N1-C2	-5.26	121.94	125.10
85	5	965	A	C8-N9-C4	-5.26	103.69	105.80
85	5	1041	U	C2-N1-C1'	-5.26	111.38	117.70
85	5	1359	C	C5-C4-N4	-5.26	116.51	120.20
85	5	1524	A	N3-C4-N9	-5.26	123.19	127.40
85	5	2251	G	C5-C6-O6	-5.26	125.44	128.60
85	5	2299	A	C4-C5-C6	5.26	119.63	117.00
85	5	2321	A	O5'-P-OP1	5.26	117.02	110.70
85	5	2409	G	N1-C2-N3	5.26	127.06	123.90
85	5	2852	C	N1-C2-N3	-5.26	115.52	119.20
85	5	2881	C	O4'-C1'-N1	-5.26	103.99	108.20
85	5	3091	A	O5'-P-OP1	-5.26	100.96	105.70
85	5	3136	G	C5-C6-N1	5.26	114.13	111.50
85	5	3265	C	OP1-P-O3'	5.26	116.78	105.20
37	7	118	A	C4-C5-N7	-5.26	108.07	110.70
38	8	2	A	C5-C6-N6	5.26	127.91	123.70
38	8	158	U	N1-C2-N3	-5.26	111.74	114.90
1	2	349	U	N3-C4-C5	5.26	117.76	114.60
1	2	1399	G	C6-C5-N7	-5.26	127.24	130.40
1	2	1419	A	N1-C2-N3	5.26	131.93	129.30
1	2	1736	A	C5-C6-N1	-5.26	115.07	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	683	U	N3-C4-C5	-5.26	111.44	114.60
36	1	1154	A	N3-C4-N9	5.26	131.61	127.40
36	1	1679	A	N3-C4-C5	5.26	130.48	126.80
80	6	298	C	C5-C6-N1	5.26	123.63	121.00
80	6	1588	G	C2-N3-C4	-5.26	109.27	111.90
85	5	219	A	N1-C6-N6	5.26	121.76	118.60
85	5	1084	A	OP2-P-O3'	5.26	116.78	105.20
85	5	1197	A	N7-C8-N9	-5.26	111.17	113.80
85	5	3026	G	C6-N1-C2	-5.26	121.94	125.10
1	2	101	U	O5'-P-OP1	5.26	117.01	110.70
1	2	590	C	C4-C5-C6	5.26	120.03	117.40
1	2	770	G	C8-N9-C4	-5.26	104.30	106.40
36	1	107	A	C8-N9-C4	5.26	107.90	105.80
36	1	964	G	O5'-P-OP2	5.26	117.01	110.70
36	1	2390	A	C6-N1-C2	-5.26	115.44	118.60
36	1	3069	G	C5-C6-N1	5.26	114.13	111.50
80	6	1193	A	C2-N3-C4	5.26	113.23	110.60
80	6	1388	A	C6-C5-N7	-5.26	128.62	132.30
80	6	1661	U	N1-C2-O2	-5.26	119.12	122.80
80	6	1800	A	C4-C5-N7	-5.26	108.07	110.70
85	5	111	C	O5'-P-OP1	5.26	117.01	110.70
85	5	427	C	N3-C2-O2	5.26	125.58	121.90
85	5	499	G	C6-N1-C2	5.26	128.26	125.10
85	5	689	U	C4-C5-C6	5.26	122.86	119.70
85	5	1032	C	OP1-P-OP2	-5.26	111.71	119.60
85	5	1319	G	C5-C6-O6	-5.26	125.44	128.60
85	5	1771	C	C6-N1-C2	-5.26	118.20	120.30
85	5	2287	C	C4-C5-C6	-5.26	114.77	117.40
85	5	2710	C	C2-N1-C1'	-5.26	113.01	118.80
85	5	2801	A	N7-C8-N9	-5.26	111.17	113.80
85	5	2848	G	C2-N3-C4	-5.26	109.27	111.90
85	5	2877	G	N1-C2-N2	5.26	120.94	116.20
85	5	3069	G	OP1-P-OP2	5.26	127.49	119.60
85	5	3120	C	C5-C4-N4	5.26	123.88	120.20
85	5	3247	G	C5-C6-O6	-5.26	125.44	128.60
44	17	129	LEU	CB-CG-CD1	-5.26	102.06	111.00
1	2	175	G	C4-C5-N7	-5.26	108.70	110.80
1	2	431	C	N3-C4-C5	-5.26	119.80	121.90
1	2	1443	A	N1-C2-N3	5.26	131.93	129.30
36	1	713	U	C6-N1-C2	5.26	124.16	121.00
36	1	794	U	C2-N3-C4	-5.26	123.84	127.00
36	1	877	C	OP2-P-O3'	5.26	116.77	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1657	C	N1-C2-O2	5.26	122.06	118.90
36	1	1758	G	C5-N7-C8	5.26	106.93	104.30
36	1	2194	G	O5'-P-OP1	5.26	117.01	110.70
36	1	2245	C	N1-C2-N3	5.26	122.88	119.20
36	1	2383	C	N3-C4-N4	-5.26	114.32	118.00
36	1	2521	U	O5'-P-OP1	5.26	117.01	110.70
36	1	2884	C	N1-C2-O2	-5.26	115.75	118.90
36	1	3128	G	C2-N3-C4	5.26	114.53	111.90
80	6	591	A	O5'-P-OP2	-5.26	100.97	105.70
80	6	811	A	C4-C5-C6	5.26	119.63	117.00
80	6	1073	G	N9-C1'-C2'	-5.26	106.21	112.00
80	6	1083	G	C5-C6-O6	-5.26	125.44	128.60
80	6	1490	C	OP1-P-OP2	5.26	127.49	119.60
85	5	281	G	C6-N1-C2	-5.26	121.94	125.10
85	5	648	C	OP2-P-O3'	-5.26	93.63	105.20
85	5	1475	A	C5-C6-N1	-5.26	115.07	117.70
85	5	1560	G	N7-C8-N9	-5.26	110.47	113.10
85	5	1913	A	N1-C2-N3	5.26	131.93	129.30
85	5	3383	G	C5-C6-N1	-5.26	108.87	111.50
1	2	695	G	C2-N3-C4	5.26	114.53	111.90
1	2	1020	C	C6-N1-C2	-5.26	118.20	120.30
36	1	374	A	N1-C6-N6	-5.26	115.44	118.60
36	1	1623	G	N3-C4-C5	-5.26	125.97	128.60
36	1	2124	G	C4-C5-C6	5.26	121.95	118.80
36	1	2352	A	N1-C2-N3	5.26	131.93	129.30
36	1	2443	A	C6-C5-N7	-5.26	128.62	132.30
80	6	1053	G	OP1-P-O3'	5.26	116.77	105.20
80	6	1388	A	C4-C5-C6	5.26	119.63	117.00
85	5	15	C	OP2-P-O3'	5.26	116.77	105.20
85	5	914	A	O4'-C1'-N9	-5.26	103.99	108.20
85	5	1014	U	N1-C2-N3	-5.26	111.75	114.90
85	5	1439	U	OP1-P-OP2	-5.26	111.71	119.60
85	5	1528	G	C5-C6-O6	5.26	131.75	128.60
85	5	1722	U	N3-C4-O4	-5.26	115.72	119.40
85	5	2603	G	C4-C5-C6	-5.26	115.64	118.80
85	5	2653	C	C4-C5-C6	-5.26	114.77	117.40
85	5	2752	U	C2-N3-C4	-5.26	123.84	127.00
85	5	3295	A	N1-C6-N6	5.26	121.75	118.60
41	14	246	ARG	NE-CZ-NH1	-5.26	117.67	120.30
1	2	1769	G	N9-C4-C5	5.26	107.50	105.40
36	1	575	G	N3-C4-N9	-5.26	122.85	126.00
36	1	610	G	C4-C5-C6	5.26	121.95	118.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	783	A	C5-C6-N6	5.26	127.91	123.70
36	1	798	G	C2-N3-C4	-5.26	109.27	111.90
36	1	1419	A	O4'-C1'-N9	5.26	112.41	108.20
36	1	1491	A	C2-N3-C4	-5.26	107.97	110.60
36	1	2169	G	C5'-C4'-O4'	-5.26	102.79	109.10
36	1	2919	A	N7-C8-N9	5.26	116.43	113.80
37	3	103	A	OP2-P-O3'	5.26	116.76	105.20
37	3	121	U	N1-C2-N3	-5.26	111.75	114.90
38	4	152	G	N1-C6-O6	5.26	123.05	119.90
80	6	371	G	OP2-P-O3'	5.26	116.77	105.20
80	6	508	U	N3-C2-O2	5.26	125.88	122.20
80	6	549	G	N3-C4-N9	-5.26	122.85	126.00
80	6	943	C	C4-C5-C6	-5.26	114.77	117.40
85	5	232	G	C8-N9-C4	-5.26	104.30	106.40
85	5	237	G	C8-N9-C4	-5.26	104.30	106.40
85	5	1072	G	OP1-P-OP2	5.26	127.48	119.60
85	5	1441	G	C6-N1-C2	-5.26	121.95	125.10
85	5	1581	C	C5-C4-N4	-5.26	116.52	120.20
85	5	1824	U	N3-C4-C5	-5.26	111.45	114.60
85	5	2129	U	C6-N1-C2	-5.26	117.85	121.00
85	5	2635	A	C6-C5-N7	-5.26	128.62	132.30
85	5	2905	U	C6-N1-C2	-5.26	117.85	121.00
37	7	33	U	O5'-P-OP2	-5.26	100.97	105.70
1	2	591	A	C2-N3-C4	5.25	113.23	110.60
1	2	1298	U	N3-C4-O4	-5.25	115.72	119.40
36	1	20	A	O5'-P-OP1	-5.25	100.97	105.70
36	1	30	G	O4'-C1'-N9	-5.25	104.00	108.20
36	1	100	A	N7-C8-N9	5.25	116.43	113.80
36	1	822	G	N1-C2-N3	5.25	127.05	123.90
36	1	2123	G	N1-C2-N2	5.25	120.93	116.20
36	1	2351	U	N1-C2-N3	5.25	118.05	114.90
36	1	3130	A	OP1-P-OP2	-5.25	111.72	119.60
37	3	4	U	C5-C6-N1	-5.25	120.07	122.70
40	L3	150	ARG	NE-CZ-NH1	5.25	122.93	120.30
80	6	1237	G	N3-C4-C5	5.25	131.23	128.60
80	6	1551	U	N3-C2-O2	-5.25	118.52	122.20
85	5	835	G	O5'-P-OP1	5.25	117.01	110.70
85	5	1429	G	OP1-P-OP2	-5.25	111.72	119.60
85	5	2121	G	N1-C2-N2	-5.25	111.47	116.20
85	5	2793	G	C4-C5-N7	5.25	112.90	110.80
37	7	120	C	N3-C4-N4	5.25	121.68	118.00
1	2	62	A	C8-N9-C4	5.25	107.90	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	301	A	C6-N1-C2	-5.25	115.45	118.60
1	2	1436	G	O5'-P-OP1	-5.25	100.97	105.70
1	2	1525	G	N7-C8-N9	5.25	115.73	113.10
36	1	61	A	OP2-P-O3'	5.25	116.76	105.20
36	1	903	U	N3-C2-O2	-5.25	118.52	122.20
36	1	1152	G	O5'-P-OP2	-5.25	100.97	105.70
36	1	1817	G	C4-C5-N7	5.25	112.90	110.80
36	1	2319	U	N3-C4-O4	5.25	123.08	119.40
36	1	2641	U	OP1-P-OP2	5.25	127.48	119.60
36	1	3284	G	N9-C4-C5	5.25	107.50	105.40
80	6	334	G	C5-N7-C8	5.25	106.93	104.30
80	6	415	C	OP1-P-OP2	5.25	127.48	119.60
80	6	862	A	C5-N7-C8	-5.25	101.27	103.90
80	6	1372	U	C2-N3-C4	-5.25	123.85	127.00
80	6	1466	G	N3-C4-C5	-5.25	125.97	128.60
3	s1	87	ARG	NE-CZ-NH2	-5.25	117.67	120.30
26	d4	128	LYS	CD-CE-NZ	5.25	123.78	111.70
85	5	1666	G	N3-C2-N2	-5.25	116.22	119.90
85	5	1883	A	O4'-C1'-N9	-5.25	104.00	108.20
85	5	2171	G	C5-C6-O6	5.25	131.75	128.60
85	5	2643	A	OP1-P-O3'	5.25	116.76	105.20
85	5	2669	G	OP1-P-OP2	-5.25	111.72	119.60
85	5	2734	A	N9-C4-C5	5.25	107.90	105.80
85	5	3245	A	C4-C5-C6	5.25	119.63	117.00
39	l2	6	ARG	NE-CZ-NH1	5.25	122.93	120.30
1	2	398	G	C4-C5-N7	5.25	112.90	110.80
1	2	969	G	N1-C6-O6	-5.25	116.75	119.90
1	2	1651	G	N3-C4-N9	-5.25	122.85	126.00
36	1	522	A	N3-C4-C5	5.25	130.48	126.80
36	1	585	A	OP1-P-OP2	5.25	127.48	119.60
36	1	762	U	C5-C6-N1	5.25	125.33	122.70
36	1	951	A	C5-C6-N1	-5.25	115.07	117.70
36	1	1055	A	OP1-P-OP2	-5.25	111.72	119.60
36	1	1683	A	C5-C6-N1	-5.25	115.08	117.70
37	3	105	C	C5-C6-N1	5.25	123.63	121.00
38	4	41	A	O5'-P-OP2	5.25	117.00	110.70
80	6	253	A	N3-C4-C5	5.25	130.48	126.80
80	6	989	U	C6-N1-C2	-5.25	117.85	121.00
80	6	1644	C	N1-C2-O2	5.25	122.05	118.90
85	5	24	G	N3-C2-N2	5.25	123.58	119.90
85	5	120	G	N7-C8-N9	-5.25	110.47	113.10
85	5	558	U	OP2-P-O3'	5.25	116.75	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	694	C	C2-N3-C4	-5.25	117.28	119.90
85	5	763	G	N3-C4-C5	5.25	131.23	128.60
85	5	797	U	C5-C6-N1	-5.25	120.07	122.70
85	5	1361	U	OP1-P-OP2	-5.25	111.72	119.60
85	5	1441	G	N3-C2-N2	-5.25	116.22	119.90
85	5	1586	G	C8-N9-C1'	-5.25	120.17	127.00
85	5	1936	A	C6-C5-N7	-5.25	128.62	132.30
85	5	2381	G	C5-C6-N1	-5.25	108.88	111.50
85	5	2522	G	N1-C2-N3	-5.25	120.75	123.90
85	5	3164	C	N3-C4-C5	5.25	124.00	121.90
85	5	3350	C	N1-C2-N3	-5.25	115.52	119.20
37	7	5	G	C2-N3-C4	-5.25	109.27	111.90
36	1	33	G	C5-N7-C8	5.25	106.92	104.30
36	1	850	U	N1-C2-N3	5.25	118.05	114.90
36	1	1343	A	C6-N1-C2	-5.25	115.45	118.60
36	1	2673	A	OP1-P-OP2	-5.25	111.72	119.60
38	4	52	A	C8-N9-C4	-5.25	103.70	105.80
80	6	210	A	N9-C4-C5	5.25	107.90	105.80
80	6	941	A	C6-C5-N7	5.25	135.97	132.30
80	6	1169	G	N1-C2-N3	5.25	127.05	123.90
85	5	220	G	OP1-P-O3'	5.25	116.75	105.20
85	5	2887	A	N7-C8-N9	5.25	116.42	113.80
1	2	315	A	C5-C6-N1	5.25	120.33	117.70
1	2	351	C	N3-C4-C5	-5.25	119.80	121.90
1	2	776	A	C4-C5-N7	-5.25	108.08	110.70
1	2	1625	G	N9-C4-C5	5.25	107.50	105.40
36	1	418	A	OP2-P-O3'	5.25	116.75	105.20
36	1	799	G	C5-C6-O6	5.25	131.75	128.60
36	1	1145	G	C6-N1-C2	-5.25	121.95	125.10
36	1	1313	G	N1-C2-N3	5.25	127.05	123.90
36	1	1320	C	N1-C2-O2	-5.25	115.75	118.90
36	1	1661	G	N3-C2-N2	5.25	123.58	119.90
36	1	2181	C	C2-N3-C4	5.25	122.52	119.90
36	1	2641	U	N1-C2-N3	-5.25	111.75	114.90
36	1	2763	U	C5-C6-N1	-5.25	120.08	122.70
36	1	3081	C	C2-N1-C1'	-5.25	113.03	118.80
36	1	3376	A	N7-C8-N9	5.25	116.42	113.80
38	4	118	C	C5-C6-N1	-5.25	118.38	121.00
80	6	58	U	OP2-P-O3'	5.25	116.75	105.20
80	6	594	A	C4-C5-N7	-5.25	108.08	110.70
80	6	936	G	C4-C5-N7	5.25	112.90	110.80
80	6	1137	A	N9-C4-C5	-5.25	103.70	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1305	U	C6-N1-C2	5.25	124.15	121.00
80	6	1320	U	N3-C4-C5	5.25	117.75	114.60
80	6	1333	C	N3-C2-O2	5.25	125.57	121.90
85	5	211	A	C5-N7-C8	-5.25	101.28	103.90
85	5	607	A	O5'-P-OP1	-5.25	100.98	105.70
85	5	960	U	C4-C5-C6	-5.25	116.55	119.70
85	5	1677	G	C4-C5-N7	-5.25	108.70	110.80
85	5	2136	C	OP1-P-OP2	5.25	127.47	119.60
85	5	2373	A	OP1-P-OP2	-5.25	111.73	119.60
85	5	2593	A	C5-N7-C8	-5.25	101.28	103.90
85	5	2888	U	N3-C4-C5	5.25	117.75	114.60
38	8	139	U	OP1-P-O3'	5.25	116.75	105.20
1	2	251	A	N1-C2-N3	5.25	131.92	129.30
1	2	841	G	C2-N3-C4	5.25	114.52	111.90
1	2	1195	G	N1-C2-N3	-5.25	120.75	123.90
1	2	1313	G	N1-C2-N3	5.25	127.05	123.90
36	1	775	A	C5-N7-C8	-5.25	101.28	103.90
36	1	876	A	C8-N9-C4	5.25	107.90	105.80
36	1	1128	U	N3-C2-O2	5.25	125.87	122.20
36	1	1288	U	N1-C2-N3	5.25	118.05	114.90
36	1	1498	A	O5'-P-OP1	5.25	117.00	110.70
36	1	1578	C	O5'-P-OP2	-5.25	100.98	105.70
36	1	1824	U	N3-C4-O4	5.25	123.07	119.40
36	1	2148	U	N3-C4-O4	-5.25	115.73	119.40
36	1	2539	C	N1-C2-O2	5.25	122.05	118.90
36	1	2624	G	N1-C6-O6	5.25	123.05	119.90
36	1	2764	C	OP2-P-O3'	5.25	116.74	105.20
36	1	2823	G	OP2-P-O3'	-5.25	93.66	105.20
71	O5	14	LYS	CD-CE-NZ	5.25	123.77	111.70
80	6	266	A	C4-C5-C6	5.25	119.62	117.00
80	6	552	G	C5-C6-N1	5.25	114.12	111.50
80	6	651	G	N1-C2-N2	5.25	120.92	116.20
80	6	801	G	C8-N9-C4	-5.25	104.30	106.40
85	5	103	G	N1-C2-N3	5.25	127.05	123.90
85	5	281	G	O5'-P-OP2	5.25	117.00	110.70
85	5	712	G	C8-N9-C1'	-5.25	120.18	127.00
85	5	1022	U	C4-C5-C6	-5.25	116.55	119.70
85	5	1239	C	C2-N3-C4	5.25	122.52	119.90
85	5	2642	A	N7-C8-N9	5.25	116.42	113.80
85	5	3085	G	N3-C2-N2	-5.25	116.23	119.90
85	5	3234	A	C6-N1-C2	-5.25	115.45	118.60
85	5	3312	U	OP2-P-O3'	5.25	116.74	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3377	G	N1-C2-N2	5.25	120.92	116.20
1	2	1449	G	C5-C6-N1	5.25	114.12	111.50
36	1	65	A	C4-C5-N7	5.25	113.32	110.70
36	1	345	G	OP1-P-OP2	5.25	127.47	119.60
36	1	412	G	N3-C2-N2	-5.25	116.23	119.90
36	1	1401	A	C4-C5-C6	5.25	119.62	117.00
36	1	2515	A	N7-C8-N9	5.25	116.42	113.80
37	3	58	C	N3-C4-C5	-5.25	119.80	121.90
80	6	340	U	C5-C4-O4	5.25	129.05	125.90
80	6	1319	A	C6-N1-C2	-5.25	115.45	118.60
9	s7	118	LEU	CA-CB-CG	5.25	127.36	115.30
85	5	70	A	O4'-C1'-N9	-5.25	104.00	108.20
85	5	1436	U	OP2-P-O3'	-5.25	93.66	105.20
85	5	1654	A	C5-C6-N1	5.25	120.32	117.70
85	5	2663	G	N1-C2-N2	5.25	120.92	116.20
36	1	286	U	C5-C4-O4	5.24	129.05	125.90
36	1	1054	A	OP2-P-O3'	5.24	116.74	105.20
36	1	1607	U	O5'-P-OP1	5.24	116.99	110.70
36	1	2281	A	C5-C6-N6	-5.24	119.50	123.70
36	1	2529	A	OP1-P-OP2	5.24	127.47	119.60
36	1	2754	G	N3-C2-N2	5.24	123.57	119.90
38	4	111	A	N9-C4-C5	5.24	107.90	105.80
40	L3	275	ARG	NE-CZ-NH2	5.24	122.92	120.30
80	6	1100	G	C5-N7-C8	-5.24	101.68	104.30
80	6	1275	A	N3-C4-C5	5.24	130.47	126.80
80	6	1792	G	O5'-P-OP1	-5.24	100.98	105.70
85	5	149	U	C6-N1-C2	-5.24	117.85	121.00
85	5	554	A	C5-N7-C8	-5.24	101.28	103.90
85	5	925	A	OP1-P-O3'	5.24	116.74	105.20
85	5	1027	A	C5-N7-C8	5.24	106.52	103.90
85	5	1567	U	N3-C4-C5	-5.24	111.45	114.60
85	5	2138	A	C5-C6-N6	-5.24	119.50	123.70
85	5	2946	A	C6-C5-N7	-5.24	128.63	132.30
85	5	2984	C	C2-N1-C1'	5.24	124.57	118.80
85	5	3106	A	N3-C4-N9	-5.24	123.20	127.40
85	5	3275	U	P-O3'-C3'	5.24	125.99	119.70
37	7	1	G	N1-C6-O6	5.24	123.05	119.90
47	m0	177	ASP	CB-CG-OD2	5.24	123.02	118.30
59	n3	109	MET	CB-CG-SD	-5.24	96.67	112.40
1	2	584	C	N1-C2-N3	5.24	122.87	119.20
36	1	542	G	N3-C2-N2	-5.24	116.23	119.90
36	1	577	C	P-O3'-C3'	5.24	125.99	119.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	711	A	O5'-P-OP2	-5.24	100.98	105.70
36	1	1621	A	O5'-P-OP1	5.24	116.99	110.70
26	d4	105	ARG	NE-CZ-NH1	-5.24	117.68	120.30
85	5	1276	U	N3-C4-O4	-5.24	115.73	119.40
85	5	1281	G	O4'-C1'-N9	5.24	112.39	108.20
85	5	2690	G	C5-C6-O6	-5.24	125.45	128.60
85	5	2891	U	C4-C5-C6	-5.24	116.56	119.70
1	2	741	U	N3-C4-O4	-5.24	115.73	119.40
1	2	997	G	C6-N1-C2	-5.24	121.96	125.10
1	2	1177	A	C2-N3-C4	5.24	113.22	110.60
36	1	32	U	C4-C5-C6	5.24	122.84	119.70
36	1	282	G	C2'-C3'-O3'	5.24	122.08	113.70
36	1	411	U	C4-C5-C6	5.24	122.84	119.70
36	1	422	A	C4-C5-C6	5.24	119.62	117.00
36	1	829	U	O4'-C1'-N1	-5.24	104.01	108.20
36	1	2352	A	C4-C5-C6	5.24	119.62	117.00
36	1	2426	U	O5'-P-OP2	5.24	116.99	110.70
36	1	2961	G	C4-C5-N7	-5.24	108.70	110.80
36	1	2964	G	C2-N3-C4	-5.24	109.28	111.90
36	1	3052	G	N1-C2-N3	5.24	127.04	123.90
37	3	73	C	C2-N3-C4	5.24	122.52	119.90
38	4	132	G	C6-C5-N7	5.24	133.54	130.40
54	M8	111	ARG	NE-CZ-NH1	-5.24	117.68	120.30
80	6	148	A	C5-C6-N6	-5.24	119.51	123.70
80	6	175	G	O5'-P-OP2	-5.24	100.98	105.70
80	6	828	U	N1-C2-N3	-5.24	111.75	114.90
80	6	1086	A	C4-C5-C6	-5.24	114.38	117.00
80	6	1170	G	C8-N9-C1'	-5.24	120.19	127.00
80	6	1344	A	OP1-P-OP2	5.24	127.46	119.60
85	5	509	U	C2-N1-C1'	-5.24	111.41	117.70
85	5	605	U	C4-C5-C6	5.24	122.84	119.70
85	5	826	G	N3-C2-N2	-5.24	116.23	119.90
85	5	910	G	C2-N3-C4	-5.24	109.28	111.90
85	5	1514	G	N7-C8-N9	5.24	115.72	113.10
85	5	2893	C	C5-C4-N4	-5.24	116.53	120.20
85	5	3017	A	C5-N7-C8	5.24	106.52	103.90
85	5	3310	A	N1-C2-N3	5.24	131.92	129.30
85	5	3334	U	N3-C4-C5	5.24	117.75	114.60
85	5	3379	C	C2-N3-C4	5.24	122.52	119.90
37	7	40	C	O4'-C1'-N1	5.24	112.39	108.20
40	l3	117	ARG	NE-CZ-NH2	5.24	122.92	120.30
1	2	846	A	C5-C6-N6	-5.24	119.51	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1400	A	C2-N3-C4	-5.24	107.98	110.60
36	1	561	C	OP1-P-OP2	-5.24	111.74	119.60
36	1	962	A	OP1-P-OP2	5.24	127.46	119.60
36	1	1416	C	C6-N1-C1'	-5.24	114.52	120.80
36	1	2878	G	C5-N7-C8	-5.24	101.68	104.30
38	4	53	A	OP1-P-OP2	5.24	127.46	119.60
59	N3	69	LEU	CB-CG-CD2	-5.24	102.10	111.00
80	6	1216	C	C6-N1-C2	-5.24	118.20	120.30
80	6	1244	A	C2-N3-C4	5.24	113.22	110.60
80	6	1646	C	C6-N1-C2	-5.24	118.20	120.30
85	5	570	A	OP2-P-O3'	5.24	116.72	105.20
85	5	1279	C	N3-C4-C5	-5.24	119.81	121.90
85	5	1517	G	N1-C2-N3	5.24	127.04	123.90
85	5	1697	A	C6-N1-C2	5.24	121.74	118.60
85	5	2307	G	C5-N7-C8	5.24	106.92	104.30
85	5	2422	C	C2-N3-C4	-5.24	117.28	119.90
85	5	3142	A	OP1-P-O3'	-5.24	93.67	105.20
85	5	3147	G	C6-C5-N7	-5.24	127.26	130.40
56	n0	109	ASP	CB-CG-OD1	-5.24	113.58	118.30
1	2	1360	U	OP1-P-O3'	5.24	116.72	105.20
36	1	346	C	C5-C4-N4	-5.24	116.53	120.20
36	1	1430	U	N3-C2-O2	5.24	125.87	122.20
36	1	1538	G	OP2-P-O3'	5.24	116.72	105.20
36	1	2156	C	N1-C2-N3	5.24	122.87	119.20
36	1	2443	A	O5'-P-OP2	-5.24	100.99	105.70
36	1	2623	G	N3-C4-C5	5.24	131.22	128.60
36	1	2662	G	N1-C2-N3	5.24	127.04	123.90
36	1	2990	G	N1-C2-N3	5.24	127.04	123.90
36	1	3207	U	C6-N1-C2	-5.24	117.86	121.00
38	4	2	A	N3-C4-C5	5.24	130.47	126.80
80	6	46	A	N3-C4-N9	-5.24	123.21	127.40
80	6	1537	C	C4-C5-C6	-5.24	114.78	117.40
85	5	511	G	OP1-P-OP2	5.24	127.45	119.60
85	5	590	G	N1-C6-O6	5.24	123.04	119.90
85	5	1534	A	N9-C4-C5	5.24	107.89	105.80
85	5	3201	C	O5'-P-OP2	5.24	116.98	110.70
37	7	25	G	N9-C4-C5	5.24	107.50	105.40
37	7	101	G	OP1-P-OP2	-5.24	111.75	119.60
1	2	102	U	N1-C2-O2	-5.24	119.14	122.80
1	2	357	G	C4-C5-N7	5.24	112.89	110.80
1	2	442	C	N3-C4-C5	-5.24	119.81	121.90
1	2	1071	A	C2-N3-C4	5.24	113.22	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1582	C	N3-C4-C5	5.24	123.99	121.90
36	1	118	U	N1-C2-O2	-5.24	119.14	122.80
36	1	293	C	N3-C2-O2	5.24	125.56	121.90
36	1	878	G	OP1-P-O3'	5.24	116.72	105.20
36	1	1592	G	C6-C5-N7	-5.24	127.26	130.40
36	1	1604	G	N1-C2-N2	5.24	120.91	116.20
36	1	1855	U	C4-C5-C6	5.24	122.84	119.70
36	1	1952	G	N9-C4-C5	5.24	107.49	105.40
36	1	2158	A	C5-C6-N1	-5.24	115.08	117.70
36	1	2289	U	C5-C4-O4	5.24	129.04	125.90
36	1	2370	G	OP2-P-O3'	5.24	116.72	105.20
36	1	2440	G	C6-C5-N7	5.24	133.54	130.40
80	6	85	A	OP2-P-O3'	5.24	116.72	105.20
80	6	511	A	C4-C5-N7	5.24	113.32	110.70
80	6	765	G	C6-N1-C2	5.24	128.24	125.10
80	6	927	C	N3-C4-C5	-5.24	119.81	121.90
80	6	1075	C	N3-C2-O2	5.24	125.56	121.90
80	6	1358	G	C8-N9-C4	5.24	108.49	106.40
85	5	228	U	N3-C4-C5	5.24	117.74	114.60
85	5	639	G	C6-C5-N7	-5.24	127.26	130.40
85	5	1906	G	C8-N9-C4	-5.24	104.31	106.40
85	5	3155	U	N1-C2-N3	-5.24	111.76	114.90
38	8	10	A	C5-N7-C8	-5.24	101.28	103.90
38	8	66	A	C5-C6-N1	-5.24	115.08	117.70
41	14	276	LEU	CB-CG-CD1	-5.24	102.10	111.00
1	2	44	U	C5-C4-O4	-5.23	122.76	125.90
1	2	279	G	C8-N9-C4	-5.23	104.31	106.40
36	1	266	A	C4-C5-N7	-5.23	108.08	110.70
36	1	924	G	O5'-P-OP2	-5.23	100.99	105.70
36	1	963	G	OP1-P-OP2	-5.23	111.75	119.60
36	1	1634	G	N3-C2-N2	-5.23	116.24	119.90
36	1	2306	C	N3-C2-O2	-5.23	118.24	121.90
36	1	2622	C	N1-C2-O2	-5.23	115.76	118.90
36	1	2865	U	OP1-P-O3'	5.23	116.72	105.20
80	6	375	U	N3-C2-O2	5.23	125.86	122.20
80	6	570	A	C5-C6-N1	-5.23	115.08	117.70
80	6	969	C	N3-C4-N4	-5.23	114.34	118.00
85	5	135	C	C5-C6-N1	5.23	123.62	121.00
85	5	554	A	O5'-P-OP1	-5.23	100.99	105.70
85	5	1004	U	C4-C5-C6	-5.23	116.56	119.70
85	5	3223	A	OP1-P-O3'	5.23	116.72	105.20
85	5	3317	U	O5'-P-OP2	-5.23	100.99	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1012	U	N3-C4-C5	5.23	117.74	114.60
1	2	1314	A	N1-C2-N3	-5.23	126.68	129.30
36	1	19	U	N1-C2-N3	5.23	118.04	114.90
36	1	372	A	C5-N7-C8	-5.23	101.28	103.90
36	1	1009	A	C4-C5-C6	5.23	119.62	117.00
36	1	1064	A	O5'-P-OP2	-5.23	100.99	105.70
36	1	1107	C	C6-N1-C1'	-5.23	114.52	120.80
36	1	1118	C	C2-N1-C1'	5.23	124.56	118.80
36	1	1428	A	C5-N7-C8	-5.23	101.28	103.90
36	1	1671	C	C5-C6-N1	5.23	123.62	121.00
36	1	2527	G	C2-N3-C4	-5.23	109.28	111.90
36	1	3047	U	N1-C2-N3	5.23	118.04	114.90
36	1	3325	G	C6-N1-C2	-5.23	121.96	125.10
37	3	83	U	N3-C2-O2	-5.23	118.54	122.20
80	6	288	A	C5-C6-N6	5.23	127.89	123.70
80	6	295	A	C4-C5-N7	-5.23	108.08	110.70
80	6	670	U	C2-N1-C1'	5.23	123.98	117.70
80	6	891	A	N9-C4-C5	5.23	107.89	105.80
80	6	1269	U	N1-C2-N3	5.23	118.04	114.90
85	5	102	C	N3-C4-N4	5.23	121.66	118.00
85	5	229	G	N3-C4-N9	-5.23	122.86	126.00
85	5	301	G	C8-N9-C1'	-5.23	120.20	127.00
85	5	346	C	O5'-P-OP1	-5.23	100.99	105.70
85	5	417	A	C5-C6-N1	5.23	120.32	117.70
85	5	536	U	N1-C2-N3	5.23	118.04	114.90
85	5	891	G	C5-C6-O6	5.23	131.74	128.60
85	5	1130	A	C8-N9-C4	5.23	107.89	105.80
85	5	1465	A	C5-C6-N1	-5.23	115.08	117.70
85	5	2749	G	N1-C6-O6	-5.23	116.76	119.90
85	5	3342	A	C8-N9-C4	-5.23	103.71	105.80
85	5	3353	G	O5'-P-OP1	-5.23	100.99	105.70
85	5	3370	A	N7-C8-N9	5.23	116.42	113.80
1	2	70	C	OP2-P-O3'	5.23	116.71	105.20
1	2	263	C	OP2-P-O3'	5.23	116.70	105.20
1	2	1368	G	N7-C8-N9	5.23	115.72	113.10
1	2	1609	U	N3-C4-O4	5.23	123.06	119.40
1	2	1775	G	C2-N3-C4	-5.23	109.28	111.90
36	1	11	A	C6-N1-C2	5.23	121.74	118.60
36	1	208	C	C5-C6-N1	5.23	123.61	121.00
36	1	318	A	N7-C8-N9	5.23	116.42	113.80
36	1	945	C	C2-N3-C4	5.23	122.52	119.90
36	1	2116	G	OP1-P-O3'	5.23	116.70	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2176	U	C6-N1-C2	-5.23	117.86	121.00
36	1	2736	A	C5-N7-C8	-5.23	101.28	103.90
36	1	3031	G	OP1-P-O3'	5.23	116.71	105.20
36	1	3380	U	N1-C2-O2	-5.23	119.14	122.80
38	4	116	G	C4-C5-N7	-5.23	108.71	110.80
80	6	23	G	C4-C5-N7	5.23	112.89	110.80
80	6	616	G	N7-C8-N9	5.23	115.72	113.10
85	5	128	G	C6-N1-C2	-5.23	121.96	125.10
85	5	595	G	C8-N9-C4	-5.23	104.31	106.40
85	5	646	A	C5-C6-N1	-5.23	115.08	117.70
85	5	973	A	C8-N9-C4	5.23	107.89	105.80
85	5	1417	G	N3-C4-N9	5.23	129.14	126.00
85	5	1538	G	O5'-P-OP1	-5.23	100.99	105.70
85	5	2175	U	N3-C4-C5	-5.23	111.46	114.60
85	5	2287	C	OP1-P-O3'	5.23	116.71	105.20
85	5	2362	C	C2-N3-C4	5.23	122.52	119.90
85	5	2637	A	OP1-P-OP2	-5.23	111.76	119.60
85	5	3282	U	O5'-P-OP2	-5.23	100.99	105.70
1	2	446	A	N7-C8-N9	5.23	116.42	113.80
1	2	1139	C	N3-C4-C5	5.23	123.99	121.90
36	1	582	G	N1-C2-N2	5.23	120.91	116.20
36	1	896	A	N3-C4-C5	-5.23	123.14	126.80
36	1	2268	U	C6-N1-C2	-5.23	117.86	121.00
3	s1	82	ARG	NE-CZ-NH1	-5.23	117.69	120.30
85	5	968	G	O4'-C1'-N9	-5.23	104.02	108.20
85	5	1286	A	C2-N3-C4	5.23	113.21	110.60
85	5	1329	U	OP1-P-O3'	5.23	116.70	105.20
85	5	1884	A	O5'-P-OP1	-5.23	100.99	105.70
85	5	2512	C	C4-C5-C6	-5.23	114.79	117.40
85	5	3078	U	OP1-P-O3'	-5.23	93.70	105.20
85	5	3258	U	N3-C4-O4	5.23	123.06	119.40
1	2	357	G	N3-C2-N2	5.23	123.56	119.90
1	2	1520	C	N3-C4-C5	-5.23	119.81	121.90
36	1	111	C	OP1-P-O3'	-5.23	93.70	105.20
36	1	142	C	C2-N3-C4	-5.23	117.29	119.90
36	1	894	G	C6-N1-C2	-5.23	121.96	125.10
36	1	1192	C	OP1-P-OP2	-5.23	111.76	119.60
36	1	1858	A	N1-C2-N3	5.23	131.91	129.30
36	1	2148	U	C6-N1-C2	5.23	124.14	121.00
36	1	2326	A	C6-C5-N7	5.23	135.96	132.30
36	1	3166	C	C5-C6-N1	5.23	123.61	121.00
36	1	3198	U	N3-C4-C5	5.23	117.74	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3311	C	N3-C4-N4	-5.23	114.34	118.00
80	6	120	U	N1-C2-N3	5.23	118.04	114.90
80	6	141	U	O5'-P-OP2	5.23	116.97	110.70
80	6	331	A	C6-C5-N7	-5.23	128.64	132.30
80	6	385	A	N9-C4-C5	5.23	107.89	105.80
85	5	159	A	N7-C8-N9	-5.23	111.19	113.80
85	5	926	A	C5-C6-N6	5.23	127.88	123.70
85	5	946	U	C6-N1-C2	5.23	124.14	121.00
85	5	1360	C	C5-C6-N1	-5.23	118.39	121.00
85	5	1665	C	N1-C2-N3	5.23	122.86	119.20
85	5	2205	U	N3-C4-O4	-5.23	115.74	119.40
85	5	2874	G	N3-C4-C5	-5.23	125.99	128.60
53	m7	70	THR	CA-CB-CG2	-5.23	105.08	112.40
1	2	1766	C	C4-C5-C6	-5.23	114.79	117.40
36	1	19	U	C2-N1-C1'	-5.23	111.43	117.70
36	1	828	A	C8-N9-C4	-5.23	103.71	105.80
36	1	1300	G	N3-C4-N9	5.23	129.14	126.00
36	1	2868	U	C4-C5-C6	5.23	122.84	119.70
36	1	3136	G	C4-C5-N7	5.23	112.89	110.80
80	6	632	U	N3-C4-C5	5.23	117.74	114.60
80	6	1072	C	OP2-P-O3'	5.23	116.70	105.20
80	6	1772	C	C5-C6-N1	-5.23	118.39	121.00
85	5	406	G	C2-N3-C4	-5.23	109.29	111.90
85	5	513	G	C8-N9-C4	-5.23	104.31	106.40
85	5	881	C	N3-C4-N4	5.23	121.66	118.00
85	5	1090	G	N1-C6-O6	5.23	123.03	119.90
85	5	1851	G	N3-C2-N2	-5.23	116.24	119.90
85	5	2619	G	C8-N9-C1'	-5.23	120.21	127.00
85	5	2807	U	C5-C6-N1	-5.23	120.09	122.70
85	5	3390	G	N1-C2-N3	-5.23	120.76	123.90
1	2	87	C	C4-C5-C6	5.22	120.01	117.40
1	2	329	G	N1-C2-N3	5.22	127.03	123.90
1	2	1117	C	N3-C4-C5	5.22	123.99	121.90
36	1	20	A	N1-C6-N6	-5.22	115.47	118.60
36	1	347	G	C5-C6-N1	-5.22	108.89	111.50
36	1	559	A	O5'-P-OP2	-5.22	101.00	105.70
36	1	863	C	C6-N1-C2	-5.22	118.21	120.30
36	1	1073	U	O5'-P-OP2	-5.22	101.00	105.70
36	1	1213	G	C2-N3-C4	5.22	114.51	111.90
36	1	1419	A	N7-C8-N9	5.22	116.41	113.80
36	1	1502	C	C5-C4-N4	5.22	123.86	120.20
36	1	1797	A	C5-C6-N1	5.22	120.31	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2276	G	C4-C5-N7	5.22	112.89	110.80
36	1	2314	U	N3-C2-O2	-5.22	118.54	122.20
36	1	3016	A	C6-N1-C2	5.22	121.73	118.60
36	1	3057	U	O5'-P-OP2	5.22	116.97	110.70
36	1	3093	C	C5-C4-N4	-5.22	116.54	120.20
36	1	3094	A	C4-C5-N7	5.22	113.31	110.70
36	1	3185	U	C5-C6-N1	5.22	125.31	122.70
37	3	82	G	C4-N9-C1'	5.22	133.29	126.50
80	6	320	U	C2-N1-C1'	-5.22	111.43	117.70
80	6	370	A	N7-C8-N9	-5.22	111.19	113.80
80	6	808	U	O5'-P-OP1	5.22	116.97	110.70
80	6	963	A	N1-C6-N6	-5.22	115.47	118.60
80	6	1704	U	C2-N3-C4	5.22	130.13	127.00
80	6	1730	A	N1-C2-N3	5.22	131.91	129.30
80	6	1789	G	N3-C4-N9	5.22	129.13	126.00
85	5	66	A	N9-C4-C5	5.22	107.89	105.80
85	5	1447	G	OP2-P-O3'	5.22	116.69	105.20
85	5	1560	G	C4-N9-C1'	-5.22	119.71	126.50
85	5	1585	C	OP2-P-O3'	5.22	116.69	105.20
85	5	1722	U	O5'-P-OP1	5.22	116.97	110.70
85	5	2423	U	N1-C2-O2	-5.22	119.14	122.80
85	5	2732	G	C5-C6-O6	5.22	131.74	128.60
85	5	2824	G	C8-N9-C4	-5.22	104.31	106.40
85	5	3066	U	N1-C2-N3	5.22	118.03	114.90
85	5	3273	A	C4-C5-N7	5.22	113.31	110.70
37	7	1	G	C5-C6-O6	-5.22	125.47	128.60
37	7	63	A	C8-N9-C4	-5.22	103.71	105.80
1	2	418	G	N1-C2-N3	5.22	127.03	123.90
1	2	1594	A	C8-N9-C4	-5.22	103.71	105.80
36	1	23	A	N1-C6-N6	-5.22	115.47	118.60
36	1	143	G	O5'-P-OP1	5.22	116.97	110.70
36	1	274	G	O4'-C1'-N9	-5.22	104.02	108.20
36	1	329	U	N3-C4-C5	5.22	117.73	114.60
36	1	564	G	C8-N9-C4	5.22	108.49	106.40
36	1	635	G	O5'-P-OP1	-5.22	101.00	105.70
36	1	1140	G	C6-N1-C2	5.22	128.23	125.10
36	1	1607	U	C4-C5-C6	-5.22	116.57	119.70
36	1	1874	A	OP2-P-O3'	5.22	116.69	105.20
36	1	2227	C	P-O3'-C3'	5.22	125.97	119.70
36	1	2680	A	C5-C6-N1	5.22	120.31	117.70
36	1	3309	G	N1-C2-N2	-5.22	111.50	116.20
38	4	35	C	N1-C2-N3	5.22	122.86	119.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	L7	127	LEU	CB-CG-CD2	-5.22	102.12	111.00
51	M5	144	ARG	NE-CZ-NH1	-5.22	117.69	120.30
80	6	315	A	N7-C8-N9	5.22	116.41	113.80
80	6	1043	A	C5-N7-C8	-5.22	101.29	103.90
80	6	1218	G	C5-N7-C8	5.22	106.91	104.30
80	6	1628	U	N1-C2-N3	5.22	118.03	114.90
85	5	171	G	N3-C4-N9	5.22	129.13	126.00
85	5	671	U	C2-N1-C1'	-5.22	111.43	117.70
85	5	855	U	C2-N1-C1'	5.22	123.97	117.70
85	5	1006	A	N1-C2-N3	5.22	131.91	129.30
85	5	1299	U	OP1-P-O3'	5.22	116.69	105.20
85	5	1616	U	N3-C4-C5	-5.22	111.47	114.60
85	5	1926	C	N3-C4-C5	5.22	123.99	121.90
85	5	1953	G	C5-C6-O6	-5.22	125.47	128.60
85	5	2348	A	C8-N9-C4	-5.22	103.71	105.80
85	5	2879	C	C5-C4-N4	5.22	123.86	120.20
85	5	2997	G	C6-C5-N7	-5.22	127.27	130.40
85	5	3134	A	C5-C6-N1	5.22	120.31	117.70
1	2	583	C	N3-C4-N4	5.22	121.66	118.00
1	2	826	U	C2-N3-C4	5.22	130.13	127.00
1	2	922	A	C5-C6-N1	5.22	120.31	117.70
1	2	1121	A	OP1-P-O3'	5.22	116.69	105.20
36	1	422	A	C8-N9-C4	-5.22	103.71	105.80
36	1	1181	U	C2-N3-C4	-5.22	123.87	127.00
36	1	2507	C	C6-N1-C1'	5.22	127.06	120.80
36	1	2825	C	O5'-P-OP2	5.22	116.97	110.70
38	4	28	C	C5-C6-N1	5.22	123.61	121.00
80	6	1531	G	O5'-P-OP2	-5.22	101.00	105.70
85	5	172	G	C5-C6-O6	5.22	131.73	128.60
85	5	785	G	O5'-P-OP2	5.22	116.97	110.70
85	5	1318	A	OP1-P-O3'	5.22	116.69	105.20
85	5	1499	C	N3-C2-O2	5.22	125.56	121.90
85	5	1575	A	C8-N9-C4	-5.22	103.71	105.80
85	5	2344	U	N3-C2-O2	-5.22	118.55	122.20
85	5	2705	A	C5-C6-N1	5.22	120.31	117.70
85	5	2715	A	O5'-P-OP1	-5.22	101.00	105.70
85	5	2907	G	C4-C5-N7	5.22	112.89	110.80
85	5	2913	C	C6-N1-C1'	5.22	127.06	120.80
38	8	4	C	N3-C4-C5	5.22	123.99	121.90
51	m5	203	ARG	NE-CZ-NH1	-5.22	117.69	120.30
1	2	194	U	N3-C2-O2	5.22	125.85	122.20
1	2	817	G	N7-C8-N9	5.22	115.71	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	871	U	N3-C4-C5	5.22	117.73	114.60
36	1	16	A	OP1-P-O3'	5.22	116.68	105.20
36	1	337	G	O5'-P-OP1	5.22	116.96	110.70
36	1	518	G	O5'-P-OP2	-5.22	101.00	105.70
36	1	645	A	C4-C5-C6	5.22	119.61	117.00
36	1	791	A	C8-N9-C4	-5.22	103.71	105.80
36	1	1186	G	C5-N7-C8	5.22	106.91	104.30
36	1	1295	G	C5-C6-O6	-5.22	125.47	128.60
36	1	1612	A	C6-C5-N7	-5.22	128.65	132.30
36	1	1877	U	N3-C2-O2	-5.22	118.55	122.20
38	4	49	G	C8-N9-C1'	-5.22	120.21	127.00
61	N5	38	LEU	CB-CG-CD1	-5.22	102.12	111.00
80	6	261	U	N3-C4-C5	5.22	117.73	114.60
80	6	555	A	C2-N3-C4	5.22	113.21	110.60
80	6	883	C	C4-C5-C6	5.22	120.01	117.40
80	6	956	C	N3-C4-C5	-5.22	119.81	121.90
80	6	1324	G	C5-C6-O6	-5.22	125.47	128.60
80	6	1728	A	O5'-P-OP2	-5.22	101.00	105.70
80	6	1762	A	C2-N3-C4	-5.22	107.99	110.60
80	6	1791	A	C8-N9-C4	5.22	107.89	105.80
85	5	781	G	C5-C6-O6	5.22	131.73	128.60
85	5	936	A	O5'-P-OP2	-5.22	101.00	105.70
85	5	1411	C	N1-C2-O2	-5.22	115.77	118.90
85	5	1428	A	C5-N7-C8	5.22	106.51	103.90
85	5	1563	C	N1-C2-O2	-5.22	115.77	118.90
85	5	2130	G	C4-C5-N7	-5.22	108.71	110.80
85	5	2697	A	N9-C4-C5	5.22	107.89	105.80
85	5	2850	G	OP1-P-O3'	5.22	116.68	105.20
37	7	73	C	C2'-C3'-O3'	5.22	122.05	113.70
37	7	79	A	C6-N1-C2	5.22	121.73	118.60
39	l2	175	VAL	CA-CB-CG2	-5.22	103.07	110.90
1	2	157	A	N3-C4-C5	5.22	130.45	126.80
1	2	186	C	C5-C6-N1	5.22	123.61	121.00
1	2	336	G	C8-N9-C4	5.22	108.49	106.40
1	2	501	U	C6-N1-C2	5.22	124.13	121.00
1	2	634	G	C8-N9-C4	-5.22	104.31	106.40
36	1	936	A	N1-C6-N6	-5.22	115.47	118.60
36	1	974	G	C6-N1-C2	-5.22	121.97	125.10
36	1	2243	A	C4-C5-C6	5.22	119.61	117.00
36	1	2406	C	O5'-P-OP2	-5.22	101.00	105.70
36	1	3277	U	C2-N1-C1'	5.22	123.96	117.70
52	M6	84	LEU	CA-CB-CG	5.22	127.30	115.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
76	Q0	103	LEU	CB-CG-CD1	-5.22	102.13	111.00
78	Q2	41	ARG	NE-CZ-NH1	5.22	122.91	120.30
80	6	182	A	C5-C6-N1	-5.22	115.09	117.70
80	6	1140	G	N7-C8-N9	5.22	115.71	113.10
80	6	1741	U	O5'-P-OP2	5.22	116.96	110.70
85	5	15	C	O5'-P-OP2	-5.22	101.00	105.70
85	5	517	G	N1-C2-N3	5.22	127.03	123.90
85	5	1259	A	N3-C4-C5	-5.22	123.15	126.80
85	5	2184	U	N1-C2-O2	-5.22	119.15	122.80
85	5	2301	U	N3-C2-O2	5.22	125.85	122.20
85	5	2985	C	C2-N3-C4	-5.22	117.29	119.90
85	5	3212	C	N1-C2-N3	5.22	122.85	119.20
37	7	55	A	C5-C6-N1	5.22	120.31	117.70
79	q3	8	VAL	CA-CB-CG2	-5.22	103.07	110.90
1	2	509	G	O5'-P-OP1	-5.22	101.01	105.70
1	2	634	G	C6-C5-N7	-5.22	127.27	130.40
1	2	1263	C	C4-C5-C6	5.22	120.01	117.40
1	2	1584	G	C6-N1-C2	-5.22	121.97	125.10
1	2	1638	A	C6-N1-C2	-5.22	115.47	118.60
1	2	1666	C	N3-C4-C5	5.22	123.99	121.90
1	2	1801	C	C5-C4-N4	5.22	123.85	120.20
36	1	208	C	O5'-P-OP1	-5.22	101.00	105.70
36	1	220	G	N9-C4-C5	5.22	107.49	105.40
36	1	793	C	C2-N1-C1'	-5.22	113.06	118.80
36	1	892	U	O5'-P-OP1	5.22	116.96	110.70
36	1	1409	G	C6-N1-C2	-5.22	121.97	125.10
36	1	1627	U	C2-N3-C4	5.22	130.13	127.00
36	1	1735	G	O4'-C1'-N9	5.22	112.37	108.20
36	1	2206	G	N3-C4-N9	5.22	129.13	126.00
36	1	2515	A	C5-C6-N6	5.22	127.87	123.70
36	1	2610	G	N3-C2-N2	-5.22	116.25	119.90
36	1	2630	C	N1-C2-O2	-5.22	115.77	118.90
37	3	89	G	N1-C2-N3	5.22	127.03	123.90
38	4	144	G	N3-C4-N9	-5.22	122.87	126.00
80	6	372	G	N1-C6-O6	5.22	123.03	119.90
80	6	451	A	C5-N7-C8	-5.22	101.29	103.90
80	6	700	C	C6-N1-C2	-5.22	118.21	120.30
80	6	981	U	C6-N1-C2	-5.22	117.87	121.00
3	s1	64	ARG	NE-CZ-NH1	-5.22	117.69	120.30
85	5	107	A	OP1-P-O3'	-5.22	93.72	105.20
85	5	139	G	OP1-P-OP2	-5.22	111.78	119.60
85	5	362	U	N3-C2-O2	5.22	125.85	122.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	595	G	C5-C6-N1	-5.22	108.89	111.50
85	5	774	G	OP1-P-OP2	5.22	127.42	119.60
85	5	889	U	N3-C4-O4	-5.22	115.75	119.40
85	5	1140	G	O5'-P-OP1	-5.22	101.00	105.70
85	5	1376	C	O5'-P-OP2	-5.22	101.01	105.70
85	5	1382	G	C4-C5-C6	-5.22	115.67	118.80
85	5	1574	C	P-O3'-C3'	5.22	125.96	119.70
85	5	2327	U	N3-C2-O2	5.22	125.85	122.20
85	5	2721	A	C5-C6-N1	-5.22	115.09	117.70
85	5	2754	G	C2-N3-C4	-5.22	109.29	111.90
85	5	2810	C	N3-C4-C5	-5.22	119.81	121.90
85	5	2816	G	OP1-P-OP2	-5.22	111.78	119.60
38	8	18	U	OP2-P-O3'	5.22	116.67	105.20
88	n4	56	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	2	36	C	C5-C6-N1	-5.21	118.39	121.00
1	2	301	A	C4-C5-C6	5.21	119.61	117.00
1	2	732	U	N1-C2-O2	5.21	126.45	122.80
1	2	924	A	N9-C4-C5	5.21	107.89	105.80
1	2	1184	G	C4-C5-N7	5.21	112.89	110.80
1	2	1190	C	C6-N1-C2	5.21	122.39	120.30
1	2	1385	G	C6-C5-N7	-5.21	127.27	130.40
1	2	1515	U	C5-C6-N1	5.21	125.31	122.70
1	2	1641	G	C2-N3-C4	-5.21	109.29	111.90
36	1	148	G	C6-N1-C2	-5.21	121.97	125.10
36	1	999	G	C4-C5-C6	-5.21	115.67	118.80
36	1	1090	G	N1-C2-N2	-5.21	111.51	116.20
36	1	1097	G	C5-C6-N1	5.21	114.11	111.50
36	1	1724	U	O5'-P-OP1	5.21	116.96	110.70
36	1	2183	A	OP2-P-O3'	5.21	116.67	105.20
36	1	2434	U	OP1-P-OP2	5.21	127.42	119.60
36	1	2765	C	C5-C6-N1	-5.21	118.39	121.00
36	1	2830	G	C6-C5-N7	-5.21	127.27	130.40
80	6	230	C	N1-C2-N3	-5.21	115.55	119.20
80	6	513	U	N1-C2-N3	5.21	118.03	114.90
80	6	1746	A	C5-C6-N1	-5.21	115.09	117.70
85	5	330	G	OP2-P-O3'	5.21	116.67	105.20
85	5	376	G	O5'-P-OP2	5.21	116.96	110.70
85	5	722	G	C4-N9-C1'	5.21	133.28	126.50
85	5	1592	G	C4-N9-C1'	5.21	133.28	126.50
85	5	1686	U	OP1-P-OP2	5.21	127.42	119.60
85	5	1697	A	N9-C4-C5	-5.21	103.71	105.80
85	5	1748	G	C5-C6-O6	5.21	131.73	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2968	G	C8-N9-C1'	-5.21	120.22	127.00
49	m3	70	ARG	NE-CZ-NH2	-5.21	117.69	120.30
52	m6	99	LEU	CA-CB-CG	5.21	127.29	115.30
73	o7	65	ARG	NE-CZ-NH2	-5.21	117.69	120.30
1	2	555	A	N1-C2-N3	-5.21	126.69	129.30
1	2	1509	A	N1-C2-N3	-5.21	126.69	129.30
1	2	1564	C	N3-C4-C5	5.21	123.98	121.90
36	1	272	G	C8-N9-C4	5.21	108.48	106.40
36	1	511	G	C4-C5-C6	5.21	121.93	118.80
36	1	1642	A	OP1-P-OP2	-5.21	111.78	119.60
36	1	1889	G	C8-N9-C4	5.21	108.48	106.40
36	1	3213	A	N1-C6-N6	5.21	121.73	118.60
80	6	219	A	N7-C8-N9	-5.21	111.19	113.80
80	6	414	C	N1-C2-O2	5.21	122.03	118.90
80	6	1567	U	OP1-P-OP2	-5.21	111.78	119.60
85	5	417	A	N7-C8-N9	-5.21	111.19	113.80
85	5	1357	G	C4-C5-N7	5.21	112.89	110.80
85	5	2676	A	OP2-P-O3'	5.21	116.67	105.20
85	5	3045	G	OP2-P-O3'	5.21	116.67	105.20
1	2	402	C	C2-N3-C4	5.21	122.50	119.90
1	2	737	A	C4-C5-N7	-5.21	108.09	110.70
1	2	1326	U	N3-C2-O2	5.21	125.85	122.20
36	1	50	U	N3-C4-O4	5.21	123.05	119.40
36	1	1068	C	N3-C4-C5	5.21	123.98	121.90
36	1	1382	G	N1-C6-O6	-5.21	116.77	119.90
36	1	1495	U	N3-C2-O2	5.21	125.85	122.20
36	1	1526	U	C4-C5-C6	5.21	122.83	119.70
36	1	2344	U	C5-C4-O4	5.21	129.03	125.90
36	1	2650	U	C6-N1-C2	-5.21	117.87	121.00
37	3	103	A	O4'-C1'-N9	-5.21	104.03	108.20
38	4	125	U	C4-C5-C6	-5.21	116.57	119.70
80	6	748	U	C5-C6-N1	5.21	125.31	122.70
80	6	1354	G	N1-C6-O6	5.21	123.03	119.90
80	6	1521	G	C6-N1-C2	-5.21	121.97	125.10
80	6	1748	G	N3-C2-N2	-5.21	116.25	119.90
85	5	198	A	OP2-P-O3'	5.21	116.67	105.20
85	5	497	C	N1-C2-O2	-5.21	115.77	118.90
85	5	1261	G	C5-N7-C8	-5.21	101.69	104.30
85	5	1800	A	C6-C5-N7	5.21	135.95	132.30
85	5	2164	A	N7-C8-N9	5.21	116.41	113.80
85	5	2206	G	C4-C5-C6	-5.21	115.67	118.80
85	5	2410	U	C5-C6-N1	5.21	125.31	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2836	C	N3-C2-O2	5.21	125.55	121.90
85	5	2868	U	N1-C2-O2	5.21	126.45	122.80
85	5	3390	G	O4'-C1'-N9	-5.21	104.03	108.20
1	2	96	G	C2-N3-C4	5.21	114.50	111.90
1	2	256	A	C5-C6-N6	5.21	127.87	123.70
36	1	211	A	C4-C5-N7	5.21	113.31	110.70
36	1	1286	A	N1-C2-N3	5.21	131.91	129.30
36	1	1591	G	C4-C5-C6	5.21	121.93	118.80
80	6	357	G	C2-N3-C4	-5.21	109.30	111.90
80	6	579	A	N9-C4-C5	-5.21	103.72	105.80
80	6	770	A	OP2-P-O3'	5.21	116.66	105.20
85	5	1166	G	OP1-P-OP2	-5.21	111.78	119.60
85	5	1932	A	N7-C8-N9	-5.21	111.19	113.80
85	5	3053	G	C2-N3-C4	-5.21	109.30	111.90
1	2	133	U	OP2-P-O3'	5.21	116.66	105.20
1	2	170	U	C5-C6-N1	-5.21	120.09	122.70
1	2	683	C	C2-N3-C4	5.21	122.50	119.90
1	2	1191	A	C2-N3-C4	-5.21	108.00	110.60
36	1	33	G	C4-C5-C6	5.21	121.92	118.80
36	1	227	G	C6-N1-C2	5.21	128.22	125.10
36	1	241	G	OP1-P-O3'	5.21	116.66	105.20
36	1	424	G	C6-N1-C2	-5.21	121.97	125.10
36	1	511	G	C6-N1-C2	-5.21	121.97	125.10
36	1	607	A	OP1-P-OP2	5.21	127.41	119.60
36	1	1458	U	N1-C2-O2	-5.21	119.15	122.80
36	1	1829	G	N7-C8-N9	-5.21	110.50	113.10
36	1	1912	U	OP2-P-O3'	5.21	116.66	105.20
36	1	2982	A	C6-C5-N7	5.21	135.94	132.30
36	1	3108	G	C5-C6-O6	5.21	131.72	128.60
36	1	3289	G	N3-C4-C5	-5.21	126.00	128.60
36	1	3390	G	C4-C5-N7	5.21	112.88	110.80
38	4	29	U	OP2-P-O3'	5.21	116.66	105.20
80	6	654	C	C2-N3-C4	5.21	122.50	119.90
80	6	1637	C	C4-C5-C6	5.21	120.00	117.40
85	5	166	C	N1-C2-O2	5.21	122.03	118.90
85	5	206	G	N1-C2-N3	-5.21	120.78	123.90
85	5	803	C	N3-C2-O2	5.21	125.55	121.90
85	5	1161	G	C4-C5-C6	-5.21	115.67	118.80
85	5	1414	G	C4-C5-N7	5.21	112.88	110.80
85	5	1649	U	OP2-P-O3'	5.21	116.66	105.20
85	5	2105	G	N7-C8-N9	5.21	115.70	113.10
85	5	3170	A	OP1-P-OP2	5.21	127.41	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	103	G	C2-N3-C4	-5.21	109.30	111.90
1	2	563	U	N1-C2-O2	5.21	126.44	122.80
1	2	885	G	C5-C6-N1	-5.21	108.90	111.50
36	1	898	U	N1-C2-O2	5.21	126.44	122.80
36	1	994	G	C5-C6-N1	5.21	114.10	111.50
36	1	1009	A	OP2-P-O3'	5.21	116.65	105.20
36	1	1134	G	C2-N3-C4	5.21	114.50	111.90
36	1	1372	C	C5-C4-N4	5.21	123.84	120.20
36	1	1509	A	O4'-C1'-N9	-5.21	104.03	108.20
36	1	2187	G	N3-C2-N2	-5.21	116.26	119.90
36	1	2194	G	C5-N7-C8	-5.21	101.70	104.30
36	1	2333	C	N3-C4-C5	5.21	123.98	121.90
36	1	3113	A	C5-C6-N6	5.21	127.87	123.70
36	1	3165	A	C8-N9-C4	5.21	107.88	105.80
37	3	115	G	C5-N7-C8	-5.21	101.70	104.30
38	4	16	G	N1-C6-O6	-5.21	116.78	119.90
38	4	123	G	N1-C2-N2	5.21	120.89	116.20
80	6	126	A	C6-C5-N7	5.21	135.94	132.30
80	6	321	C	O5'-P-OP1	-5.21	101.01	105.70
80	6	957	G	C2-N3-C4	-5.21	109.30	111.90
85	5	830	A	N7-C8-N9	5.21	116.40	113.80
85	5	975	C	C2-N3-C4	5.21	122.50	119.90
85	5	1335	C	C5-C6-N1	5.21	123.60	121.00
85	5	1633	C	OP2-P-O3'	5.21	116.65	105.20
85	5	1815	U	C4-C5-C6	-5.21	116.58	119.70
85	5	2796	G	N9-C4-C5	5.21	107.48	105.40
85	5	2842	U	N1-C2-O2	5.21	126.44	122.80
85	5	3049	A	N1-C2-N3	5.21	131.90	129.30
1	2	312	A	C6-C5-N7	-5.21	128.66	132.30
36	1	569	A	C4-C5-C6	5.21	119.60	117.00
36	1	801	A	C4-C5-N7	5.21	113.30	110.70
36	1	824	C	N3-C4-N4	5.21	121.64	118.00
36	1	1048	A	C8-N9-C4	5.21	107.88	105.80
36	1	1670	C	C5-C4-N4	-5.21	116.56	120.20
36	1	2851	A	C2-N3-C4	-5.21	108.00	110.60
36	1	2892	A	C5-C6-N6	5.21	127.86	123.70
80	6	1148	C	C5-C4-N4	5.21	123.84	120.20
80	6	1735	U	N1-C2-O2	5.21	126.44	122.80
85	5	98	G	OP1-P-OP2	-5.21	111.79	119.60
85	5	704	U	C2-N1-C1'	5.21	123.95	117.70
85	5	1242	G	C8-N9-C4	-5.21	104.32	106.40
85	5	1536	G	N1-C2-N2	5.21	120.89	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2648	G	OP1-P-O3'	5.21	116.65	105.20
85	5	2719	U	C5'-C4'-O4'	5.21	115.35	109.10
85	5	3020	U	C2-N1-C1'	5.21	123.95	117.70
49	m3	42	ARG	NE-CZ-NH2	-5.21	117.70	120.30
1	2	499	U	N1-C2-N3	-5.20	111.78	114.90
1	2	835	C	C5-C4-N4	-5.20	116.56	120.20
1	2	1604	U	C6-N1-C2	-5.20	117.88	121.00
36	1	750	G	OP2-P-O3'	5.20	116.65	105.20
36	1	1115	G	C5-C6-O6	5.20	131.72	128.60
36	1	1171	G	C5-C6-N1	5.20	114.10	111.50
36	1	1337	A	C5-C6-N1	5.20	120.30	117.70
36	1	2163	C	C4-C5-C6	5.20	120.00	117.40
36	1	2944	U	O5'-P-OP1	-5.20	101.02	105.70
36	1	3117	C	C5-C6-N1	5.20	123.60	121.00
36	1	3124	G	C4-C5-N7	-5.20	108.72	110.80
37	3	49	G	C6-C5-N7	5.20	133.52	130.40
80	6	257	A	C8-N9-C4	5.20	107.88	105.80
80	6	1698	G	N3-C4-C5	-5.20	126.00	128.60
3	s1	41	ARG	NE-CZ-NH1	5.20	122.90	120.30
85	5	157	A	N3-C4-C5	-5.20	123.16	126.80
85	5	236	G	OP1-P-O3'	-5.20	93.75	105.20
85	5	637	C	C2-N3-C4	5.20	122.50	119.90
85	5	1411	C	N3-C2-O2	5.20	125.54	121.90
85	5	1506	A	N3-C4-C5	5.20	130.44	126.80
85	5	1600	U	N3-C4-O4	-5.20	115.76	119.40
85	5	1885	U	C2-N1-C1'	-5.20	111.45	117.70
85	5	1916	U	OP1-P-OP2	-5.20	111.80	119.60
85	5	2164	A	C5-C6-N6	5.20	127.86	123.70
85	5	2269	U	C4-C5-C6	5.20	122.82	119.70
85	5	2382	G	C4-C5-C6	-5.20	115.68	118.80
85	5	2720	G	N1-C6-O6	-5.20	116.78	119.90
85	5	3210	A	OP1-P-OP2	5.20	127.41	119.60
37	7	101	G	C4-N9-C1'	5.20	133.26	126.50
38	8	66	A	N3-C4-C5	-5.20	123.16	126.80
38	8	88	A	OP2-P-O3'	5.20	116.65	105.20
38	8	132	G	N1-C2-N2	-5.20	111.52	116.20
1	2	1049	C	C2-N3-C4	-5.20	117.30	119.90
1	2	1725	U	C5-C6-N1	5.20	125.30	122.70
36	1	413	U	N1-C2-O2	5.20	126.44	122.80
36	1	525	C	OP1-P-OP2	5.20	127.40	119.60
36	1	1524	A	P-O3'-C3'	5.20	125.94	119.70
36	1	2717	U	N1-C2-O2	-5.20	119.16	122.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	385	A	N1-C6-N6	-5.20	115.48	118.60
80	6	962	C	C6-N1-C2	5.20	122.38	120.30
85	5	210	U	N1-C2-O2	5.20	126.44	122.80
85	5	231	G	C4-C5-N7	5.20	112.88	110.80
85	5	1331	U	N1-C2-O2	-5.20	119.16	122.80
85	5	1400	G	C5-C6-N1	-5.20	108.90	111.50
85	5	1662	G	N1-C2-N2	5.20	120.88	116.20
85	5	1789	G	O4'-C1'-N9	5.20	112.36	108.20
52	m6	15	LEU	CB-CG-CD2	-5.20	102.16	111.00
1	2	408	C	N3-C2-O2	-5.20	118.26	121.90
1	2	434	G	C5-C6-N1	-5.20	108.90	111.50
1	2	848	A	C5-N7-C8	-5.20	101.30	103.90
1	2	955	G	C2-N3-C4	-5.20	109.30	111.90
1	2	1313	G	C2-N3-C4	-5.20	109.30	111.90
1	2	1756	C	O5'-P-OP1	-5.20	101.02	105.70
36	1	431	U	OP1-P-O3'	-5.20	93.76	105.20
36	1	701	G	N9-C4-C5	5.20	107.48	105.40
36	1	1194	G	C6-N1-C2	-5.20	121.98	125.10
36	1	1829	G	N3-C4-C5	-5.20	126.00	128.60
36	1	2201	G	C5-N7-C8	-5.20	101.70	104.30
36	1	2545	C	C6-N1-C2	5.20	122.38	120.30
36	1	2980	U	N3-C4-C5	-5.20	111.48	114.60
36	1	3012	A	OP1-P-O3'	5.20	116.64	105.20
36	1	3014	U	O5'-P-OP1	-5.20	101.02	105.70
36	1	3374	U	N1-C2-O2	5.20	126.44	122.80
37	3	75	G	OP1-P-O3'	5.20	116.64	105.20
38	4	57	C	OP1-P-OP2	-5.20	111.80	119.60
80	6	385	A	C4-C5-C6	5.20	119.60	117.00
80	6	901	G	N7-C8-N9	5.20	115.70	113.10
80	6	1112	G	C2-N3-C4	-5.20	109.30	111.90
85	5	33	G	C4-C5-C6	-5.20	115.68	118.80
85	5	342	A	OP1-P-O3'	5.20	116.64	105.20
85	5	805	G	N3-C4-C5	-5.20	126.00	128.60
85	5	1190	A	O4'-C1'-N9	-5.20	104.04	108.20
85	5	1202	A	C5-C6-N6	5.20	127.86	123.70
85	5	1391	C	C6-N1-C1'	-5.20	114.56	120.80
85	5	1750	A	O5'-P-OP1	5.20	116.94	110.70
85	5	2219	A	N7-C8-N9	5.20	116.40	113.80
85	5	2388	U	C6-N1-C2	5.20	124.12	121.00
85	5	2946	A	N1-C6-N6	5.20	121.72	118.60
85	5	3177	G	N1-C6-O6	5.20	123.02	119.90
38	8	30	C	N1-C2-O2	-5.20	115.78	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	100	U	N1-C2-O2	-5.20	119.16	122.80
47	m0	28	ASP	CB-CG-OD1	-5.20	113.62	118.30
1	2	258	C	OP1-P-O3'	5.20	116.64	105.20
1	2	279	G	N1-C2-N3	-5.20	120.78	123.90
1	2	339	C	OP1-P-OP2	-5.20	111.80	119.60
1	2	792	A	N7-C8-N9	5.20	116.40	113.80
1	2	1023	G	C6-C5-N7	-5.20	127.28	130.40
1	2	1274	G	C5-C6-O6	-5.20	125.48	128.60
36	1	286	U	C5-C6-N1	5.20	125.30	122.70
36	1	609	G	N1-C2-N3	-5.20	120.78	123.90
36	1	1097	G	C4-C5-C6	-5.20	115.68	118.80
36	1	1581	C	N3-C4-C5	-5.20	119.82	121.90
36	1	1591	G	C2-N3-C4	-5.20	109.30	111.90
36	1	1664	G	N3-C4-N9	-5.20	122.88	126.00
36	1	1681	U	N1-C2-O2	5.20	126.44	122.80
36	1	1942	U	OP1-P-OP2	5.20	127.40	119.60
36	1	2442	G	C2-N3-C4	-5.20	109.30	111.90
36	1	2643	A	O5'-P-OP2	5.20	116.94	110.70
36	1	2774	C	N3-C4-N4	5.20	121.64	118.00
37	3	30	G	OP1-P-O3'	5.20	116.64	105.20
80	6	368	U	O5'-P-OP2	-5.20	101.02	105.70
80	6	1047	G	N9-C4-C5	-5.20	103.32	105.40
80	6	1075	C	C5-C4-N4	-5.20	116.56	120.20
80	6	1554	U	N3-C2-O2	-5.20	118.56	122.20
80	6	1604	U	C5-C4-O4	-5.20	122.78	125.90
85	5	75	G	P-O3'-C3'	5.20	125.94	119.70
85	5	586	C	C6-N1-C2	5.20	122.38	120.30
85	5	1354	G	C5-C6-O6	5.20	131.72	128.60
85	5	1357	G	P-O3'-C3'	-5.20	113.46	119.70
85	5	1504	A	OP1-P-O3'	-5.20	93.77	105.20
85	5	1525	G	N7-C8-N9	5.20	115.70	113.10
85	5	1624	G	C6-N1-C2	-5.20	121.98	125.10
85	5	1710	C	N1-C2-O2	-5.20	115.78	118.90
85	5	2122	G	N1-C2-N3	5.20	127.02	123.90
85	5	2891	U	C2-N1-C1'	5.20	123.94	117.70
85	5	3085	G	O5'-P-OP1	5.20	116.94	110.70
85	5	3197	G	O5'-P-OP1	5.20	116.94	110.70
85	5	3261	C	N3-C2-O2	5.20	125.54	121.90
36	1	292	U	OP1-P-OP2	-5.20	111.81	119.60
36	1	1255	C	C6-N1-C2	-5.20	118.22	120.30
36	1	1419	A	C6-C5-N7	-5.20	128.66	132.30
36	1	1498	A	OP1-P-O3'	5.20	116.63	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1596	C	C6-N1-C1'	-5.20	114.56	120.80
36	1	1746	U	C6-N1-C2	-5.20	117.88	121.00
85	5	852	U	OP2-P-O3'	5.20	116.63	105.20
85	5	875	G	C6-N1-C2	-5.20	121.98	125.10
85	5	1788	C	O5'-P-OP2	-5.20	101.02	105.70
85	5	2801	A	P-O3'-C3'	-5.20	113.46	119.70
85	5	2872	A	OP1-P-O3'	5.20	116.63	105.20
37	7	101	G	C8-N9-C1'	-5.20	120.25	127.00
1	2	339	C	OP2-P-O3'	5.20	116.63	105.20
1	2	1099	A	C6-C5-N7	-5.20	128.66	132.30
1	2	1596	U	N3-C4-C5	5.20	117.72	114.60
36	1	20	A	C4-C5-N7	-5.20	108.10	110.70
36	1	271	C	C5-C4-N4	5.20	123.84	120.20
36	1	402	A	C5-N7-C8	5.20	106.50	103.90
36	1	1065	A	N1-C2-N3	5.20	131.90	129.30
36	1	1339	C	C2-N1-C1'	5.20	124.52	118.80
36	1	1465	A	N9-C4-C5	-5.20	103.72	105.80
36	1	1680	G	N3-C4-C5	5.20	131.20	128.60
36	1	1882	G	N9-C4-C5	5.20	107.48	105.40
36	1	2239	G	C6-C5-N7	5.20	133.52	130.40
36	1	2350	C	O5'-P-OP2	5.20	116.93	110.70
36	1	2594	C	OP1-P-OP2	-5.20	111.81	119.60
37	3	17	A	C6-C5-N7	-5.20	128.66	132.30
38	4	102	U	O5'-P-OP2	-5.20	101.02	105.70
57	N1	43	LYS	CD-CE-NZ	5.20	123.65	111.70
80	6	3	U	C6-N1-C2	5.20	124.12	121.00
80	6	10	G	C5-C6-N1	-5.20	108.90	111.50
80	6	506	A	N1-C6-N6	5.20	121.72	118.60
85	5	102	C	C6-N1-C2	5.20	122.38	120.30
85	5	501	A	N1-C6-N6	-5.20	115.48	118.60
85	5	514	G	OP1-P-OP2	-5.20	111.81	119.60
85	5	885	U	N1-C2-O2	-5.20	119.16	122.80
85	5	961	C	C5-C4-N4	5.20	123.84	120.20
85	5	990	U	C2-N3-C4	-5.20	123.88	127.00
85	5	1065	A	OP1-P-O3'	5.20	116.63	105.20
85	5	1493	G	OP2-P-O3'	-5.20	93.77	105.20
85	5	1713	G	C6-N1-C2	-5.20	121.98	125.10
85	5	1902	G	O5'-P-OP2	5.20	116.93	110.70
85	5	2242	A	N3-C4-C5	-5.20	123.16	126.80
85	5	2347	U	OP2-P-O3'	5.20	116.63	105.20
85	5	2648	G	N1-C2-N2	-5.20	111.53	116.20
85	5	2816	G	O4'-C1'-N9	5.20	112.36	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	35	U	C5-C6-N1	-5.19	120.10	122.70
1	2	477	A	C8-N9-C4	5.19	107.88	105.80
1	2	1354	A	N7-C8-N9	-5.19	111.20	113.80
36	1	1673	G	C8-N9-C1'	-5.19	120.25	127.00
36	1	1818	U	C6-N1-C2	5.19	124.12	121.00
36	1	2361	A	O5'-P-OP2	-5.19	101.03	105.70
36	1	3052	G	C8-N9-C4	-5.19	104.32	106.40
36	1	3276	G	N1-C2-N3	-5.19	120.78	123.90
62	N6	37	LYS	CD-CE-NZ	-5.19	99.75	111.70
85	5	2897	A	N7-C8-N9	-5.19	111.20	113.80
43	l6	32	ALA	CB-CA-C	-5.19	102.31	110.10
1	2	207	U	N1-C2-O2	5.19	126.44	122.80
1	2	841	G	C5-C6-N1	5.19	114.10	111.50
36	1	113	C	C4-C5-C6	5.19	120.00	117.40
36	1	242	C	N3-C4-C5	-5.19	119.82	121.90
36	1	683	U	C5-C4-O4	-5.19	122.78	125.90
36	1	940	G	C4-C5-C6	-5.19	115.69	118.80
36	1	949	C	C4-C5-C6	5.19	120.00	117.40
36	1	986	U	OP1-P-OP2	5.19	127.39	119.60
36	1	1062	A	O4'-C1'-N9	5.19	112.35	108.20
36	1	1411	C	C4-C5-C6	5.19	120.00	117.40
36	1	1826	C	C6-N1-C2	5.19	122.38	120.30
36	1	1920	U	C5-C4-O4	5.19	129.01	125.90
36	1	2112	U	C2-N3-C4	5.19	130.12	127.00
36	1	2316	G	N1-C6-O6	5.19	123.02	119.90
36	1	2616	C	C2-N3-C4	5.19	122.50	119.90
36	1	2690	G	N7-C8-N9	5.19	115.70	113.10
36	1	3120	C	N1-C2-N3	-5.19	115.57	119.20
36	1	3363	U	OP1-P-O3'	5.19	116.62	105.20
37	3	77	G	C6-C5-N7	-5.19	127.28	130.40
46	L9	52	LEU	CB-CG-CD1	-5.19	102.17	111.00
80	6	386	G	C6-N1-C2	-5.19	121.98	125.10
80	6	1783	C	OP1-P-OP2	-5.19	111.81	119.60
85	5	194	U	C2-N1-C1'	5.19	123.93	117.70
85	5	693	A	C5-C6-N1	5.19	120.30	117.70
85	5	722	G	N3-C4-N9	5.19	129.12	126.00
85	5	1068	C	C6-N1-C1'	5.19	127.03	120.80
85	5	1140	G	C4-C5-N7	5.19	112.88	110.80
85	5	1310	G	C6-C5-N7	-5.19	127.28	130.40
85	5	1385	C	C2-N1-C1'	5.19	124.51	118.80
85	5	2211	U	C5-C6-N1	-5.19	120.10	122.70
85	5	2216	G	N7-C8-N9	5.19	115.70	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3212	C	O5'-P-OP1	5.19	116.93	110.70
38	8	95	G	N3-C4-C5	-5.19	126.00	128.60
38	8	99	C	C6-N1-C2	5.19	122.38	120.30
44	17	131	GLU	OE1-CD-OE2	5.19	129.53	123.30
57	n1	91	LEU	CB-CG-CD1	-5.19	102.17	111.00
1	2	408	C	N3-C4-N4	-5.19	114.37	118.00
1	2	1466	A	N7-C8-N9	5.19	116.39	113.80
36	1	680	G	C8-N9-C1'	-5.19	120.25	127.00
36	1	1164	G	N3-C2-N2	5.19	123.53	119.90
36	1	1358	C	C6-N1-C2	5.19	122.38	120.30
36	1	1364	C	OP2-P-O3'	5.19	116.62	105.20
36	1	1831	U	N3-C4-C5	-5.19	111.49	114.60
36	1	2705	A	C6-N1-C2	-5.19	115.49	118.60
36	1	2824	G	N1-C2-N3	5.19	127.02	123.90
36	1	3057	U	C4-C5-C6	5.19	122.81	119.70
36	1	3366	G	O5'-P-OP1	5.19	116.93	110.70
38	4	125	U	C6-N1-C2	5.19	124.11	121.00
80	6	194	U	N1-C2-O2	5.19	126.43	122.80
80	6	470	A	C4-N9-C1'	5.19	135.64	126.30
80	6	1384	A	C8-N9-C4	-5.19	103.72	105.80
85	5	311	C	O4'-C1'-N1	5.19	112.35	108.20
85	5	792	G	O5'-P-OP2	-5.19	101.03	105.70
85	5	1545	A	C6-C5-N7	-5.19	128.67	132.30
85	5	1560	G	C5-C6-N1	-5.19	108.91	111.50
85	5	1652	G	C4-C5-C6	5.19	121.91	118.80
85	5	1679	A	N1-C6-N6	-5.19	115.49	118.60
85	5	3016	A	C5-N7-C8	-5.19	101.31	103.90
38	8	58	G	N7-C8-N9	5.19	115.69	113.10
1	2	942	U	N3-C4-C5	5.19	117.71	114.60
36	1	75	G	N1-C6-O6	5.19	123.01	119.90
36	1	420	G	C2-N3-C4	5.19	114.50	111.90
36	1	607	A	C5-C6-N6	5.19	127.85	123.70
36	1	957	C	C5-C6-N1	-5.19	118.41	121.00
36	1	965	A	N9-C4-C5	5.19	107.88	105.80
36	1	1008	U	N3-C2-O2	5.19	125.83	122.20
36	1	2418	G	C4-C5-N7	5.19	112.88	110.80
36	1	2636	A	C4-N9-C1'	5.19	135.64	126.30
37	3	29	C	C2-N1-C1'	5.19	124.51	118.80
80	6	616	G	N3-C2-N2	-5.19	116.27	119.90
85	5	610	G	N7-C8-N9	5.19	115.69	113.10
85	5	1330	A	N1-C2-N3	5.19	131.90	129.30
1	2	993	C	OP2-P-O3'	5.19	116.61	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1460	G	C6-C5-N7	-5.19	127.29	130.40
1	2	1708	U	O5'-P-OP1	5.19	116.92	110.70
36	1	70	A	C4-C5-C6	5.19	119.59	117.00
36	1	214	G	N3-C4-C5	5.19	131.19	128.60
36	1	222	A	OP1-P-O3'	5.19	116.61	105.20
36	1	399	A	C4-C5-C6	5.19	119.59	117.00
36	1	666	A	P-O3'-C3'	-5.19	113.47	119.70
36	1	1338	C	N3-C4-N4	-5.19	114.37	118.00
36	1	1867	A	O5'-P-OP2	-5.19	101.03	105.70
36	1	2556	C	C2-N3-C4	-5.19	117.31	119.90
36	1	2990	G	OP1-P-OP2	-5.19	111.82	119.60
36	1	3301	U	O5'-P-OP2	-5.19	101.03	105.70
37	3	19	C	N3-C4-C5	5.19	123.97	121.90
80	6	773	C	O4'-C1'-N1	-5.19	104.05	108.20
80	6	1543	A	N9-C4-C5	-5.19	103.72	105.80
80	6	1701	A	C4-C5-N7	5.19	113.29	110.70
80	6	1747	G	O4'-C1'-N9	-5.19	104.05	108.20
85	5	358	G	N1-C2-N2	5.19	120.87	116.20
85	5	845	G	N7-C8-N9	-5.19	110.51	113.10
85	5	2562	A	N9-C4-C5	-5.19	103.72	105.80
85	5	3350	C	C6-N1-C2	-5.19	118.22	120.30
37	7	21	G	C5-C6-N1	-5.19	108.91	111.50
1	2	1153	G	OP1-P-O3'	5.19	116.61	105.20
36	1	1068	C	C6-N1-C2	5.19	122.37	120.30
36	1	1730	G	OP1-P-OP2	-5.19	111.82	119.60
36	1	2262	A	C5-C6-N6	5.19	127.85	123.70
80	6	234	G	C2-N3-C4	5.19	114.49	111.90
80	6	556	A	C4-C5-N7	5.19	113.29	110.70
85	5	263	C	C2-N3-C4	5.19	122.49	119.90
85	5	412	G	C4-N9-C1'	5.19	133.24	126.50
85	5	1852	G	C5-C6-O6	-5.19	125.49	128.60
1	2	351	C	C6-N1-C2	-5.18	118.23	120.30
1	2	491	C	N3-C4-C5	-5.18	119.83	121.90
1	2	1090	G	C4-C5-N7	-5.18	108.73	110.80
1	2	1109	G	C8-N9-C4	5.18	108.47	106.40
1	2	1430	C	C5-C4-N4	-5.18	116.57	120.20
1	2	1487	G	C2-N3-C4	5.18	114.49	111.90
36	1	174	C	N3-C2-O2	5.18	125.53	121.90
36	1	202	G	N3-C2-N2	-5.18	116.27	119.90
36	1	212	G	OP2-P-O3'	5.18	116.61	105.20
36	1	568	G	N1-C2-N3	5.18	127.01	123.90
36	1	637	C	N3-C2-O2	-5.18	118.27	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	894	G	C2-N3-C4	-5.18	109.31	111.90
36	1	1330	A	C5-C6-N1	-5.18	115.11	117.70
36	1	1422	G	C2-N3-C4	5.18	114.49	111.90
36	1	1507	G	N3-C2-N2	-5.18	116.27	119.90
36	1	1669	C	N3-C2-O2	5.18	125.53	121.90
36	1	2362	C	N1-C2-O2	5.18	122.01	118.90
36	1	2776	C	C6-N1-C1'	-5.18	114.58	120.80
36	1	2939	G	C4-N9-C1'	5.18	133.24	126.50
36	1	3313	U	O5'-P-OP1	5.18	116.92	110.70
37	3	6	C	N3-C2-O2	5.18	125.53	121.90
38	4	11	C	N3-C2-O2	5.18	125.53	121.90
40	L3	352	GLU	OE1-CD-OE2	-5.18	117.08	123.30
80	6	322	G	C6-C5-N7	-5.18	127.29	130.40
80	6	755	A	C6-C5-N7	-5.18	128.67	132.30
80	6	1036	A	N9-C4-C5	5.18	107.87	105.80
80	6	1151	A	C5-N7-C8	-5.18	101.31	103.90
80	6	1160	A	C2-N3-C4	-5.18	108.01	110.60
85	5	76	G	N1-C2-N2	-5.18	111.53	116.20
85	5	394	G	O5'-P-OP2	-5.18	101.03	105.70
85	5	608	A	C6-N1-C2	-5.18	115.49	118.60
85	5	926	A	OP1-P-O3'	5.18	116.61	105.20
85	5	934	G	C2-N3-C4	5.18	114.49	111.90
85	5	972	A	N9-C4-C5	5.18	107.87	105.80
85	5	1200	A	C2-N3-C4	-5.18	108.01	110.60
85	5	1480	G	P-O3'-C3'	-5.18	113.48	119.70
85	5	1525	G	N1-C2-N3	5.18	127.01	123.90
85	5	1574	C	C6-N1-C2	-5.18	118.23	120.30
85	5	1843	C	N1-C2-O2	-5.18	115.79	118.90
85	5	2253	G	C4-C5-N7	5.18	112.87	110.80
85	5	2367	A	C5-N7-C8	-5.18	101.31	103.90
85	5	2736	A	N1-C6-N6	5.18	121.71	118.60
85	5	2793	G	P-O3'-C3'	-5.18	113.48	119.70
85	5	3345	G	C5-C6-O6	-5.18	125.49	128.60
1	2	14	C	C2-N3-C4	5.18	122.49	119.90
1	2	713	G	N7-C8-N9	5.18	115.69	113.10
36	1	204	A	O5'-P-OP2	-5.18	101.04	105.70
36	1	538	G	N1-C2-N3	5.18	127.01	123.90
36	1	705	A	C2-N3-C4	5.18	113.19	110.60
36	1	1507	G	C2-N3-C4	-5.18	109.31	111.90
36	1	1708	C	N1-C2-O2	-5.18	115.79	118.90
36	1	2386	A	C8-N9-C4	-5.18	103.73	105.80
36	1	2528	G	C8-N9-C4	5.18	108.47	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3098	G	C2-N3-C4	-5.18	109.31	111.90
37	3	11	A	OP2-P-O3'	5.18	116.60	105.20
37	3	104	A	C5-C6-N6	5.18	127.85	123.70
80	6	141	U	N3-C2-O2	5.18	125.83	122.20
80	6	248	U	OP1-P-OP2	5.18	127.38	119.60
80	6	773	C	C6-N1-C2	5.18	122.37	120.30
80	6	1013	A	C5-C6-N6	-5.18	119.55	123.70
80	6	1023	A	C4-C5-C6	5.18	119.59	117.00
8	s6	3	LEU	CB-CG-CD2	-5.18	102.19	111.00
85	5	212	G	N3-C2-N2	5.18	123.53	119.90
85	5	225	C	C2-N1-C1'	5.18	124.50	118.80
85	5	1056	U	OP2-P-O3'	5.18	116.60	105.20
85	5	1157	G	N7-C8-N9	-5.18	110.51	113.10
85	5	1310	G	C4-N9-C1'	5.18	133.24	126.50
85	5	1503	A	N7-C8-N9	-5.18	111.21	113.80
85	5	1682	U	OP1-P-OP2	-5.18	111.83	119.60
85	5	1833	G	C4-C5-C6	-5.18	115.69	118.80
85	5	1916	U	C4-C5-C6	-5.18	116.59	119.70
85	5	2111	G	C4-C5-C6	5.18	121.91	118.80
85	5	2214	A	O5'-P-OP2	-5.18	101.04	105.70
85	5	2815	G	C5-C6-O6	-5.18	125.49	128.60
85	5	2925	C	OP1-P-O3'	-5.18	93.80	105.20
1	2	387	A	C4-C5-C6	-5.18	114.41	117.00
8	S6	212	LEU	CA-CB-CG	5.18	127.22	115.30
36	1	725	G	N3-C4-C5	5.18	131.19	128.60
36	1	1330	A	C5'-C4'-O4'	-5.18	102.88	109.10
36	1	1522	U	C5-C4-O4	-5.18	122.79	125.90
36	1	1767	C	O5'-P-OP2	-5.18	101.04	105.70
36	1	2852	C	C4-C5-C6	5.18	119.99	117.40
36	1	3297	U	N3-C2-O2	5.18	125.83	122.20
85	5	545	U	O5'-P-OP2	-5.18	101.04	105.70
85	5	1097	G	N9-C4-C5	5.18	107.47	105.40
85	5	2958	A	N3-C4-C5	-5.18	123.17	126.80
85	5	3210	A	N7-C8-N9	5.18	116.39	113.80
85	5	3339	A	C5-C6-N6	-5.18	119.56	123.70
1	2	1454	A	C5-N7-C8	-5.18	101.31	103.90
3	S1	181	LEU	CA-CB-CG	5.18	127.21	115.30
8	S6	154	ARG	NE-CZ-NH1	5.18	122.89	120.30
36	1	433	A	N3-C4-N9	-5.18	123.26	127.40
36	1	579	G	C2-N3-C4	-5.18	109.31	111.90
36	1	640	U	C6-N1-C1'	5.18	128.45	121.20
36	1	646	A	N3-C4-C5	-5.18	123.17	126.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1149	G	C8-N9-C4	-5.18	104.33	106.40
36	1	1486	G	C6-C5-N7	-5.18	127.29	130.40
36	1	1931	U	N1-C2-O2	-5.18	119.17	122.80
36	1	2192	C	OP1-P-O3'	5.18	116.59	105.20
36	1	2621	G	C4-C5-N7	5.18	112.87	110.80
80	6	339	C	C4-C5-C6	5.18	119.99	117.40
80	6	943	C	O5'-P-OP1	5.18	116.92	110.70
80	6	956	C	C2-N3-C4	5.18	122.49	119.90
80	6	1014	G	C8-N9-C4	-5.18	104.33	106.40
80	6	1584	G	C4-C5-N7	5.18	112.87	110.80
85	5	58	G	N1-C2-N2	5.18	120.86	116.20
85	5	306	A	C8-N9-C1'	-5.18	118.38	127.70
85	5	1363	A	N1-C2-N3	5.18	131.89	129.30
85	5	1798	A	C6-N1-C2	-5.18	115.49	118.60
85	5	1887	A	N1-C2-N3	5.18	131.89	129.30
85	5	2111	G	N7-C8-N9	5.18	115.69	113.10
85	5	2565	U	C6-N1-C2	-5.18	117.89	121.00
85	5	2620	G	O4'-C1'-N9	5.18	112.34	108.20
85	5	2873	U	C5-C6-N1	-5.18	120.11	122.70
85	5	3330	A	O5'-P-OP2	-5.18	101.04	105.70
1	2	845	A	N7-C8-N9	-5.18	111.21	113.80
1	2	853	C	C6-N1-C2	-5.18	118.23	120.30
36	1	225	C	N3-C4-C5	-5.18	119.83	121.90
36	1	1765	U	C5-C6-N1	5.18	125.29	122.70
36	1	1858	A	C6-C5-N7	-5.18	128.68	132.30
36	1	3122	A	C8-N9-C4	5.18	107.87	105.80
80	6	709	C	C5-C4-N4	-5.18	116.58	120.20
80	6	935	U	N3-C4-O4	5.18	123.02	119.40
80	6	1765	A	OP1-P-O3'	5.18	116.59	105.20
85	5	1757	A	C4-C5-N7	-5.18	108.11	110.70
85	5	2958	A	O5'-P-OP1	5.18	116.91	110.70
85	5	3232	G	C5-C6-N1	-5.18	108.91	111.50
85	5	3322	A	C2-N3-C4	-5.18	108.01	110.60
1	2	129	U	O5'-P-OP2	-5.18	101.04	105.70
1	2	324	U	C5-C4-O4	5.18	129.01	125.90
1	2	946	A	C6-N1-C2	-5.18	115.49	118.60
36	1	191	U	C5-C6-N1	5.18	125.29	122.70
36	1	303	G	N3-C2-N2	-5.18	116.28	119.90
36	1	567	G	N3-C4-N9	-5.18	122.89	126.00
36	1	1087	G	OP1-P-OP2	5.18	127.36	119.60
36	1	1096	U	N3-C4-O4	5.18	123.02	119.40
36	1	1120	A	C4-C5-N7	-5.18	108.11	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1642	A	C4-C5-N7	-5.18	108.11	110.70
36	1	1653	G	C5-C6-N1	-5.18	108.91	111.50
36	1	2113	A	C5-C6-N6	5.18	127.84	123.70
36	1	2571	U	C5-C4-O4	5.18	129.01	125.90
36	1	2725	U	N1-C2-N3	5.18	118.00	114.90
36	1	3026	G	N9-C4-C5	5.18	107.47	105.40
36	1	3157	U	N1-C2-O2	5.18	126.42	122.80
38	4	106	C	N3-C4-N4	5.18	121.62	118.00
80	6	14	C	N1-C2-N3	5.18	122.82	119.20
80	6	109	G	C4-C5-N7	5.18	112.87	110.80
80	6	426	G	O5'-P-OP2	-5.18	101.04	105.70
80	6	501	U	N3-C2-O2	-5.18	118.58	122.20
80	6	737	A	N1-C2-N3	-5.18	126.71	129.30
80	6	950	C	C2-N3-C4	-5.18	117.31	119.90
80	6	1413	U	C5-C4-O4	-5.18	122.79	125.90
85	5	48	A	P-O3'-C3'	5.18	125.91	119.70
85	5	284	A	OP1-P-OP2	-5.18	111.83	119.60
85	5	400	G	N3-C4-C5	-5.18	126.01	128.60
85	5	430	U	OP2-P-O3'	5.18	116.59	105.20
85	5	581	U	OP1-P-OP2	5.18	127.37	119.60
85	5	869	G	OP2-P-O3'	5.18	116.59	105.20
85	5	1573	G	C6-C5-N7	5.18	133.51	130.40
85	5	3312	U	O4'-C1'-N1	5.18	112.34	108.20
85	5	3344	A	N1-C6-N6	-5.18	115.49	118.60
38	8	41	A	N1-C6-N6	-5.18	115.49	118.60
1	2	43	A	N9-C4-C5	5.17	107.87	105.80
1	2	400	A	C6-N1-C2	-5.17	115.50	118.60
1	2	565	C	N1-C2-N3	5.17	122.82	119.20
1	2	1663	G	N1-C6-O6	5.17	123.00	119.90
36	1	768	C	P-O3'-C3'	-5.17	113.49	119.70
36	1	787	G	C6-C5-N7	-5.17	127.30	130.40
36	1	946	U	C5-C4-O4	-5.17	122.80	125.90
36	1	954	U	P-O3'-C3'	-5.17	113.49	119.70
36	1	1184	A	OP2-P-O3'	5.17	116.59	105.20
36	1	1462	A	N9-C4-C5	5.17	107.87	105.80
36	1	1487	G	O5'-P-OP2	5.17	116.91	110.70
36	1	2206	G	C8-N9-C4	5.17	108.47	106.40
36	1	2386	A	C5-N7-C8	-5.17	101.31	103.90
36	1	2610	G	OP2-P-O3'	5.17	116.58	105.20
36	1	2619	G	O5'-P-OP2	5.17	116.91	110.70
36	1	2688	U	O4'-C1'-N1	-5.17	104.06	108.20
36	1	2735	U	C5-C6-N1	-5.17	120.11	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2750	U	N3-C4-C5	-5.17	111.50	114.60
36	1	2779	A	C8-N9-C4	5.17	107.87	105.80
36	1	3175	U	C2-N1-C1'	5.17	123.91	117.70
36	1	3306	U	O5'-P-OP2	-5.17	101.04	105.70
37	3	57	G	C5-C6-N1	5.17	114.09	111.50
39	L2	32	LEU	CA-CB-CG	5.17	127.20	115.30
80	6	548	G	C8-N9-C1'	5.17	133.73	127.00
80	6	557	G	C4-C5-N7	-5.17	108.73	110.80
80	6	1113	A	OP2-P-O3'	5.17	116.59	105.20
80	6	1659	A	N3-C4-N9	-5.17	123.26	127.40
80	6	1721	A	N7-C8-N9	5.17	116.39	113.80
85	5	1020	G	C4-C5-N7	5.17	112.87	110.80
85	5	1620	U	C6-N1-C2	-5.17	117.90	121.00
85	5	1847	A	O5'-P-OP1	5.17	116.91	110.70
85	5	1872	C	C2-N1-C1'	5.17	124.49	118.80
85	5	2358	A	N3-C4-C5	-5.17	123.18	126.80
85	5	2681	U	N3-C2-O2	-5.17	118.58	122.20
85	5	2812	C	OP1-P-OP2	5.17	127.36	119.60
1	2	43	A	C8-N9-C4	-5.17	103.73	105.80
36	1	347	G	N3-C2-N2	5.17	123.52	119.90
36	1	609	G	C4-C5-C6	-5.17	115.70	118.80
36	1	911	C	C2-N3-C4	-5.17	117.31	119.90
36	1	2366	C	N1-C2-O2	5.17	122.00	118.90
36	1	2689	A	C2-N3-C4	-5.17	108.01	110.60
36	1	2726	C	C5-C6-N1	-5.17	118.41	121.00
80	6	77	U	N3-C2-O2	5.17	125.82	122.20
80	6	403	G	N9-C4-C5	-5.17	103.33	105.40
80	6	543	C	P-O3'-C3'	5.17	125.91	119.70
80	6	985	G	C5-C6-N1	-5.17	108.91	111.50
80	6	1140	G	N3-C4-C5	-5.17	126.01	128.60
80	6	1521	G	C6-C5-N7	-5.17	127.30	130.40
85	5	2296	A	N7-C8-N9	-5.17	111.21	113.80
1	2	331	A	OP1-P-OP2	-5.17	111.84	119.60
1	2	870	A	C4-C5-N7	5.17	113.28	110.70
1	2	1506	G	N1-C2-N2	-5.17	111.55	116.20
36	1	23	A	C2-N3-C4	-5.17	108.02	110.60
36	1	35	A	C4-C5-C6	-5.17	114.42	117.00
36	1	785	G	N1-C6-O6	-5.17	116.80	119.90
36	1	1087	G	C5-C6-O6	-5.17	125.50	128.60
36	1	1482	A	C6-C5-N7	5.17	135.92	132.30
36	1	2162	U	C6-N1-C2	5.17	124.10	121.00
36	1	2854	U	O5'-P-OP2	-5.17	101.05	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3212	C	N1-C2-N3	-5.17	115.58	119.20
36	1	3355	U	C2-N3-C4	5.17	130.10	127.00
37	3	69	C	C5-C4-N4	-5.17	116.58	120.20
80	6	298	C	N1-C2-N3	-5.17	115.58	119.20
80	6	979	A	C4-C5-C6	5.17	119.59	117.00
85	5	91	G	N3-C2-N2	-5.17	116.28	119.90
85	5	333	G	C8-N9-C4	5.17	108.47	106.40
85	5	853	G	C4-C5-C6	5.17	121.90	118.80
85	5	1136	A	N3-C4-C5	5.17	130.42	126.80
85	5	1551	C	C2-N1-C1'	5.17	124.49	118.80
85	5	1897	G	N1-C2-N3	5.17	127.00	123.90
85	5	2143	A	N7-C8-N9	5.17	116.39	113.80
85	5	2209	U	C4-C5-C6	5.17	122.80	119.70
85	5	2672	G	O5'-P-OP2	-5.17	101.05	105.70
85	5	2763	U	OP1-P-O3'	5.17	116.58	105.20
85	5	2781	U	N1-C2-O2	-5.17	119.18	122.80
85	5	3014	U	OP1-P-OP2	-5.17	111.84	119.60
37	7	117	A	N3-C4-N9	-5.17	123.26	127.40
37	7	118	A	C4-C5-C6	5.17	119.58	117.00
38	8	19	C	OP1-P-OP2	-5.17	111.84	119.60
38	8	126	A	OP1-P-OP2	-5.17	111.84	119.60
40	13	325	LYS	C-N-CA	-5.17	111.44	122.30
1	2	474	A	C6-N1-C2	5.17	121.70	118.60
1	2	580	A	O5'-P-OP2	-5.17	101.05	105.70
36	1	654	C	N3-C2-O2	5.17	125.52	121.90
36	1	924	G	C4-C5-C6	5.17	121.90	118.80
36	1	2670	G	N3-C4-C5	5.17	131.19	128.60
36	1	2732	G	N1-C2-N2	-5.17	111.55	116.20
36	1	3101	G	N7-C8-N9	-5.17	110.52	113.10
36	1	3159	C	C5-C6-N1	-5.17	118.42	121.00
36	1	3174	A	N3-C4-N9	-5.17	123.26	127.40
36	1	3178	A	O5'-P-OP1	-5.17	101.05	105.70
80	6	281	G	C4-C5-N7	5.17	112.87	110.80
80	6	1199	G	N1-C2-N2	5.17	120.85	116.20
85	5	56	G	C5-N7-C8	-5.17	101.72	104.30
85	5	124	U	N1-C2-N3	5.17	118.00	114.90
85	5	229	G	N9-C4-C5	5.17	107.47	105.40
85	5	2617	U	C2-N3-C4	5.17	130.10	127.00
38	8	129	C	N3-C4-C5	-5.17	119.83	121.90
74	o8	69	LEU	CB-CG-CD2	-5.17	102.21	111.00
1	2	210	A	C5-C6-N6	5.17	127.83	123.70
1	2	287	G	C4-C5-N7	-5.17	108.73	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	594	A	N3-C4-N9	5.17	131.53	127.40
1	2	820	G	C2-N3-C4	-5.17	109.32	111.90
1	2	1313	G	C5-C6-N1	-5.17	108.92	111.50
1	2	1632	G	N3-C2-N2	5.17	123.52	119.90
36	1	199	A	OP2-P-O3'	5.17	116.57	105.20
36	1	603	A	N9-C4-C5	-5.17	103.73	105.80
36	1	638	C	N3-C2-O2	-5.17	118.28	121.90
36	1	846	A	C6-N1-C2	5.17	121.70	118.60
36	1	1458	U	N1-C2-N3	5.17	118.00	114.90
36	1	1896	A	C8-N9-C4	-5.17	103.73	105.80
36	1	2278	C	O5'-P-OP2	-5.17	101.05	105.70
36	1	2293	C	N1-C2-N3	-5.17	115.58	119.20
36	1	2348	A	C5-C6-N1	-5.17	115.12	117.70
36	1	2640	A	C5-C6-N6	-5.17	119.56	123.70
36	1	2803	A	OP2-P-O3'	5.17	116.57	105.20
36	1	3391	A	C5-C6-N6	-5.17	119.56	123.70
38	4	100	U	OP1-P-OP2	-5.17	111.85	119.60
80	6	521	A	C6-N1-C2	5.17	121.70	118.60
85	5	266	A	OP1-P-OP2	5.17	127.35	119.60
85	5	1320	C	OP2-P-O3'	5.17	116.57	105.20
85	5	1444	G	C6-N1-C2	5.17	128.20	125.10
85	5	1706	C	O5'-P-OP2	-5.17	101.05	105.70
85	5	1791	C	C5-C6-N1	5.17	123.58	121.00
85	5	1889	G	N1-C2-N3	-5.17	120.80	123.90
85	5	2223	A	OP1-P-O3'	5.17	116.57	105.20
85	5	2260	U	C5-C6-N1	-5.17	120.12	122.70
85	5	2337	C	O5'-P-OP1	5.17	116.90	110.70
85	5	2519	A	C5-N7-C8	-5.17	101.32	103.90
85	5	2647	A	C2-N3-C4	-5.17	108.02	110.60
85	5	2738	A	OP2-P-O3'	5.17	116.57	105.20
85	5	3074	G	N3-C4-N9	5.17	129.10	126.00
85	5	3376	A	C5-N7-C8	5.17	106.48	103.90
38	8	71	A	O5'-P-OP1	5.17	116.90	110.70
1	2	133	U	C4-C5-C6	5.17	122.80	119.70
1	2	163	G	C2-N3-C4	-5.17	109.32	111.90
1	2	281	G	C2-N3-C4	5.17	114.48	111.90
1	2	872	U	C5-C4-O4	-5.17	122.80	125.90
1	2	1030	G	C4-C5-N7	5.17	112.87	110.80
1	2	1433	U	N3-C4-C5	5.17	117.70	114.60
36	1	204	A	N3-C4-N9	-5.17	123.27	127.40
36	1	204	A	C4-C5-N7	5.17	113.28	110.70
36	1	558	U	N3-C4-C5	5.17	117.70	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	630	A	OP2-P-O3'	5.17	116.57	105.20
36	1	1325	U	C2-N1-C1'	-5.17	111.50	117.70
36	1	1747	G	OP1-P-OP2	-5.17	111.85	119.60
36	1	2112	U	OP2-P-O3'	5.17	116.57	105.20
36	1	3076	C	C5-C4-N4	-5.17	116.58	120.20
36	1	3184	A	N7-C8-N9	5.17	116.38	113.80
38	4	149	A	C8-N9-C4	5.17	107.87	105.80
80	6	637	C	OP1-P-OP2	5.17	127.35	119.60
80	6	754	A	N9-C4-C5	-5.17	103.73	105.80
80	6	1341	A	N9-C4-C5	5.17	107.87	105.80
80	6	1525	A	C2-N3-C4	-5.17	108.02	110.60
80	6	1629	G	N3-C4-C5	-5.17	126.02	128.60
80	6	1662	G	C2-N3-C4	-5.17	109.32	111.90
80	6	1673	G	C8-N9-C4	-5.17	104.33	106.40
85	5	80	G	C8-N9-C4	-5.17	104.33	106.40
85	5	247	C	O5'-P-OP1	5.17	116.90	110.70
85	5	257	U	C2-N1-C1'	5.17	123.90	117.70
85	5	1112	A	O5'-P-OP2	5.17	116.90	110.70
85	5	2411	U	OP1-P-OP2	5.17	127.35	119.60
85	5	2689	A	C8-N9-C4	-5.17	103.73	105.80
85	5	3022	G	OP2-P-O3'	5.17	116.57	105.20
37	7	16	U	C2-N1-C1'	-5.17	111.50	117.70
57	n1	97	LYS	CD-CE-NZ	5.17	123.58	111.70
1	2	1418	G	C8-N9-C4	-5.17	104.33	106.40
1	2	1621	G	C4-C5-N7	5.17	112.87	110.80
36	1	17	G	N3-C4-C5	5.17	131.18	128.60
36	1	56	G	OP2-P-O3'	5.17	116.56	105.20
36	1	1522	U	N1-C2-O2	-5.17	119.19	122.80
36	1	2414	G	C5-C6-N1	-5.17	108.92	111.50
36	1	2507	C	N3-C2-O2	-5.17	118.28	121.90
36	1	2575	G	N1-C2-N3	-5.17	120.80	123.90
80	6	287	G	C5-C6-O6	-5.17	125.50	128.60
80	6	950	C	OP1-P-OP2	5.17	127.35	119.60
85	5	192	C	C4-C5-C6	5.17	119.98	117.40
85	5	334	A	C5-C6-N1	5.17	120.28	117.70
85	5	589	A	C5-N7-C8	-5.17	101.32	103.90
85	5	1746	U	N3-C4-C5	-5.17	111.50	114.60
85	5	2365	C	C2-N3-C4	-5.17	117.32	119.90
85	5	2703	A	N1-C6-N6	5.17	121.70	118.60
1	2	52	U	C6-N1-C2	5.16	124.10	121.00
1	2	1009	A	N1-C6-N6	-5.16	115.50	118.60
1	2	1274	G	N3-C2-N2	-5.16	116.28	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1115	G	N3-C4-C5	5.16	131.18	128.60
36	1	1452	A	O4'-C1'-N9	-5.16	104.07	108.20
36	1	2142	A	C5-N7-C8	5.16	106.48	103.90
36	1	2223	A	C5-N7-C8	-5.16	101.32	103.90
36	1	2242	A	N3-C4-C5	-5.16	123.19	126.80
36	1	2367	A	OP1-P-O3'	5.16	116.56	105.20
36	1	2861	U	C4-C5-C6	5.16	122.80	119.70
36	1	2913	C	N1-C2-O2	5.16	122.00	118.90
36	1	2918	G	C6-C5-N7	-5.16	127.30	130.40
36	1	3130	A	C5-N7-C8	-5.16	101.32	103.90
36	1	3332	U	N3-C2-O2	5.16	125.81	122.20
38	4	46	G	N7-C8-N9	-5.16	110.52	113.10
38	4	71	A	N1-C2-N3	5.16	131.88	129.30
80	6	50	C	N1-C2-N3	5.16	122.81	119.20
80	6	91	G	C2-N3-C4	-5.16	109.32	111.90
80	6	312	A	OP1-P-OP2	5.16	127.35	119.60
80	6	412	A	N3-C4-C5	-5.16	123.19	126.80
80	6	1310	U	N1-C2-O2	5.16	126.41	122.80
85	5	359	U	C2-N1-C1'	5.16	123.90	117.70
85	5	512	U	C5-C6-N1	-5.16	120.12	122.70
85	5	560	G	C6-C5-N7	-5.16	127.30	130.40
85	5	598	A	N1-C2-N3	-5.16	126.72	129.30
85	5	847	A	C4-C5-C6	5.16	119.58	117.00
85	5	908	G	C6-N1-C2	-5.16	122.00	125.10
85	5	1127	G	OP1-P-OP2	5.16	127.34	119.60
85	5	1294	A	C6-C5-N7	-5.16	128.69	132.30
85	5	1382	G	N9-C4-C5	-5.16	103.33	105.40
85	5	1466	G	C2-N3-C4	-5.16	109.32	111.90
85	5	1565	G	C4-C5-N7	5.16	112.86	110.80
85	5	1583	A	C4-C5-C6	5.16	119.58	117.00
85	5	1831	U	C2-N3-C4	5.16	130.10	127.00
85	5	1833	G	OP1-P-OP2	5.16	127.35	119.60
85	5	2130	G	N1-C2-N3	5.16	127.00	123.90
85	5	2135	U	O3'-P-O5'	-5.16	94.19	104.00
85	5	2328	U	OP1-P-OP2	-5.16	111.85	119.60
85	5	3143	C	N1-C2-N3	5.16	122.81	119.20
37	7	7	G	C5-C6-O6	5.16	131.70	128.60
1	2	676	U	C6-N1-C2	-5.16	117.90	121.00
36	1	997	A	N7-C8-N9	5.16	116.38	113.80
36	1	1046	A	C6-N1-C2	-5.16	115.50	118.60
36	1	1948	G	C5-C6-O6	-5.16	125.50	128.60
36	1	2215	A	O5'-P-OP1	5.16	116.89	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2247	G	N3-C4-C5	5.16	131.18	128.60
36	1	3082	C	N3-C2-O2	5.16	125.51	121.90
38	4	43	A	O5'-P-OP2	-5.16	101.05	105.70
85	5	712	G	OP1-P-OP2	-5.16	111.86	119.60
85	5	1137	C	C6-N1-C1'	-5.16	114.61	120.80
85	5	1619	A	C5-N7-C8	-5.16	101.32	103.90
85	5	2523	A	C4-C5-N7	-5.16	108.12	110.70
85	5	3208	G	C5-C6-O6	5.16	131.70	128.60
85	5	3327	G	O5'-P-OP2	5.16	116.89	110.70
85	5	3390	G	C5-N7-C8	-5.16	101.72	104.30
1	2	401	A	C6-N1-C2	-5.16	115.50	118.60
1	2	1441	G	OP1-P-O3'	5.16	116.55	105.20
36	1	349	A	N1-C2-N3	-5.16	126.72	129.30
36	1	1165	A	C6-C5-N7	-5.16	128.69	132.30
36	1	1363	A	C6-N1-C2	-5.16	115.50	118.60
36	1	1459	C	N3-C4-N4	5.16	121.61	118.00
36	1	1659	U	N1-C2-N3	5.16	118.00	114.90
36	1	1812	G	N3-C4-C5	-5.16	126.02	128.60
36	1	2107	A	C4-C5-C6	5.16	119.58	117.00
36	1	2409	G	OP2-P-O3'	5.16	116.55	105.20
36	1	2411	U	C4-C5-C6	5.16	122.80	119.70
36	1	2427	U	C6-N1-C1'	-5.16	113.97	121.20
36	1	2445	A	C6-C5-N7	5.16	135.91	132.30
36	1	3108	G	N7-C8-N9	-5.16	110.52	113.10
36	1	3268	A	N1-C2-N3	5.16	131.88	129.30
38	4	50	C	C2-N1-C1'	5.16	124.48	118.80
38	4	87	G	C5-C6-N1	5.16	114.08	111.50
80	6	136	C	OP2-P-O3'	5.16	116.55	105.20
80	6	1123	C	C5-C4-N4	-5.16	116.59	120.20
80	6	1601	G	N1-C2-N3	-5.16	120.80	123.90
80	6	1782	A	O5'-P-OP1	-5.16	101.06	105.70
85	5	263	C	N1-C2-O2	5.16	122.00	118.90
85	5	898	U	C5-C4-O4	5.16	129.00	125.90
85	5	1363	A	C4-C5-N7	-5.16	108.12	110.70
85	5	1852	G	C6-C5-N7	-5.16	127.30	130.40
85	5	2614	G	C8-N9-C4	-5.16	104.34	106.40
85	5	2835	U	OP2-P-O3'	5.16	116.55	105.20
85	5	2994	A	C4-C5-C6	5.16	119.58	117.00
85	5	3220	G	C4-C5-N7	-5.16	108.74	110.80
42	15	92	LEU	CB-CG-CD2	-5.16	102.23	111.00
1	2	44	U	N1-C2-O2	5.16	126.41	122.80
1	2	357	G	C5-N7-C8	-5.16	101.72	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	417	A	C5-C6-N6	-5.16	119.57	123.70
36	1	754	G	N3-C4-C5	5.16	131.18	128.60
36	1	1178	G	C4-C5-C6	5.16	121.89	118.80
36	1	1384	U	OP2-P-O3'	5.16	116.55	105.20
36	1	2933	A	O5'-P-OP2	-5.16	101.06	105.70
36	1	3047	U	C4-C5-C6	5.16	122.80	119.70
36	1	3269	U	O5'-P-OP1	5.16	116.89	110.70
37	3	54	U	C5-C6-N1	-5.16	120.12	122.70
38	4	53	A	O5'-P-OP1	5.16	116.89	110.70
38	4	69	U	C4-C5-C6	5.16	122.80	119.70
38	4	99	C	OP1-P-OP2	5.16	127.34	119.60
80	6	399	A	N7-C8-N9	-5.16	111.22	113.80
80	6	623	A	N3-C4-C5	5.16	130.41	126.80
80	6	702	G	N3-C4-N9	5.16	129.10	126.00
85	5	61	A	N3-C4-N9	-5.16	123.27	127.40
85	5	144	A	N7-C8-N9	-5.16	111.22	113.80
85	5	242	C	N3-C4-N4	5.16	121.61	118.00
85	5	646	A	C4-C5-C6	5.16	119.58	117.00
85	5	954	U	C2-N1-C1'	5.16	123.89	117.70
85	5	1437	C	O4'-C1'-N1	-5.16	104.07	108.20
85	5	1639	C	N3-C4-N4	5.16	121.61	118.00
85	5	2347	U	OP1-P-OP2	5.16	127.34	119.60
85	5	2847	A	N1-C2-N3	5.16	131.88	129.30
85	5	2869	U	C6-N1-C2	5.16	124.09	121.00
38	8	48	A	C2-N3-C4	5.16	113.18	110.60
38	8	60	U	OP1-P-OP2	5.16	127.34	119.60
38	8	144	G	C5-C6-O6	-5.16	125.50	128.60
1	2	337	G	C5-C6-O6	-5.16	125.51	128.60
1	2	821	G	N9-C4-C5	-5.16	103.34	105.40
1	2	1526	A	N7-C8-N9	-5.16	111.22	113.80
1	2	1558	G	OP1-P-O3'	5.16	116.55	105.20
1	2	1714	A	OP1-P-O3'	5.16	116.54	105.20
36	1	408	A	C2-N3-C4	5.16	113.18	110.60
36	1	576	C	N1-C2-N3	5.16	122.81	119.20
36	1	940	G	N3-C4-C5	-5.16	126.02	128.60
36	1	1303	A	O5'-P-OP1	-5.16	101.06	105.70
36	1	1319	G	C4-C5-N7	5.16	112.86	110.80
36	1	1340	G	N7-C8-N9	-5.16	110.52	113.10
36	1	1553	U	C2-N3-C4	-5.16	123.91	127.00
36	1	1575	A	N9-C4-C5	5.16	107.86	105.80
80	6	127	G	N3-C2-N2	-5.16	116.29	119.90
85	5	864	G	C5-C6-O6	-5.16	125.51	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1795	U	C5-C6-N1	5.16	125.28	122.70
85	5	2860	U	C6-N1-C2	5.16	124.09	121.00
85	5	3193	C	OP1-P-OP2	-5.16	111.86	119.60
1	2	315	A	C8-N9-C4	5.16	107.86	105.80
1	2	831	C	C6-N1-C2	-5.16	118.24	120.30
1	2	878	G	N7-C8-N9	5.16	115.68	113.10
1	2	1719	G	C5-C6-N1	-5.16	108.92	111.50
36	1	115	A	C2-N3-C4	5.16	113.18	110.60
36	1	580	C	C2-N1-C1'	5.16	124.47	118.80
36	1	1431	G	C8-N9-C4	-5.16	104.34	106.40
36	1	1954	G	N7-C8-N9	-5.16	110.52	113.10
36	1	2320	A	N3-C4-C5	5.16	130.41	126.80
36	1	2651	G	C6-N1-C2	-5.16	122.01	125.10
36	1	2824	G	C8-N9-C4	5.16	108.46	106.40
36	1	3090	U	O5'-P-OP1	5.16	116.89	110.70
36	1	3178	A	C4-C5-N7	5.16	113.28	110.70
36	1	3322	A	C5-C6-N6	-5.16	119.58	123.70
36	1	3380	U	C6-N1-C2	-5.16	117.91	121.00
37	3	7	G	C5-N7-C8	-5.16	101.72	104.30
37	3	55	A	C4-C5-C6	5.16	119.58	117.00
76	Q0	106	ARG	NE-CZ-NH2	-5.16	117.72	120.30
80	6	29	U	C6-N1-C2	-5.16	117.91	121.00
80	6	766	U	C5-C6-N1	5.16	125.28	122.70
80	6	1304	G	C6-C5-N7	5.16	133.49	130.40
80	6	1673	G	O5'-P-OP2	-5.16	101.06	105.70
85	5	229	G	C4-C5-C6	5.16	121.89	118.80
85	5	1059	G	N3-C4-C5	-5.16	126.02	128.60
85	5	1451	C	OP2-P-O3'	-5.16	93.86	105.20
85	5	1772	U	C6-N1-C1'	5.16	128.42	121.20
85	5	2154	U	N3-C4-O4	-5.16	115.79	119.40
85	5	2215	A	O4'-C1'-N9	-5.16	104.08	108.20
85	5	2655	U	OP1-P-OP2	-5.16	111.87	119.60
85	5	3035	A	C5-C6-N6	-5.16	119.58	123.70
85	5	3130	A	C2-N3-C4	5.16	113.18	110.60
85	5	3243	A	O4'-C1'-N9	-5.16	104.08	108.20
38	8	135	G	C5-N7-C8	5.16	106.88	104.30
1	2	63	G	N1-C2-N2	-5.15	111.56	116.20
1	2	517	U	OP1-P-OP2	5.15	127.33	119.60
36	1	26	A	N7-C8-N9	-5.15	111.22	113.80
36	1	364	G	O3'-P-O5'	-5.15	94.21	104.00
36	1	1110	U	OP1-P-OP2	5.15	127.33	119.60
36	1	1615	C	C2-N3-C4	-5.15	117.32	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1679	A	C4-C5-N7	5.15	113.28	110.70
36	1	2244	A	O4'-C1'-N9	-5.15	104.08	108.20
36	1	2756	C	OP1-P-O3'	5.15	116.54	105.20
80	6	814	A	C2-N3-C4	-5.15	108.02	110.60
80	6	1573	A	N1-C6-N6	-5.15	115.51	118.60
2	s0	162	CYS	CA-CB-SG	-5.15	104.72	114.00
85	5	1127	G	N3-C2-N2	5.15	123.51	119.90
85	5	1750	A	C5-C6-N6	-5.15	119.58	123.70
85	5	2886	U	N1-C2-N3	5.15	117.99	114.90
85	5	2972	G	N1-C6-O6	5.15	122.99	119.90
85	5	3222	U	C2-N3-C4	5.15	130.09	127.00
1	2	100	A	OP1-P-OP2	-5.15	111.87	119.60
1	2	1049	C	N1-C2-N3	5.15	122.81	119.20
1	2	1083	G	OP1-P-O3'	5.15	116.53	105.20
1	2	1747	C	C5-C6-N1	-5.15	118.42	121.00
36	1	110	G	N3-C4-N9	-5.15	122.91	126.00
36	1	598	A	C5-C6-N1	5.15	120.28	117.70
36	1	1002	A	O5'-P-OP2	-5.15	101.06	105.70
36	1	1014	U	N1-C2-O2	-5.15	119.19	122.80
36	1	1268	G	N1-C2-N3	-5.15	120.81	123.90
36	1	1919	G	N3-C2-N2	-5.15	116.29	119.90
36	1	2173	U	OP1-P-OP2	-5.15	111.87	119.60
36	1	2829	U	C5-C6-N1	-5.15	120.12	122.70
36	1	2859	U	OP1-P-OP2	5.15	127.33	119.60
36	1	2866	U	N3-C2-O2	-5.15	118.59	122.20
36	1	2905	U	C5-C6-N1	-5.15	120.12	122.70
38	4	54	A	C5-C6-N1	-5.15	115.12	117.70
40	L3	148	LEU	CB-CG-CD1	5.15	119.76	111.00
80	6	677	G	N7-C8-N9	-5.15	110.52	113.10
80	6	1245	G	N1-C2-N2	5.15	120.84	116.20
80	6	1322	A	OP2-P-O3'	5.15	116.53	105.20
85	5	371	G	OP1-P-O3'	5.15	116.53	105.20
85	5	846	A	C5-C6-N1	-5.15	115.12	117.70
85	5	1390	A	C6-C5-N7	5.15	135.91	132.30
85	5	1568	U	N3-C2-O2	5.15	125.81	122.20
85	5	1572	U	C5-C4-O4	5.15	128.99	125.90
85	5	1768	U	C2-N3-C4	-5.15	123.91	127.00
85	5	2115	G	C2-N3-C4	5.15	114.48	111.90
85	5	2685	C	C5-C4-N4	-5.15	116.59	120.20
85	5	3088	G	N9-C4-C5	5.15	107.46	105.40
37	7	21	G	C5-N7-C8	-5.15	101.72	104.30
37	7	30	G	N1-C2-N2	-5.15	111.56	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	47	A	OP1-P-O3'	5.15	116.53	105.20
1	2	256	A	C5-C6-N1	5.15	120.28	117.70
1	2	1227	A	P-O3'-C3'	5.15	125.88	119.70
36	1	921	A	C5-C6-N6	5.15	127.82	123.70
36	1	1127	G	N7-C8-N9	5.15	115.67	113.10
36	1	1161	G	C4-C5-N7	5.15	112.86	110.80
36	1	1297	C	C5-C4-N4	-5.15	116.59	120.20
36	1	1353	U	C4-C5-C6	5.15	122.79	119.70
36	1	1664	G	C6-C5-N7	-5.15	127.31	130.40
36	1	1802	C	N1-C2-O2	-5.15	115.81	118.90
36	1	2445	A	C6-N1-C2	-5.15	115.51	118.60
36	1	3107	U	OP1-P-O3'	5.15	116.53	105.20
36	1	3124	G	OP1-P-O3'	5.15	116.53	105.20
38	4	18	U	C5-C6-N1	5.15	125.28	122.70
80	6	355	G	O5'-P-OP2	-5.15	101.06	105.70
80	6	409	C	O5'-P-OP2	-5.15	101.06	105.70
80	6	413	U	O5'-P-OP2	-5.15	101.06	105.70
80	6	532	U	O4'-C1'-N1	5.15	112.32	108.20
80	6	540	G	OP1-P-OP2	5.15	127.32	119.60
80	6	607	G	C6-N1-C2	-5.15	122.01	125.10
80	6	1264	G	C6-N1-C2	5.15	128.19	125.10
80	6	1302	U	N3-C4-C5	-5.15	111.51	114.60
80	6	1750	A	C5-C6-N6	-5.15	119.58	123.70
85	5	1194	G	OP2-P-O3'	5.15	116.53	105.20
85	5	1366	A	N7-C8-N9	5.15	116.38	113.80
85	5	1418	A	N3-C4-C5	-5.15	123.19	126.80
85	5	1934	G	C5-C6-O6	-5.15	125.51	128.60
85	5	2274	U	C4-C5-C6	5.15	122.79	119.70
41	14	295	ILE	CG1-CB-CG2	-5.15	100.07	111.40
1	2	142	G	N3-C2-N2	-5.15	116.30	119.90
1	2	1067	A	OP1-P-OP2	5.15	127.32	119.60
1	2	1705	A	N1-C2-N3	5.15	131.87	129.30
36	1	1166	G	C6-N1-C2	5.15	128.19	125.10
36	1	1875	G	OP2-P-O3'	5.15	116.53	105.20
36	1	2643	A	C5-C6-N1	5.15	120.27	117.70
36	1	3040	A	C5-C6-N6	5.15	127.82	123.70
36	1	3274	A	C6-N1-C2	-5.15	115.51	118.60
37	3	94	C	C5-C4-N4	-5.15	116.59	120.20
80	6	1170	G	C8-N9-C4	5.15	108.46	106.40
85	5	952	A	C5-C6-N6	5.15	127.82	123.70
85	5	3016	A	C4-C5-N7	5.15	113.27	110.70
85	5	3033	A	C5-C6-N6	-5.15	119.58	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3238	G	N3-C4-N9	-5.15	122.91	126.00
47	m0	82	ARG	NE-CZ-NH2	-5.15	117.73	120.30
1	2	1110	G	N3-C4-C5	-5.15	126.03	128.60
1	2	1116	A	N7-C8-N9	-5.15	111.23	113.80
1	2	1140	A	C8-N9-C4	-5.15	103.74	105.80
1	2	1639	U	C5-C6-N1	5.15	125.27	122.70
1	2	1712	C	N3-C4-C5	-5.15	119.84	121.90
36	1	121	A	C8-N9-C4	5.15	107.86	105.80
36	1	246	U	C5-C4-O4	-5.15	122.81	125.90
36	1	609	G	O4'-C1'-N9	-5.15	104.08	108.20
36	1	624	G	C4-C5-C6	5.15	121.89	118.80
36	1	721	G	N1-C2-N3	5.15	126.99	123.90
36	1	1301	A	N7-C8-N9	5.15	116.37	113.80
36	1	1537	A	N7-C8-N9	5.15	116.37	113.80
36	1	2158	A	C2-N3-C4	-5.15	108.03	110.60
36	1	3219	G	C2-N3-C4	-5.15	109.33	111.90
37	3	93	C	C2-N3-C4	-5.15	117.33	119.90
59	N3	122	CYS	CA-CB-SG	-5.15	104.74	114.00
80	6	171	A	C5-N7-C8	5.15	106.47	103.90
80	6	865	A	N1-C2-N3	5.15	131.87	129.30
85	5	373	A	OP1-P-OP2	5.15	127.32	119.60
85	5	740	G	N1-C6-O6	5.15	122.99	119.90
85	5	944	C	C2-N3-C4	5.15	122.47	119.90
85	5	1148	G	O5'-P-OP1	5.15	116.88	110.70
85	5	1178	G	N9-C4-C5	5.15	107.46	105.40
85	5	1208	U	OP1-P-OP2	5.15	127.32	119.60
85	5	1304	A	C6-N1-C2	-5.15	115.51	118.60
85	5	1403	C	N3-C4-C5	5.15	123.96	121.90
85	5	1539	A	C8-N9-C4	5.15	107.86	105.80
85	5	1690	C	O4'-C1'-N1	5.15	112.32	108.20
85	5	2116	G	C8-N9-C4	-5.15	104.34	106.40
85	5	2285	C	C2-N3-C4	5.15	122.47	119.90
85	5	2634	U	OP1-P-OP2	-5.15	111.88	119.60
85	5	2745	G	N1-C2-N3	5.15	126.99	123.90
36	1	1307	G	N3-C4-C5	-5.15	126.03	128.60
36	1	1323	G	C5-C6-O6	5.15	131.69	128.60
36	1	2642	A	OP2-P-O3'	5.15	116.52	105.20
38	4	100	U	N3-C2-O2	5.15	125.80	122.20
80	6	32	U	N1-C2-O2	-5.15	119.20	122.80
80	6	991	G	C5-C6-N1	5.15	114.07	111.50
80	6	1100	G	N1-C6-O6	5.15	122.99	119.90
85	5	101	G	N7-C8-N9	5.15	115.67	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2728	G	OP1-P-OP2	5.15	127.32	119.60
85	5	3146	G	N9-C4-C5	-5.15	103.34	105.40
85	5	3300	U	N3-C4-O4	5.15	123.00	119.40
85	5	3394	U	N1-C2-N3	5.15	117.99	114.90
37	7	118	A	C6-N1-C2	-5.15	115.51	118.60
1	2	328	A	C6-C5-N7	-5.14	128.70	132.30
1	2	512	A	P-O3'-C3'	5.14	125.87	119.70
1	2	748	G	O4'-C1'-N9	-5.14	104.08	108.20
1	2	914	C	C5-C6-N1	5.14	123.57	121.00
1	2	1053	C	N1-C2-O2	-5.14	115.81	118.90
1	2	1093	G	N7-C8-N9	-5.14	110.53	113.10
1	2	1327	A	C5-C6-N6	-5.14	119.58	123.70
36	1	1313	G	C6-C5-N7	-5.14	127.31	130.40
36	1	1347	U	OP2-P-O3'	5.14	116.52	105.20
36	1	2969	A	C4-C5-N7	5.14	113.27	110.70
36	1	2981	U	OP1-P-OP2	-5.14	111.88	119.60
36	1	2992	U	C6-N1-C2	-5.14	117.91	121.00
36	1	3144	G	N7-C8-N9	5.14	115.67	113.10
36	1	3209	A	P-O3'-C3'	5.14	125.87	119.70
36	1	3296	A	C5-C6-N6	-5.14	119.58	123.70
37	3	71	G	OP2-P-O3'	5.14	116.52	105.20
38	4	147	U	C2-N1-C1'	5.14	123.87	117.70
40	L3	47	LEU	CB-CG-CD2	-5.14	102.26	111.00
41	L4	313	LEU	CB-CG-CD2	-5.14	102.25	111.00
80	6	270	C	N3-C2-O2	5.14	125.50	121.90
80	6	433	C	C2-N3-C4	-5.14	117.33	119.90
80	6	1047	G	C4-C5-C6	-5.14	115.71	118.80
85	5	176	G	C2-N3-C4	-5.14	109.33	111.90
85	5	214	G	N3-C2-N2	5.14	123.50	119.90
85	5	656	A	C4-C5-C6	5.14	119.57	117.00
85	5	734	C	OP2-P-O3'	-5.14	93.88	105.20
85	5	1094	U	C5-C6-N1	5.14	125.27	122.70
85	5	1421	G	C8-N9-C4	5.14	108.46	106.40
85	5	1574	C	N3-C4-N4	-5.14	114.40	118.00
85	5	2345	A	C4-C5-N7	5.14	113.27	110.70
85	5	2395	G	N3-C4-N9	-5.14	122.91	126.00
85	5	3282	U	N3-C4-O4	5.14	123.00	119.40
37	7	112	G	O5'-P-OP2	5.14	116.87	110.70
1	2	49	C	N1-C2-N3	5.14	122.80	119.20
1	2	126	A	C8-N9-C4	-5.14	103.74	105.80
1	2	810	C	C4-C5-C6	-5.14	114.83	117.40
1	2	835	C	C4-C5-C6	-5.14	114.83	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1507	G	C4-C5-N7	5.14	112.86	110.80
36	1	2243	A	OP2-P-O3'	-5.14	93.89	105.20
36	1	2718	U	N1-C2-N3	5.14	117.98	114.90
36	1	2815	G	N1-C6-O6	5.14	122.98	119.90
80	6	417	A	N9-C4-C5	5.14	107.86	105.80
80	6	647	G	C2-N3-C4	-5.14	109.33	111.90
80	6	917	U	OP1-P-OP2	5.14	127.31	119.60
80	6	1119	G	OP1-P-OP2	5.14	127.31	119.60
80	6	1748	G	C2-N3-C4	-5.14	109.33	111.90
85	5	1291	A	O5'-P-OP1	5.14	116.87	110.70
85	5	1307	G	N1-C2-N2	5.14	120.83	116.20
85	5	1408	G	N9-C4-C5	5.14	107.46	105.40
85	5	1578	C	C4-C5-C6	-5.14	114.83	117.40
85	5	1833	G	C6-C5-N7	5.14	133.49	130.40
85	5	2093	A	N7-C8-N9	5.14	116.37	113.80
85	5	2343	C	N3-C2-O2	5.14	125.50	121.90
85	5	2370	G	N9-C4-C5	5.14	107.46	105.40
85	5	2777	G	N7-C8-N9	5.14	115.67	113.10
53	m7	131	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	2	568	G	OP1-P-OP2	5.14	127.31	119.60
1	2	1638	A	N1-C6-N6	-5.14	115.52	118.60
36	1	423	A	N3-C4-N9	-5.14	123.29	127.40
36	1	926	A	N3-C4-C5	5.14	130.40	126.80
36	1	1331	U	N1-C1'-C2'	5.14	120.68	114.00
36	1	3171	U	OP1-P-O3'	-5.14	93.89	105.20
80	6	931	C	C5-C6-N1	5.14	123.57	121.00
85	5	23	A	C5-N7-C8	-5.14	101.33	103.90
85	5	197	G	C8-N9-C4	-5.14	104.34	106.40
85	5	899	U	C4-C5-C6	5.14	122.78	119.70
85	5	968	G	P-O3'-C3'	-5.14	113.53	119.70
85	5	2935	U	OP1-P-OP2	-5.14	111.89	119.60
37	7	45	A	C5-C6-N6	5.14	127.81	123.70
1	2	186	C	C2-N1-C1'	5.14	124.45	118.80
1	2	476	U	P-O3'-C3'	5.14	125.87	119.70
1	2	610	G	C5-C6-N1	-5.14	108.93	111.50
1	2	792	A	C5-N7-C8	-5.14	101.33	103.90
1	2	833	A	N1-C2-N3	-5.14	126.73	129.30
1	2	863	C	C4-C5-C6	-5.14	114.83	117.40
1	2	1268	U	C2-N3-C4	5.14	130.08	127.00
1	2	1650	A	N7-C8-N9	5.14	116.37	113.80
36	1	5	G	N3-C4-N9	-5.14	122.92	126.00
36	1	88	A	O5'-P-OP2	-5.14	101.07	105.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	292	U	C4-C5-C6	5.14	122.78	119.70
36	1	727	G	C5-N7-C8	-5.14	101.73	104.30
36	1	1311	G	C6-C5-N7	-5.14	127.32	130.40
36	1	1348	U	N3-C2-O2	5.14	125.80	122.20
36	1	1754	G	N1-C2-N2	5.14	120.83	116.20
36	1	2641	U	C5-C4-O4	-5.14	122.82	125.90
36	1	2735	U	N3-C4-O4	-5.14	115.80	119.40
36	1	2863	G	C8-N9-C4	-5.14	104.34	106.40
36	1	3113	A	N1-C2-N3	5.14	131.87	129.30
36	1	3240	C	N3-C4-C5	-5.14	119.84	121.90
36	1	3361	G	C5-N7-C8	5.14	106.87	104.30
71	O5	23	ASP	CB-CG-OD2	-5.14	113.67	118.30
80	6	712	G	N1-C2-N2	5.14	120.83	116.20
80	6	1755	A	N1-C2-N3	5.14	131.87	129.30
8	s6	77	LEU	CA-CB-CG	-5.14	103.48	115.30
85	5	107	A	OP1-P-OP2	5.14	127.31	119.60
85	5	784	A	N1-C2-N3	5.14	131.87	129.30
85	5	1529	A	N3-C4-C5	5.14	130.40	126.80
85	5	1846	C	C2-N3-C4	-5.14	117.33	119.90
85	5	2249	G	OP1-P-OP2	5.14	127.31	119.60
85	5	2299	A	OP2-P-O3'	5.14	116.51	105.20
85	5	2698	G	N1-C2-N3	5.14	126.98	123.90
85	5	3133	C	O5'-P-OP1	5.14	116.87	110.70
37	7	17	A	O5'-P-OP1	5.14	116.87	110.70
37	7	50	U	C5-C4-O4	5.14	128.98	125.90
37	7	82	G	C5-N7-C8	-5.14	101.73	104.30
1	2	1093	G	C5-C6-N1	5.14	114.07	111.50
36	1	1780	G	C8-N9-C1'	-5.14	120.32	127.00
36	1	1826	C	C4-C5-C6	5.14	119.97	117.40
36	1	1909	A	OP2-P-O3'	5.14	116.50	105.20
36	1	2318	U	N3-C4-C5	-5.14	111.52	114.60
36	1	2420	C	OP1-P-OP2	-5.14	111.89	119.60
36	1	2688	U	OP1-P-O3'	5.14	116.50	105.20
36	1	2690	G	C5-C6-O6	-5.14	125.52	128.60
68	O2	108	ILE	CG1-CB-CG2	-5.14	100.09	111.40
80	6	49	C	N1-C2-O2	-5.14	115.82	118.90
80	6	370	A	C5-C6-N6	5.14	127.81	123.70
80	6	1612	U	N1-C2-N3	-5.14	111.82	114.90
80	6	1690	G	N1-C2-N3	-5.14	120.82	123.90
85	5	760	G	C6-N1-C2	5.14	128.18	125.10
85	5	1380	G	C8-N9-C4	5.14	108.45	106.40
85	5	1613	A	N7-C8-N9	-5.14	111.23	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1913	A	OP1-P-OP2	-5.14	111.89	119.60
85	5	2237	C	C5-C4-N4	-5.14	116.60	120.20
85	5	2588	U	C6-N1-C2	-5.14	117.92	121.00
85	5	2764	C	C5-C6-N1	5.14	123.57	121.00
85	5	2999	U	N1-C2-O2	-5.14	119.20	122.80
1	2	926	C	N3-C4-C5	5.14	123.95	121.90
1	2	1605	G	C5-C6-O6	-5.14	125.52	128.60
36	1	1034	U	C5-C6-N1	5.14	125.27	122.70
36	1	1307	G	C2'-C3'-O3'	5.14	121.92	113.70
36	1	2244	A	C8-N9-C1'	-5.14	118.45	127.70
36	1	3193	C	N1-C2-N3	5.14	122.80	119.20
36	1	3250	U	N1-C2-O2	5.14	126.40	122.80
36	1	3300	U	OP2-P-O3'	5.14	116.50	105.20
38	4	10	A	N9-C4-C5	5.14	107.86	105.80
38	4	104	A	C4-C5-N7	5.14	113.27	110.70
80	6	158	U	C5-C6-N1	5.14	125.27	122.70
80	6	278	U	N3-C4-O4	-5.14	115.81	119.40
80	6	356	G	OP1-P-OP2	-5.14	111.90	119.60
80	6	487	G	C5-N7-C8	5.14	106.87	104.30
80	6	783	G	C2-N3-C4	5.14	114.47	111.90
80	6	796	A	C6-C5-N7	-5.14	128.70	132.30
80	6	950	C	N1-C2-O2	-5.14	115.82	118.90
80	6	1067	C	O5'-P-OP1	-5.14	101.08	105.70
80	6	1380	U	N1-C2-N3	5.14	117.98	114.90
85	5	34	A	C5-C6-N1	5.14	120.27	117.70
85	5	69	C	OP2-P-O3'	5.14	116.50	105.20
85	5	78	U	OP2-P-O3'	5.14	116.50	105.20
85	5	272	G	N3-C4-C5	-5.14	126.03	128.60
85	5	498	A	C6-C5-N7	-5.14	128.70	132.30
85	5	843	A	O5'-P-OP2	5.14	116.86	110.70
85	5	1092	C	C6-N1-C2	5.14	122.36	120.30
85	5	1154	A	C4-C5-N7	-5.14	108.13	110.70
85	5	1208	U	C6-N1-C2	-5.14	117.92	121.00
85	5	1269	U	O4'-C1'-N1	5.14	112.31	108.20
85	5	2725	U	N3-C2-O2	5.14	125.80	122.20
85	5	2936	A	C5-N7-C8	-5.14	101.33	103.90
38	8	86	U	N3-C2-O2	5.14	125.80	122.20
39	12	6	ARG	NE-CZ-NH2	-5.14	117.73	120.30
36	1	57	A	C4-C5-N7	5.13	113.27	110.70
36	1	65	A	C5-N7-C8	-5.13	101.33	103.90
36	1	222	A	C2-N3-C4	-5.13	108.03	110.60
36	1	589	A	O4'-C1'-N9	-5.13	104.09	108.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	610	G	O5'-P-OP2	-5.13	101.08	105.70
36	1	669	U	C5-C6-N1	-5.13	120.13	122.70
36	1	780	A	C4-C5-C6	5.13	119.57	117.00
36	1	1076	C	C2-N3-C4	-5.13	117.33	119.90
36	1	1561	G	OP1-P-OP2	5.13	127.30	119.60
36	1	2159	U	N3-C2-O2	-5.13	118.61	122.20
36	1	2323	G	N3-C4-N9	5.13	129.08	126.00
36	1	2909	U	OP1-P-OP2	5.13	127.30	119.60
36	1	3150	A	C4-C5-N7	5.13	113.27	110.70
37	3	74	C	C5-C4-N4	-5.13	116.61	120.20
38	4	84	C	C6-N1-C2	5.13	122.35	120.30
44	L7	207	LEU	CB-CG-CD1	-5.13	102.27	111.00
80	6	536	C	C2-N3-C4	5.13	122.47	119.90
80	6	776	G	N1-C2-N3	5.13	126.98	123.90
80	6	1354	G	N3-C4-C5	-5.13	126.03	128.60
85	5	176	G	O5'-P-OP1	5.13	116.86	110.70
85	5	634	C	N3-C4-C5	-5.13	119.85	121.90
85	5	1221	A	C5-N7-C8	5.13	106.47	103.90
85	5	1339	C	C2-N1-C1'	5.13	124.45	118.80
85	5	1600	U	C2-N1-C1'	-5.13	111.54	117.70
85	5	1669	C	N3-C4-C5	5.13	123.95	121.90
85	5	1927	G	C2-N3-C4	-5.13	109.33	111.90
85	5	2098	C	N1-C2-O2	5.13	121.98	118.90
85	5	2357	A	C5-C6-N6	5.13	127.81	123.70
85	5	2867	C	N1-C2-O2	-5.13	115.82	118.90
85	5	2870	C	C4'-C3'-C2'	5.13	107.73	102.60
85	5	3334	U	N3-C4-O4	-5.13	115.81	119.40
38	8	97	A	OP2-P-O3'	5.13	116.50	105.20
38	8	153	U	C5-C4-O4	-5.13	122.82	125.90
1	2	476	U	N1-C2-N3	5.13	117.98	114.90
36	1	326	U	O5'-P-OP2	-5.13	101.08	105.70
36	1	813	G	N7-C8-N9	5.13	115.67	113.10
36	1	1025	A	N1-C6-N6	-5.13	115.52	118.60
36	1	1213	G	N7-C8-N9	-5.13	110.53	113.10
36	1	2909	U	N1-C2-N3	-5.13	111.82	114.90
38	4	74	U	N1-C2-O2	-5.13	119.21	122.80
80	6	71	A	N1-C6-N6	5.13	121.68	118.60
80	6	310	C	OP1-P-O3'	5.13	116.49	105.20
80	6	385	A	N3-C4-C5	-5.13	123.21	126.80
80	6	764	U	N1-C2-O2	5.13	126.39	122.80
85	5	1717	U	C5-C4-O4	-5.13	122.82	125.90
85	5	2972	G	N9-C4-C5	-5.13	103.35	105.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3267	A	N3-C4-N9	5.13	131.51	127.40
85	5	3339	A	N9-C4-C5	5.13	107.85	105.80
1	2	32	U	O4'-C1'-N1	5.13	112.31	108.20
1	2	45	U	N3-C4-O4	5.13	122.99	119.40
1	2	249	U	OP1-P-O3'	5.13	116.49	105.20
1	2	322	G	N3-C4-C5	-5.13	126.03	128.60
1	2	1244	G	N3-C2-N2	-5.13	116.31	119.90
1	2	1259	U	N3-C2-O2	-5.13	118.61	122.20
1	2	1398	U	N1-C2-O2	-5.13	119.21	122.80
36	1	419	G	C8-N9-C4	5.13	108.45	106.40
36	1	552	G	O5'-P-OP2	5.13	116.86	110.70
36	1	566	G	O4'-C1'-N9	5.13	112.31	108.20
36	1	832	G	C2-N3-C4	5.13	114.47	111.90
36	1	934	G	OP1-P-OP2	5.13	127.30	119.60
36	1	989	A	C2-N3-C4	-5.13	108.03	110.60
36	1	1138	U	C5-C6-N1	-5.13	120.14	122.70
36	1	1194	G	C5-N7-C8	-5.13	101.73	104.30
36	1	1307	G	C5-C6-O6	5.13	131.68	128.60
36	1	1709	C	C5-C6-N1	-5.13	118.43	121.00
36	1	1742	U	C2-N1-C1'	5.13	123.86	117.70
36	1	1808	G	N7-C8-N9	-5.13	110.53	113.10
36	1	2311	G	OP2-P-O3'	5.13	116.49	105.20
36	1	2424	A	N1-C2-N3	-5.13	126.73	129.30
36	1	2797	C	C5-C4-N4	5.13	123.79	120.20
80	6	802	G	C8-N9-C4	-5.13	104.35	106.40
80	6	1134	C	N3-C4-N4	-5.13	114.41	118.00
80	6	1204	A	C2-N3-C4	-5.13	108.03	110.60
85	5	27	C	OP1-P-OP2	5.13	127.30	119.60
85	5	620	U	N1-C2-N3	-5.13	111.82	114.90
85	5	686	G	O4'-C1'-N9	5.13	112.31	108.20
85	5	1320	C	OP1-P-OP2	-5.13	111.90	119.60
85	5	1377	G	O5'-P-OP2	-5.13	101.08	105.70
85	5	2640	A	N1-C2-N3	5.13	131.87	129.30
85	5	2688	U	C5-C4-O4	-5.13	122.82	125.90
85	5	2927	C	N1-C2-O2	-5.13	115.82	118.90
85	5	3072	C	N1-C2-O2	-5.13	115.82	118.90
85	5	3109	G	C4-C5-N7	5.13	112.85	110.80
41	14	178	LEU	CB-CG-CD2	-5.13	102.28	111.00
44	17	108	LEU	CB-CG-CD1	5.13	119.72	111.00
1	2	799	G	N7-C8-N9	5.13	115.67	113.10
36	1	35	A	N1-C2-N3	-5.13	126.73	129.30
36	1	100	A	N1-C2-N3	5.13	131.87	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	814	U	C5-C4-O4	5.13	128.98	125.90
36	1	1697	A	C4-C5-C6	5.13	119.56	117.00
36	1	2620	G	C6-N1-C2	-5.13	122.02	125.10
36	1	2869	U	C2-N3-C4	-5.13	123.92	127.00
37	3	60	G	C2-N3-C4	-5.13	109.33	111.90
80	6	641	G	OP1-P-O3'	5.13	116.49	105.20
80	6	1095	U	C6-N1-C2	-5.13	117.92	121.00
80	6	1457	C	O5'-P-OP1	5.13	116.86	110.70
85	5	708	G	N1-C2-N2	-5.13	111.58	116.20
85	5	2105	G	N3-C4-C5	5.13	131.16	128.60
85	5	3039	C	N3-C2-O2	5.13	125.49	121.90
1	2	23	G	OP1-P-O3'	5.13	116.48	105.20
1	2	293	U	O5'-P-OP2	-5.13	101.08	105.70
1	2	1500	U	N3-C4-O4	5.13	122.99	119.40
36	1	685	G	C5-C6-O6	-5.13	125.52	128.60
36	1	1398	U	OP1-P-OP2	5.13	127.29	119.60
36	1	1727	G	N1-C2-N2	-5.13	111.58	116.20
36	1	2566	C	C5-C4-N4	5.13	123.79	120.20
36	1	2636	A	N1-C2-N3	5.13	131.86	129.30
36	1	2744	U	O5'-P-OP2	-5.13	101.08	105.70
36	1	3113	A	C5-N7-C8	5.13	106.46	103.90
36	1	3126	C	O5'-P-OP1	-5.13	101.08	105.70
80	6	24	U	OP1-P-OP2	-5.13	111.91	119.60
80	6	696	C	O4'-C1'-N1	5.13	112.30	108.20
80	6	1108	G	C4-C5-N7	5.13	112.85	110.80
80	6	1128	C	N3-C4-C5	-5.13	119.85	121.90
80	6	1348	A	N1-C6-N6	5.13	121.68	118.60
85	5	397	A	OP2-P-O3'	5.13	116.48	105.20
85	5	530	G	N9-C4-C5	-5.13	103.35	105.40
85	5	582	G	N3-C2-N2	-5.13	116.31	119.90
85	5	697	A	C5-C6-N1	-5.13	115.14	117.70
85	5	888	A	C4-C5-C6	5.13	119.56	117.00
85	5	953	G	C4-C5-C6	-5.13	115.72	118.80
85	5	972	A	C5-C6-N1	-5.13	115.14	117.70
85	5	3266	G	N3-C2-N2	-5.13	116.31	119.90
85	5	3281	U	O5'-P-OP2	-5.13	101.08	105.70
38	8	75	G	N3-C4-N9	-5.13	122.92	126.00
1	2	216	U	N3-C2-O2	5.13	125.79	122.20
1	2	1598	C	C5-C4-N4	-5.13	116.61	120.20
36	1	133	U	N3-C4-C5	5.13	117.68	114.60
36	1	206	G	N3-C4-C5	-5.13	126.04	128.60
36	1	648	C	C2-N3-C4	-5.13	117.34	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1521	G	O5'-P-OP2	5.13	116.85	110.70
36	1	1546	A	OP1-P-O3'	5.13	116.48	105.20
36	1	2332	A	C8-N9-C4	-5.13	103.75	105.80
36	1	2599	U	OP1-P-O3'	5.13	116.48	105.20
36	1	3213	A	C5-C6-N6	-5.13	119.60	123.70
36	1	3265	C	C6-N1-C2	5.13	122.35	120.30
36	1	3383	G	N1-C6-O6	-5.13	116.83	119.90
80	6	523	G	N7-C8-N9	-5.13	110.54	113.10
80	6	1304	G	N7-C8-N9	-5.13	110.54	113.10
85	5	1530	U	N3-C2-O2	5.13	125.79	122.20
85	5	1635	G	C5-N7-C8	-5.13	101.74	104.30
85	5	1776	G	O5'-P-OP2	5.13	116.85	110.70
85	5	2123	G	N7-C8-N9	-5.13	110.54	113.10
85	5	2136	C	N3-C4-N4	-5.13	114.41	118.00
37	7	22	A	N1-C2-N3	5.13	131.86	129.30
38	8	50	C	C5-C6-N1	-5.13	118.44	121.00
64	n8	131	SER	CA-CB-OG	-5.13	97.36	111.20
1	2	109	G	N1-C2-N3	5.12	126.97	123.90
1	2	1226	G	N3-C4-C5	-5.12	126.04	128.60
36	1	289	A	C8-N9-C4	-5.12	103.75	105.80
36	1	569	A	O5'-P-OP2	5.12	116.85	110.70
36	1	671	U	C2-N1-C1'	-5.12	111.55	117.70
36	1	674	G	O5'-P-OP1	-5.12	101.09	105.70
36	1	1502	C	C6-N1-C2	5.12	122.35	120.30
36	1	2283	G	N3-C4-N9	-5.12	122.92	126.00
40	L3	300	ARG	NE-CZ-NH2	5.12	122.86	120.30
80	6	780	A	N1-C2-N3	5.12	131.86	129.30
80	6	1003	A	O5'-P-OP2	5.12	116.85	110.70
85	5	170	G	C4-N9-C1'	5.12	133.16	126.50
85	5	235	A	N7-C8-N9	-5.12	111.24	113.80
85	5	2647	A	N1-C6-N6	-5.12	115.53	118.60
85	5	3074	G	C4-C5-N7	5.12	112.85	110.80
85	5	3191	G	C6-C5-N7	-5.12	127.33	130.40
1	2	58	U	N1-C2-O2	-5.12	119.21	122.80
1	2	418	G	C5-C6-N1	5.12	114.06	111.50
1	2	1297	U	OP1-P-OP2	5.12	127.29	119.60
1	2	1706	U	OP2-P-O3'	5.12	116.47	105.20
8	S6	137	ARG	NE-CZ-NH2	-5.12	117.74	120.30
36	1	143	G	O5'-P-OP2	-5.12	101.09	105.70
36	1	1221	A	N1-C2-N3	-5.12	126.74	129.30
36	1	1350	A	C8-N9-C4	-5.12	103.75	105.80
36	1	1407	A	OP2-P-O3'	5.12	116.47	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1895	A	C8-N9-C4	-5.12	103.75	105.80
36	1	2959	C	C5-C4-N4	-5.12	116.61	120.20
36	1	3238	G	C4-C5-N7	5.12	112.85	110.80
37	3	105	C	OP2-P-O3'	5.12	116.47	105.20
45	L8	169	LEU	CA-CB-CG	5.12	127.08	115.30
80	6	678	A	C2'-C3'-O3'	5.12	121.90	113.70
80	6	1022	C	O5'-P-OP1	-5.12	101.09	105.70
80	6	1377	U	C5-C6-N1	5.12	125.26	122.70
80	6	1762	A	N1-C6-N6	5.12	121.67	118.60
85	5	294	U	C6-N1-C2	5.12	124.08	121.00
85	5	822	G	OP2-P-O3'	5.12	116.47	105.20
85	5	898	U	C6-N1-C2	5.12	124.08	121.00
85	5	1041	U	O5'-P-OP2	-5.12	101.09	105.70
85	5	1061	A	N1-C2-N3	5.12	131.86	129.30
85	5	1097	G	N1-C6-O6	-5.12	116.83	119.90
85	5	1486	G	C4-C5-C6	5.12	121.88	118.80
85	5	1496	C	N1-C2-N3	-5.12	115.61	119.20
85	5	2324	A	C2-N3-C4	-5.12	108.04	110.60
85	5	2528	G	N7-C8-N9	5.12	115.66	113.10
85	5	2878	G	N3-C2-N2	-5.12	116.31	119.90
85	5	2922	G	C6-C5-N7	-5.12	127.33	130.40
85	5	3384	U	O5'-P-OP2	5.12	116.85	110.70
38	8	102	U	C5-C6-N1	5.12	125.26	122.70
39	12	238	ILE	CG1-CB-CG2	-5.12	100.13	111.40
1	2	281	G	C4-C5-N7	-5.12	108.75	110.80
1	2	577	G	C5-C6-O6	-5.12	125.53	128.60
1	2	1307	G	N9-C4-C5	5.12	107.45	105.40
36	1	345	G	N7-C8-N9	-5.12	110.54	113.10
36	1	530	G	C5-C6-O6	-5.12	125.53	128.60
36	1	799	G	N9-C4-C5	5.12	107.45	105.40
36	1	870	G	C8-N9-C4	-5.12	104.35	106.40
36	1	1830	G	OP1-P-O3'	5.12	116.47	105.20
36	1	2176	U	C5-C6-N1	-5.12	120.14	122.70
36	1	2569	A	C4-C5-C6	-5.12	114.44	117.00
36	1	2739	A	C5-N7-C8	-5.12	101.34	103.90
36	1	3391	A	C4-C5-N7	5.12	113.26	110.70
37	3	85	G	N1-C2-N2	5.12	120.81	116.20
80	6	447	U	C4-C5-C6	5.12	122.77	119.70
80	6	619	A	OP2-P-O3'	5.12	116.47	105.20
80	6	1372	U	N3-C2-O2	-5.12	118.61	122.20
80	6	1430	U	N3-C4-O4	5.12	122.99	119.40
80	6	1601	G	N3-C4-N9	5.12	129.07	126.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	104	G	C5-C6-N1	-5.12	108.94	111.50
85	5	747	A	OP1-P-OP2	-5.12	111.92	119.60
85	5	862	U	O4'-C1'-N1	-5.12	104.10	108.20
85	5	1093	A	C2-N3-C4	-5.12	108.04	110.60
85	5	1515	A	C6-C5-N7	-5.12	128.72	132.30
85	5	1844	C	C5-C6-N1	-5.12	118.44	121.00
85	5	1868	G	N9-C4-C5	-5.12	103.35	105.40
85	5	1939	G	N3-C4-N9	-5.12	122.93	126.00
85	5	2687	G	C5-C6-N1	5.12	114.06	111.50
85	5	2986	U	OP1-P-O3'	5.12	116.47	105.20
85	5	2988	C	OP1-P-O3'	5.12	116.47	105.20
85	5	3309	G	C4-C5-N7	5.12	112.85	110.80
38	8	40	A	O5'-P-OP1	-5.12	101.09	105.70
38	8	101	U	C5-C4-O4	-5.12	122.83	125.90
39	l2	21	ARG	NE-CZ-NH2	5.12	122.86	120.30
57	n1	11	THR	CA-CB-CG2	-5.12	105.23	112.40
62	n6	75	ARG	NE-CZ-NH2	5.12	122.86	120.30
1	2	1430	C	C6-N1-C2	-5.12	118.25	120.30
36	1	192	C	N1-C2-N3	5.12	122.78	119.20
36	1	213	A	C6-C5-N7	-5.12	128.72	132.30
36	1	1887	A	C5-C6-N1	-5.12	115.14	117.70
36	1	2395	G	C4-C5-N7	5.12	112.85	110.80
38	4	110	C	C2-N1-C1'	-5.12	113.17	118.80
80	6	171	A	O5'-P-OP1	5.12	116.84	110.70
80	6	304	U	OP1-P-OP2	5.12	127.28	119.60
80	6	981	U	N3-C4-C5	-5.12	111.53	114.60
85	5	875	G	C6-C5-N7	5.12	133.47	130.40
85	5	3310	A	C4-C5-C6	5.12	119.56	117.00
68	o2	44	ARG	CG-CD-NE	5.12	122.55	111.80
1	2	607	G	C5-C6-N1	-5.12	108.94	111.50
1	2	818	U	N3-C2-O2	-5.12	118.62	122.20
1	2	894	U	C5-C4-O4	5.12	128.97	125.90
1	2	1225	A	C4-C5-N7	-5.12	108.14	110.70
36	1	151	A	O5'-P-OP1	-5.12	101.09	105.70
36	1	699	A	O5'-P-OP2	5.12	116.84	110.70
36	1	1346	G	OP1-P-O3'	-5.12	93.94	105.20
36	1	1722	U	C4-C5-C6	5.12	122.77	119.70
36	1	1781	C	N1-C2-N3	5.12	122.78	119.20
36	1	1803	C	OP2-P-O3'	5.12	116.46	105.20
36	1	2214	A	P-O3'-C3'	-5.12	113.56	119.70
36	1	2650	U	C4-C5-C6	5.12	122.77	119.70
38	4	61	A	C5-C6-N1	5.12	120.26	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	L5	248	ARG	NE-CZ-NH2	-5.12	117.74	120.30
80	6	18	C	C2-N1-C1'	5.12	124.43	118.80
80	6	573	C	N1-C2-O2	-5.12	115.83	118.90
80	6	623	A	N3-C4-N9	-5.12	123.31	127.40
80	6	1514	U	C5-C4-O4	5.12	128.97	125.90
85	5	42	C	OP1-P-O3'	5.12	116.46	105.20
85	5	335	G	N3-C2-N2	-5.12	116.32	119.90
85	5	1321	G	C4-C5-N7	5.12	112.85	110.80
85	5	1439	U	OP2-P-O3'	5.12	116.46	105.20
85	5	1894	U	N3-C2-O2	5.12	125.78	122.20
85	5	2255	A	C6-N1-C2	-5.12	115.53	118.60
85	5	2378	C	C6-N1-C1'	-5.12	114.66	120.80
85	5	2558	U	N3-C4-O4	5.12	122.98	119.40
85	5	2584	G	OP2-P-O3'	5.12	116.46	105.20
85	5	2889	C	C5-C4-N4	-5.12	116.62	120.20
85	5	3050	U	P-O3'-C3'	-5.12	113.56	119.70
85	5	3152	U	C2-N3-C4	-5.12	123.93	127.00
85	5	3326	G	N9-C4-C5	-5.12	103.35	105.40
38	8	90	U	N1-C2-O2	-5.12	119.22	122.80
1	2	205	U	C5-C6-N1	-5.12	120.14	122.70
36	1	267	G	C4-C5-C6	5.12	121.87	118.80
36	1	554	A	C5-C6-N1	5.12	120.26	117.70
36	1	826	G	C5-N7-C8	-5.12	101.74	104.30
36	1	1412	G	C5-N7-C8	-5.12	101.74	104.30
36	1	1497	C	O5'-P-OP1	-5.12	101.09	105.70
36	1	1591	G	N9-C4-C5	5.12	107.45	105.40
36	1	1822	C	C2-N1-C1'	5.12	124.43	118.80
37	3	1	G	C2-N3-C4	-5.12	109.34	111.90
80	6	458	G	C4-C5-N7	-5.12	108.75	110.80
80	6	994	G	C8-N9-C4	-5.12	104.35	106.40
85	5	376	G	C5-C6-N1	5.12	114.06	111.50
85	5	553	U	O5'-P-OP1	-5.12	101.09	105.70
85	5	1246	G	C4-C5-C6	5.12	121.87	118.80
38	8	36	G	C6-C5-N7	-5.12	127.33	130.40
1	2	272	U	C5-C4-O4	5.12	128.97	125.90
1	2	517	U	N3-C2-O2	-5.12	118.62	122.20
1	2	542	A	C8-N9-C4	-5.12	103.75	105.80
1	2	548	G	C2-N3-C4	5.12	114.46	111.90
36	1	415	G	C2-N3-C4	-5.12	109.34	111.90
36	1	2302	G	N3-C4-N9	5.12	129.07	126.00
36	1	2386	A	N7-C8-N9	5.12	116.36	113.80
36	1	2655	U	C6-N1-C2	-5.12	117.93	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2705	A	OP2-P-O3'	5.12	116.45	105.20
36	1	2915	U	C2-N3-C4	-5.12	123.93	127.00
36	1	3307	A	C4-C5-C6	5.12	119.56	117.00
80	6	142	G	N3-C4-C5	-5.12	126.04	128.60
80	6	584	C	N3-C4-N4	-5.12	114.42	118.00
80	6	745	U	C5-C6-N1	5.12	125.26	122.70
80	6	1699	G	N3-C4-C5	5.12	131.16	128.60
85	5	313	A	C4-C5-C6	5.12	119.56	117.00
85	5	580	C	N1-C2-O2	-5.12	115.83	118.90
85	5	966	U	N1-C2-O2	-5.12	119.22	122.80
85	5	1261	G	OP2-P-O3'	5.12	116.45	105.20
85	5	1478	C	OP1-P-OP2	5.12	127.27	119.60
85	5	1497	C	C2-N1-C1'	5.12	124.43	118.80
85	5	2172	A	OP1-P-O3'	5.12	116.45	105.20
85	5	2182	A	OP1-P-O3'	5.12	116.46	105.20
85	5	2346	C	O5'-P-OP1	-5.12	101.10	105.70
85	5	2953	U	N1-C2-N3	5.12	117.97	114.90
85	5	2993	G	N1-C2-N3	-5.12	120.83	123.90
85	5	3111	U	C2-N1-C1'	-5.12	111.56	117.70
85	5	3124	G	C6-C5-N7	-5.12	127.33	130.40
85	5	3220	G	N9-C4-C5	5.12	107.45	105.40
85	5	3365	U	N3-C2-O2	5.12	125.78	122.20
38	8	146	U	C5-C4-O4	-5.12	122.83	125.90
1	2	310	C	N3-C2-O2	-5.11	118.32	121.90
1	2	711	U	C2-N1-C1'	5.11	123.84	117.70
1	2	871	U	C2-N3-C4	-5.11	123.93	127.00
1	2	1328	A	C8-N9-C4	5.11	107.85	105.80
36	1	54	C	N3-C4-N4	-5.11	114.42	118.00
36	1	65	A	P-O3'-C3'	5.11	125.83	119.70
36	1	214	G	N1-C2-N2	-5.11	111.60	116.20
36	1	244	G	N1-C2-N2	5.11	120.80	116.20
36	1	307	A	N1-C2-N3	5.11	131.86	129.30
36	1	795	G	N9-C4-C5	-5.11	103.35	105.40
36	1	1597	C	O5'-P-OP2	-5.11	101.10	105.70
36	1	1833	G	C4-C5-N7	-5.11	108.75	110.80
36	1	2135	U	C5-C6-N1	5.11	125.26	122.70
36	1	2394	G	N3-C2-N2	-5.11	116.32	119.90
80	6	960	U	OP1-P-O3'	5.11	116.45	105.20
85	5	199	A	C5-C6-N1	-5.11	115.14	117.70
85	5	426	G	OP2-P-O3'	5.11	116.45	105.20
85	5	883	A	C5-N7-C8	-5.11	101.34	103.90
85	5	928	C	C2-N3-C4	5.11	122.46	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1009	A	C6-N1-C2	-5.11	115.53	118.60
85	5	1018	G	N1-C6-O6	-5.11	116.83	119.90
85	5	1389	G	O4'-C1'-N9	-5.11	104.11	108.20
85	5	2388	U	C5-C4-O4	-5.11	122.83	125.90
85	5	2652	U	N1-C2-O2	-5.11	119.22	122.80
85	5	3001	C	C5-C6-N1	-5.11	118.44	121.00
85	5	3016	A	OP1-P-O3'	-5.11	93.95	105.20
38	8	10	A	C4-C5-N7	5.11	113.26	110.70
38	8	26	U	C5-C6-N1	5.11	125.26	122.70
1	2	342	C	N3-C4-N4	5.11	121.58	118.00
1	2	409	C	N3-C4-C5	5.11	123.94	121.90
1	2	515	A	C5-C6-N1	5.11	120.26	117.70
1	2	589	C	N3-C2-O2	5.11	125.48	121.90
1	2	1252	U	C5-C6-N1	5.11	125.26	122.70
1	2	1604	U	C5-C6-N1	5.11	125.26	122.70
36	1	1421	G	C8-N9-C4	5.11	108.44	106.40
36	1	1837	U	C5-C6-N1	5.11	125.26	122.70
36	1	2284	C	N1-C2-N3	5.11	122.78	119.20
36	1	3031	G	N1-C2-N2	5.11	120.80	116.20
37	3	109	G	OP1-P-OP2	-5.11	111.93	119.60
85	5	983	A	N7-C8-N9	5.11	116.36	113.80
85	5	1319	G	N3-C2-N2	-5.11	116.32	119.90
85	5	1339	C	N1-C2-O2	-5.11	115.83	118.90
85	5	2629	U	OP2-P-O3'	5.11	116.45	105.20
85	5	3006	A	C4-C5-C6	5.11	119.56	117.00
85	5	3375	A	C6-N1-C2	-5.11	115.53	118.60
63	n7	42	LEU	CB-CG-CD2	-5.11	102.31	111.00
1	2	405	C	O5'-P-OP2	5.11	116.83	110.70
1	2	543	C	P-O3'-C3'	5.11	125.83	119.70
1	2	613	G	O5'-P-OP2	-5.11	101.10	105.70
1	2	1248	G	N1-C2-N2	5.11	120.80	116.20
1	2	1458	A	N1-C6-N6	5.11	121.67	118.60
1	2	1623	C	C2-N3-C4	-5.11	117.34	119.90
36	1	574	U	C5-C4-O4	5.11	128.97	125.90
36	1	701	G	C4-C5-C6	5.11	121.87	118.80
36	1	760	G	OP2-P-O3'	5.11	116.44	105.20
36	1	872	U	C5-C4-O4	5.11	128.97	125.90
36	1	992	A	N1-C6-N6	-5.11	115.53	118.60
36	1	2551	U	O4'-C1'-N1	5.11	112.29	108.20
36	1	2851	A	C5-N7-C8	5.11	106.45	103.90
36	1	3030	G	N1-C2-N3	5.11	126.97	123.90
36	1	3156	U	C5-C6-N1	-5.11	120.14	122.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3373	U	OP2-P-O3'	5.11	116.44	105.20
80	6	456	A	C4-C5-C6	5.11	119.56	117.00
80	6	948	G	C4-C5-N7	5.11	112.84	110.80
80	6	954	G	N3-C2-N2	-5.11	116.32	119.90
80	6	1213	G	N3-C4-N9	5.11	129.07	126.00
80	6	1465	C	C6-N1-C2	-5.11	118.25	120.30
85	5	1927	G	C5-N7-C8	-5.11	101.75	104.30
85	5	2271	A	C2-N3-C4	5.11	113.16	110.60
85	5	2431	C	C5-C6-N1	5.11	123.56	121.00
85	5	2560	C	C5-C4-N4	-5.11	116.62	120.20
85	5	2727	A	C5-C6-N6	5.11	127.79	123.70
85	5	2945	G	O5'-P-OP1	-5.11	101.10	105.70
85	5	3340	G	N3-C2-N2	5.11	123.48	119.90
1	2	196	G	O5'-P-OP2	-5.11	101.10	105.70
1	2	888	A	N7-C8-N9	5.11	116.36	113.80
36	1	788	C	C4-C5-C6	-5.11	114.85	117.40
36	1	876	A	C4-C5-N7	5.11	113.25	110.70
36	1	905	U	N3-C4-C5	-5.11	111.53	114.60
36	1	2300	G	N1-C2-N3	5.11	126.97	123.90
36	1	2320	A	C5-N7-C8	-5.11	101.35	103.90
36	1	2426	U	C4-C5-C6	-5.11	116.64	119.70
36	1	2907	G	C4-C5-C6	5.11	121.87	118.80
36	1	3025	C	C4-C5-C6	5.11	119.95	117.40
80	6	154	G	N3-C2-N2	5.11	123.48	119.90
80	6	193	U	N3-C2-O2	-5.11	118.62	122.20
85	5	618	C	C2-N3-C4	-5.11	117.34	119.90
85	5	1558	A	C5-C6-N1	5.11	120.25	117.70
85	5	1653	G	C8-N9-C4	5.11	108.44	106.40
85	5	2426	U	C6-N1-C2	-5.11	117.93	121.00
85	5	2602	G	N9-C4-C5	5.11	107.44	105.40
85	5	2781	U	C6-N1-C2	5.11	124.06	121.00
85	5	2805	G	N1-C2-N2	-5.11	111.60	116.20
1	2	370	A	N9-C4-C5	5.11	107.84	105.80
1	2	472	U	C6-N1-C2	-5.11	117.94	121.00
1	2	1134	A	O5'-P-OP2	-5.11	101.10	105.70
1	2	1427	A	N1-C6-N6	5.11	121.66	118.60
1	2	1485	G	C6-N1-C2	-5.11	122.04	125.10
1	2	1487	G	C5-C6-N1	5.11	114.05	111.50
1	2	1571	G	N1-C2-N3	5.11	126.96	123.90
25	D3	33	LEU	CA-CB-CG	-5.11	103.55	115.30
36	1	569	A	N3-C4-C5	5.11	130.38	126.80
36	1	884	A	N1-C2-N3	5.11	131.85	129.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1389	G	N7-C8-N9	5.11	115.65	113.10
36	1	1530	U	C5-C6-N1	-5.11	120.15	122.70
36	1	1798	A	C2-N3-C4	-5.11	108.05	110.60
36	1	1889	G	N9-C4-C5	-5.11	103.36	105.40
36	1	2336	U	C4-C5-C6	-5.11	116.64	119.70
36	1	2412	G	C5-C6-O6	5.11	131.66	128.60
36	1	2624	G	N9-C4-C5	-5.11	103.36	105.40
36	1	2963	C	OP1-P-OP2	5.11	127.26	119.60
36	1	2997	G	C4-C5-N7	5.11	112.84	110.80
36	1	3044	G	N3-C2-N2	-5.11	116.33	119.90
80	6	246	G	C8-N9-C4	5.11	108.44	106.40
80	6	996	U	C5-C4-O4	5.11	128.97	125.90
80	6	1066	C	OP1-P-OP2	5.11	127.26	119.60
80	6	1144	U	OP1-P-OP2	-5.11	111.94	119.60
80	6	1701	A	C5-C6-N6	-5.11	119.61	123.70
85	5	154	U	N1-C2-O2	-5.11	119.22	122.80
85	5	303	G	N3-C4-C5	-5.11	126.05	128.60
85	5	326	U	N3-C2-O2	5.11	125.78	122.20
85	5	1674	G	N1-C2-N2	-5.11	111.60	116.20
85	5	1861	G	O5'-P-OP1	-5.11	101.10	105.70
85	5	2354	C	N3-C4-N4	5.11	121.58	118.00
85	5	2714	G	N3-C2-N2	-5.11	116.33	119.90
85	5	2737	C	C5-C4-N4	5.11	123.78	120.20
85	5	2827	U	O5'-P-OP2	-5.11	101.10	105.70
85	5	3130	A	C4-N9-C1'	5.11	135.49	126.30
85	5	3290	G	C2-N3-C4	5.11	114.45	111.90
39	l2	33	ASP	CB-CG-OD1	5.11	122.90	118.30
1	2	942	U	N3-C4-O4	-5.11	115.83	119.40
1	2	1016	C	N3-C4-N4	-5.11	114.43	118.00
1	2	1142	C	C6-N1-C2	5.11	122.34	120.30
1	2	1485	G	N3-C4-C5	-5.11	126.05	128.60
36	1	373	A	OP2-P-O3'	5.11	116.43	105.20
36	1	654	C	OP2-P-O3'	5.11	116.43	105.20
36	1	810	A	N1-C6-N6	-5.11	115.54	118.60
36	1	1183	C	C6-N1-C2	5.11	122.34	120.30
36	1	1366	A	C8-N9-C4	-5.11	103.76	105.80
36	1	1879	A	C5-N7-C8	5.11	106.45	103.90
36	1	2281	A	O4'-C1'-N9	5.11	112.28	108.20
36	1	2395	G	C6-C5-N7	-5.11	127.34	130.40
37	3	37	G	C6-C5-N7	-5.11	127.34	130.40
54	M8	185	LYS	CD-CE-NZ	-5.11	99.96	111.70
62	N6	36	SER	CB-CA-C	-5.11	100.40	110.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	983	A	N9-C4-C5	5.11	107.84	105.80
80	6	1139	A	C8-N9-C4	5.11	107.84	105.80
80	6	1547	A	C4-C5-N7	5.11	113.25	110.70
85	5	225	C	N1-C2-O2	5.11	121.96	118.90
85	5	240	U	N1-C2-N3	-5.11	111.84	114.90
85	5	336	A	O4'-C1'-N9	-5.11	104.11	108.20
85	5	376	G	OP2-P-O3'	-5.11	93.97	105.20
85	5	553	U	N3-C4-C5	-5.11	111.54	114.60
85	5	684	G	C4-C5-C6	5.11	121.86	118.80
85	5	1543	G	C6-C5-N7	-5.11	127.34	130.40
85	5	1842	A	C2-N3-C4	-5.11	108.05	110.60
85	5	2185	G	C5-C6-O6	5.11	131.66	128.60
85	5	2513	U	OP1-P-O3'	5.11	116.43	105.20
85	5	2521	U	N3-C4-C5	-5.11	111.54	114.60
85	5	2604	U	O5'-P-OP1	5.11	116.83	110.70
85	5	2875	U	O5'-P-OP2	5.11	116.83	110.70
85	5	3020	U	N1-C2-N3	5.11	117.96	114.90
58	n2	90	ARG	NE-CZ-NH2	-5.11	117.75	120.30
62	n6	16	ARG	NE-CZ-NH2	5.11	122.85	120.30
36	1	1059	G	N1-C6-O6	5.10	122.96	119.90
36	1	2409	G	C4-N9-C1'	5.10	133.14	126.50
80	6	233	C	N3-C4-C5	-5.10	119.86	121.90
80	6	1177	C	N1-C2-N3	-5.10	115.63	119.20
85	5	3	U	C5-C6-N1	-5.10	120.15	122.70
85	5	516	A	O5'-P-OP1	5.10	116.83	110.70
85	5	2289	U	OP1-P-O3'	5.10	116.43	105.20
85	5	3267	A	C4-C5-N7	-5.10	108.15	110.70
1	2	110	U	N1-C2-N3	5.10	117.96	114.90
1	2	198	A	C6-N1-C2	5.10	121.66	118.60
1	2	296	U	C4-C5-C6	5.10	122.76	119.70
1	2	1479	U	OP1-P-O3'	5.10	116.42	105.20
1	2	1653	G	C6-C5-N7	-5.10	127.34	130.40
36	1	191	U	C5-C4-O4	5.10	128.96	125.90
36	1	395	A	C5-C6-N6	5.10	127.78	123.70
36	1	788	C	N3-C4-C5	5.10	123.94	121.90
36	1	793	C	OP1-P-OP2	-5.10	111.94	119.60
36	1	1003	A	C6-N1-C2	5.10	121.66	118.60
36	1	1064	A	C4-C5-C6	-5.10	114.45	117.00
36	1	1070	U	N3-C4-O4	-5.10	115.83	119.40
36	1	1639	C	N3-C2-O2	5.10	125.47	121.90
36	1	2163	C	N3-C2-O2	-5.10	118.33	121.90
36	1	2695	A	C5-C6-N1	5.10	120.25	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2823	G	C6-N1-C2	5.10	128.16	125.10
36	1	3359	A	C6-N1-C2	5.10	121.66	118.60
69	O3	9	VAL	CG1-CB-CG2	-5.10	102.74	110.90
80	6	28	A	N9-C4-C5	5.10	107.84	105.80
80	6	419	G	N1-C2-N2	-5.10	111.61	116.20
80	6	426	G	N9-C4-C5	5.10	107.44	105.40
80	6	927	C	C2-N1-C1'	5.10	124.41	118.80
80	6	1512	G	C4-C5-N7	-5.10	108.76	110.80
85	5	140	C	N1-C2-O2	-5.10	115.84	118.90
85	5	584	G	C4-N9-C1'	5.10	133.13	126.50
85	5	951	A	N1-C2-N3	5.10	131.85	129.30
85	5	997	A	C6-C5-N7	-5.10	128.73	132.30
85	5	1529	A	OP2-P-O3'	5.10	116.42	105.20
85	5	1937	U	C6-N1-C2	5.10	124.06	121.00
85	5	2395	G	C2-N3-C4	-5.10	109.35	111.90
85	5	2535	A	C4-C5-C6	-5.10	114.45	117.00
85	5	2687	G	N1-C2-N2	-5.10	111.61	116.20
85	5	2938	G	C2-N3-C4	5.10	114.45	111.90
37	7	119	U	C2-N1-C1'	-5.10	111.58	117.70
1	2	180	A	C2-N3-C4	5.10	113.15	110.60
1	2	596	C	N3-C2-O2	5.10	125.47	121.90
1	2	1638	A	N9-C4-C5	5.10	107.84	105.80
36	1	769	G	C4-N9-C1'	5.10	133.13	126.50
36	1	943	U	C4-C5-C6	5.10	122.76	119.70
36	1	1028	U	N3-C4-C5	-5.10	111.54	114.60
36	1	2095	G	N1-C2-N3	-5.10	120.84	123.90
36	1	2116	G	C5-C6-N1	-5.10	108.95	111.50
36	1	2434	U	O5'-P-OP1	5.10	116.82	110.70
36	1	2613	U	N3-C4-O4	5.10	122.97	119.40
36	1	3215	A	C5-C6-N1	5.10	120.25	117.70
80	6	39	A	N1-C2-N3	5.10	131.85	129.30
80	6	1688	U	N3-C2-O2	-5.10	118.63	122.20
85	5	677	A	N7-C8-N9	5.10	116.35	113.80
85	5	803	C	C4-C5-C6	-5.10	114.85	117.40
85	5	828	A	N7-C8-N9	5.10	116.35	113.80
85	5	1046	A	OP1-P-O3'	5.10	116.42	105.20
85	5	1649	U	N3-C4-C5	-5.10	111.54	114.60
85	5	2202	C	N3-C4-C5	-5.10	119.86	121.90
1	2	6	G	N3-C4-C5	-5.10	126.05	128.60
1	2	105	A	C4-C5-N7	-5.10	108.15	110.70
1	2	347	G	O5'-P-OP1	5.10	116.82	110.70
1	2	588	U	C2-N3-C4	5.10	130.06	127.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	830	A	N9-C4-C5	-5.10	103.76	105.80
1	2	966	A	C4-C5-N7	-5.10	108.15	110.70
1	2	1317	U	N3-C4-O4	5.10	122.97	119.40
1	2	1799	C	C6-N1-C2	-5.10	118.26	120.30
36	1	289	A	C6-N1-C2	-5.10	115.54	118.60
36	1	923	C	C2-N3-C4	5.10	122.45	119.90
36	1	1165	A	C8-N9-C4	5.10	107.84	105.80
36	1	1633	C	C2-N1-C1'	5.10	124.41	118.80
36	1	1809	A	O4'-C1'-N9	-5.10	104.12	108.20
36	1	1932	A	N9-C4-C5	5.10	107.84	105.80
36	1	2848	G	P-O3'-C3'	5.10	125.82	119.70
36	1	3014	U	C5-C6-N1	-5.10	120.15	122.70
36	1	3240	C	C5-C6-N1	5.10	123.55	121.00
37	3	96	U	N1-C2-N3	5.10	117.96	114.90
39	L2	242	ARG	NE-CZ-NH2	-5.10	117.75	120.30
65	N9	23	LYS	CD-CE-NZ	5.10	123.43	111.70
80	6	225	A	N1-C2-N3	-5.10	126.75	129.30
80	6	443	C	N3-C4-N4	5.10	121.57	118.00
80	6	1209	C	C4-C5-C6	-5.10	114.85	117.40
80	6	1251	U	C5-C6-N1	5.10	125.25	122.70
80	6	1438	G	O5'-P-OP1	5.10	116.82	110.70
85	5	74	G	C6-N1-C2	5.10	128.16	125.10
85	5	904	A	OP2-P-O3'	5.10	116.42	105.20
85	5	1558	A	O5'-P-OP1	5.10	116.82	110.70
85	5	2127	U	O5'-P-OP1	-5.10	101.11	105.70
85	5	2160	G	C4-C5-N7	-5.10	108.76	110.80
85	5	2433	U	N1-C2-N3	-5.10	111.84	114.90
85	5	2440	G	N7-C8-N9	5.10	115.65	113.10
37	7	78	U	C2-N1-C1'	5.10	123.82	117.70
1	2	152	U	N1-C2-N3	5.10	117.96	114.90
1	2	316	A	N1-C2-N3	-5.10	126.75	129.30
1	2	900	U	C5-C4-O4	5.10	128.96	125.90
1	2	1331	A	C2-N3-C4	-5.10	108.05	110.60
1	2	1707	U	C5-C6-N1	5.10	125.25	122.70
1	2	1711	A	OP1-P-O3'	5.10	116.41	105.20
36	1	394	G	C2-N3-C4	-5.10	109.35	111.90
36	1	415	G	C8-N9-C4	-5.10	104.36	106.40
36	1	589	A	C5-C6-N1	5.10	120.25	117.70
36	1	698	U	OP1-P-OP2	-5.10	111.95	119.60
36	1	754	G	OP2-P-O3'	5.10	116.42	105.20
36	1	1109	U	C4-C5-C6	5.10	122.76	119.70
36	1	1449	A	C6-C5-N7	5.10	135.87	132.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1733	G	N3-C4-C5	-5.10	126.05	128.60
36	1	1802	C	C4-C5-C6	-5.10	114.85	117.40
36	1	2522	G	OP1-P-OP2	5.10	127.25	119.60
36	1	2907	G	N7-C8-N9	5.10	115.65	113.10
36	1	3057	U	C6-N1-C2	-5.10	117.94	121.00
36	1	3316	A	N3-C4-C5	5.10	130.37	126.80
36	1	3393	U	N1-C2-O2	-5.10	119.23	122.80
37	3	88	G	C8-N9-C4	5.10	108.44	106.40
62	N6	99	LEU	CB-CG-CD1	-5.10	102.34	111.00
80	6	251	A	C5-N7-C8	5.10	106.45	103.90
80	6	257	A	N9-C4-C5	-5.10	103.76	105.80
80	6	1002	G	N3-C2-N2	-5.10	116.33	119.90
80	6	1598	U	N3-C2-O2	-5.10	118.63	122.20
85	5	229	G	C6-N1-C2	-5.10	122.04	125.10
85	5	945	C	N1-C2-O2	5.10	121.96	118.90
85	5	1213	G	OP2-P-O3'	5.10	116.42	105.20
85	5	1438	U	O5'-P-OP1	5.10	116.82	110.70
85	5	2175	U	P-O3'-C3'	-5.10	113.58	119.70
63	n7	17	ARG	NE-CZ-NH2	-5.10	117.75	120.30
36	1	1362	G	N9-C4-C5	-5.10	103.36	105.40
36	1	1427	U	N1-C2-N3	5.10	117.96	114.90
36	1	3334	U	O5'-P-OP1	-5.10	101.11	105.70
80	6	617	U	OP1-P-O3'	5.10	116.41	105.20
80	6	997	G	C8-N9-C4	-5.10	104.36	106.40
80	6	1545	A	C5-C6-N1	5.10	120.25	117.70
80	6	1546	G	N1-C2-N3	5.10	126.96	123.90
85	5	1038	C	OP1-P-OP2	-5.10	111.96	119.60
85	5	1686	U	C5-C4-O4	5.10	128.96	125.90
85	5	1781	C	N3-C2-O2	5.10	125.47	121.90
85	5	2317	A	C4-C5-N7	-5.10	108.15	110.70
85	5	2372	A	N7-C8-N9	5.10	116.35	113.80
41	l4	202	ARG	NE-CZ-NH2	-5.10	117.75	120.30
50	m4	42	LYS	CD-CE-NZ	-5.10	99.98	111.70
1	2	226	A	C6-N1-C2	-5.09	115.54	118.60
1	2	977	G	C2-N3-C4	-5.09	109.35	111.90
1	2	1194	A	C5-N7-C8	-5.09	101.35	103.90
1	2	1565	U	OP1-P-OP2	-5.09	111.96	119.60
1	2	1625	G	N1-C2-N3	5.09	126.96	123.90
36	1	278	U	C5-C6-N1	5.09	125.25	122.70
36	1	429	U	C2-N3-C4	-5.09	123.94	127.00
36	1	632	G	C2-N3-C4	-5.09	109.35	111.90
36	1	652	G	N3-C4-C5	-5.09	126.05	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	800	G	C8-N9-C4	-5.09	104.36	106.40
36	1	1438	U	C4-C5-C6	5.09	122.76	119.70
36	1	1467	A	N9-C4-C5	5.09	107.84	105.80
36	1	1520	G	N3-C4-N9	5.09	129.06	126.00
36	1	1825	G	OP1-P-O3'	5.09	116.41	105.20
36	1	1876	U	N1-C2-N3	5.09	117.96	114.90
36	1	2518	C	O5'-P-OP1	5.09	116.81	110.70
36	1	2524	A	C5-C6-N1	-5.09	115.15	117.70
36	1	2643	A	C5-C6-N6	-5.09	119.62	123.70
36	1	2646	C	N3-C4-N4	5.09	121.57	118.00
36	1	3276	G	C8-N9-C4	5.09	108.44	106.40
36	1	3314	A	OP2-P-O3'	5.09	116.41	105.20
37	3	91	G	C6-C5-N7	-5.09	127.34	130.40
50	M4	117	ARG	NE-CZ-NH1	5.09	122.85	120.30
67	O1	79	ARG	NE-CZ-NH1	5.09	122.85	120.30
80	6	154	G	C8-N9-C4	-5.09	104.36	106.40
80	6	506	A	C5-C6-N1	-5.09	115.15	117.70
80	6	513	U	N3-C2-O2	-5.09	118.63	122.20
80	6	1400	A	O5'-P-OP1	-5.09	101.11	105.70
80	6	1537	C	C5-C4-N4	-5.09	116.63	120.20
85	5	308	A	C6-C5-N7	-5.09	128.73	132.30
85	5	363	G	C8-N9-C4	-5.09	104.36	106.40
85	5	1153	A	C4-C5-C6	5.09	119.55	117.00
85	5	1217	A	N1-C6-N6	-5.09	115.54	118.60
85	5	1369	A	C6-N1-C2	5.09	121.66	118.60
85	5	1774	C	OP1-P-OP2	-5.09	111.96	119.60
85	5	2374	C	N3-C4-N4	5.09	121.57	118.00
85	5	2429	G	C5-N7-C8	5.09	106.85	104.30
85	5	2657	A	C5-C6-N1	-5.09	115.15	117.70
85	5	3351	U	N3-C2-O2	-5.09	118.63	122.20
37	7	1	G	C5-N7-C8	-5.09	101.75	104.30
37	7	38	U	O5'-P-OP2	-5.09	101.11	105.70
37	7	71	G	OP1-P-O3'	-5.09	93.99	105.20
37	7	87	G	C6-C5-N7	-5.09	127.34	130.40
40	l3	328	ILE	CG1-CB-CG2	-5.09	100.19	111.40
36	1	729	C	N1-C2-O2	5.09	121.96	118.90
36	1	1069	C	OP1-P-O3'	5.09	116.41	105.20
36	1	1685	C	O5'-P-OP2	5.09	116.81	110.70
36	1	1918	C	N1-C2-N3	5.09	122.77	119.20
36	1	3214	U	OP2-P-O3'	5.09	116.40	105.20
38	4	35	C	N3-C2-O2	5.09	125.47	121.90
80	6	204	G	C6-N1-C2	5.09	128.16	125.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	313	U	C5-C4-O4	-5.09	122.84	125.90
85	5	1714	A	C2-N3-C4	-5.09	108.05	110.60
85	5	1751	G	OP1-P-OP2	5.09	127.24	119.60
85	5	2142	A	C4-C5-C6	-5.09	114.45	117.00
85	5	2580	A	N1-C2-N3	5.09	131.85	129.30
85	5	3085	G	OP1-P-OP2	5.09	127.24	119.60
37	7	30	G	N3-C4-C5	-5.09	126.05	128.60
1	2	421	A	C5-C6-N1	-5.09	115.16	117.70
1	2	564	G	N9-C4-C5	-5.09	103.36	105.40
1	2	599	A	C5-C6-N6	5.09	127.77	123.70
1	2	623	A	C5-C6-N6	5.09	127.77	123.70
1	2	668	A	C5-N7-C8	5.09	106.45	103.90
1	2	752	A	C6-N1-C2	-5.09	115.55	118.60
1	2	1291	G	C5-C6-N1	-5.09	108.95	111.50
36	1	25	U	N1-C2-N3	5.09	117.95	114.90
36	1	406	G	OP2-P-O3'	5.09	116.40	105.20
36	1	1403	C	OP1-P-OP2	5.09	127.24	119.60
36	1	1764	U	P-O3'-C3'	5.09	125.81	119.70
36	1	2801	A	C6-N1-C2	-5.09	115.55	118.60
37	3	121	U	C2-N1-C1'	-5.09	111.59	117.70
38	4	54	A	N7-C8-N9	5.09	116.34	113.80
80	6	268	C	C2-N3-C4	-5.09	117.35	119.90
80	6	377	G	C4-C5-C6	5.09	121.85	118.80
80	6	1111	G	O4'-C1'-N9	-5.09	104.13	108.20
80	6	1319	A	C8-N9-C4	-5.09	103.76	105.80
80	6	1718	G	OP1-P-O3'	-5.09	94.00	105.20
85	5	533	A	C2-N3-C4	-5.09	108.05	110.60
85	5	1385	C	N3-C4-N4	5.09	121.56	118.00
85	5	2324	A	C5-N7-C8	-5.09	101.35	103.90
85	5	2405	C	N3-C4-N4	-5.09	114.44	118.00
85	5	2800	G	N7-C8-N9	-5.09	110.56	113.10
85	5	2828	G	N7-C8-N9	5.09	115.64	113.10
85	5	2931	C	N1-C1'-C2'	-5.09	106.40	112.00
85	5	2958	A	C4-C5-C6	5.09	119.55	117.00
85	5	2991	A	C8-N9-C4	-5.09	103.76	105.80
85	5	3225	C	N1-C2-N3	-5.09	115.64	119.20
44	17	89	ILE	CG1-CB-CG2	-5.09	100.20	111.40
1	2	187	G	P-O3'-C3'	5.09	125.81	119.70
1	2	392	G	C6-N1-C2	-5.09	122.05	125.10
36	1	374	A	C5-C6-N1	-5.09	115.16	117.70
36	1	406	G	O4'-C1'-N9	5.09	112.27	108.20
36	1	695	C	C6-N1-C1'	-5.09	114.69	120.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1212	A	O5'-P-OP2	-5.09	101.12	105.70
36	1	1757	A	C2-N3-C4	-5.09	108.06	110.60
36	1	2294	U	N3-C2-O2	5.09	125.76	122.20
36	1	2309	A	OP1-P-OP2	-5.09	111.97	119.60
36	1	3016	A	N1-C2-N3	5.09	131.84	129.30
36	1	3176	G	C5-N7-C8	-5.09	101.75	104.30
37	3	40	C	OP1-P-OP2	-5.09	111.97	119.60
37	3	43	U	C5-C4-O4	5.09	128.95	125.90
80	6	1401	A	N9-C4-C5	5.09	107.84	105.80
80	6	1796	C	C2-N3-C4	5.09	122.44	119.90
85	5	24	G	C8-N9-C4	5.09	108.44	106.40
85	5	789	A	C5-C6-N6	5.09	127.77	123.70
85	5	958	C	C6-N1-C1'	-5.09	114.69	120.80
85	5	1155	C	O5'-P-OP2	-5.09	101.12	105.70
85	5	1208	U	N1-C2-N3	5.09	117.95	114.90
85	5	1405	U	C5-C4-O4	5.09	128.95	125.90
85	5	1578	C	N3-C2-O2	5.09	125.46	121.90
85	5	1589	A	OP2-P-O3'	5.09	116.40	105.20
85	5	1599	G	OP1-P-O3'	5.09	116.40	105.20
85	5	2246	G	N1-C2-N2	5.09	120.78	116.20
37	7	67	G	C8-N9-C4	-5.09	104.36	106.40
36	1	728	G	N3-C2-N2	-5.09	116.34	119.90
36	1	1545	A	C4-C5-N7	-5.09	108.16	110.70
36	1	2635	A	C5-N7-C8	5.09	106.44	103.90
36	1	3217	C	C6-N1-C1'	-5.09	114.69	120.80
80	6	53	G	OP1-P-OP2	5.09	127.23	119.60
80	6	950	C	C5-C6-N1	-5.09	118.46	121.00
85	5	872	U	OP1-P-OP2	-5.09	111.97	119.60
85	5	881	C	N1-C2-N3	5.09	122.76	119.20
85	5	969	C	C5-C6-N1	-5.09	118.46	121.00
85	5	994	G	C5-C6-O6	5.09	131.65	128.60
85	5	1408	G	O3'-P-O5'	-5.09	94.33	104.00
85	5	1827	C	C2-N1-C1'	-5.09	113.20	118.80
85	5	2176	U	C6-N1-C2	-5.09	117.95	121.00
85	5	2272	G	O4'-C1'-N9	5.09	112.27	108.20
85	5	3004	C	C4-C5-C6	-5.09	114.86	117.40
68	o2	18	LYS	CD-CE-NZ	-5.09	100.00	111.70
1	2	122	U	N3-C4-C5	-5.09	111.55	114.60
1	2	485	A	N1-C6-N6	5.09	121.65	118.60
1	2	814	U	C6-N1-C2	-5.09	117.95	121.00
1	2	1262	C	N1-C2-N3	-5.09	115.64	119.20
1	2	1405	A	OP1-P-OP2	5.09	127.23	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	920	A	C2-N3-C4	5.09	113.14	110.60
36	1	936	A	O4'-C1'-N9	5.09	112.27	108.20
36	1	1120	A	N7-C8-N9	-5.09	111.26	113.80
36	1	1142	G	C4-C5-N7	-5.09	108.77	110.80
36	1	2650	U	C5-C6-N1	-5.09	120.16	122.70
36	1	2759	U	O5'-P-OP2	-5.09	101.12	105.70
36	1	3027	A	C4-C5-N7	-5.09	108.16	110.70
36	1	3108	G	O5'-P-OP1	5.09	116.80	110.70
36	1	3320	A	C4-C5-C6	5.09	119.54	117.00
36	1	3371	G	C2-N3-C4	-5.09	109.36	111.90
38	4	48	A	O5'-P-OP2	-5.09	101.12	105.70
80	6	196	G	C4-C5-C6	-5.09	115.75	118.80
80	6	582	U	N3-C4-O4	5.09	122.96	119.40
80	6	1002	G	C6-C5-N7	-5.09	127.35	130.40
80	6	1050	G	OP1-P-OP2	-5.09	111.97	119.60
80	6	1114	G	N9-C4-C5	5.09	107.43	105.40
80	6	1648	A	O5'-P-OP1	-5.09	101.12	105.70
85	5	148	G	OP2-P-O3'	5.09	116.39	105.20
85	5	492	U	C5-C4-O4	-5.09	122.85	125.90
85	5	539	C	C2-N3-C4	5.09	122.44	119.90
85	5	714	G	N3-C4-C5	5.09	131.14	128.60
85	5	846	A	N3-C4-N9	-5.09	123.33	127.40
85	5	920	A	N1-C2-N3	-5.09	126.76	129.30
85	5	1039	U	C5-C4-O4	-5.09	122.85	125.90
85	5	1605	A	N7-C8-N9	-5.09	111.26	113.80
85	5	2529	A	N1-C2-N3	5.09	131.84	129.30
85	5	2953	U	OP1-P-O3'	5.09	116.39	105.20
38	8	23	U	OP1-P-O3'	5.09	116.39	105.20
38	8	122	U	C5-C4-O4	-5.09	122.85	125.90
38	8	130	C	C2-N3-C4	-5.09	117.36	119.90
44	17	161	VAL	CA-CB-CG1	-5.09	103.27	110.90
1	2	371	G	C4-C5-N7	-5.08	108.77	110.80
1	2	1254	G	O5'-P-OP1	5.08	116.80	110.70
36	1	1013	G	C6-N1-C2	5.08	128.15	125.10
36	1	1092	C	N3-C4-N4	5.08	121.56	118.00
36	1	1608	C	N1-C2-O2	-5.08	115.85	118.90
36	1	1621	A	O5'-P-OP2	-5.08	101.12	105.70
36	1	2597	U	C6-N1-C2	-5.08	117.95	121.00
36	1	2682	C	C5-C4-N4	5.08	123.76	120.20
36	1	2864	A	C5-C6-N6	5.08	127.77	123.70
50	M4	55	ARG	NE-CZ-NH2	-5.08	117.76	120.30
80	6	265	A	C5-N7-C8	-5.08	101.36	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1007	C	O5'-P-OP2	5.08	116.80	110.70
80	6	1114	G	C8-N9-C4	-5.08	104.37	106.40
85	5	2271	A	C4-C5-N7	-5.08	108.16	110.70
85	5	2422	C	C4-C5-C6	5.08	119.94	117.40
85	5	2714	G	C6-N1-C2	-5.08	122.05	125.10
85	5	2935	U	C6-N1-C2	-5.08	117.95	121.00
85	5	3032	A	C6-C5-N7	-5.08	128.74	132.30
1	2	1198	C	N1-C2-N3	5.08	122.76	119.20
1	2	1369	G	N7-C8-N9	-5.08	110.56	113.10
36	1	187	A	N1-C6-N6	5.08	121.65	118.60
36	1	237	G	C5-C6-O6	-5.08	125.55	128.60
36	1	351	A	OP1-P-OP2	5.08	127.23	119.60
36	1	859	G	N1-C2-N3	5.08	126.95	123.90
36	1	1189	C	O5'-P-OP2	-5.08	101.12	105.70
36	1	1417	G	C4-N9-C1'	-5.08	119.89	126.50
36	1	1868	G	OP1-P-O3'	5.08	116.38	105.20
36	1	2441	A	C5-C6-N1	-5.08	115.16	117.70
36	1	2859	U	C6-N1-C2	5.08	124.05	121.00
36	1	3188	G	C8-N9-C1'	5.08	133.61	127.00
36	1	3335	A	N1-C6-N6	5.08	121.65	118.60
80	6	958	U	O4'-C1'-N1	5.08	112.27	108.20
80	6	1200	G	C5-N7-C8	-5.08	101.76	104.30
80	6	1264	G	N1-C2-N3	-5.08	120.85	123.90
80	6	1572	G	C4-C5-N7	5.08	112.83	110.80
80	6	1670	G	C8-N9-C1'	-5.08	120.39	127.00
85	5	96	G	N7-C8-N9	5.08	115.64	113.10
85	5	1037	C	C4-C5-C6	5.08	119.94	117.40
85	5	1825	G	O5'-P-OP1	5.08	116.80	110.70
85	5	3091	A	OP1-P-O3'	5.08	116.39	105.20
76	q0	103	LEU	CB-CG-CD2	-5.08	102.36	111.00
1	2	45	U	C4-C5-C6	5.08	122.75	119.70
1	2	76	A	C2-N3-C4	-5.08	108.06	110.60
1	2	114	C	OP1-P-O3'	5.08	116.38	105.20
1	2	408	C	N3-C4-C5	5.08	123.93	121.90
1	2	761	G	N1-C6-O6	5.08	122.95	119.90
1	2	1183	G	N3-C2-N2	-5.08	116.34	119.90
1	2	1728	G	C4-N9-C1'	5.08	133.11	126.50
36	1	579	G	C5-N7-C8	-5.08	101.76	104.30
36	1	1101	G	N3-C4-C5	-5.08	126.06	128.60
36	1	1563	C	N1-C2-O2	5.08	121.95	118.90
36	1	1813	A	C6-N1-C2	-5.08	115.55	118.60
36	1	2192	C	OP1-P-OP2	-5.08	111.98	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2194	G	C8-N9-C4	-5.08	104.37	106.40
36	1	2590	A	C2-N3-C4	5.08	113.14	110.60
38	4	128	U	N1-C2-O2	5.08	126.36	122.80
80	6	119	A	N3-C4-N9	-5.08	123.33	127.40
80	6	124	A	N1-C6-N6	5.08	121.65	118.60
80	6	403	G	OP1-P-OP2	5.08	127.22	119.60
80	6	800	U	N3-C4-C5	-5.08	111.55	114.60
80	6	815	G	C5-N7-C8	-5.08	101.76	104.30
85	5	816	A	O4'-C1'-N9	5.08	112.27	108.20
85	5	984	G	C8-N9-C4	5.08	108.43	106.40
85	5	1301	A	C5-C6-N1	-5.08	115.16	117.70
85	5	2145	A	C8-N9-C4	-5.08	103.77	105.80
85	5	2240	G	N7-C8-N9	-5.08	110.56	113.10
85	5	2985	C	O3'-P-O5'	-5.08	94.34	104.00
85	5	3356	G	C5-N7-C8	5.08	106.84	104.30
38	8	87	G	C5-C6-O6	5.08	131.65	128.60
1	2	257	A	OP1-P-OP2	-5.08	111.98	119.60
1	2	474	A	C5-N7-C8	-5.08	101.36	103.90
1	2	1527	U	OP1-P-O3'	5.08	116.38	105.20
1	2	1542	A	N9-C4-C5	-5.08	103.77	105.80
36	1	1414	G	N1-C2-N3	5.08	126.95	123.90
36	1	2654	C	N3-C4-C5	-5.08	119.87	121.90
36	1	3297	U	C4-C5-C6	5.08	122.75	119.70
80	6	514	G	C8-N9-C4	5.08	108.43	106.40
80	6	561	G	C5-C6-O6	-5.08	125.55	128.60
80	6	1712	A	C5-N7-C8	5.08	106.44	103.90
11	s9	69	ARG	NE-CZ-NH1	5.08	122.84	120.30
85	5	336	A	OP2-P-O3'	5.08	116.38	105.20
85	5	587	U	C4-C5-C6	-5.08	116.65	119.70
85	5	715	A	P-O3'-C3'	5.08	125.80	119.70
85	5	1116	G	N9-C4-C5	5.08	107.43	105.40
85	5	1209	G	C8-N9-C4	5.08	108.43	106.40
85	5	1468	A	OP1-P-OP2	5.08	127.22	119.60
85	5	1584	U	C5-C6-N1	5.08	125.24	122.70
85	5	2553	U	C2-N1-C1'	5.08	123.80	117.70
1	2	20	G	O5'-P-OP1	-5.08	101.13	105.70
1	2	336	G	N1-C6-O6	-5.08	116.85	119.90
1	2	940	G	N1-C2-N2	5.08	120.77	116.20
1	2	1351	G	C8-N9-C4	-5.08	104.37	106.40
1	2	1417	U	C2-N1-C1'	5.08	123.80	117.70
1	2	1538	A	N1-C2-N3	5.08	131.84	129.30
1	2	1634	A	C4-C5-C6	5.08	119.54	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1768	U	OP1-P-O3'	5.08	116.37	105.20
36	1	64	G	N7-C8-N9	5.08	115.64	113.10
36	1	374	A	C6-N1-C2	5.08	121.65	118.60
36	1	395	A	C2-N3-C4	-5.08	108.06	110.60
36	1	570	A	C6-C5-N7	-5.08	128.74	132.30
36	1	806	A	C5-C6-N1	-5.08	115.16	117.70
36	1	864	G	C4-C5-C6	5.08	121.85	118.80
36	1	1434	G	P-O3'-C3'	5.08	125.79	119.70
36	1	2674	A	C5-C6-N1	5.08	120.24	117.70
36	1	2730	G	N3-C4-C5	5.08	131.14	128.60
36	1	3115	C	C5-C6-N1	5.08	123.54	121.00
36	1	3231	U	N3-C4-O4	-5.08	115.85	119.40
37	3	95	A	OP1-P-OP2	-5.08	111.98	119.60
80	6	155	U	C5-C6-N1	-5.08	120.16	122.70
80	6	1103	U	N3-C4-C5	5.08	117.65	114.60
80	6	1399	C	N1-C2-N3	-5.08	115.64	119.20
85	5	87	U	C5-C4-O4	-5.08	122.85	125.90
85	5	854	G	C5-C6-O6	5.08	131.65	128.60
85	5	942	U	P-O3'-C3'	-5.08	113.61	119.70
85	5	971	G	C6-N1-C2	-5.08	122.05	125.10
85	5	1211	U	C6-N1-C2	5.08	124.05	121.00
85	5	1219	C	N1-C2-O2	5.08	121.95	118.90
85	5	1264	G	N7-C8-N9	-5.08	110.56	113.10
85	5	1319	G	OP2-P-O3'	5.08	116.37	105.20
85	5	1505	C	N1-C2-N3	5.08	122.75	119.20
85	5	1604	G	OP1-P-O3'	-5.08	94.03	105.20
85	5	1714	A	C8-N9-C4	-5.08	103.77	105.80
85	5	2757	U	C5-C4-O4	5.08	128.95	125.90
85	5	3180	A	N3-C4-C5	-5.08	123.25	126.80
85	5	3275	U	O4'-C1'-N1	5.08	112.26	108.20
1	2	341	A	N1-C2-N3	5.08	131.84	129.30
36	1	839	C	C6-N1-C1'	5.08	126.89	120.80
36	1	974	G	N3-C4-N9	5.08	129.05	126.00
36	1	2574	G	C4-C5-N7	-5.08	108.77	110.80
38	4	82	U	O5'-P-OP1	5.08	116.79	110.70
80	6	1477	G	N1-C2-N3	5.08	126.95	123.90
80	6	1749	A	C6-C5-N7	-5.08	128.75	132.30
85	5	336	A	C2-N3-C4	5.08	113.14	110.60
85	5	408	A	C6-C5-N7	5.08	135.85	132.30
85	5	2411	U	N3-C4-O4	5.08	122.95	119.40
85	5	2413	A	C5-N7-C8	-5.08	101.36	103.90
85	5	2839	G	N1-C2-N2	5.08	120.77	116.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2898	G	N1-C2-N2	5.08	120.77	116.20
1	2	58	U	C6-N1-C2	5.08	124.05	121.00
1	2	1396	U	C2-N3-C4	-5.08	123.95	127.00
36	1	681	U	C6-N1-C1'	-5.08	114.09	121.20
36	1	1355	A	C6-C5-N7	5.08	135.85	132.30
36	1	1358	C	C5-C4-N4	5.08	123.75	120.20
36	1	1482	A	C5-C6-N1	5.08	120.24	117.70
36	1	1772	U	C5-C6-N1	-5.08	120.16	122.70
36	1	1774	C	C4-C5-C6	-5.08	114.86	117.40
36	1	1801	U	C2-N1-C1'	5.08	123.79	117.70
36	1	2124	G	C4-C5-N7	5.08	112.83	110.80
36	1	2730	G	OP2-P-O3'	5.08	116.37	105.20
36	1	3100	U	C5-C6-N1	5.08	125.24	122.70
36	1	3201	C	C6-N1-C1'	5.08	126.89	120.80
36	1	3345	G	O5'-P-OP2	5.08	116.79	110.70
38	4	69	U	N3-C2-O2	5.08	125.75	122.20
47	M0	102	MET	CG-SD-CE	5.08	108.32	100.20
80	6	10	G	C5-C6-O6	-5.08	125.56	128.60
80	6	576	G	N1-C2-N2	5.08	120.77	116.20
80	6	756	A	C5-C6-N1	5.08	120.24	117.70
80	6	1074	G	C6-C5-N7	-5.08	127.36	130.40
85	5	1783	U	C5-C6-N1	-5.08	120.16	122.70
85	5	2416	U	C2-N1-C1'	5.08	123.79	117.70
85	5	2568	C	N3-C4-C5	5.08	123.93	121.90
85	5	2590	A	C8-N9-C4	-5.08	103.77	105.80
85	5	2808	A	OP2-P-O3'	5.08	116.37	105.20
85	5	2885	C	OP1-P-OP2	-5.08	111.99	119.60
85	5	2974	U	OP1-P-OP2	-5.08	111.99	119.60
85	5	3325	G	N9-C4-C5	-5.08	103.37	105.40
37	7	60	G	OP1-P-OP2	5.08	127.21	119.60
37	7	62	U	OP1-P-O3'	5.08	116.37	105.20
42	l5	21	ARG	C-N-CA	-5.08	109.01	121.70
48	m1	9	MET	CG-SD-CE	5.08	108.32	100.20
1	2	32	U	N1-C2-N3	5.07	117.94	114.90
1	2	804	U	C4-C5-C6	-5.07	116.66	119.70
1	2	1141	C	N3-C4-C5	-5.07	119.87	121.90
1	2	1224	G	C4-C5-N7	5.07	112.83	110.80
36	1	586	C	N3-C4-N4	5.07	121.55	118.00
36	1	723	U	C4-C5-C6	5.07	122.74	119.70
36	1	926	A	C5-C6-N6	5.07	127.76	123.70
36	1	1098	A	N9-C4-C5	5.07	107.83	105.80
36	1	2130	G	C5-N7-C8	-5.07	101.76	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2925	C	N3-C4-N4	-5.07	114.45	118.00
37	3	88	G	C8-N9-C1'	-5.07	120.40	127.00
43	L6	64	LEU	CA-CB-CG	5.07	126.97	115.30
80	6	25	C	OP2-P-O3'	5.07	116.36	105.20
80	6	304	U	C5-C6-N1	-5.07	120.16	122.70
80	6	587	C	C2-N1-C1'	-5.07	113.22	118.80
80	6	1752	U	C5-C4-O4	5.07	128.94	125.90
10	s8	14	THR	CA-CB-CG2	-5.07	105.30	112.40
85	5	300	G	N9-C4-C5	5.07	107.43	105.40
85	5	324	A	OP1-P-OP2	-5.07	111.99	119.60
85	5	332	C	OP2-P-O3'	5.07	116.36	105.20
85	5	362	U	C5-C6-N1	5.07	125.24	122.70
85	5	536	U	N3-C2-O2	-5.07	118.65	122.20
85	5	1400	G	C6-C5-N7	-5.07	127.36	130.40
85	5	1436	U	N3-C2-O2	-5.07	118.65	122.20
85	5	1540	U	C2-N3-C4	-5.07	123.95	127.00
85	5	1667	A	C2-N3-C4	-5.07	108.06	110.60
85	5	1833	G	C5-C6-N1	5.07	114.04	111.50
85	5	1910	A	OP1-P-O3'	-5.07	94.04	105.20
85	5	2130	G	C5-C6-O6	5.07	131.64	128.60
85	5	2590	A	N3-C4-C5	5.07	130.35	126.80
85	5	2720	G	C8-N9-C4	-5.07	104.37	106.40
85	5	3177	G	C8-N9-C4	5.07	108.43	106.40
1	2	1022	A	N1-C6-N6	-5.07	115.56	118.60
1	2	1535	U	N3-C4-C5	-5.07	111.56	114.60
36	1	388	G	C5-C6-O6	-5.07	125.56	128.60
36	1	846	A	C4-C5-C6	5.07	119.54	117.00
36	1	3000	A	C5-C6-N6	5.07	127.76	123.70
38	4	151	C	C6-N1-C1'	5.07	126.89	120.80
80	6	344	A	C6-N1-C2	5.07	121.64	118.60
85	5	429	U	N1-C2-N3	-5.07	111.86	114.90
85	5	1006	A	C6-N1-C2	-5.07	115.56	118.60
85	5	1121	U	N3-C4-O4	-5.07	115.85	119.40
85	5	1154	A	N9-C4-C5	5.07	107.83	105.80
85	5	1923	C	C6-N1-C2	-5.07	118.27	120.30
85	5	2364	G	C4-C5-N7	5.07	112.83	110.80
85	5	2855	U	C5-C4-O4	-5.07	122.86	125.90
85	5	3217	C	C5-C6-N1	-5.07	118.46	121.00
38	8	104	A	O5'-P-OP2	5.07	116.79	110.70
1	2	632	U	OP2-P-O3'	5.07	116.36	105.20
1	2	888	A	C5-C6-N1	5.07	120.24	117.70
1	2	1060	C	C4-C5-C6	5.07	119.94	117.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1422	C	C5-C4-N4	5.07	123.75	120.20
1	2	1756	C	N3-C4-N4	5.07	121.55	118.00
36	1	301	G	C4-C5-N7	-5.07	108.77	110.80
36	1	610	G	C8-N9-C4	-5.07	104.37	106.40
36	1	786	A	C4-C5-N7	-5.07	108.17	110.70
36	1	877	C	N1-C2-N3	5.07	122.75	119.20
36	1	959	C	N3-C4-C5	5.07	123.93	121.90
36	1	1213	G	C4-C5-C6	-5.07	115.76	118.80
36	1	1308	A	C6-C5-N7	-5.07	128.75	132.30
36	1	1370	G	OP1-P-O3'	-5.07	94.05	105.20
36	1	1688	U	OP1-P-O3'	5.07	116.36	105.20
36	1	1695	U	C5-C4-O4	5.07	128.94	125.90
36	1	1897	G	OP2-P-O3'	5.07	116.35	105.20
36	1	2880	U	OP1-P-O3'	5.07	116.35	105.20
36	1	3277	U	C6-N1-C1'	-5.07	114.10	121.20
80	6	180	A	N9-C4-C5	-5.07	103.77	105.80
80	6	289	U	N1-C2-O2	-5.07	119.25	122.80
80	6	1539	G	C5-N7-C8	-5.07	101.77	104.30
80	6	1609	U	N1-C2-O2	-5.07	119.25	122.80
85	5	515	C	N1-C2-N3	-5.07	115.65	119.20
85	5	525	C	N1-C2-N3	5.07	122.75	119.20
85	5	1486	G	N9-C4-C5	5.07	107.43	105.40
85	5	1526	U	N3-C4-C5	-5.07	111.56	114.60
85	5	2253	G	C8-N9-C4	-5.07	104.37	106.40
85	5	2793	G	N1-C2-N3	5.07	126.94	123.90
37	7	84	A	O4'-C1'-N9	-5.07	104.14	108.20
38	8	61	A	N1-C2-N3	5.07	131.84	129.30
38	8	95	G	N1-C6-O6	-5.07	116.86	119.90
40	l3	7	GLU	CG-CD-OE2	5.07	128.44	118.30
1	2	489	C	C5-C6-N1	5.07	123.53	121.00
1	2	1226	G	N1-C6-O6	-5.07	116.86	119.90
1	2	1642	A	O5'-P-OP1	-5.07	101.14	105.70
36	1	567	G	C4-C5-C6	5.07	121.84	118.80
36	1	724	U	N3-C2-O2	5.07	125.75	122.20
36	1	798	G	C5-N7-C8	-5.07	101.77	104.30
36	1	1523	U	OP1-P-OP2	-5.07	112.00	119.60
36	1	1831	U	N1-C2-O2	-5.07	119.25	122.80
36	1	2838	A	O5'-P-OP2	-5.07	101.14	105.70
37	3	45	A	OP1-P-OP2	5.07	127.20	119.60
80	6	1096	C	C4-C5-C6	-5.07	114.86	117.40
85	5	1430	U	N1-C2-N3	-5.07	111.86	114.90
85	5	2247	G	C4-C5-N7	-5.07	108.77	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2703	A	OP1-P-OP2	5.07	127.20	119.60
85	5	3151	U	O5'-P-OP1	5.07	116.78	110.70
1	2	499	U	C6-N1-C2	5.07	124.04	121.00
1	2	959	G	N1-C2-N3	5.07	126.94	123.90
1	2	1096	A	N1-C6-N6	5.07	121.64	118.60
1	2	1285	U	O5'-P-OP2	5.07	116.78	110.70
1	2	1294	U	N3-C4-O4	-5.07	115.85	119.40
36	1	49	A	N9-C4-C5	-5.07	103.77	105.80
36	1	688	G	N3-C2-N2	-5.07	116.35	119.90
36	1	1544	G	OP2-P-O3'	5.07	116.35	105.20
36	1	1770	G	C4-C5-C6	5.07	121.84	118.80
36	1	2412	G	N9-C4-C5	5.07	107.43	105.40
36	1	2710	C	C5-C4-N4	-5.07	116.65	120.20
38	4	47	C	N1-C2-N3	5.07	122.75	119.20
80	6	65	A	C5-N7-C8	-5.07	101.37	103.90
80	6	360	A	C6-C5-N7	5.07	135.85	132.30
80	6	778	G	N7-C8-N9	-5.07	110.57	113.10
80	6	1661	U	P-O3'-C3'	-5.07	113.62	119.70
85	5	112	U	OP1-P-OP2	5.07	127.20	119.60
85	5	1327	C	C4-C5-C6	-5.07	114.87	117.40
85	5	1896	A	C5-N7-C8	-5.07	101.37	103.90
85	5	2121	G	C8-N9-C1'	-5.07	120.41	127.00
85	5	2330	C	C2-N1-C1'	-5.07	113.23	118.80
85	5	2348	A	OP1-P-O3'	5.07	116.35	105.20
85	5	2414	G	C5-C6-O6	-5.07	125.56	128.60
85	5	2929	C	C4-C5-C6	5.07	119.93	117.40
85	5	3083	G	N3-C4-C5	5.07	131.13	128.60
37	7	23	A	OP1-P-O3'	5.07	116.35	105.20
57	n1	43	LYS	CD-CE-NZ	5.07	123.35	111.70
67	o1	20	LEU	CB-CG-CD2	-5.07	102.39	111.00
1	2	759	G	C5-C6-N1	-5.07	108.97	111.50
1	2	771	A	C5-N7-C8	5.07	106.43	103.90
1	2	862	G	C5-C6-O6	-5.07	125.56	128.60
1	2	881	A	C5-N7-C8	5.07	106.43	103.90
1	2	1498	A	C2-N3-C4	5.07	113.13	110.60
1	2	1724	U	C5-C6-N1	-5.07	120.17	122.70
36	1	421	G	OP1-P-O3'	5.07	116.34	105.20
36	1	815	G	C5-C6-N1	-5.07	108.97	111.50
36	1	867	G	C8-N9-C1'	-5.07	120.42	127.00
36	1	905	U	C6-N1-C2	-5.07	117.96	121.00
36	1	983	A	N1-C6-N6	5.07	121.64	118.60
36	1	1037	C	C5-C6-N1	5.07	123.53	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1063	G	N3-C2-N2	5.07	123.45	119.90
36	1	1595	U	C5-C4-O4	-5.07	122.86	125.90
36	1	1729	A	C4-C5-C6	5.07	119.53	117.00
36	1	2106	A	N7-C8-N9	-5.07	111.27	113.80
36	1	2410	U	C2-N1-C1'	5.07	123.78	117.70
36	1	2554	A	C5-N7-C8	5.07	106.43	103.90
36	1	2649	A	O5'-P-OP1	-5.07	101.14	105.70
36	1	3168	A	C2-N3-C4	-5.07	108.07	110.60
36	1	3271	G	C8-N9-C4	5.07	108.43	106.40
36	1	3391	A	N7-C8-N9	5.07	116.33	113.80
37	3	17	A	O5'-P-OP1	5.07	116.78	110.70
37	3	61	G	C2-N3-C4	-5.07	109.37	111.90
38	4	41	A	N1-C2-N3	5.07	131.83	129.30
80	6	275	C	O5'-P-OP1	5.07	116.78	110.70
80	6	762	A	C8-N9-C4	-5.07	103.77	105.80
80	6	937	C	C4-C5-C6	5.07	119.93	117.40
80	6	1630	U	N3-C4-C5	-5.07	111.56	114.60
85	5	62	A	N3-C4-C5	5.07	130.35	126.80
85	5	280	U	N3-C4-O4	5.07	122.95	119.40
85	5	512	U	N3-C2-O2	-5.07	118.65	122.20
85	5	1265	U	OP1-P-OP2	5.07	127.20	119.60
85	5	1685	C	C6-N1-C2	-5.07	118.27	120.30
85	5	1712	G	C2-N3-C4	-5.07	109.37	111.90
85	5	2850	G	O3'-P-O5'	-5.07	94.37	104.00
85	5	3030	G	C4-C5-N7	-5.07	108.77	110.80
85	5	3304	U	N1-C2-N3	5.07	117.94	114.90
1	2	447	U	N3-C4-C5	-5.06	111.56	114.60
1	2	1175	C	N3-C4-C5	-5.06	119.88	121.90
36	1	786	A	C3'-C2'-C1'	-5.06	97.45	101.50
36	1	907	G	N3-C4-C5	-5.06	126.07	128.60
36	1	1431	G	C4-C5-N7	-5.06	108.77	110.80
36	1	1525	G	N3-C2-N2	-5.06	116.36	119.90
36	1	2672	G	C5-C6-N1	-5.06	108.97	111.50
80	6	326	G	C4-C5-N7	-5.06	108.77	110.80
80	6	618	U	C6-N1-C2	-5.06	117.96	121.00
80	6	1081	A	C5-N7-C8	-5.06	101.37	103.90
80	6	1318	G	N3-C4-N9	-5.06	122.96	126.00
85	5	106	A	O4'-C1'-N9	-5.06	104.15	108.20
85	5	375	A	C8-N9-C4	-5.06	103.77	105.80
85	5	2533	G	N9-C4-C5	-5.06	103.37	105.40
38	8	80	A	N1-C2-N3	-5.06	126.77	129.30
1	2	484	C	N1-C2-O2	5.06	121.94	118.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	545	A	P-O3'-C3'	5.06	125.78	119.70
1	2	621	A	C5-C6-N6	-5.06	119.65	123.70
1	2	1028	C	C2-N3-C4	-5.06	117.37	119.90
1	2	1612	G	C6-N1-C2	-5.06	122.06	125.10
36	1	184	U	OP1-P-O3'	5.06	116.34	105.20
36	1	335	G	O5'-P-OP1	-5.06	101.14	105.70
36	1	982	C	C2-N1-C1'	-5.06	113.23	118.80
36	1	1101	G	C2-N3-C4	5.06	114.43	111.90
36	1	1172	G	N3-C4-N9	-5.06	122.96	126.00
36	1	1694	U	C6-N1-C1'	-5.06	114.11	121.20
36	1	1893	A	N3-C4-C5	5.06	130.34	126.80
36	1	2170	U	OP1-P-O3'	5.06	116.34	105.20
36	1	2246	G	C6-C5-N7	5.06	133.44	130.40
36	1	2255	A	C6-N1-C2	-5.06	115.56	118.60
36	1	2713	U	C6-N1-C1'	-5.06	114.11	121.20
36	1	2750	U	N1-C2-O2	-5.06	119.26	122.80
36	1	2894	C	N1-C2-N3	5.06	122.74	119.20
36	1	2920	U	C6-N1-C1'	-5.06	114.11	121.20
36	1	2975	U	OP1-P-OP2	5.06	127.19	119.60
80	6	313	U	C5-C6-N1	-5.06	120.17	122.70
80	6	971	A	N9-C4-C5	5.06	107.83	105.80
80	6	1542	G	C2-N3-C4	-5.06	109.37	111.90
10	s8	169	ILE	CG1-CB-CG2	-5.06	100.26	111.40
85	5	285	A	O5'-P-OP2	-5.06	101.14	105.70
85	5	295	A	OP2-P-O3'	5.06	116.34	105.20
85	5	386	A	C4-C5-C6	5.06	119.53	117.00
85	5	438	A	N1-C2-N3	-5.06	126.77	129.30
85	5	710	A	N7-C8-N9	5.06	116.33	113.80
85	5	810	A	N1-C2-N3	5.06	131.83	129.30
85	5	854	G	C5-C6-N1	-5.06	108.97	111.50
85	5	978	G	O5'-P-OP2	-5.06	101.14	105.70
85	5	1003	A	C4-C5-C6	5.06	119.53	117.00
85	5	1248	C	C5-C4-N4	5.06	123.74	120.20
85	5	1605	A	O5'-P-OP1	5.06	116.77	110.70
85	5	2262	A	N7-C8-N9	-5.06	111.27	113.80
85	5	3276	G	C4-C5-C6	-5.06	115.76	118.80
37	7	1	G	N3-C4-N9	5.06	129.04	126.00
1	2	431	C	C6-N1-C1'	5.06	126.87	120.80
1	2	646	C	C6-N1-C2	-5.06	118.28	120.30
1	2	764	U	N1-C2-O2	5.06	126.34	122.80
1	2	1256	G	O5'-P-OP2	5.06	116.77	110.70
1	2	1738	A	N1-C6-N6	5.06	121.64	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	420	G	O4'-C1'-N9	5.06	112.25	108.20
36	1	424	G	C8-N9-C1'	-5.06	120.42	127.00
36	1	783	A	N1-C2-N3	5.06	131.83	129.30
36	1	1297	C	C6-N1-C2	5.06	122.33	120.30
36	1	1354	G	O4'-C1'-N9	-5.06	104.15	108.20
36	1	1479	U	N3-C2-O2	5.06	125.74	122.20
36	1	2145	A	O5'-P-OP1	-5.06	101.14	105.70
36	1	2959	C	C5-C6-N1	5.06	123.53	121.00
71	O5	80	LEU	CB-CG-CD2	-5.06	102.40	111.00
80	6	165	G	C4-C5-C6	5.06	121.84	118.80
80	6	418	G	C5-N7-C8	-5.06	101.77	104.30
80	6	1165	G	N3-C4-C5	5.06	131.13	128.60
80	6	1630	U	O5'-P-OP1	5.06	116.77	110.70
3	s1	217	LEU	CA-CB-CG	5.06	126.94	115.30
85	5	242	C	OP1-P-OP2	-5.06	112.01	119.60
85	5	751	A	C5-C6-N1	-5.06	115.17	117.70
85	5	1195	A	C5-N7-C8	-5.06	101.37	103.90
85	5	1592	G	OP2-P-O3'	5.06	116.33	105.20
85	5	2180	G	N9-C4-C5	-5.06	103.38	105.40
85	5	3264	G	N3-C2-N2	-5.06	116.36	119.90
1	2	6	G	N7-C8-N9	5.06	115.63	113.10
1	2	199	G	N7-C8-N9	-5.06	110.57	113.10
1	2	214	G	C8-N9-C4	-5.06	104.38	106.40
36	1	347	G	C2-N3-C4	-5.06	109.37	111.90
36	1	1164	G	C5-C6-N1	5.06	114.03	111.50
36	1	2128	C	C5-C6-N1	-5.06	118.47	121.00
36	1	2696	A	C5-N7-C8	-5.06	101.37	103.90
36	1	2850	G	C8-N9-C4	5.06	108.42	106.40
36	1	2993	G	N3-C4-N9	5.06	129.04	126.00
36	1	3017	A	N1-C6-N6	-5.06	115.56	118.60
59	N3	136	VAL	CG1-CB-CG2	-5.06	102.80	110.90
80	6	527	A	C6-N1-C2	-5.06	115.56	118.60
80	6	548	G	N7-C8-N9	5.06	115.63	113.10
80	6	996	U	C6-N1-C2	-5.06	117.96	121.00
85	5	423	A	C6-C5-N7	-5.06	128.76	132.30
85	5	1395	G	C4-C5-N7	5.06	112.82	110.80
85	5	2151	C	N3-C2-O2	5.06	125.44	121.90
85	5	2154	U	O5'-P-OP2	-5.06	101.15	105.70
85	5	2610	G	N7-C8-N9	5.06	115.63	113.10
85	5	2960	C	C5-C4-N4	5.06	123.74	120.20
85	5	3112	G	N1-C2-N2	5.06	120.75	116.20
55	m9	128	LYS	CD-CE-NZ	-5.06	100.06	111.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
70	o4	60	ARG	NE-CZ-NH1	-5.06	117.77	120.30
1	2	300	A	C4-C5-N7	-5.06	108.17	110.70
1	2	347	G	C6-N1-C2	5.06	128.13	125.10
1	2	760	C	O5'-P-OP1	5.06	116.77	110.70
1	2	1159	G	C5-C6-N1	-5.06	108.97	111.50
1	2	1191	A	O5'-P-OP2	5.06	116.77	110.70
1	2	1439	C	OP2-P-O3'	5.06	116.32	105.20
36	1	210	U	P-O3'-C3'	5.06	125.77	119.70
36	1	388	G	C2-N3-C4	-5.06	109.37	111.90
36	1	727	G	C8-N9-C1'	-5.06	120.43	127.00
36	1	1103	A	O5'-P-OP1	-5.06	101.15	105.70
36	1	1377	G	C6-C5-N7	-5.06	127.36	130.40
36	1	1439	U	N3-C4-C5	-5.06	111.57	114.60
36	1	1670	C	C6-N1-C2	5.06	122.32	120.30
36	1	2585	G	C5-C6-N1	5.06	114.03	111.50
36	1	2685	C	C4-C5-C6	5.06	119.93	117.40
36	1	2721	A	C5-N7-C8	-5.06	101.37	103.90
36	1	3223	A	O5'-P-OP1	5.06	116.77	110.70
36	1	3368	U	N1-C2-O2	-5.06	119.26	122.80
80	6	406	U	OP1-P-OP2	-5.06	112.01	119.60
80	6	451	A	C6-C5-N7	-5.06	128.76	132.30
80	6	697	C	C5-C6-N1	5.06	123.53	121.00
80	6	1184	A	C5-C6-N6	5.06	127.75	123.70
85	5	378	A	C2-N3-C4	-5.06	108.07	110.60
85	5	584	G	O5'-P-OP2	-5.06	101.15	105.70
85	5	693	A	N3-C4-C5	-5.06	123.26	126.80
85	5	1020	G	C5-N7-C8	-5.06	101.77	104.30
85	5	1196	C	OP2-P-O3'	-5.06	94.07	105.20
85	5	1502	C	C5-C4-N4	5.06	123.74	120.20
85	5	1583	A	C6-N1-C2	-5.06	115.57	118.60
85	5	2621	G	N9-C4-C5	5.06	107.42	105.40
85	5	2904	U	O5'-P-OP2	-5.06	101.15	105.70
1	2	22	A	OP1-P-O3'	5.06	116.32	105.20
1	2	334	G	C5-N7-C8	-5.06	101.77	104.30
1	2	621	A	C5-N7-C8	-5.06	101.37	103.90
36	1	1066	G	N9-C4-C5	5.06	107.42	105.40
36	1	2773	C	C4-C5-C6	5.06	119.93	117.40
36	1	2912	G	N3-C4-N9	5.06	129.03	126.00
49	M3	10	LEU	CB-CG-CD1	-5.06	102.41	111.00
59	N3	15	LEU	CA-CB-CG	-5.06	103.67	115.30
80	6	39	A	N9-C4-C5	5.06	107.82	105.80
80	6	171	A	N7-C8-N9	-5.06	111.27	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1036	A	O5'-P-OP2	-5.06	101.15	105.70
85	5	1088	U	N1-C2-N3	5.06	117.93	114.90
85	5	1479	U	N1-C2-O2	5.06	126.34	122.80
85	5	1715	A	N7-C8-N9	5.06	116.33	113.80
85	5	2216	G	C4-C5-N7	-5.06	108.78	110.80
85	5	2702	A	N3-C4-N9	-5.06	123.36	127.40
85	5	2746	A	N7-C8-N9	5.06	116.33	113.80
85	5	3029	A	C2-N3-C4	-5.06	108.07	110.60
85	5	3208	G	C5-N7-C8	-5.06	101.77	104.30
37	7	34	C	N1-C2-O2	-5.06	115.87	118.90
37	7	47	C	O5'-P-OP2	-5.06	101.15	105.70
1	2	254	A	O5'-P-OP2	-5.05	101.15	105.70
1	2	835	C	N3-C4-C5	5.05	123.92	121.90
1	2	881	A	N1-C6-N6	-5.05	115.57	118.60
1	2	1630	U	N1-C2-O2	-5.05	119.26	122.80
1	2	1642	A	C2-N3-C4	-5.05	108.07	110.60
36	1	1129	A	OP1-P-O3'	5.05	116.32	105.20
36	1	1383	G	C2-N3-C4	-5.05	109.37	111.90
36	1	2222	A	N3-C4-N9	-5.05	123.36	127.40
36	1	2507	C	C5-C6-N1	5.05	123.53	121.00
36	1	2612	U	OP1-P-O3'	5.05	116.32	105.20
36	1	2745	G	N1-C2-N3	5.05	126.93	123.90
36	1	3023	U	C2-N1-C1'	5.05	123.77	117.70
36	1	3089	C	N1-C2-N3	5.05	122.74	119.20
36	1	3160	U	C6-N1-C2	-5.05	117.97	121.00
36	1	3170	A	N1-C2-N3	5.05	131.83	129.30
37	3	62	U	C2-N3-C4	-5.05	123.97	127.00
80	6	980	G	N7-C8-N9	5.05	115.63	113.10
85	5	113	C	N3-C2-O2	5.05	125.44	121.90
85	5	570	A	C2-N3-C4	5.05	113.13	110.60
85	5	728	G	OP1-P-O3'	-5.05	94.08	105.20
85	5	1484	U	N3-C4-O4	5.05	122.94	119.40
85	5	1621	A	C6-N1-C2	5.05	121.63	118.60
85	5	1917	C	N1-C2-O2	-5.05	115.87	118.90
85	5	2117	A	C4-C5-C6	5.05	119.53	117.00
85	5	2870	C	N3-C2-O2	5.05	125.44	121.90
85	5	3024	A	C5-N7-C8	-5.05	101.37	103.90
85	5	3032	A	N1-C2-N3	5.05	131.83	129.30
85	5	3086	A	C8-N9-C4	5.05	107.82	105.80
85	5	3088	G	C5-C6-O6	5.05	131.63	128.60
85	5	3174	A	C5-N7-C8	5.05	106.43	103.90
1	2	1156	C	N3-C4-C5	5.05	123.92	121.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	96	G	C4-N9-C1'	-5.05	119.93	126.50
36	1	158	G	C6-N1-C2	-5.05	122.07	125.10
36	1	2214	A	C5-N7-C8	-5.05	101.37	103.90
36	1	2753	G	N1-C2-N3	-5.05	120.87	123.90
37	3	83	U	C2-N3-C4	-5.05	123.97	127.00
85	5	364	G	N7-C8-N9	5.05	115.63	113.10
85	5	1514	G	C4-N9-C1'	5.05	133.07	126.50
85	5	1607	U	N3-C2-O2	-5.05	118.66	122.20
85	5	1786	G	C5-N7-C8	-5.05	101.77	104.30
85	5	2115	G	OP1-P-OP2	5.05	127.18	119.60
85	5	2135	U	C6-N1-C2	-5.05	117.97	121.00
38	8	56	G	N3-C4-N9	-5.05	122.97	126.00
1	2	313	U	N1-C2-N3	5.05	117.93	114.90
1	2	469	C	O5'-P-OP2	5.05	116.76	110.70
1	2	895	U	N3-C4-O4	5.05	122.94	119.40
1	2	1110	G	C4-C5-C6	5.05	121.83	118.80
1	2	1487	G	C5-N7-C8	-5.05	101.77	104.30
36	1	725	G	C5-C6-O6	-5.05	125.57	128.60
36	1	1332	A	O5'-P-OP1	-5.05	101.15	105.70
36	1	1335	C	C5-C4-N4	-5.05	116.66	120.20
36	1	1859	A	OP2-P-O3'	5.05	116.31	105.20
36	1	2164	A	N1-C2-N3	5.05	131.82	129.30
36	1	2872	A	C5-N7-C8	-5.05	101.37	103.90
36	1	3108	G	C4-C5-N7	-5.05	108.78	110.80
36	1	3191	G	OP1-P-OP2	-5.05	112.02	119.60
36	1	3376	A	C4-C5-C6	5.05	119.53	117.00
36	1	3376	A	C6-C5-N7	-5.05	128.76	132.30
37	3	115	G	C5-C6-O6	-5.05	125.57	128.60
38	4	93	U	C4-C5-C6	5.05	122.73	119.70
80	6	61	A	N1-C6-N6	-5.05	115.57	118.60
80	6	240	U	OP2-P-O3'	5.05	116.31	105.20
80	6	285	G	C6-C5-N7	-5.05	127.37	130.40
80	6	1351	G	N1-C6-O6	5.05	122.93	119.90
85	5	232	G	N3-C2-N2	5.05	123.44	119.90
85	5	695	C	O5'-P-OP2	5.05	116.76	110.70
85	5	738	A	N7-C8-N9	5.05	116.33	113.80
85	5	975	C	N1-C2-O2	-5.05	115.87	118.90
85	5	1211	U	OP2-P-O3'	5.05	116.31	105.20
85	5	1387	G	C2-N3-C4	-5.05	109.38	111.90
85	5	1835	A	N1-C6-N6	5.05	121.63	118.60
85	5	2198	A	C2-N3-C4	-5.05	108.07	110.60
85	5	2396	G	C4-C5-N7	5.05	112.82	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2425	G	C5-C6-O6	-5.05	125.57	128.60
85	5	2559	U	OP1-P-OP2	5.05	127.18	119.60
85	5	2804	A	C5-C6-N1	5.05	120.23	117.70
85	5	2875	U	C2-N3-C4	5.05	130.03	127.00
85	5	3153	U	C6-N1-C1'	-5.05	114.13	121.20
1	2	438	A	OP1-P-OP2	5.05	127.17	119.60
1	2	917	C	N1-C2-O2	5.05	121.93	118.90
36	1	1344	G	OP1-P-O3'	5.05	116.31	105.20
36	1	1761	C	C6-N1-C2	-5.05	118.28	120.30
36	1	1899	G	N1-C2-N2	-5.05	111.66	116.20
36	1	2679	A	OP2-P-O3'	-5.05	94.09	105.20
36	1	2926	A	C4-C5-C6	5.05	119.52	117.00
36	1	3078	U	C2-N3-C4	5.05	130.03	127.00
80	6	125	U	N3-C4-O4	5.05	122.94	119.40
80	6	588	U	N3-C2-O2	5.05	125.73	122.20
80	6	860	U	N3-C4-C5	5.05	117.63	114.60
80	6	1018	U	C2-N1-C1'	-5.05	111.64	117.70
80	6	1549	C	OP1-P-OP2	-5.05	112.03	119.60
80	6	1615	C	O5'-P-OP1	5.05	116.76	110.70
85	5	83	U	C5-C4-O4	5.05	128.93	125.90
85	5	107	A	C4-C5-N7	5.05	113.22	110.70
85	5	130	A	C2-N3-C4	5.05	113.12	110.60
85	5	394	G	C5-N7-C8	5.05	106.82	104.30
85	5	969	C	N1-C2-N3	5.05	122.73	119.20
85	5	1055	A	C4-C5-C6	5.05	119.53	117.00
85	5	1515	A	C5-C6-N1	5.05	120.22	117.70
85	5	1566	A	O5'-P-OP2	5.05	116.76	110.70
85	5	1614	C	C6-N1-C2	5.05	122.32	120.30
85	5	2841	G	N9-C1'-C2'	-5.05	106.44	112.00
85	5	2861	U	C5-C6-N1	-5.05	120.17	122.70
53	m7	67	ILE	CG1-CB-CG2	-5.05	100.29	111.40
1	2	152	U	N3-C2-O2	-5.05	118.67	122.20
1	2	163	G	O5'-P-OP2	5.05	116.76	110.70
1	2	252	U	OP1-P-O3'	5.05	116.31	105.20
1	2	1062	U	O4'-C1'-N1	5.05	112.24	108.20
1	2	1420	U	N3-C4-O4	5.05	122.93	119.40
1	2	1484	C	N3-C2-O2	5.05	125.43	121.90
36	1	77	A	N1-C6-N6	5.05	121.63	118.60
36	1	827	A	N7-C8-N9	-5.05	111.28	113.80
36	1	2710	C	C4-C5-C6	-5.05	114.88	117.40
36	1	3173	G	O5'-P-OP1	-5.05	101.16	105.70
36	1	3241	G	C5-C6-N1	-5.05	108.98	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	M1	94	ARG	NE-CZ-NH1	5.05	122.82	120.30
80	6	574	G	C4-C5-N7	-5.05	108.78	110.80
85	5	819	U	O5'-P-OP1	5.05	116.76	110.70
85	5	1653	G	OP2-P-O3'	5.05	116.31	105.20
85	5	1743	G	C4-C5-C6	5.05	121.83	118.80
85	5	2301	U	C2-N3-C4	-5.05	123.97	127.00
85	5	2429	G	C8-N9-C4	5.05	108.42	106.40
85	5	2866	U	N1-C2-O2	5.05	126.33	122.80
1	2	14	C	C5-C6-N1	5.05	123.52	121.00
1	2	169	A	C5-C6-N6	-5.05	119.66	123.70
1	2	467	G	OP1-P-O3'	5.05	116.30	105.20
1	2	1722	C	N3-C2-O2	-5.05	118.37	121.90
36	1	101	G	O4'-C1'-N9	5.05	112.24	108.20
36	1	687	U	OP2-P-O3'	5.05	116.30	105.20
36	1	976	U	O5'-P-OP1	-5.05	101.16	105.70
36	1	1166	G	OP1-P-OP2	-5.05	112.03	119.60
36	1	1773	C	C6-N1-C2	5.05	122.32	120.30
36	1	1853	U	C6-N1-C2	-5.05	117.97	121.00
36	1	1868	G	N7-C8-N9	5.05	115.62	113.10
36	1	1908	A	C5-C6-N6	5.05	127.74	123.70
36	1	2584	G	N3-C4-C5	5.05	131.12	128.60
36	1	2617	U	C5-C6-N1	-5.05	120.18	122.70
36	1	2838	A	N9-C4-C5	5.05	107.82	105.80
36	1	2865	U	N1-C2-O2	-5.05	119.27	122.80
36	1	2961	G	OP1-P-OP2	-5.05	112.03	119.60
38	4	152	G	C5-N7-C8	5.05	106.82	104.30
74	O8	77	ARG	NE-CZ-NH1	-5.05	117.78	120.30
80	6	35	U	N3-C4-C5	-5.05	111.57	114.60
80	6	832	U	C6-N1-C2	-5.05	117.97	121.00
80	6	1385	G	C4-C5-N7	5.05	112.82	110.80
85	5	58	G	C4-C5-N7	5.05	112.82	110.80
85	5	604	G	C4-C5-C6	5.05	121.83	118.80
85	5	840	C	C4-C5-C6	5.05	119.92	117.40
85	5	1178	G	C5-C6-N1	5.05	114.02	111.50
85	5	1433	A	OP1-P-O3'	5.05	116.30	105.20
85	5	1692	U	C4-C5-C6	-5.05	116.67	119.70
85	5	1704	A	O5'-P-OP1	-5.05	101.16	105.70
85	5	1946	A	C8-N9-C4	-5.05	103.78	105.80
85	5	2257	C	N3-C2-O2	-5.05	118.37	121.90
85	5	2280	A	OP2-P-O3'	5.05	116.30	105.20
85	5	2906	C	C2-N1-C1'	-5.05	113.25	118.80
85	5	2975	U	N3-C4-C5	5.05	117.63	114.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2993	G	N3-C2-N2	5.05	123.43	119.90
85	5	3062	G	N9-C4-C5	5.05	107.42	105.40
85	5	3371	G	OP2-P-O3'	5.05	116.30	105.20
1	2	144	U	C2-N3-C4	-5.04	123.97	127.00
36	1	633	C	N3-C2-O2	-5.04	118.37	121.90
36	1	2671	A	N9-C4-C5	5.04	107.82	105.80
36	1	3075	G	N3-C4-C5	5.04	131.12	128.60
80	6	450	U	C6-N1-C2	5.04	124.03	121.00
80	6	971	A	N9-C1'-C2'	-5.04	106.45	112.00
80	6	1616	G	N9-C4-C5	5.04	107.42	105.40
85	5	12	A	C5-N7-C8	-5.04	101.38	103.90
85	5	720	A	O5'-P-OP2	5.04	116.75	110.70
85	5	3014	U	N3-C4-C5	5.04	117.63	114.60
1	2	349	U	C2-N3-C4	-5.04	123.97	127.00
1	2	360	A	OP2-P-O3'	5.04	116.30	105.20
1	2	609	U	N3-C2-O2	-5.04	118.67	122.20
1	2	1414	C	N3-C2-O2	5.04	125.43	121.90
36	1	16	A	N3-C4-C5	5.04	130.33	126.80
36	1	365	A	OP1-P-OP2	-5.04	112.03	119.60
36	1	619	A	C4-C5-C6	5.04	119.52	117.00
36	1	791	A	C6-C5-N7	5.04	135.83	132.30
36	1	827	A	C2-N3-C4	-5.04	108.08	110.60
36	1	836	A	O4'-C1'-N9	-5.04	104.17	108.20
36	1	867	G	N1-C6-O6	5.04	122.93	119.90
36	1	1514	G	OP1-P-OP2	5.04	127.16	119.60
36	1	2737	C	O5'-P-OP2	5.04	116.75	110.70
36	1	2816	G	N7-C8-N9	-5.04	110.58	113.10
36	1	2843	U	O5'-P-OP2	5.04	116.75	110.70
36	1	2882	U	C2-N3-C4	5.04	130.03	127.00
36	1	2944	U	C2-N1-C1'	5.04	123.75	117.70
36	1	3093	C	N3-C2-O2	-5.04	118.37	121.90
37	3	84	A	C4-C5-N7	5.04	113.22	110.70
80	6	108	A	O5'-P-OP2	-5.04	101.16	105.70
80	6	164	A	C4-C5-C6	5.04	119.52	117.00
80	6	307	G	C5-N7-C8	5.04	106.82	104.30
8	s6	57	ASP	CB-CG-OD2	5.04	122.84	118.30
85	5	1176	C	N3-C4-N4	5.04	121.53	118.00
85	5	1307	G	N1-C6-O6	5.04	122.93	119.90
85	5	1625	A	N1-C6-N6	5.04	121.63	118.60
85	5	1837	U	C4-C5-C6	5.04	122.73	119.70
85	5	2105	G	C6-C5-N7	-5.04	127.37	130.40
85	5	2728	G	C6-C5-N7	-5.04	127.37	130.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2911	A	N9-C4-C5	5.04	107.82	105.80
85	5	3338	C	N3-C4-N4	-5.04	114.47	118.00
1	2	341	A	C5-C6-N1	-5.04	115.18	117.70
1	2	635	A	C4-C5-C6	5.04	119.52	117.00
1	2	1285	U	N1-C2-N3	5.04	117.92	114.90
1	2	1562	U	N1-C2-N3	5.04	117.92	114.90
36	1	199	A	N1-C6-N6	-5.04	115.58	118.60
36	1	499	G	C5-C6-N1	-5.04	108.98	111.50
36	1	841	A	O5'-P-OP1	5.04	116.75	110.70
36	1	965	A	C5-C6-N1	5.04	120.22	117.70
36	1	980	A	O5'-P-OP1	-5.04	101.16	105.70
36	1	1401	A	C6-C5-N7	-5.04	128.77	132.30
36	1	1546	A	C5-N7-C8	-5.04	101.38	103.90
36	1	1605	A	C4-C5-C6	5.04	119.52	117.00
36	1	2183	A	C6-N1-C2	-5.04	115.58	118.60
36	1	2644	C	N3-C2-O2	-5.04	118.37	121.90
36	1	2797	C	N1-C2-N3	5.04	122.73	119.20
36	1	2961	G	N3-C4-C5	-5.04	126.08	128.60
36	1	3171	U	N1-C2-N3	-5.04	111.88	114.90
37	3	17	A	C5-C6-N6	-5.04	119.67	123.70
37	3	72	A	OP1-P-O3'	5.04	116.29	105.20
52	M6	19	LEU	CB-CG-CD2	-5.04	102.43	111.00
64	N8	42	ARG	CB-CG-CD	5.04	124.71	111.60
80	6	510	G	C4-C5-N7	5.04	112.82	110.80
80	6	652	G	N1-C2-N3	-5.04	120.88	123.90
80	6	858	G	N3-C2-N2	5.04	123.43	119.90
80	6	887	A	OP1-P-O3'	5.04	116.29	105.20
80	6	1162	C	C6-N1-C2	5.04	122.32	120.30
80	6	1526	A	N1-C2-N3	5.04	131.82	129.30
85	5	179	C	O5'-P-OP1	5.04	116.75	110.70
85	5	836	A	N1-C2-N3	5.04	131.82	129.30
85	5	1053	A	OP2-P-O3'	5.04	116.29	105.20
85	5	1109	U	C4-C5-C6	5.04	122.72	119.70
85	5	1741	A	OP1-P-OP2	5.04	127.16	119.60
85	5	2160	G	C5-N7-C8	5.04	106.82	104.30
85	5	2241	U	O5'-P-OP1	-5.04	101.16	105.70
85	5	2352	A	C4-C5-N7	-5.04	108.18	110.70
85	5	2616	C	C6-N1-C2	-5.04	118.28	120.30
85	5	2734	A	N3-C4-N9	-5.04	123.37	127.40
85	5	2890	A	C4-C5-C6	5.04	119.52	117.00
85	5	2925	C	OP1-P-OP2	-5.04	112.04	119.60
85	5	3193	C	C6-N1-C2	-5.04	118.28	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	8	G	C6-N1-C2	-5.04	122.08	125.10
1	2	547	U	C5-C6-N1	-5.04	120.18	122.70
36	1	75	G	C5-N7-C8	-5.04	101.78	104.30
36	1	83	U	O5'-P-OP2	-5.04	101.16	105.70
36	1	826	G	C5-C6-O6	-5.04	125.58	128.60
36	1	1602	A	C2-N3-C4	-5.04	108.08	110.60
36	1	2549	G	OP1-P-OP2	5.04	127.16	119.60
36	1	2677	G	N1-C2-N3	-5.04	120.88	123.90
36	1	3070	A	C5-N7-C8	-5.04	101.38	103.90
37	3	118	A	N1-C2-N3	5.04	131.82	129.30
38	4	27	U	C5-C4-O4	-5.04	122.88	125.90
38	4	44	A	O5'-P-OP1	-5.04	101.16	105.70
38	4	158	U	C6-N1-C2	5.04	124.02	121.00
80	6	802	G	C6-C5-N7	-5.04	127.38	130.40
85	5	191	U	C5-C4-O4	5.04	128.92	125.90
85	5	882	A	N7-C8-N9	5.04	116.32	113.80
85	5	1503	A	C4-C5-N7	5.04	113.22	110.70
85	5	2554	A	C2-N3-C4	-5.04	108.08	110.60
85	5	2607	G	C5-C6-O6	-5.04	125.58	128.60
85	5	2842	U	O5'-P-OP2	-5.04	101.16	105.70
85	5	2919	A	OP1-P-OP2	-5.04	112.04	119.60
37	7	28	C	OP1-P-OP2	5.04	127.16	119.60
57	n1	137	GLU	OE1-CD-OE2	-5.04	117.25	123.30
64	n8	6	THR	CA-CB-CG2	-5.04	105.34	112.40
1	2	54	C	C5-C6-N1	5.04	123.52	121.00
1	2	213	A	C8-N9-C4	-5.04	103.78	105.80
1	2	284	G	N1-C2-N3	5.04	126.92	123.90
1	2	447	U	C5-C4-O4	-5.04	122.88	125.90
1	2	683	C	C5-C6-N1	5.04	123.52	121.00
1	2	954	A	N9-C4-C5	5.04	107.82	105.80
1	2	1334	G	N1-C6-O6	5.04	122.92	119.90
1	2	1345	U	C5-C6-N1	5.04	125.22	122.70
1	2	1528	A	C2-N3-C4	-5.04	108.08	110.60
1	2	1744	U	C5-C4-O4	5.04	128.92	125.90
1	2	1774	A	C5-C6-N1	-5.04	115.18	117.70
36	1	432	G	C6-C5-N7	-5.04	127.38	130.40
36	1	1003	A	C6-C5-N7	-5.04	128.77	132.30
36	1	1536	G	N7-C8-N9	5.04	115.62	113.10
36	1	1622	U	C5-C6-N1	-5.04	120.18	122.70
36	1	1798	A	N7-C8-N9	5.04	116.32	113.80
36	1	1908	A	C2-N3-C4	-5.04	108.08	110.60
36	1	2623	G	C5-C6-N1	-5.04	108.98	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2821	C	C2-N1-C1'	5.04	124.34	118.80
36	1	2961	G	C6-C5-N7	-5.04	127.38	130.40
36	1	3170	A	C5-N7-C8	-5.04	101.38	103.90
36	1	3310	A	N1-C2-N3	5.04	131.82	129.30
80	6	45	U	OP1-P-OP2	-5.04	112.04	119.60
80	6	1111	G	C5-N7-C8	5.04	106.82	104.30
80	6	1578	U	C2-N3-C4	-5.04	123.98	127.00
80	6	1751	C	O5'-P-OP1	5.04	116.75	110.70
85	5	280	U	C6-N1-C2	-5.04	117.98	121.00
85	5	357	A	N7-C8-N9	-5.04	111.28	113.80
85	5	1127	G	N9-C4-C5	5.04	107.42	105.40
85	5	1277	C	OP1-P-OP2	-5.04	112.04	119.60
85	5	1616	U	C5-C6-N1	-5.04	120.18	122.70
85	5	2987	A	C5-C6-N6	5.04	127.73	123.70
85	5	3104	U	C5-C6-N1	-5.04	120.18	122.70
38	8	93	U	C2-N3-C4	-5.04	123.98	127.00
42	l5	131	LEU	CA-CB-CG	5.04	126.89	115.30
46	l9	42	ASP	CB-CG-OD2	5.04	122.83	118.30
1	2	14	C	C5-C4-N4	5.04	123.73	120.20
1	2	83	G	N3-C4-N9	5.04	129.02	126.00
1	2	231	U	C2-N3-C4	5.04	130.02	127.00
1	2	651	G	N9-C4-C5	5.04	107.42	105.40
1	2	1311	G	C6-N1-C2	5.04	128.12	125.10
36	1	1555	U	N3-C2-O2	5.04	125.73	122.20
36	1	1690	C	N3-C4-N4	-5.04	114.47	118.00
36	1	2677	G	C2-N3-C4	5.04	114.42	111.90
37	3	34	C	OP1-P-OP2	5.04	127.16	119.60
37	3	116	C	C5-C6-N1	5.04	123.52	121.00
80	6	89	G	C5-C6-N1	-5.04	108.98	111.50
80	6	163	G	C8-N9-C1'	5.04	133.55	127.00
80	6	281	G	N9-C4-C5	-5.04	103.39	105.40
80	6	386	G	O5'-P-OP2	-5.04	101.17	105.70
80	6	866	G	C5-C6-N1	-5.04	108.98	111.50
24	d2	55	ASP	CB-CG-OD2	5.04	122.83	118.30
85	5	753	C	OP1-P-O3'	5.04	116.28	105.20
85	5	1278	A	C8-N9-C4	5.04	107.81	105.80
85	5	1797	A	N9-C4-C5	-5.04	103.78	105.80
85	5	1856	C	C4-C5-C6	-5.04	114.88	117.40
85	5	3364	C	N3-C4-C5	5.04	123.92	121.90
1	2	59	C	OP1-P-O3'	5.04	116.28	105.20
1	2	254	A	N1-C2-N3	-5.04	126.78	129.30
1	2	1523	G	N1-C6-O6	5.04	122.92	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1755	C	N3-C4-N4	-5.04	114.47	118.00
36	1	12	A	N7-C8-N9	-5.04	111.28	113.80
36	1	77	A	C6-C5-N7	-5.04	128.78	132.30
36	1	321	C	OP1-P-OP2	5.04	127.15	119.60
36	1	758	C	N3-C4-N4	5.04	121.53	118.00
36	1	1218	U	N3-C2-O2	5.04	125.72	122.20
36	1	1555	U	C2-N1-C1'	-5.04	111.66	117.70
36	1	2125	A	O5'-P-OP1	5.04	116.74	110.70
36	1	2521	U	C4-C5-C6	-5.04	116.68	119.70
36	1	2788	C	C2-N1-C1'	-5.04	113.26	118.80
36	1	2816	G	C4-C5-N7	-5.04	108.79	110.80
36	1	3085	G	C5-C6-N1	-5.04	108.98	111.50
38	4	41	A	N7-C8-N9	-5.04	111.28	113.80
80	6	355	G	C5-C6-N1	5.04	114.02	111.50
80	6	408	C	O5'-P-OP1	5.04	116.74	110.70
80	6	533	U	N1-C2-O2	5.04	126.33	122.80
80	6	887	A	O5'-P-OP1	-5.04	101.17	105.70
85	5	624	G	N3-C4-C5	5.04	131.12	128.60
37	7	74	C	C6-N1-C2	5.04	122.31	120.30
1	2	56	U	C2-N1-C1'	5.03	123.74	117.70
1	2	304	U	N3-C4-O4	5.03	122.92	119.40
1	2	498	G	C4-C5-N7	-5.03	108.79	110.80
1	2	1569	A	N7-C8-N9	-5.03	111.28	113.80
36	1	767	U	N3-C4-O4	5.03	122.92	119.40
36	1	1172	G	O5'-P-OP1	-5.03	101.17	105.70
36	1	1316	C	OP1-P-O3'	5.03	116.27	105.20
36	1	1471	U	N1-C2-N3	5.03	117.92	114.90
36	1	1537	A	C8-N9-C4	-5.03	103.79	105.80
36	1	1892	G	C6-N1-C2	-5.03	122.08	125.10
36	1	2350	C	C6-N1-C2	5.03	122.31	120.30
36	1	2799	A	OP2-P-O3'	5.03	116.28	105.20
36	1	3062	G	C4-C5-C6	5.03	121.82	118.80
36	1	3229	G	O5'-P-OP2	5.03	116.74	110.70
36	1	3366	G	C4-C5-N7	-5.03	108.79	110.80
51	M5	44	ARG	NE-CZ-NH2	-5.03	117.78	120.30
80	6	423	G	C5-C6-O6	-5.03	125.58	128.60
80	6	1732	A	C6-C5-N7	-5.03	128.78	132.30
85	5	351	A	OP1-P-OP2	5.03	127.15	119.60
85	5	382	U	O5'-P-OP2	-5.03	101.17	105.70
85	5	1112	A	N9-C4-C5	5.03	107.81	105.80
85	5	1287	A	OP2-P-O3'	5.03	116.28	105.20
85	5	1757	A	C5-N7-C8	5.03	106.42	103.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2666	C	C2-N3-C4	-5.03	117.38	119.90
85	5	2702	A	N7-C8-N9	5.03	116.32	113.80
85	5	2868	U	C5-C4-O4	-5.03	122.88	125.90
85	5	3051	U	C5-C6-N1	5.03	125.22	122.70
85	5	3234	A	N1-C6-N6	-5.03	115.58	118.60
1	2	556	A	N9-C4-C5	5.03	107.81	105.80
1	2	1188	C	C6-N1-C2	-5.03	118.29	120.30
36	1	51	A	N1-C6-N6	-5.03	115.58	118.60
36	1	70	A	O4'-C1'-N9	-5.03	104.17	108.20
36	1	381	U	N3-C4-O4	5.03	122.92	119.40
36	1	1387	G	C2-N3-C4	5.03	114.42	111.90
36	1	2941	A	C5-C6-N1	-5.03	115.18	117.70
36	1	3006	A	N9-C4-C5	5.03	107.81	105.80
36	1	3089	C	O5'-P-OP2	-5.03	101.17	105.70
36	1	3252	G	OP1-P-O3'	5.03	116.27	105.20
38	4	107	G	O5'-P-OP2	5.03	116.74	110.70
80	6	584	C	C2-N3-C4	-5.03	117.38	119.90
80	6	1777	G	OP1-P-OP2	-5.03	112.05	119.60
85	5	423	A	C8-N9-C4	5.03	107.81	105.80
85	5	816	A	C4-C5-C6	-5.03	114.48	117.00
85	5	909	G	C8-N9-C1'	-5.03	120.46	127.00
85	5	1810	A	N7-C8-N9	-5.03	111.28	113.80
85	5	2237	C	C6-N1-C2	5.03	122.31	120.30
85	5	2674	A	C6-N1-C2	-5.03	115.58	118.60
85	5	2912	G	N3-C2-N2	-5.03	116.38	119.90
85	5	2963	C	C4-C5-C6	5.03	119.92	117.40
85	5	2964	G	C8-N9-C1'	5.03	133.54	127.00
85	5	3173	G	N3-C4-C5	-5.03	126.08	128.60
85	5	3314	A	C8-N9-C4	-5.03	103.79	105.80
1	2	571	G	N3-C2-N2	5.03	123.42	119.90
1	2	844	U	N1-C2-O2	5.03	126.32	122.80
1	2	1460	G	N1-C6-O6	5.03	122.92	119.90
36	1	265	A	C6-N1-C2	5.03	121.62	118.60
36	1	616	G	C6-C5-N7	-5.03	127.38	130.40
36	1	716	A	C4-C5-N7	5.03	113.22	110.70
36	1	1333	C	N1-C2-O2	5.03	121.92	118.90
36	1	1386	A	N7-C8-N9	5.03	116.31	113.80
36	1	1836	C	C2-N3-C4	5.03	122.42	119.90
36	1	1889	G	N1-C6-O6	5.03	122.92	119.90
36	1	2372	A	C5-N7-C8	5.03	106.42	103.90
36	1	2763	U	C6-N1-C1'	-5.03	114.16	121.20
36	1	3062	G	N3-C2-N2	-5.03	116.38	119.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	M0	10	ARG	NE-CZ-NH2	-5.03	117.78	120.30
80	6	558	U	C5-C4-O4	5.03	128.92	125.90
85	5	357	A	C4-C5-C6	5.03	119.52	117.00
85	5	575	G	O5'-P-OP1	-5.03	101.17	105.70
85	5	625	G	C5-N7-C8	5.03	106.81	104.30
85	5	783	A	C6-N1-C2	5.03	121.62	118.60
85	5	1108	U	O4'-C1'-N1	-5.03	104.18	108.20
85	5	1269	U	C4-C5-C6	5.03	122.72	119.70
85	5	1476	G	C5-N7-C8	5.03	106.82	104.30
85	5	1763	U	P-O3'-C3'	5.03	125.74	119.70
85	5	1870	C	C4-C5-C6	5.03	119.92	117.40
85	5	2566	C	OP1-P-OP2	5.03	127.15	119.60
85	5	3011	A	N7-C8-N9	-5.03	111.28	113.80
85	5	3026	G	N1-C2-N3	5.03	126.92	123.90
85	5	3263	G	C5-C6-O6	5.03	131.62	128.60
85	5	3353	G	C5-N7-C8	-5.03	101.78	104.30
40	l3	148	LEU	CB-CG-CD2	-5.03	102.45	111.00
36	1	624	G	N1-C6-O6	5.03	122.92	119.90
36	1	2887	A	N9-C4-C5	-5.03	103.79	105.80
36	1	3301	U	OP1-P-O3'	5.03	116.26	105.20
42	L5	218	ARG	NE-CZ-NH2	-5.03	117.79	120.30
80	6	382	C	C6-N1-C2	5.03	122.31	120.30
85	5	42	C	N3-C4-N4	5.03	121.52	118.00
85	5	289	A	C6-N1-C2	-5.03	115.58	118.60
85	5	1423	C	N3-C2-O2	5.03	125.42	121.90
85	5	2533	G	C4-C5-C6	-5.03	115.78	118.80
37	7	24	A	OP1-P-OP2	-5.03	112.06	119.60
1	2	146	U	N3-C2-O2	-5.03	118.68	122.20
1	2	1614	A	C2-N3-C4	-5.03	108.09	110.60
36	1	605	U	OP2-P-O3'	5.03	116.26	105.20
36	1	886	C	C2-N1-C1'	-5.03	113.27	118.80
36	1	970	A	OP1-P-O3'	5.03	116.26	105.20
36	1	1095	U	OP1-P-OP2	-5.03	112.06	119.60
36	1	1603	A	N7-C8-N9	-5.03	111.29	113.80
36	1	1904	C	OP2-P-O3'	5.03	116.26	105.20
36	1	2312	A	C8-N9-C4	-5.03	103.79	105.80
36	1	2320	A	N1-C6-N6	-5.03	115.58	118.60
36	1	2684	C	C2-N3-C4	-5.03	117.39	119.90
36	1	3331	U	O5'-P-OP2	-5.03	101.18	105.70
37	3	56	A	N3-C4-C5	5.03	130.32	126.80
38	4	4	C	O5'-P-OP2	-5.03	101.17	105.70
80	6	940	A	N7-C8-N9	5.03	116.31	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1143	A	OP1-P-OP2	5.03	127.14	119.60
80	6	1621	U	O5'-P-OP2	-5.03	101.18	105.70
80	6	1635	A	C6-C5-N7	-5.03	128.78	132.30
85	5	58	G	C8-N9-C4	-5.03	104.39	106.40
85	5	622	A	C5-N7-C8	5.03	106.41	103.90
85	5	627	U	N3-C4-O4	-5.03	115.88	119.40
85	5	849	C	N1-C2-N3	5.03	122.72	119.20
85	5	1151	U	C2-N1-C1'	5.03	123.73	117.70
85	5	1288	U	C5-C4-O4	-5.03	122.88	125.90
85	5	1600	U	C5-C4-O4	5.03	128.92	125.90
85	5	1724	U	C6-N1-C2	5.03	124.02	121.00
85	5	2173	U	N1-C2-N3	5.03	117.92	114.90
85	5	3365	U	C5-C4-O4	-5.03	122.88	125.90
1	2	1225	A	C4-C5-C6	5.03	119.51	117.00
1	2	1281	U	N1-C2-N3	5.03	117.92	114.90
36	1	1423	C	OP2-P-O3'	5.03	116.25	105.20
36	1	2161	G	N3-C4-N9	5.03	129.02	126.00
36	1	2185	G	N7-C8-N9	5.03	115.61	113.10
36	1	2258	U	C5-C6-N1	5.03	125.21	122.70
36	1	2612	U	N3-C2-O2	-5.03	118.68	122.20
36	1	2648	G	N7-C8-N9	5.03	115.61	113.10
36	1	2853	A	C4-C5-N7	5.03	113.21	110.70
53	M7	91	VAL	CA-CB-CG1	-5.03	103.36	110.90
80	6	1020	A	N9-C4-C5	5.03	107.81	105.80
80	6	1108	G	N7-C8-N9	5.03	115.61	113.10
80	6	1447	C	C4-C5-C6	5.03	119.91	117.40
80	6	1451	C	N3-C4-N4	5.03	121.52	118.00
85	5	364	G	C6-C5-N7	-5.03	127.38	130.40
85	5	505	G	O5'-P-OP2	5.03	116.73	110.70
85	5	573	C	C5-C4-N4	-5.03	116.68	120.20
85	5	581	U	C2-N3-C4	5.03	130.01	127.00
85	5	676	G	N7-C8-N9	5.03	115.61	113.10
85	5	939	U	OP1-P-OP2	-5.03	112.06	119.60
85	5	1722	U	C5-C6-N1	-5.03	120.19	122.70
85	5	1830	G	O5'-P-OP2	-5.03	101.18	105.70
85	5	2161	G	C5-C6-O6	-5.03	125.58	128.60
85	5	3204	C	N3-C4-C5	5.03	123.91	121.90
1	2	668	A	N7-C8-N9	-5.02	111.29	113.80
36	1	131	C	OP1-P-O3'	5.02	116.25	105.20
36	1	1611	G	C2-N3-C4	-5.02	109.39	111.90
36	1	2622	C	N3-C2-O2	-5.02	118.38	121.90
36	1	2624	G	C5-N7-C8	-5.02	101.79	104.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2898	G	C4-N9-C1'	5.02	133.03	126.50
36	1	2996	U	N3-C2-O2	-5.02	118.68	122.20
80	6	761	G	N1-C2-N3	5.02	126.92	123.90
80	6	978	A	N9-C4-C5	5.02	107.81	105.80
85	5	371	G	N1-C2-N2	5.02	120.72	116.20
85	5	1797	A	N1-C2-N3	5.02	131.81	129.30
85	5	2267	C	N3-C4-N4	-5.02	114.48	118.00
85	5	2639	G	N3-C4-C5	-5.02	126.09	128.60
85	5	2911	A	N1-C6-N6	-5.02	115.59	118.60
85	5	2913	C	OP1-P-O3'	5.02	116.25	105.20
37	7	25	G	C4-C5-C6	5.02	121.81	118.80
48	m1	94	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	2	240	U	N1-C2-N3	-5.02	111.89	114.90
1	2	1287	G	N3-C2-N2	-5.02	116.38	119.90
1	2	1445	G	C5-C6-O6	-5.02	125.59	128.60
1	2	1717	U	N1-C2-N3	5.02	117.91	114.90
36	1	232	G	C5-C6-N1	-5.02	108.99	111.50
36	1	341	G	C6-C5-N7	-5.02	127.39	130.40
36	1	1182	A	N7-C8-N9	5.02	116.31	113.80
36	1	1187	C	N3-C2-O2	5.02	125.42	121.90
36	1	1851	G	C6-C5-N7	-5.02	127.39	130.40
36	1	2128	C	C4-C5-C6	5.02	119.91	117.40
36	1	2652	U	C4-C5-C6	5.02	122.71	119.70
36	1	2675	C	C5-C4-N4	-5.02	116.68	120.20
38	4	16	G	OP2-P-O3'	5.02	116.25	105.20
38	4	113	U	N1-C2-N3	-5.02	111.89	114.90
67	O1	104	LEU	CB-CG-CD1	-5.02	102.46	111.00
80	6	85	A	N1-C2-N3	5.02	131.81	129.30
80	6	115	G	C8-N9-C4	-5.02	104.39	106.40
80	6	358	U	OP1-P-O3'	5.02	116.25	105.20
80	6	837	G	C5-C6-N1	5.02	114.01	111.50
80	6	1481	C	N3-C2-O2	-5.02	118.38	121.90
80	6	1602	C	N3-C4-C5	5.02	123.91	121.90
80	6	1731	A	N7-C8-N9	5.02	116.31	113.80
80	6	1750	A	N9-C4-C5	-5.02	103.79	105.80
11	s9	69	ARG	NE-CZ-NH2	-5.02	117.79	120.30
85	5	744	A	O5'-P-OP2	-5.02	101.18	105.70
85	5	833	G	N1-C2-N3	5.02	126.91	123.90
85	5	957	C	O5'-P-OP1	-5.02	101.18	105.70
85	5	1238	C	N3-C4-C5	5.02	123.91	121.90
85	5	2196	C	C2-N3-C4	5.02	122.41	119.90
85	5	2891	U	N1-C2-N3	5.02	117.91	114.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3024	A	OP1-P-O3'	5.02	116.25	105.20
85	5	3131	U	OP2-P-O3'	5.02	116.25	105.20
85	5	3382	U	C2-N1-C1'	5.02	123.73	117.70
85	5	3389	U	C5-C6-N1	-5.02	120.19	122.70
38	8	54	A	OP1-P-OP2	-5.02	112.07	119.60
54	m8	140	LEU	CB-CG-CD2	-5.02	102.46	111.00
1	2	2	A	C5-C6-N1	5.02	120.21	117.70
1	2	328	A	C4-C5-N7	5.02	113.21	110.70
1	2	828	G	C4-C5-N7	-5.02	108.79	110.80
36	1	192	C	C5-C4-N4	-5.02	116.69	120.20
36	1	692	A	N1-C6-N6	-5.02	115.59	118.60
36	1	707	U	C5-C4-O4	5.02	128.91	125.90
36	1	915	A	C6-N1-C2	-5.02	115.59	118.60
36	1	1122	U	C6-N1-C1'	5.02	128.23	121.20
36	1	2445	A	C5-N7-C8	5.02	106.41	103.90
36	1	2756	C	O5'-P-OP2	-5.02	101.18	105.70
36	1	3127	A	C2-N3-C4	-5.02	108.09	110.60
80	6	729	G	C2-N3-C4	5.02	114.41	111.90
80	6	776	G	N3-C4-C5	5.02	131.11	128.60
85	5	909	G	N1-C2-N2	-5.02	111.68	116.20
85	5	1174	G	N7-C8-N9	5.02	115.61	113.10
85	5	1614	C	OP2-P-O3'	5.02	116.25	105.20
85	5	2761	G	O5'-P-OP2	-5.02	101.18	105.70
38	8	122	U	C5-C6-N1	5.02	125.21	122.70
63	n7	135	ARG	NE-CZ-NH2	5.02	122.81	120.30
1	2	341	A	C4-C5-C6	5.02	119.51	117.00
1	2	789	A	N1-C6-N6	-5.02	115.59	118.60
1	2	993	C	C4-C5-C6	-5.02	114.89	117.40
1	2	1067	A	C5-C6-N6	-5.02	119.68	123.70
1	2	1528	A	OP1-P-OP2	-5.02	112.07	119.60
36	1	377	A	C6-N1-C2	-5.02	115.59	118.60
36	1	660	A	C6-N1-C2	-5.02	115.59	118.60
36	1	1508	C	C2-N3-C4	5.02	122.41	119.90
36	1	1784	G	C5-C6-N1	-5.02	108.99	111.50
36	1	1917	C	N3-C2-O2	-5.02	118.39	121.90
36	1	2323	G	C2-N3-C4	5.02	114.41	111.90
36	1	2396	G	C5-N7-C8	-5.02	101.79	104.30
36	1	3019	U	N3-C4-O4	5.02	122.91	119.40
36	1	3240	C	N3-C4-N4	5.02	121.51	118.00
36	1	3347	A	C5-C6-N6	-5.02	119.68	123.70
51	M5	99	ARG	NE-CZ-NH2	5.02	122.81	120.30
54	M8	141	ARG	NE-CZ-NH2	-5.02	117.79	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	35	U	N1-C2-O2	-5.02	119.29	122.80
80	6	104	A	N9-C4-C5	5.02	107.81	105.80
80	6	305	C	C4-C5-C6	5.02	119.91	117.40
80	6	389	G	N7-C8-N9	5.02	115.61	113.10
80	6	997	G	N3-C2-N2	-5.02	116.39	119.90
80	6	1094	G	N1-C6-O6	-5.02	116.89	119.90
80	6	1318	G	C8-N9-C4	5.02	108.41	106.40
80	6	1781	A	OP1-P-OP2	5.02	127.13	119.60
7	s5	156	ARG	NE-CZ-NH1	5.02	122.81	120.30
85	5	333	G	C5-C6-O6	5.02	131.61	128.60
85	5	920	A	C4-C5-C6	-5.02	114.49	117.00
85	5	924	G	C6-N1-C2	-5.02	122.09	125.10
85	5	994	G	N1-C2-N2	-5.02	111.68	116.20
85	5	1403	C	OP1-P-O3'	5.02	116.24	105.20
85	5	1830	G	C2-N3-C4	-5.02	109.39	111.90
85	5	2380	U	N3-C4-O4	5.02	122.91	119.40
85	5	2922	G	N9-C4-C5	-5.02	103.39	105.40
85	5	3336	A	OP1-P-O3'	5.02	116.25	105.20
1	2	294	C	N3-C4-N4	5.02	121.51	118.00
1	2	1060	C	OP2-P-O3'	5.02	116.24	105.20
1	2	1092	G	N3-C4-C5	5.02	131.11	128.60
1	2	1137	G	C5-C6-O6	-5.02	125.59	128.60
1	2	1279	A	N9-C4-C5	5.02	107.81	105.80
36	1	432	G	N1-C6-O6	5.02	122.91	119.90
36	1	528	U	C4-C5-C6	-5.02	116.69	119.70
36	1	1050	U	C6-N1-C2	-5.02	117.99	121.00
36	1	1090	G	C5-C6-O6	5.02	131.61	128.60
36	1	1700	G	N1-C2-N2	-5.02	111.69	116.20
36	1	1729	A	O5'-P-OP1	5.02	116.72	110.70
36	1	1820	U	C6-N1-C2	5.02	124.01	121.00
36	1	1829	G	C6-N1-C2	-5.02	122.09	125.10
36	1	1872	C	N3-C4-C5	5.02	123.91	121.90
36	1	1880	U	C4-C5-C6	5.02	122.71	119.70
50	M4	60	LEU	CB-CG-CD1	-5.02	102.47	111.00
77	Q1	17	ARG	NE-CZ-NH2	-5.02	117.79	120.30
80	6	860	U	C2-N3-C4	-5.02	123.99	127.00
80	6	1056	U	C5-C6-N1	5.02	125.21	122.70
85	5	213	A	C4-C5-C6	5.02	119.51	117.00
85	5	671	U	N1-C2-O2	-5.02	119.29	122.80
85	5	722	G	N7-C8-N9	-5.02	110.59	113.10
85	5	808	A	N1-C6-N6	5.02	121.61	118.60
85	5	1207	G	C8-N9-C4	5.02	108.41	106.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1647	A	C5-C6-N1	5.02	120.21	117.70
85	5	1770	G	N1-C2-N3	5.02	126.91	123.90
85	5	2339	C	C5-C4-N4	-5.02	116.69	120.20
85	5	2574	G	OP1-P-OP2	5.02	127.13	119.60
85	5	2651	G	C6-C5-N7	5.02	133.41	130.40
85	5	2936	A	O5'-P-OP1	5.02	116.72	110.70
85	5	2937	G	N9-C4-C5	5.02	107.41	105.40
85	5	3075	G	N1-C6-O6	5.02	122.91	119.90
85	5	3320	A	OP2-P-O3'	5.02	116.24	105.20
37	7	100	C	N3-C4-N4	5.02	121.51	118.00
38	8	64	U	N3-C4-O4	5.02	122.91	119.40
57	n1	106	LEU	CA-CB-CG	-5.02	103.76	115.30
1	2	103	A	C8-N9-C4	-5.02	103.79	105.80
1	2	851	G	C5-C6-N1	-5.02	108.99	111.50
36	1	58	G	OP1-P-OP2	-5.02	112.08	119.60
36	1	530	G	N1-C2-N3	-5.02	120.89	123.90
36	1	819	U	OP2-P-O3'	5.02	116.23	105.20
36	1	1105	A	N3-C4-C5	5.02	130.31	126.80
36	1	2098	C	O4'-C1'-N1	5.02	112.21	108.20
36	1	2098	C	C6-N1-C1'	5.02	126.82	120.80
38	4	146	U	C6-N1-C2	5.02	124.01	121.00
43	L6	46	ARG	NE-CZ-NH1	-5.02	117.79	120.30
85	5	201	A	C6-N1-C2	-5.02	115.59	118.60
85	5	271	C	N3-C4-N4	-5.02	114.49	118.00
85	5	625	G	N1-C2-N2	5.02	120.72	116.20
85	5	916	G	P-O3'-C3'	5.02	125.72	119.70
85	5	2379	U	N3-C4-O4	-5.02	115.89	119.40
85	5	2910	A	C8-N9-C4	-5.02	103.79	105.80
38	8	40	A	O5'-P-OP2	-5.02	101.19	105.70
1	2	88	U	C4-C5-C6	5.01	122.71	119.70
1	2	247	A	N7-C8-N9	5.01	116.31	113.80
1	2	286	C	C4-C5-C6	5.01	119.91	117.40
1	2	471	A	OP1-P-O3'	5.01	116.23	105.20
1	2	477	A	C4-C5-C6	-5.01	114.49	117.00
1	2	791	U	C6-N1-C2	-5.01	117.99	121.00
1	2	1130	A	N1-C6-N6	5.01	121.61	118.60
36	1	52	A	N9-C4-C5	5.01	107.81	105.80
36	1	330	G	C4-C5-N7	5.01	112.81	110.80
36	1	514	G	N1-C2-N3	5.01	126.91	123.90
36	1	612	U	OP2-P-O3'	5.01	116.23	105.20
36	1	1083	G	N1-C6-O6	-5.01	116.89	119.90
36	1	1113	G	O5'-P-OP1	5.01	116.72	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1180	A	C2-N3-C4	-5.01	108.09	110.60
36	1	1781	C	O5'-P-OP1	5.01	116.72	110.70
36	1	2213	A	O5'-P-OP1	5.01	116.72	110.70
36	1	2305	G	N7-C8-N9	5.01	115.61	113.10
36	1	2424	A	N3-C4-C5	5.01	130.31	126.80
36	1	2657	A	C2-N3-C4	-5.01	108.09	110.60
36	1	3318	G	O5'-P-OP1	-5.01	101.19	105.70
38	4	63	G	C2-N3-C4	5.01	114.41	111.90
80	6	40	A	C5-C6-N1	-5.01	115.19	117.70
80	6	357	G	C5-N7-C8	5.01	106.81	104.30
80	6	754	A	N3-C4-N9	5.01	131.41	127.40
80	6	1049	U	OP1-P-OP2	-5.01	112.08	119.60
85	5	272	G	C6-N1-C2	-5.01	122.09	125.10
85	5	616	G	C2-N3-C4	-5.01	109.39	111.90
85	5	883	A	N9-C4-C5	5.01	107.81	105.80
85	5	902	G	C6-C5-N7	-5.01	127.39	130.40
85	5	1035	G	N1-C2-N3	5.01	126.91	123.90
85	5	1428	A	C5-C6-N6	5.01	127.71	123.70
85	5	1611	G	N3-C4-C5	-5.01	126.09	128.60
85	5	2115	G	N9-C4-C5	5.01	107.41	105.40
85	5	2179	C	C4-C5-C6	5.01	119.91	117.40
85	5	2787	G	C5-C6-N1	-5.01	108.99	111.50
85	5	3090	U	N1-C2-N3	5.01	117.91	114.90
89	p0	61	ARG	NE-CZ-NH2	5.01	122.81	120.30
28	D6	10	ARG	NE-CZ-NH2	5.01	122.81	120.30
36	1	918	C	N3-C4-C5	-5.01	119.89	121.90
36	1	1144	U	N3-C4-C5	5.01	117.61	114.60
36	1	1360	C	N3-C4-C5	-5.01	119.89	121.90
36	1	2961	G	N1-C2-N2	-5.01	111.69	116.20
37	3	37	G	N7-C8-N9	5.01	115.61	113.10
80	6	324	U	N3-C4-O4	5.01	122.91	119.40
80	6	573	C	OP1-P-OP2	5.01	127.12	119.60
85	5	433	A	O5'-P-OP1	5.01	116.72	110.70
85	5	1100	U	C5-C4-O4	5.01	128.91	125.90
85	5	1702	U	C5-C6-N1	5.01	125.21	122.70
85	5	2099	A	O4'-C1'-N9	5.01	112.21	108.20
85	5	2744	U	N3-C2-O2	-5.01	118.69	122.20
85	5	2828	G	C2-N3-C4	-5.01	109.39	111.90
1	2	267	U	C5-C4-O4	-5.01	122.89	125.90
1	2	595	G	OP1-P-O3'	5.01	116.22	105.20
1	2	1101	G	O5'-P-OP2	5.01	116.72	110.70
1	2	1365	A	C8-N9-C4	5.01	107.81	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1764	A	C5-C6-N1	-5.01	115.19	117.70
36	1	43	A	OP1-P-OP2	5.01	127.12	119.60
36	1	133	U	OP2-P-O3'	5.01	116.22	105.20
36	1	425	G	N7-C8-N9	5.01	115.61	113.10
36	1	431	U	OP2-P-O3'	5.01	116.22	105.20
36	1	1392	G	C2-N3-C4	5.01	114.41	111.90
36	1	2157	G	C6-C5-N7	-5.01	127.39	130.40
36	1	2236	G	O5'-P-OP2	5.01	116.71	110.70
36	1	2360	C	O5'-P-OP2	-5.01	101.19	105.70
36	1	3202	G	N9-C4-C5	-5.01	103.39	105.40
36	1	3245	A	C6-N1-C2	5.01	121.61	118.60
37	3	54	U	N1-C2-N3	5.01	117.91	114.90
38	4	11	C	C2-N3-C4	5.01	122.41	119.90
38	4	97	A	N1-C6-N6	-5.01	115.59	118.60
46	L9	38	LEU	CB-CG-CD2	-5.01	102.48	111.00
51	M5	85	THR	CA-CB-CG2	-5.01	105.39	112.40
53	M7	56	ARG	NE-CZ-NH2	-5.01	117.79	120.30
80	6	156	A	C8-N9-C4	5.01	107.80	105.80
80	6	478	A	C6-C5-N7	-5.01	128.79	132.30
80	6	533	U	C4-C5-C6	5.01	122.71	119.70
80	6	785	U	C4-C5-C6	-5.01	116.69	119.70
80	6	808	U	N3-C2-O2	5.01	125.71	122.20
80	6	959	U	OP1-P-OP2	5.01	127.12	119.60
80	6	977	A	C5-C6-N6	-5.01	119.69	123.70
80	6	991	G	C4-C5-N7	-5.01	108.80	110.80
80	6	1291	G	N3-C4-C5	-5.01	126.09	128.60
80	6	1596	C	C5-C6-N1	-5.01	118.49	121.00
85	5	14	U	C5-C4-O4	-5.01	122.89	125.90
85	5	231	G	C5-N7-C8	-5.01	101.79	104.30
85	5	269	G	C5-C6-O6	5.01	131.61	128.60
85	5	822	G	C6-N1-C2	-5.01	122.09	125.10
85	5	1862	U	N1-C2-O2	-5.01	119.29	122.80
85	5	2645	G	OP1-P-O3'	5.01	116.23	105.20
85	5	2915	U	O4'-C1'-N1	-5.01	104.19	108.20
85	5	3233	C	C5-C6-N1	-5.01	118.49	121.00
85	5	3239	G	C8-N9-C1'	5.01	133.52	127.00
37	7	87	G	OP1-P-OP2	5.01	127.12	119.60
52	m6	51	LYS	CD-CE-NZ	5.01	123.23	111.70
1	2	322	G	C5-C6-O6	5.01	131.60	128.60
1	2	1098	U	C2-N3-C4	-5.01	123.99	127.00
1	2	1132	G	O4'-C1'-N9	5.01	112.21	108.20
1	2	1135	A	C4-C5-C6	5.01	119.50	117.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1527	U	N3-C4-O4	-5.01	115.89	119.40
1	2	1715	A	C4-C5-N7	-5.01	108.19	110.70
36	1	124	U	N3-C2-O2	-5.01	118.69	122.20
36	1	320	G	N1-C2-N3	5.01	126.91	123.90
36	1	361	A	C5-C6-N1	5.01	120.20	117.70
36	1	1019	G	N9-C4-C5	-5.01	103.40	105.40
36	1	1474	A	C6-C5-N7	-5.01	128.79	132.30
36	1	1859	A	C5-C6-N6	5.01	127.71	123.70
36	1	2132	C	N1-C2-N3	5.01	122.71	119.20
36	1	2134	G	N7-C8-N9	-5.01	110.59	113.10
36	1	2292	U	C2-N1-C1'	5.01	123.71	117.70
36	1	3144	G	N3-C4-N9	-5.01	123.00	126.00
36	1	3284	G	OP1-P-OP2	5.01	127.11	119.60
44	L7	191	VAL	CG1-CB-CG2	-5.01	102.89	110.90
80	6	555	A	N3-C4-C5	-5.01	123.29	126.80
80	6	641	G	N9-C4-C5	5.01	107.40	105.40
80	6	1441	C	N1-C2-O2	5.01	121.91	118.90
85	5	130	A	N1-C6-N6	-5.01	115.59	118.60
85	5	169	U	C6-N1-C2	5.01	124.01	121.00
85	5	424	G	N3-C2-N2	-5.01	116.39	119.90
85	5	632	G	N3-C4-C5	-5.01	126.09	128.60
85	5	646	A	N1-C6-N6	-5.01	115.59	118.60
85	5	646	A	N3-C4-N9	-5.01	123.39	127.40
85	5	1010	G	C4-C5-N7	5.01	112.80	110.80
85	5	1072	G	OP1-P-O3'	5.01	116.22	105.20
85	5	1339	C	C2-N3-C4	-5.01	117.39	119.90
85	5	1379	G	C6-C5-N7	-5.01	127.39	130.40
85	5	1612	A	C5-C6-N1	-5.01	115.19	117.70
85	5	2870	C	OP1-P-O3'	5.01	116.22	105.20
85	5	3063	C	C5-C6-N1	5.01	123.50	121.00
85	5	3340	G	N1-C6-O6	-5.01	116.89	119.90
41	14	117	GLU	CA-CB-CG	5.01	124.42	113.40
86	18	70	LYS	CD-CE-NZ	5.01	123.22	111.70
1	2	397	A	OP1-P-OP2	-5.01	112.09	119.60
1	2	1115	A	N9-C4-C5	5.01	107.80	105.80
36	1	777	U	C4-C5-C6	5.01	122.70	119.70
36	1	1590	G	N1-C2-N3	5.01	126.91	123.90
36	1	2132	C	C6-N1-C1'	-5.01	114.79	120.80
36	1	3318	G	N1-C2-N2	-5.01	111.69	116.20
38	4	126	A	C5-N7-C8	5.01	106.40	103.90
80	6	1634	C	N3-C4-C5	-5.01	119.90	121.90
80	6	1653	C	C6-N1-C2	5.01	122.30	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	687	U	C2-N3-C4	-5.01	124.00	127.00
85	5	904	A	C8-N9-C4	-5.01	103.80	105.80
85	5	1164	G	OP2-P-O3'	5.01	116.22	105.20
85	5	2217	U	O5'-P-OP1	5.01	116.71	110.70
1	2	136	C	N3-C4-N4	-5.01	114.50	118.00
1	2	923	A	N9-C4-C5	5.01	107.80	105.80
1	2	1103	U	N1-C2-O2	5.01	126.30	122.80
1	2	1358	A	C5-N7-C8	-5.01	101.40	103.90
36	1	36	C	N3-C4-N4	5.01	121.50	118.00
36	1	292	U	C5-C4-O4	-5.01	122.90	125.90
36	1	1208	U	C6-N1-C1'	-5.01	114.19	121.20
36	1	1904	C	C6-N1-C1'	5.01	126.81	120.80
36	1	2414	G	C2-N3-C4	-5.01	109.40	111.90
36	1	2794	G	C6-N1-C2	-5.01	122.10	125.10
36	1	3163	A	C5-N7-C8	5.01	106.40	103.90
36	1	3241	G	O5'-P-OP1	5.01	116.71	110.70
37	3	41	G	OP1-P-OP2	-5.01	112.09	119.60
68	O2	50	ILE	CG1-CB-CG2	-5.01	100.38	111.40
80	6	7	G	C4-C5-N7	5.01	112.80	110.80
80	6	466	U	C5-C6-N1	-5.01	120.20	122.70
80	6	498	G	C5-C6-N1	-5.01	109.00	111.50
80	6	1024	U	O5'-P-OP2	-5.01	101.19	105.70
80	6	1081	A	N9-C4-C5	-5.01	103.80	105.80
80	6	1323	C	OP2-P-O3'	5.01	116.21	105.20
80	6	1725	U	C6-N1-C2	-5.01	118.00	121.00
85	5	800	G	C5-N7-C8	-5.01	101.80	104.30
85	5	1039	U	O5'-P-OP2	5.01	116.71	110.70
85	5	1041	U	OP1-P-OP2	5.01	127.11	119.60
85	5	1190	A	C8-N9-C4	-5.01	103.80	105.80
85	5	2375	G	C5-C6-O6	-5.01	125.60	128.60
85	5	2396	G	N3-C4-N9	-5.01	123.00	126.00
85	5	2942	C	OP2-P-O3'	5.01	116.22	105.20
85	5	3236	U	N1-C2-N3	-5.01	111.90	114.90
85	5	3326	G	N3-C2-N2	5.01	123.41	119.90
37	7	89	G	C5-C6-O6	5.01	131.60	128.60
37	7	94	C	C5-C4-N4	-5.01	116.70	120.20
38	8	155	A	N3-C4-C5	-5.01	123.30	126.80
40	l3	4	ARG	CD-NE-CZ	5.01	130.61	123.60
41	l4	47	ARG	NE-CZ-NH1	5.01	122.80	120.30
1	2	287	G	C6-C5-N7	5.00	133.40	130.40
1	2	339	C	N1-C2-N3	5.00	122.70	119.20
36	1	27	C	N3-C4-N4	-5.00	114.50	118.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	351	A	C5-N7-C8	5.00	106.40	103.90
36	1	429	U	O5'-P-OP1	-5.00	101.20	105.70
36	1	572	A	O5'-P-OP1	-5.00	101.19	105.70
36	1	706	A	N9-C1'-C2'	-5.00	106.49	112.00
36	1	2871	G	N3-C4-N9	-5.00	123.00	126.00
36	1	2966	G	C4-C5-C6	5.00	121.80	118.80
80	6	605	A	N7-C8-N9	5.00	116.30	113.80
80	6	1513	G	C2-N3-C4	5.00	114.40	111.90
85	5	199	A	N1-C6-N6	-5.00	115.60	118.60
85	5	949	C	C5-C6-N1	5.00	123.50	121.00
85	5	2417	U	OP2-P-O3'	5.00	116.21	105.20
85	5	3145	C	C2-N3-C4	5.00	122.40	119.90
44	l7	219	LYS	CD-CE-NZ	5.00	123.21	111.70
51	m5	155	VAL	CG1-CB-CG2	5.00	118.91	110.90
1	2	979	U	N3-C2-O2	-5.00	118.70	122.20
1	2	1541	U	OP1-P-OP2	-5.00	112.09	119.60
36	1	352	A	N9-C4-C5	-5.00	103.80	105.80
36	1	673	U	C6-N1-C1'	5.00	128.21	121.20
36	1	969	C	C5'-C4'-O4'	-5.00	103.10	109.10
36	1	1103	A	C8-N9-C4	5.00	107.80	105.80
36	1	1590	G	C4-C5-N7	-5.00	108.80	110.80
36	1	1656	A	C4-C5-C6	5.00	119.50	117.00
36	1	1846	C	N3-C2-O2	5.00	125.40	121.90
36	1	2313	A	C2-N3-C4	-5.00	108.10	110.60
36	1	2359	C	O5'-P-OP2	-5.00	101.20	105.70
36	1	3175	U	C5-C6-N1	5.00	125.20	122.70
38	4	46	G	OP1-P-OP2	5.00	127.10	119.60
38	4	73	U	C4-C5-C6	-5.00	116.70	119.70
80	6	413	U	N3-C4-C5	5.00	117.60	114.60
80	6	423	G	N1-C2-N3	-5.00	120.90	123.90
80	6	824	G	C8-N9-C4	-5.00	104.40	106.40
80	6	1120	U	N1-C2-N3	5.00	117.90	114.90
80	6	1635	A	C5-C6-N6	-5.00	119.70	123.70
85	5	135	C	O5'-P-OP1	-5.00	101.20	105.70
85	5	226	C	O5'-P-OP2	5.00	116.70	110.70
85	5	877	C	C5-C6-N1	5.00	123.50	121.00
85	5	2317	A	C6-C5-N7	5.00	135.80	132.30
85	5	2330	C	N1-C2-O2	-5.00	115.90	118.90
85	5	2540	A	C2-N3-C4	5.00	113.10	110.60
85	5	2578	U	N3-C2-O2	-5.00	118.70	122.20
85	5	3337	G	OP2-P-O3'	5.00	116.21	105.20
38	8	111	A	C5-C6-N1	-5.00	115.20	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	145	U	C4-C5-C6	-5.00	116.70	119.70
1	2	507	U	N1-C2-O2	5.00	126.30	122.80
1	2	745	A	C5-N7-C8	5.00	106.40	103.90
36	1	46	U	OP1-P-OP2	-5.00	112.10	119.60
36	1	431	U	O5'-P-OP1	-5.00	101.20	105.70
36	1	621	A	N9-C1'-C2'	5.00	120.50	114.00
36	1	1405	U	OP1-P-OP2	5.00	127.10	119.60
36	1	1417	G	C6-N1-C2	-5.00	122.10	125.10
36	1	1537	A	OP1-P-OP2	-5.00	112.10	119.60
36	1	1828	A	OP2-P-O3'	5.00	116.20	105.20
36	1	2121	G	N3-C4-C5	-5.00	126.10	128.60
36	1	2364	G	N3-C4-C5	5.00	131.10	128.60
36	1	2725	U	C5-C6-N1	-5.00	120.20	122.70
36	1	3154	C	N3-C4-C5	-5.00	119.90	121.90
36	1	3372	A	C4-C5-N7	-5.00	108.20	110.70
36	1	3372	A	C8-N9-C4	5.00	107.80	105.80
38	4	52	A	N1-C2-N3	5.00	131.80	129.30
64	N8	103	ASP	CB-CG-OD1	-5.00	113.80	118.30
80	6	130	C	N3-C4-C5	5.00	123.90	121.90
80	6	440	U	N1-C2-O2	-5.00	119.30	122.80
80	6	797	G	N7-C8-N9	-5.00	110.60	113.10
80	6	995	A	C8-N9-C4	-5.00	103.80	105.80
85	5	619	A	N7-C8-N9	-5.00	111.30	113.80
85	5	920	A	OP1-P-O3'	-5.00	94.20	105.20
85	5	1220	U	O5'-P-OP2	-5.00	101.20	105.70
85	5	1333	C	OP1-P-OP2	-5.00	112.10	119.60
85	5	1553	U	N3-C4-C5	-5.00	111.60	114.60
85	5	1715	A	N1-C2-N3	-5.00	126.80	129.30
85	5	2400	G	C2-N3-C4	-5.00	109.40	111.90
85	5	2429	G	N7-C8-N9	-5.00	110.60	113.10
85	5	2574	G	N3-C4-C5	5.00	131.10	128.60
85	5	2761	G	N7-C8-N9	-5.00	110.60	113.10
85	5	2844	C	N3-C4-C5	-5.00	119.90	121.90

There are no chirality outliers.

All (39) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
85	5	1133	A	Sidechain
80	6	652	G	Sidechain
19	C7	85	VAL	Peptide
27	D5	94	LYS	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
33	E1	101	ALA	Peptide
33	E1	146	SER	Peptide
39	L2	19	HIS	Peptide
40	L3	27	ALA	Peptide
41	L4	174	ALA	Peptide
41	L4	271	LYS	Peptide
44	L7	157	ASN	Peptide
47	M0	213	PHE	Mainchain
52	M6	110	PRO	Peptide
53	M7	120	ASN	Peptide
53	M7	55	GLN	Peptide
57	N1	16	GLN	Peptide
65	N9	19	ASN	Peptide
6	S4	148	ARG	Peptide
6	S4	193	GLY	Peptide
11	S9	38	ASN	Peptide
81	c0	33	GLU	Peptide
17	c5	52	LYS	Peptide
22	d0	70	THR	Peptide
25	d3	44	GLY	Peptide
40	l3	244	ARG	Peptide
41	l4	13	GLY	Peptide
42	l5	270	LYS	Peptide
42	l5	271	LYS	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
49	m3	15	ARG	Peptide
52	m6	110	PRO	Peptide
56	n0	133	ALA	Peptide
56	n0	3	HIS	Peptide
64	n8	66	ALA	Peptide
65	n9	24	PRO	Peptide
68	o2	15	LYS	Peptide
75	o9	24	PRO	Peptide
9	s7	130	VAL	Peptide

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37970	0	19104	1323	0
2	S0	1577	0	1567	211	0
2	s0	1583	0	1578	0	0
3	S1	1709	0	1784	189	0
3	s1	1722	0	1793	0	0
4	S2	1635	0	1723	181	0
4	s2	1635	0	1723	0	0
5	S3	1734	0	1817	145	0
5	s3	1734	0	1817	0	0
6	S4	2068	0	2154	238	0
6	s4	2068	0	2154	0	0
7	S5	1609	0	1675	170	0
7	s5	1609	0	1675	0	0
8	S6	1799	0	1879	181	0
8	s6	1755	0	1845	0	0
9	S7	1481	0	1572	166	0
9	s7	1491	0	1578	0	0
10	S8	1489	0	1525	135	0
10	s8	1489	0	1525	0	0
11	S9	1494	0	1573	153	0
11	s9	1494	0	1573	0	0
12	C0	773	0	716	70	0
13	C1	1214	0	1244	89	0
13	c1	1168	0	1231	0	0
14	C2	890	0	885	71	0
14	c2	890	0	884	0	0
15	C3	1192	0	1255	121	0
15	c3	1192	0	1255	0	0
16	C4	891	0	883	125	0
16	c4	949	0	985	0	0
17	C5	977	0	1004	115	0
17	c5	1039	0	1038	0	0
18	C6	1105	0	1166	136	0
18	c6	1111	0	1171	0	0
19	C7	926	0	930	94	0
20	C8	1192	0	1222	149	0
20	c8	1192	0	1222	0	0
21	C9	1112	0	1124	135	0
21	c9	1112	0	1124	0	0
22	D0	855	0	917	96	0
22	d0	882	0	939	0	0
23	D1	684	0	672	86	0
23	d1	684	0	672	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	D2	1021	0	1060	126	0
24	d2	1021	0	1060	0	0
25	D3	1121	0	1196	108	0
25	d3	1121	0	1196	0	0
26	D4	1073	0	1132	123	0
26	d4	1073	0	1132	0	0
27	D5	563	0	603	72	0
27	d5	558	0	598	0	0
28	D6	769	0	815	110	0
28	d6	769	0	815	0	0
29	D7	610	0	632	48	0
29	d7	610	0	633	0	0
30	D8	497	0	535	52	0
30	d8	497	0	535	0	0
31	D9	442	0	427	42	0
31	d9	442	0	429	0	0
32	E0	475	0	525	47	0
32	e0	491	0	542	0	0
33	E1	566	0	602	65	0
33	e1	608	0	657	0	0
34	SR	2437	0	2389	195	0
35	SM	1105	0	966	82	0
36	1	67355	0	33710	2364	0
37	3	2579	0	1302	133	0
37	7	2579	0	1293	96	0
38	4	3353	0	1692	139	0
38	8	3353	0	1692	139	0
39	L2	1914	0	1981	250	0
39	l2	1912	0	1976	0	0
40	L3	3075	0	3142	361	0
40	l3	3075	0	3141	0	0
41	L4	2748	0	2858	382	0
41	l4	2748	0	2858	0	0
42	L5	2375	0	2325	323	0
42	l5	2359	0	2311	0	0
43	L6	1239	0	1326	119	0
43	l6	1248	0	1339	0	0
44	L7	1784	0	1862	228	0
44	l7	1791	0	1869	0	0
45	L8	1804	0	1877	214	0
46	L9	1518	0	1587	194	0
46	l9	1518	0	1587	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	M0	1705	0	1735	252	0
47	m0	1722	0	1755	0	0
48	M1	1353	0	1383	165	0
48	m1	1353	0	1383	0	0
49	M3	1543	0	1608	206	0
49	m3	1548	0	1613	0	0
50	M4	1053	0	1149	125	0
50	m4	1059	0	1154	0	0
51	M5	1720	0	1779	264	0
51	m5	1720	0	1779	0	0
52	M6	1555	0	1659	165	0
52	m6	1555	0	1659	0	0
53	M7	1420	0	1437	169	0
53	m7	1227	0	1236	0	0
54	M8	1441	0	1543	173	0
54	m8	1441	0	1543	0	0
55	M9	1521	0	1617	153	0
55	m9	1521	0	1617	0	0
56	N0	1445	0	1486	173	0
56	n0	1445	0	1487	0	0
57	N1	1276	0	1323	155	0
57	n1	1276	0	1323	0	0
58	N2	796	0	812	89	0
58	n2	778	0	791	0	0
59	N3	1003	0	1047	116	0
59	n3	1003	0	1047	0	0
60	N4	699	0	640	49	0
61	N5	964	0	1025	107	0
61	n5	959	0	1023	0	0
62	N6	993	0	1081	133	0
62	n6	993	0	1081	0	0
63	N7	1092	0	1155	140	0
63	n7	1092	0	1155	0	0
64	N8	1173	0	1214	186	0
64	n8	1173	0	1215	0	0
65	N9	462	0	491	67	0
65	n9	462	0	491	0	0
66	O0	743	0	797	73	0
66	o0	767	0	816	0	0
67	O1	876	0	912	97	0
67	o1	883	0	918	0	0
68	O2	1020	0	1090	125	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
68	o2	1020	0	1090	0	0
69	O3	850	0	880	97	0
69	o3	850	0	880	0	0
70	O4	880	0	945	98	0
70	o4	880	0	945	0	0
71	O5	969	0	1078	119	0
71	o5	965	0	1067	0	0
72	O6	771	0	849	93	0
72	o6	770	0	846	0	0
73	O7	681	0	682	86	0
73	o7	681	0	685	0	0
74	O8	612	0	682	50	0
74	o8	608	0	671	0	0
75	O9	436	0	475	59	0
75	o9	436	0	475	0	0
76	Q0	417	0	455	56	0
76	q0	417	0	458	0	0
77	Q1	233	0	284	21	0
77	q1	233	0	284	0	0
78	Q2	847	0	915	103	0
78	q2	847	0	915	0	0
79	Q3	694	0	734	86	0
79	q3	694	0	736	0	0
80	6	38260	0	19230	1390	0
81	c0	762	0	688	0	0
82	c7	906	0	909	0	0
83	sR	2442	0	2392	0	0
84	sM	681	0	542	0	0
85	5	67376	0	33690	2427	0
86	l8	1763	0	1811	0	0
87	m2	750	0	174	0	0
88	n4	1038	0	1071	0	0
89	p0	1077	0	1013	0	0
90	p1	235	0	52	0	0
90	p2	230	0	49	0	0
91	P	37	0	23	15	0
91	p	40	0	23	0	0
92	1	2296	0	0	258	0
92	2	1057	0	0	102	0
92	3	70	0	0	11	0
92	4	147	0	0	18	0
92	5	2422	0	0	260	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
92	6	1113	0	0	106	0
92	7	77	0	0	10	0
92	8	112	0	0	12	0
92	C3	7	0	0	6	0
92	C5	7	0	0	4	0
92	C7	7	0	0	2	0
92	C8	7	0	0	0	0
92	D9	7	0	0	1	0
92	L3	14	0	0	3	0
92	L4	7	0	0	3	0
92	L6	14	0	0	2	0
92	M0	7	0	0	2	0
92	M5	14	0	0	2	0
92	M6	7	0	0	1	0
92	M7	7	0	0	1	0
92	M8	7	0	0	1	0
92	M9	7	0	0	2	0
92	N9	7	0	0	0	0
92	O3	7	0	0	3	0
92	O4	7	0	0	0	0
92	O7	7	0	0	7	0
92	O9	7	0	0	2	0
92	Q2	7	0	0	4	0
92	S8	7	0	0	3	0
92	S9	7	0	0	4	0
92	SR	7	0	0	0	0
92	c3	7	0	0	0	0
92	c5	7	0	0	0	0
92	c8	7	0	0	0	0
92	d4	7	0	0	0	0
92	l3	14	0	0	0	0
92	l5	14	0	0	0	0
92	l9	7	0	0	0	0
92	m0	21	0	0	0	0
92	m5	14	0	0	0	0
92	m6	7	0	0	0	0
92	m8	7	0	0	0	0
92	m9	7	0	0	0	0
92	n9	7	0	0	0	0
92	o3	7	0	0	0	0
92	o7	14	0	0	0	0
92	q2	7	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
92	s1	7	0	0	0	0
92	s4	7	0	0	0	0
92	s8	7	0	0	0	0
92	s9	7	0	0	0	0
92	sR	7	0	0	0	0
93	1	394	0	0	1	0
93	2	90	0	0	0	0
93	3	7	0	0	0	0
93	4	17	0	0	0	0
93	5	427	0	0	0	0
93	6	126	0	0	0	0
93	7	15	0	0	0	0
93	8	14	0	0	0	0
93	C1	1	0	0	0	0
93	C8	1	0	0	0	0
93	C9	1	0	0	0	0
93	D9	2	0	0	0	0
93	L2	2	0	0	0	0
93	L3	3	0	0	0	0
93	L4	5	0	0	0	0
93	L7	2	0	0	0	0
93	M0	1	0	0	0	0
93	M3	1	0	0	0	0
93	M5	1	0	0	0	0
93	M7	5	0	0	0	0
93	N0	2	0	0	0	0
93	N3	3	0	0	0	0
93	N5	1	0	0	0	0
93	N6	2	0	0	0	0
93	N8	6	0	0	0	0
93	O4	1	0	0	0	0
93	O5	1	0	0	0	0
93	O7	4	0	0	0	0
93	P	1	0	0	0	0
93	Q2	1	0	0	0	0
93	S4	1	0	0	0	0
93	c6	1	0	0	0	0
93	c8	2	0	0	0	0
93	c9	1	0	0	0	0
93	d3	1	0	0	0	0
93	d4	1	0	0	0	0
93	d6	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
93	d7	1	0	0	0	0
93	l2	3	0	0	0	0
93	l3	4	0	0	0	0
93	l5	1	0	0	0	0
93	l6	1	0	0	0	0
93	l7	1	0	0	0	0
93	l9	1	0	0	0	0
93	m0	1	0	0	0	0
93	m4	1	0	0	0	0
93	m5	2	0	0	0	0
93	m6	4	0	0	0	0
93	m7	3	0	0	0	0
93	n0	2	0	0	0	0
93	n3	1	0	0	0	0
93	n6	2	0	0	0	0
93	n8	3	0	0	0	0
93	n9	2	0	0	0	0
93	o2	2	0	0	0	0
93	o3	2	0	0	0	0
93	o4	1	0	0	0	0
93	o9	1	0	0	0	0
93	p	2	0	0	0	0
93	q1	1	0	0	0	0
93	s4	1	0	0	0	0
93	s6	1	0	0	0	0
93	sM	2	0	0	0	0
94	D6	1	0	0	0	0
94	D7	1	0	0	0	0
94	D9	1	0	0	2	0
94	E1	1	0	0	0	0
94	O7	1	0	0	0	0
94	Q0	1	0	0	0	0
94	Q2	1	0	0	3	0
94	Q3	1	0	0	0	0
94	d6	1	0	0	0	0
94	d7	1	0	0	0	0
94	d9	1	0	0	0	0
94	e1	1	0	0	0	0
94	o7	1	0	0	0	0
94	q0	1	0	0	0	0
94	q2	1	0	0	0	0
94	q3	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
95	1	11	0	8	0	0
95	5	11	0	8	5	0
96	1	8	0	11	3	0
96	5	8	0	11	3	0
97	1	23	0	18	13	0
97	5	23	0	18	7	0
98	P	22	0	12	28	0
98	p	22	0	12	0	0
All	All	411589	0	297245	16026	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 23.

All (16026) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:50:THR:CB	17:C5:50:THR:CA	1.74	1.62
96:1:3402:LEU:C	98:P:101:8AN:N3'	1.69	1.45
96:5:3402:LEU:C	98:P:101:8AN:N3'	212.18	1.41
78:Q2:17:CYS:SG	78:Q2:17:CYS:CB	2.09	1.40
78:Q2:17:CYS:CB	94:Q2:501:ZN:ZN	1.20	1.36
78:Q2:17:CYS:SG	94:Q2:501:ZN:ZN	1.18	1.32
56:N0:50:LYS:NZ	37:7:76:A:O2'	300.58	1.18
46:L9:62:ARG:NH2	85:5:3115:C:OP1	328.38	1.10
97:1:3403:SPS:C8	98:P:101:8AN:H5'A	1.81	1.09
23:D1:3:ASN:ND2	23:D1:7:GLN:O	4.18	1.09
36:1:1898:G:OP2	92:1:3468:OHX:N4	1.86	1.07
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.34	1.07
80:6:1150:G:O6	92:6:1968:OHX:N5	1.88	1.07
43:L6:31:ARG:NH1	69:O3:107:ILE:O	1.90	1.05
41:L4:287:THR:HA	41:L4:290:ILE:HD12	1.38	1.04
36:1:2664:C:OP2	48:M1:142:LYS:NZ	1.91	1.04
97:1:3403:SPS:H81	98:P:101:8AN:H8	1.39	1.04
79:Q3:84:ARG:NH2	79:Q3:88:GLU:OE2	1.91	1.04
73:O7:87:SER:O	92:O7:102:OHX:N3	1.91	1.03
40:L3:232:ARG:NH1	40:L3:269:GLN:O	1.91	1.03
42:L5:61:ILE:HG23	42:L5:79:TYR:HE1	2.44	1.02
85:5:2704:A:OP2	92:5:3404:OHX:N5	1.92	1.02
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.42	1.01
54:M8:83:VAL:O	54:M8:85:GLY:N	2.65	1.01
16:C4:50:ALA:O	16:C4:52:ARG:N	2.35	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:66:ARG:NH2	85:5:744:A:OP1	165.37	1.00
85:5:2371:G:O6	92:5:3413:OHX:N6	1.95	1.00
36:1:1233:G:H1	36:1:1255:C:H42	1.10	0.99
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.37	0.99
39:L2:144:ASN:O	39:L2:160:SER:N	2.88	0.99
85:5:1337:A:OP1	92:5:3555:OHX:N1	1.95	0.99
66:O0:30:THR:HG22	66:O0:91:SER:HB2	2.60	0.98
69:O3:19:SER:OG	69:O3:20:LYS:N	4.10	0.98
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.11	0.98
36:1:1592:G:OP2	70:O4:37:LYS:NZ	1.96	0.98
1:2:744:G:OP1	11:S9:54:ARG:NH1	1.96	0.98
36:1:345:G:OP1	36:1:1429:G:N1	1.97	0.97
85:5:1953:G:O6	85:5:2094:C:N4	1.97	0.97
19:C7:27:ASP:O	19:C7:31:ASN:ND2	3.24	0.97
40:L3:30:LYS:O	92:5:3605:OHX:N1	248.41	0.97
45:L8:62:LYS:NZ	51:M5:29:GLU:OE1	4.79	0.97
85:5:2960:C:OP1	92:5:3475:OHX:N5	1.98	0.97
11:S9:17:ARG:NH1	80:6:4:C:O2'	388.93	0.97
44:L7:173:LEU:HD23	44:L7:178:ILE:HG21	1.47	0.97
80:6:1239:U:O4	92:6:1951:OHX:N1	1.97	0.96
6:S4:49:ARG:NH1	80:6:448:C:OP2	379.48	0.96
17:C5:69:GLU:OE1	92:C5:201:OHX:N4	1.98	0.96
73:O7:60:GLY:O	73:O7:62:GLY:N	3.02	0.96
44:L7:224:ILE:HG23	56:N0:36:ILE:HG12	2.57	0.96
18:C6:93:HIS:HA	18:C6:97:VAL:HG13	2.14	0.96
27:D5:38:HIS:HA	27:D5:70:LYS:HG2	9.67	0.96
56:N0:89:ASN:HD21	57:N1:156:TYR:H	1.13	0.96
74:O8:3:ARG:NH2	85:5:1824:U:OP1	147.72	0.96
57:N1:8:ARG:O	57:N1:11:THR:OG1	1.82	0.96
85:5:1365:G:OP2	92:5:3530:OHX:N3	1.99	0.95
80:6:1668:G:N2	80:6:1733:C:O2	1.99	0.95
31:D9:39:CYS:SG	94:D9:101:ZN:ZN	1.52	0.95
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.37	0.95
47:M0:218:ALA:O	92:M0:301:OHX:N3	73.73	0.95
37:3:17:A:OP1	42:L5:2:ALA:N	1.99	0.95
47:M0:66:GLU:OE1	47:M0:69:ARG:NH2	1.99	0.95
70:O4:74:ARG:NH2	85:5:1639:C:OP2	200.17	0.95
85:5:539:C:H42	85:5:552:G:H1	1.14	0.95
36:1:1346:G:O6	36:1:1358:C:N4	2.00	0.95
39:L2:221:LYS:NZ	85:5:2965:U:O2	212.78	0.94
80:6:1293:U:H3	80:6:1322:A:H61	1.11	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:211:LEU:HB3	42:L5:219:PHE:HB2	1.72	0.94
51:M5:49:ARG:NH2	85:5:115:A:OP1	101.38	0.94
50:M4:21:VAL:HG23	50:M4:65:LEU:HA	1.49	0.94
36:1:1686:U:OP1	58:N2:42:LYS:NZ	2.01	0.94
47:M0:148:VAL:O	47:M0:151:GLY:N	2.19	0.94
53:M7:62:ARG:NH1	85:5:412:G:OP1	159.00	0.94
39:L2:48:ILE:HD11	79:Q3:54:ILE:HG12	1.46	0.94
80:6:1370:U:H4'	80:6:1371:A:H4'	1.49	0.94
36:1:1081:U:OP1	92:1:3502:OHX:N6	1.99	0.94
59:N3:33:ASN:HD21	59:N3:63:LYS:H	1.10	0.94
97:5:3403:SPS:HN4	91:P:75:C:P	223.98	0.94
43:L6:174:LEU:HD13	50:M4:117:ARG:HH12	3.68	0.94
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.01	0.94
36:1:2303:A:OP1	77:Q1:23:ARG:NH2	2.01	0.93
79:Q3:73:THR:HG22	79:Q3:76:ALA:H	1.33	0.93
80:6:1060:U:O2'	92:6:2038:OHX:N3	2.01	0.93
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.68	0.93
40:L3:25:ILE:H	40:L3:25:ILE:HD13	1.31	0.93
36:1:2856:G:N7	47:M0:7:ARG:NH2	2.17	0.93
36:1:2216:G:OP1	72:O6:75:LYS:NZ	2.02	0.93
20:C8:123:ARG:HG3	20:C8:133:VAL:HG11	1.48	0.93
62:N6:36:SER:OG	62:N6:37:LYS:N	1.92	0.93
11:S9:107:ARG:NH2	11:S9:148:VAL:O	3.21	0.93
36:1:2208:A:N1	92:1:3577:OHX:N2	2.17	0.93
47:M0:175:ASN:OD1	47:M0:176:LEU:N	5.07	0.93
57:N1:54:HIS:O	57:N1:56:PHE:N	2.64	0.93
76:Q0:99:CYS:SG	76:Q0:115:CYS:SG	3.39	0.93
80:6:1698:G:N2	80:6:1699:G:N7	2.18	0.92
11:S9:126:ARG:NH1	80:6:475:A:OP2	422.73	0.92
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.02	0.92
1:2:1322:C:O2'	1:2:1324:A:N7	2.02	0.92
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.49	0.92
71:O5:101:THR:HB	71:O5:104:GLN:HB2	1.51	0.92
76:Q0:91:CYS:O	76:Q0:126:LYS:NZ	2.02	0.92
85:5:2403:G:O5'	92:5:3724:OHX:N4	2.03	0.92
80:6:915:A:OP1	92:6:1925:OHX:N6	2.02	0.92
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.01	0.92
44:L7:211:SER:H	44:L7:242:SER:HB2	1.34	0.92
85:5:528:U:H2'	85:5:529:A:H8	1.31	0.92
40:L3:221:THR:HG22	40:L3:273:HIS:H	3.97	0.92
41:L4:92:ASN:ND2	85:5:803:C:O2'	146.83	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:953:G:OP1	65:N9:15:LYS:NZ	2.02	0.92
45:L8:161:GLU:OE2	51:M5:26:ARG:NH2	2.88	0.92
1:2:245:U:O4	92:2:1970:OHX:N6	2.02	0.91
9:S7:30:SER:HB2	9:S7:34:LEU:HB2	1.67	0.91
74:O8:58:ASP:OD2	74:O8:61:LYS:N	2.03	0.91
85:5:2234:G:O6	92:5:3465:OHX:N4	2.02	0.91
52:M6:68:ARG:NH1	85:5:2988:C:OP1	217.23	0.91
3:S1:36:SER:HA	3:S1:41:ARG:HE	3.92	0.91
85:5:272:G:OP2	92:5:3574:OHX:N6	2.03	0.91
18:C6:37:THR:O	18:C6:45:ARG:NH1	3.85	0.91
80:6:918:U:H2'	80:6:919:A:H8	1.35	0.91
41:L4:229:ASN:OD1	41:L4:231:ALA:N	2.03	0.91
53:M7:29:THR:HG22	53:M7:87:SER:OG	1.71	0.91
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.04	0.91
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.04	0.90
36:1:1054:A:OP1	92:1:3687:OHX:N5	2.04	0.90
7:S5:112:ARG:HD3	18:C6:43:ILE:HD12	4.55	0.90
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.28	0.90
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.04	0.90
36:1:114:A:OP1	51:M5:54:LYS:NZ	2.03	0.90
41:L4:82:THR:HG23	41:L4:84:ARG:H	3.38	0.90
62:N6:2:ALA:N	85:5:213:A:OP1	80.73	0.90
43:L6:78:ARG:NH1	85:5:3272:C:OP2	246.57	0.90
1:2:749:U:H5'	1:2:750:U:H5''	1.54	0.90
24:D2:55:ASP:O	24:D2:57:ARG:N	2.92	0.90
47:M0:85:PHE:HA	47:M0:140:THR:HG22	2.00	0.90
11:S9:21:SER:HA	11:S9:24:LEU:HB2	2.89	0.90
45:L8:86:THR:O	45:L8:90:THR:OG1	2.56	0.90
46:L9:122:LYS:HD3	46:L9:123:ILE:H	4.47	0.90
26:D4:27:VAL:HG11	26:D4:35:VAL:HG11	2.37	0.90
1:2:134:U:OP1	1:2:136:C:N4	2.05	0.89
6:S4:155:LYS:NZ	80:6:244:A:OP1	344.02	0.89
21:C9:52:GLY:O	21:C9:54:PHE:N	2.05	0.89
62:N6:45:ILE:HD11	62:N6:122:LYS:HB2	1.88	0.89
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.05	0.89
11:S9:8:TYR:O	92:S9:201:OHX:N4	5.19	0.89
53:M7:64:ASN:O	53:M7:80:LYS:NZ	2.63	0.89
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.06	0.89
85:5:20:A:N6	38:8:139:U:O4	2.05	0.89
71:O5:63:ARG:NH2	38:8:97:A:OP1	56.65	0.89
48:M1:148:VAL:HG12	48:M1:153:LYS:HE3	5.34	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:13:LYS:NZ	79:Q3:30:GLU:OE1	2.93	0.89
36:1:25:U:O4	92:1:3408:OHX:N3	2.06	0.89
1:2:1322:C:N4	1:2:1368:G:O6	2.06	0.89
1:2:1185:A:OP1	92:2:1989:OHX:N1	2.05	0.89
34:SR:200:ASN:ND2	34:SR:240:VAL:O	3.00	0.89
39:L2:70:ARG:HH22	85:5:2522:G:H1	173.92	0.89
40:L3:266:ARG:NH2	85:5:2392:C:O2'	208.95	0.89
39:L2:70:ARG:HD2	39:L2:72:ARG:HE	5.19	0.89
36:1:2310:U:OP1	92:1:3675:OHX:N1	2.05	0.89
85:5:3102:G:O6	85:5:3132:C:N4	2.06	0.89
38:4:38:U:O2'	71:O5:83:LYS:NZ	2.05	0.89
39:L2:117:GLU:OE2	39:L2:121:GLY:N	2.45	0.88
47:M0:193:ASP:OD2	47:M0:198:LYS:NZ	5.71	0.88
36:1:148:G:OP2	51:M5:4:TYR:OH	1.90	0.88
69:O3:90:PRO:O	69:O3:92:LYS:N	2.06	0.88
36:1:3181:C:HO2'	52:M6:164:SER:HG	0.97	0.88
42:L5:196:ARG:HA	42:L5:199:ILE:HD12	2.91	0.88
34:SR:179:LYS:NZ	34:SR:191:ASP:OD1	2.07	0.88
36:1:1329:U:O2'	36:1:1330:A:O5'	1.90	0.88
47:M0:81:GLY:O	47:M0:83:ASP:N	2.69	0.88
36:1:2807:U:O2'	36:1:2809:C:OP1	1.92	0.88
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.53	0.88
31:D9:39:CYS:HG	94:D9:101:ZN:ZN	0.56	0.88
39:L2:238:ILE:O	39:L2:240:ALA:N	3.02	0.88
5:S3:22:ASN:OD1	5:S3:34:TYR:OH	1.91	0.88
38:4:85:G:OP2	62:N6:113:LYS:NZ	2.04	0.88
18:C6:139:GLN:NE2	80:6:1465:C:OP1	352.48	0.88
73:O7:32:LYS:NZ	38:8:111:A:OP1	130.27	0.88
46:L9:90:MET:HG2	46:L9:181:VAL:HA	1.56	0.88
54:M8:21:SER:OG	85:5:673:U:OP1	150.11	0.88
21:C9:102:ARG:NH2	80:6:1502:G:N7	405.21	0.88
4:S2:88:LYS:HB3	4:S2:95:ARG:HD2	4.90	0.88
8:S6:177:ARG:NH2	80:6:143:G:N7	310.69	0.88
36:1:1085:A:OP2	57:N1:35:LYS:NZ	2.07	0.87
17:C5:123:TYR:OH	20:C8:126:ARG:NH1	2.07	0.87
40:L3:99:LEU:O	85:5:3004:C:O2'	245.57	0.87
49:M3:64:LYS:HG3	64:N8:69:TRP:CD1	2.09	0.87
75:O9:23:LEU:HD22	75:O9:24:PRO:HD2	1.54	0.87
1:2:1439:C:H5''	1:2:1440:C:H5''	1.57	0.87
41:L4:93:MET:HE2	41:L4:93:MET:H	2.38	0.87
45:L8:163:VAL:HG13	45:L8:166:LEU:HD12	3.31	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:38:VAL:HG13	4:S2:39:THR:HG23	1.57	0.87
36:1:189:G:OP2	62:N6:46:LYS:NZ	2.06	0.87
36:1:2946:A:H5''	36:1:2947:G:H5'	1.57	0.87
36:1:944:C:OP1	68:O2:33:ARG:NH1	2.08	0.87
1:2:975:A:H2	1:2:995:U:H3	1.17	0.87
6:S4:104:ASP:HB3	6:S4:106:LYS:H	2.50	0.87
85:5:3274:A:H3'	85:5:3275:U:H5''	1.56	0.87
36:1:627:U:O4	92:1:3532:OHX:N5	2.08	0.86
10:S8:5:ARG:NH1	10:S8:29:LEU:O	2.08	0.86
68:O2:19:ARG:HH11	68:O2:28:VAL:HG13	2.83	0.86
8:S6:159:ARG:NH2	80:6:79:C:OP1	348.83	0.86
72:O6:5:THR:HG23	72:O6:12:ASN:HB2	1.57	0.86
2:S0:41:ARG:HH11	2:S0:45:VAL:HG21	1.39	0.86
36:1:1492:G:O3'	75:O9:48:LYS:NZ	2.09	0.86
26:D4:29:HIS:HB2	26:D4:32:ARG:HB2	3.82	0.86
8:S6:98:ARG:NH1	8:S6:101:ILE:O	2.07	0.86
36:1:2952:G:O6	92:1:3710:OHX:N2	2.09	0.86
36:1:944:C:H4'	68:O2:33:ARG:NH1	1.91	0.86
91:P:75:C:H2'	98:P:101:8AN:O4'	1.75	0.86
52:M6:179:ALA:O	52:M6:182:ASN:ND2	6.96	0.86
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.44	0.86
1:2:7:G:N7	4:S2:205:ARG:NH1	2.23	0.86
69:O3:21:ARG:NH2	85:5:2380:U:OP1	230.00	0.86
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.07	0.86
36:1:944:C:O2'	68:O2:33:ARG:NH2	2.08	0.86
37:3:71:G:H2'	37:3:72:A:H8	1.40	0.86
80:6:452:A:OP2	92:6:1916:OHX:N1	2.09	0.86
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.38	0.86
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.08	0.86
59:N3:54:LEU:HD21	59:N3:119:GLY:HA3	2.57	0.86
85:5:812:G:N7	92:5:3544:OHX:N2	2.23	0.85
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	2.75	0.85
13:C1:96:LYS:NZ	80:6:374:U:OP1	346.12	0.85
1:2:1542:A:H5''	20:C8:135:GLY:HA3	1.58	0.85
36:1:3259:U:H5'	36:1:3259:U:H6	1.41	0.85
36:1:3310:A:OP1	53:M7:74:LYS:NZ	2.09	0.85
47:M0:140:THR:HG21	47:M0:144:ASN:HD22	1.39	0.85
9:S7:107:ARG:NH1	80:6:743:U:OP2	343.43	0.85
36:1:1011:A:OP1	47:M0:40:LYS:NZ	2.10	0.85
85:5:2922:G:O6	92:5:3649:OHX:N2	2.10	0.85
65:N9:10:HIS:O	65:N9:12:GLN:NE2	2.09	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.09	0.85
1:2:1520:C:O2'	1:2:1523:G:O6	1.94	0.85
47:M0:157:TYR:CD1	85:5:2836:C:H4'	311.36	0.85
36:1:276:U:O2	51:M5:93:LYS:NZ	2.09	0.85
85:5:2310:U:OP1	92:5:3702:OHX:N4	2.09	0.85
12:C0:14:TYR:OH	12:C0:34:GLU:OE1	1.94	0.85
71:O5:106:LYS:NZ	85:5:152:U:OP1	66.58	0.85
37:7:112:G:OP2	92:7:205:OHX:N6	2.09	0.85
80:6:1280:C:H2'	80:6:1281:G:H8	1.40	0.85
22:D0:28:SER:OG	22:D0:111:GLY:O	2.54	0.85
46:L9:75:VAL:HA	46:L9:78:MET:HE2	1.84	0.85
97:1:3403:SPS:C6	98:P:101:8AN:H5'A	2.05	0.85
5:S3:94:ARG:HH21	35:SM:134:LEU:HD23	1.41	0.85
36:1:1345:G:N7	92:1:3496:OHX:N4	2.24	0.85
85:5:2807:U:O2'	85:5:2809:C:OP1	1.93	0.85
4:S2:218:ILE:O	4:S2:221:THR:OG1	2.95	0.85
1:2:1506:G:N7	21:C9:68:ARG:NH1	2.25	0.84
36:1:2885:C:N4	36:1:2886:U:O4	2.11	0.84
80:6:491:C:N4	80:6:496:G:O6	2.10	0.84
24:D2:6:VAL:HG13	24:D2:29:PRO:HD2	1.58	0.84
40:L3:128:LYS:NZ	85:5:3294:A:OP1	197.07	0.84
34:SR:82:SER:HG	34:SR:92:TRP:HE1	1.63	0.84
40:L3:185:GLY:O	40:L3:191:LYS:NZ	3.53	0.84
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.07	0.84
1:2:301:A:OP2	92:2:1942:OHX:N2	2.09	0.84
85:5:915:A:O2'	85:5:917:A:OP1	1.95	0.84
92:1:3616:OHX:N1	55:M9:14:VAL:O	2.10	0.84
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	1.58	0.84
85:5:1765:U:OP1	85:5:1765:U:H4'	1.77	0.84
56:N0:12:ARG:HB3	56:N0:24:LEU:HD23	1.86	0.84
7:S5:84:LYS:HG2	7:S5:92:ARG:HH12	1.43	0.84
34:SR:178:VAL:HB	34:SR:192:PHE:HB2	2.19	0.84
80:6:1636:C:H4'	80:6:1637:C:H5'	1.59	0.84
72:O6:51:SER:OG	72:O6:54:GLU:OE1	2.86	0.84
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.59	0.84
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.60	0.84
41:L4:89:ALA:O	41:L4:91:GLY:N	2.11	0.84
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.59	0.84
36:1:336:A:OP2	62:N6:9:SER:OG	1.96	0.84
11:S9:133:HIS:NE2	80:6:513:U:OP1	446.56	0.84
7:S5:185:ARG:NH1	80:6:1471:A:OP1	331.93	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:39:THR:OG1	21:C9:43:ASN:ND2	2.09	0.84
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.58	0.84
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	1.95	0.84
70:O4:58:ARG:HG3	70:O4:59:PRO:HD2	3.80	0.84
97:1:3403:SPS:C6	98:P:101:8AN:C5'	2.56	0.84
21:C9:37:VAL:HG12	21:C9:39:THR:H	3.77	0.83
85:5:1310:G:O6	92:5:3527:OHX:N4	2.11	0.83
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.42	0.83
53:M7:69:ARG:HG2	53:M7:79:THR:HG22	3.17	0.83
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.59	0.83
85:5:2444:C:H42	85:5:2503:G:H1	1.22	0.83
85:5:3276:G:OP2	85:5:3276:G:H2'	1.78	0.83
38:8:79:A:H3'	38:8:80:A:C8	2.14	0.83
63:N7:102:GLU:H	63:N7:107:ARG:HH21	2.53	0.83
1:2:1185:A:OP2	92:2:1989:OHX:N2	2.11	0.83
54:M8:36:LEU:O	54:M8:40:THR:OG1	1.96	0.83
77:Q1:2:ARG:HG3	77:Q1:4:LYS:H	2.63	0.83
39:L2:79:ASN:ND2	39:L2:166:ILE:O	3.17	0.83
36:1:3006:A:OP1	52:M6:149:TYR:OH	1.96	0.83
36:1:944:C:H4'	68:O2:33:ARG:HH12	1.42	0.83
85:5:2402:A:OP2	92:5:3608:OHX:N3	2.11	0.83
36:1:3090:U:OP1	40:L3:270:ARG:NH2	2.10	0.83
41:L4:145:ILE:O	92:L4:401:OHX:N5	2.11	0.83
78:Q2:61:LYS:NZ	78:Q2:61:LYS:HB3	1.94	0.83
38:4:70:G:O6	92:O7:102:OHX:N4	2.11	0.83
61:N5:54:TYR:OH	38:8:60:U:OP1	63.97	0.83
85:5:1345:G:N2	85:5:1360:C:C2	2.47	0.83
85:5:2996:U:OP1	85:5:2996:U:H4'	1.79	0.83
80:6:1163:A:N3	80:6:1613:U:O2'	2.11	0.83
41:L4:219:LEU:O	41:L4:221:ASN:N	2.22	0.83
4:S2:140:ARG:NH1	23:D1:10:GLU:OE1	7.24	0.83
34:SR:26:SER:OG	34:SR:75:ALA:O	2.44	0.83
36:1:2631:U:H2'	36:1:2632:G:H8	1.41	0.83
36:1:438:A:O2'	36:1:495:G:O2'	1.94	0.83
39:L2:70:ARG:HD2	39:L2:72:ARG:NE	5.28	0.83
42:L5:22:ARG:NH1	42:L5:28:THR:OG1	4.58	0.83
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.10	0.83
85:5:3055:U:O2'	85:5:3057:U:OP1	1.94	0.82
61:N5:105:VAL:HG11	61:N5:126:LEU:HD22	1.58	0.82
66:O0:45:ALA:O	66:O0:48:THR:OG1	4.56	0.82
1:2:320:U:H3'	1:2:321:C:H5''	1.61	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:408:A:OP2	92:5:3601:OHX:N6	2.12	0.82
85:5:528:U:H2'	85:5:529:A:C8	2.14	0.82
80:6:825:U:HO2'	80:6:826:U:H6	1.27	0.82
80:6:826:U:O4	92:6:1920:OHX:N3	2.12	0.82
16:C4:132:ARG:HB2	80:6:1787:C:OP2	293.82	0.82
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.12	0.82
80:6:479:C:O2	80:6:510:G:N2	2.13	0.82
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.60	0.82
53:M7:120:ASN:OD1	53:M7:120:ASN:N	2.86	0.82
1:2:1512:C:OP1	7:S5:112:ARG:NH1	2.11	0.82
36:1:1678:G:O6	58:N2:74:LYS:NZ	2.12	0.82
85:5:1346:G:H1	85:5:1358:C:H42	1.27	0.82
71:O5:49:LYS:NZ	38:8:63:G:O2'	49.31	0.82
40:L3:361:THR:H	40:L3:371:GLN:HE22	3.12	0.82
57:N1:87:LYS:NZ	85:5:2728:G:N7	212.13	0.82
64:N8:65:GLN:O	64:N8:67:HIS:N	2.11	0.82
1:2:838:A:C2	1:2:840:U:H1'	2.15	0.82
41:L4:181:VAL:O	41:L4:182:LEU:HB2	1.77	0.82
79:Q3:42:CYS:HB2	79:Q3:60:CYS:SG	4.37	0.82
85:5:674:G:O6	85:5:788:C:N4	2.11	0.82
62:N6:112:ASP:HB2	62:N6:115:ARG:HB2	1.60	0.82
10:S8:120:THR:OG1	92:S8:301:OHX:N1	3.64	0.82
36:1:2725:U:H5''	36:1:2726:C:OP2	1.80	0.82
1:2:1341:G:H2'	1:2:1342:C:C6	2.15	0.82
80:6:158:U:O2'	80:6:160:C:OP2	1.98	0.82
55:M9:13:SER:OG	55:M9:38:ARG:NH1	4.02	0.82
34:SR:164:ASP:OD2	34:SR:166:SER:OG	1.98	0.82
22:D0:20:ILE:HD12	22:D0:100:VAL:HG21	3.63	0.82
23:D1:64:GLU:HG3	29:D7:3:LEU:HG	1.92	0.82
1:2:1222:U:O4	92:2:1924:OHX:N4	2.12	0.82
54:M8:38:ARG:NH2	85:5:1348:U:OP2	187.87	0.82
43:L6:69:PHE:N	43:L6:142:ASP:OD2	2.13	0.82
71:O5:85:THR:HB	71:O5:88:LEU:HB2	2.40	0.82
36:1:695:C:OP1	41:L4:271:LYS:NZ	2.12	0.82
80:6:67:A:O2'	80:6:69:G:OP1	1.97	0.82
71:O5:76:GLN:O	71:O5:81:ARG:NH1	2.12	0.82
51:M5:157:LYS:NZ	85:5:58:G:OP1	85.29	0.81
40:L3:171:LEU:O	92:L3:402:OHX:N6	2.12	0.81
41:L4:62:ALA:HB1	41:L4:76:ARG:O	1.80	0.81
47:M0:10:ARG:NH2	47:M0:56:GLU:OE1	2.13	0.81
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	1.61	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:991:G:O2'	57:N1:41:ASP:OD2	1.98	0.81
85:5:1596:C:O2'	85:5:1696:A:N3	2.13	0.81
25:D3:70:LYS:HB3	25:D3:93:LEU:HD22	1.63	0.81
46:L9:149:ASN:N	46:L9:149:ASN:OD1	2.48	0.81
51:M5:168:GLY:O	51:M5:170:LYS:N	2.94	0.81
57:N1:103:GLN:HE21	57:N1:104:GLU:N	1.77	0.81
2:S0:108:THR:OG1	2:S0:135:GLU:OE1	2.78	0.81
85:5:2568:C:N4	85:5:2574:G:O6	2.14	0.81
1:2:850:G:OP2	15:C3:3:ARG:NH1	2.14	0.81
80:6:561:G:N2	80:6:584:C:O2	2.13	0.81
47:M0:156:ARG:NH1	47:M0:163:GLN:O	2.97	0.81
91:P:75:C:H5''	98:P:101:8AN:O2P	1.80	0.81
1:2:1225:A:OP1	17:C5:59:LYS:NZ	2.13	0.81
1:2:414:C:O2	1:2:419:G:N2	2.13	0.81
40:L3:37:ARG:HG2	40:L3:187:SER:H	1.42	0.81
56:N0:66:GLU:OE1	56:N0:99:ARG:N	2.12	0.81
67:O1:41:LYS:NZ	67:O1:47:ASP:OD1	2.29	0.81
36:1:2896:A:OP1	76:Q0:102:ARG:NE	2.11	0.81
36:1:533:A:O2'	36:1:535:G:OP2	1.97	0.81
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.13	0.81
47:M0:169:LYS:O	47:M0:170:LYS:HD2	5.32	0.81
36:1:224:C:O2	62:N6:103:LYS:NZ	2.13	0.81
1:2:1190:C:H42	1:2:1439:C:H41	1.27	0.81
59:N3:2:SER:N	59:N3:56:ASP:OD1	5.74	0.81
29:D7:70:LYS:NZ	80:6:1050:G:OP1	354.93	0.81
3:S1:111:ARG:HB3	28:D6:68:TYR:HD2	1.46	0.81
41:L4:302:ALA:HB2	54:M8:39:ARG:NH2	2.01	0.81
73:O7:66:TYR:OH	73:O7:73:ARG:NH2	3.63	0.81
36:1:700:C:OP1	49:M3:65:TYR:OH	1.99	0.81
19:C7:7:LYS:NZ	80:6:1316:G:OP2	405.70	0.81
24:D2:15:ASN:HD21	24:D2:71:LYS:HG3	3.76	0.81
3:S1:109:LYS:O	3:S1:112:SER:OG	2.14	0.81
36:1:2971:A:N7	91:P:74:C:O5'	2.13	0.81
58:N2:103:TYR:OH	85:5:1677:G:OP2	146.22	0.81
51:M5:188:ARG:NH2	85:5:31:C:OP2	121.27	0.81
56:N0:11:GLY:HA2	56:N0:59:VAL:HG23	1.62	0.81
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.67	0.81
36:1:3165:A:H61	36:1:3285:C:H42	1.29	0.81
85:5:1001:G:N2	85:5:1041:U:OP1	2.13	0.81
85:5:2677:G:OP2	92:5:3656:OHX:N5	2.13	0.81
80:6:1307:U:O4	80:6:1318:G:N2	2.13	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:838:G:O6	92:6:1955:OHX:N1	2.14	0.81
16:C4:13:VAL:HG13	16:C4:77:THR:H	1.43	0.81
17:C5:68:PRO:O	92:C5:201:OHX:N5	7.37	0.81
1:2:1085:G:OP1	24:D2:76:SER:OG	1.99	0.81
49:M3:165:SER:O	49:M3:167:PHE:N	2.14	0.81
51:M5:13:LYS:O	51:M5:16:SER:OG	1.99	0.81
52:M6:39:GLU:HG2	52:M6:40:GLU:HG2	1.62	0.81
69:O3:13:HIS:NE2	69:O3:28:SER:OG	2.23	0.81
1:2:9:U:O4	92:2:2038:OHX:N6	2.13	0.80
72:O6:28:TYR:O	92:5:3692:OHX:N2	104.17	0.80
80:6:27:U:H2'	80:6:28:A:H8	1.44	0.80
26:D4:65:GLY:N	80:6:532:U:OP1	428.57	0.80
27:D5:56:THR:H	27:D5:103:ARG:HH11	1.27	0.80
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.63	0.80
80:6:700:C:O2	80:6:738:G:N2	2.14	0.80
41:L4:143:GLU:O	92:L4:401:OHX:N5	2.14	0.80
53:M7:53:ASP:O	92:M7:201:OHX:N3	2.14	0.80
61:N5:48:SER:OG	61:N5:49:LYS:N	3.12	0.80
36:1:2818:U:H6	36:1:2818:U:H5'	1.46	0.80
36:1:2854:U:OP1	47:M0:61:SER:OG	1.99	0.80
85:5:801:A:O2'	92:5:3529:OHX:N1	2.14	0.80
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	1.62	0.80
68:O2:34:LYS:O	68:O2:36:LYS:NZ	2.14	0.80
33:E1:126:CYS:HB3	33:E1:130:VAL:HG21	2.83	0.80
3:S1:108:ASP:N	3:S1:108:ASP:OD1	3.14	0.80
36:1:1171:G:N7	92:1:3494:OHX:N5	2.30	0.80
80:6:1543:A:N6	80:6:1568:C:O2	2.15	0.80
80:6:1368:G:O6	92:6:1939:OHX:N4	2.14	0.80
40:L3:95:THR:O	40:L3:98:GLY:N	2.14	0.80
42:L5:129:TYR:OH	42:L5:175:HIS:O	1.98	0.80
47:M0:24:ARG:O	47:M0:26:VAL:HG13	1.82	0.80
49:M3:166:ALA:HB1	64:N8:147:LEU:HD21	2.24	0.80
36:1:1134:G:O2'	36:1:2642:A:N3	2.12	0.80
36:1:668:G:O6	36:1:794:U:N3	2.13	0.80
85:5:2759:U:H5''	85:5:2760:C:H5'	1.60	0.80
16:C4:107:ARG:HH21	16:C4:107:ARG:HB2	2.74	0.80
26:D4:20:ARG:HE	26:D4:22:GLN:HE21	4.35	0.80
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.14	0.80
72:O6:98:ARG:HD2	72:O6:98:ARG:H	1.47	0.80
75:O9:28:ARG:HH11	75:O9:36:ARG:HH11	6.75	0.80
36:1:1119:C:OP2	92:1:3490:OHX:N1	2.14	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.14	0.80
36:1:408:A:OP1	92:1:3589:OHX:N3	2.15	0.80
1:2:837:U:O4	55:M9:173:ARG:NH1	2.14	0.80
20:C8:57:ARG:NH1	80:6:1534:G:OP2	341.17	0.80
48:M1:155:THR:HG1	48:M1:158:ASP:H	1.29	0.80
57:N1:88:ARG:NH2	65:N9:31:SER:OG	2.14	0.80
71:O5:85:THR:HG22	71:O5:87:ALA:H	1.51	0.80
1:2:1555:G:H1'	7:S5:185:ARG:HH12	1.47	0.80
38:4:34:U:O2'	38:4:35:C:OP2	1.99	0.80
46:L9:4:ILE:N	56:N0:142:GLN:OE1	2.63	0.80
64:N8:12:ARG:NH1	85:5:1431:G:OP2	147.33	0.80
70:O4:37:LYS:NZ	85:5:1591:G:OP1	159.59	0.80
36:1:1854:C:OP2	92:1:3566:OHX:N5	2.14	0.80
45:L8:65:LEU:HD12	51:M5:25:VAL:HG13	2.11	0.80
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.15	0.80
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.46	0.80
37:3:71:G:H2'	37:3:72:A:C8	2.17	0.80
80:6:1097:U:H4'	80:6:1098:U:H5'	1.62	0.80
18:C6:82:ARG:HH12	18:C6:114:ARG:HG3	3.62	0.80
44:L7:44:ILE:HD13	44:L7:180:SER:HB3	1.62	0.80
36:1:3058:U:OP1	67:O1:28:ARG:NH2	2.15	0.80
10:S8:10:LYS:NZ	80:6:339:C:OP2	283.53	0.79
46:L9:5:GLN:OE1	46:L9:6:THR:N	2.72	0.79
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.00	0.79
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.66	0.79
34:SR:112:SER:OG	34:SR:155:ARG:NH1	3.01	0.79
17:C5:130:ARG:NH2	35:SM:65:THR:O	3.22	0.79
78:Q2:61:LYS:HB3	78:Q2:61:LYS:HZ2	1.47	0.79
4:S2:153:SER:OG	4:S2:154:LEU:N	2.88	0.79
36:1:883:A:H5'	53:M7:133:HIS:HA	1.63	0.79
3:S1:157:GLN:O	3:S1:159:SER:N	2.14	0.79
4:S2:173:PRO:O	4:S2:176:SER:OG	3.14	0.79
36:1:2960:C:H2'	36:1:2961:G:C8	2.16	0.79
13:C1:4:GLU:HG2	13:C1:5:LEU:HG	1.63	0.79
46:L9:140:VAL:HG22	46:L9:143:GLU:HB2	2.18	0.79
59:N3:20:GLY:HA2	59:N3:35:TYR:CE1	2.17	0.79
36:1:2960:C:H2'	36:1:2961:G:H8	1.46	0.79
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.17	0.79
36:1:3060:C:OP1	92:1:3572:OHX:N4	2.14	0.79
45:L8:193:LYS:NZ	85:5:145:G:OP2	113.61	0.79
17:C5:18:ARG:NH1	20:C8:91:ASP:O	3.96	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:3:ASP:O	26:D4:5:VAL:N	2.16	0.79
52:M6:121:PRO:HA	52:M6:124:LEU:HD22	2.75	0.79
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.73	0.79
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.24	0.79
80:6:1213:G:O2'	80:6:1244:A:N6	2.16	0.79
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.62	0.79
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.65	0.79
56:N0:112:ALA:HB2	85:5:1321:G:N2	295.91	0.79
58:N2:56:VAL:HG22	58:N2:65:VAL:HG22	1.64	0.79
36:1:2157:G:N2	36:1:2177:G:O2'	2.15	0.79
36:1:2916:U:H1'	59:N3:44:SER:HB3	1.65	0.79
80:6:837:G:O6	92:6:1955:OHX:N1	2.15	0.79
38:8:1:A:OP1	92:8:201:OHX:N5	2.15	0.79
23:D1:74:GLN:HG2	23:D1:79:LEU:HB2	3.98	0.79
41:L4:93:MET:HE2	41:L4:93:MET:N	3.17	0.79
73:O7:88:ALA:O	92:O7:102:OHX:N1	2.16	0.79
36:1:1718:G:N2	36:1:1726:C:O2	2.15	0.79
1:2:1471:G:H3'	1:2:1498:A:H61	1.48	0.79
39:L2:29:LEU:HA	39:L2:76:PHE:HE1	1.48	0.79
6:S4:159:THR:HB	6:S4:227:VAL:HG23	1.64	0.79
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.14	0.79
1:2:405:C:OP1	92:2:1920:OHX:N4	2.15	0.79
46:L9:23:ARG:O	46:L9:24:ILE:HD13	4.23	0.79
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.15	0.78
1:2:913:A:OP1	28:D6:32:LYS:NZ	2.15	0.78
1:2:941:U:O4	15:C3:12:SER:OG	2.01	0.78
85:5:567:G:O6	92:5:3628:OHX:N2	2.16	0.78
80:6:1018:U:H2'	80:6:1019:A:C8	2.18	0.78
80:6:647:G:N2	80:6:687:G:H22	1.80	0.78
36:1:2794:G:O2'	36:1:2795:U:OP2	1.99	0.78
85:5:712:G:H2'	85:5:713:U:C6	2.17	0.78
41:L4:181:VAL:HG12	41:L4:182:LEU:H	1.48	0.78
54:M8:178:ARG:HE	64:N8:50:PRO:HG2	1.47	0.78
5:S3:70:THR:HG22	5:S3:86:LEU:HD13	2.36	0.78
36:1:3066:U:O4	92:1:3671:OHX:N3	2.17	0.78
36:1:3224:G:O6	92:1:3430:OHX:N4	2.16	0.78
85:5:2402:A:O2'	92:5:3724:OHX:N3	2.17	0.78
37:7:80:G:O6	37:7:100:C:N4	2.14	0.78
53:M7:10:ASN:O	53:M7:14:SER:OG	2.00	0.78
1:2:684:U:H3	1:2:720:A:H61	1.28	0.78
41:L4:292:SER:HB3	41:L4:295:ILE:HB	1.65	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:101:THR:HG22	71:O5:103:LYS:H	1.49	0.78
44:L7:151:ARG:NH1	44:L7:244:ASN:O	3.15	0.78
91:P:75:C:H2'	98:P:101:8AN:C1'	2.14	0.78
5:S3:141:LYS:NZ	80:6:1275:A:N3	390.40	0.78
21:C9:119:LYS:NZ	80:6:1369:U:OP1	440.27	0.78
63:N7:73:LYS:HD2	63:N7:74:VAL:O	2.61	0.78
71:O5:88:LEU:O	71:O5:90:ARG:N	2.17	0.78
48:M1:41:SER:O	48:M1:75:LYS:NZ	2.13	0.78
64:N8:103:ASP:OD2	64:N8:106:ALA:N	2.15	0.78
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	1.64	0.78
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	2.32	0.78
36:1:560:G:OP1	50:M4:83:LYS:NZ	2.17	0.78
36:1:980:A:H2'	36:1:981:U:N1	1.97	0.78
85:5:1438:U:H2'	85:5:1439:U:H6	1.47	0.78
80:6:1238:A:OP2	92:6:1951:OHX:N1	2.17	0.78
36:1:1915:A:H5''	55:M9:84:THR:HG22	1.66	0.78
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.17	0.78
85:5:2818:U:H6	85:5:2818:U:H5'	1.47	0.78
56:N0:92:LYS:NZ	56:N0:109:ASP:OD2	2.13	0.78
36:1:819:U:OP1	73:O7:10:LYS:NZ	2.16	0.78
36:1:1196:C:O2	92:3:204:OHX:N2	2.17	0.78
36:1:943:U:O2	36:1:1431:G:H5''	1.84	0.78
36:1:1791:C:H2'	36:1:1792:C:C6	2.18	0.78
36:1:2137:U:OP2	36:1:2142:A:N6	2.15	0.78
16:C4:112:ILE:HG22	16:C4:113:GLY:H	3.34	0.78
25:D3:96:VAL:HG12	25:D3:127:VAL:HG21	5.02	0.78
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.17	0.78
39:L2:42:ARG:HD2	39:L2:87:PHE:CD1	3.17	0.78
45:L8:221:ASN:HA	45:L8:225:LYS:HD2	5.36	0.78
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.65	0.78
63:N7:46:ILE:HG12	63:N7:49:TYR:CE1	3.48	0.78
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	2.09	0.78
1:2:619:A:HO2'	1:2:1123:G:HO2'	1.32	0.77
85:5:2218:G:N2	85:5:2227:C:O2	2.17	0.77
85:5:703:G:O2'	85:5:787:G:H4'	1.83	0.77
13:C1:76:VAL:HG12	13:C1:85:VAL:O	2.68	0.77
40:L3:290:ASP:OD2	40:L3:292:ALA:N	5.12	0.77
36:1:73:C:N3	49:M3:59:ARG:NH1	2.31	0.77
67:O1:20:LEU:O	67:O1:28:ARG:NH2	3.22	0.77
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	2.16	0.77
36:1:1108:U:H2'	36:1:1109:U:H6	1.47	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3346:U:H3	36:1:3359:A:H61	1.33	0.77
1:2:778:U:OP1	24:D2:82:LYS:NZ	2.17	0.77
85:5:2993:G:H2'	85:5:3142:A:N6	1.99	0.77
92:5:3706:OHX:N1	92:8:210:OHX:N1	2.32	0.77
40:L3:220:VAL:O	40:L3:334:ARG:NH1	2.42	0.77
4:S2:101:VAL:HG22	4:S2:115:ILE:HG23	1.87	0.77
42:L5:277:LEU:HD11	37:7:62:U:H5''	338.65	0.77
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.20	0.77
60:N4:6:ASP:HB3	60:N4:10:GLY:H	2.09	0.77
36:1:3389:U:O2'	36:1:3390:G:OP2	2.02	0.77
36:1:409:A:OP2	92:1:3589:OHX:N6	2.17	0.77
80:6:53:G:H2'	80:6:54:C:O4'	1.83	0.77
24:D2:57:ARG:NH2	29:D7:26:GLN:OE1	2.18	0.77
40:L3:196:ARG:O	40:L3:196:ARG:NE	2.18	0.77
2:S0:117:GLU:O	4:S2:40:LYS:NZ	2.16	0.77
1:2:1477:C:H2'	1:2:1478:C:H6	1.49	0.77
40:L3:53:MET:HE2	40:L3:77:THR:HG22	1.65	0.77
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.17	0.77
47:M0:174:THR:OG1	47:M0:175:ASN:O	5.04	0.77
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.16	0.77
35:SM:23:LYS:HD2	35:SM:23:LYS:H	1.50	0.77
34:SR:156:VAL:HA	34:SR:169:ILE:HG22	2.06	0.77
85:5:1329:U:O2'	85:5:1330:A:OP1	2.01	0.77
80:6:1230:A:H2	80:6:1255:G:H21	1.28	0.77
30:D8:22:ARG:NH1	80:6:1619:C:O2	339.11	0.77
52:M6:188:SER:O	52:M6:192:LYS:HG2	2.20	0.77
57:N1:3:LYS:NZ	85:5:2642:A:OP2	233.39	0.77
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	1.59	0.77
63:N7:36:HIS:CD2	63:N7:74:VAL:HG11	2.52	0.77
4:S2:45:VAL:HG21	4:S2:68:ILE:HG23	1.65	0.77
5:S3:75:LYS:HB3	12:C0:22:VAL:HG22	5.10	0.77
1:2:1483:C:OP1	21:C9:122:ARG:NH2	2.18	0.77
85:5:2537:U:O2'	85:5:2538:U:O4'	2.03	0.77
36:1:696:C:OP1	41:L4:272:VAL:HG23	1.85	0.77
63:N7:26:VAL:HG11	63:N7:96:VAL:HB	1.65	0.77
64:N8:3:SER:O	64:N8:6:THR:HG22	3.60	0.77
74:O8:17:ARG:NH2	85:5:1824:U:O3'	137.03	0.77
36:1:1662:G:O6	92:1:3422:OHX:N2	2.18	0.77
1:2:1750:G:OP2	1:2:1753:U:O2'	2.03	0.77
1:2:777:U:O2'	1:2:778:U:O2	2.03	0.77
85:5:738:A:H2'	85:5:739:G:H8	1.50	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.18	0.77
58:N2:20:SER:OG	58:N2:21:SER:N	2.65	0.77
10:S8:171:SER:OG	10:S8:178:ARG:O	3.82	0.77
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.16	0.77
85:5:2840:C:OP1	92:5:3635:OHX:N3	2.17	0.77
9:S7:98:ILE:N	80:6:694:U:O2	367.92	0.77
42:L5:107:ARG:NH2	42:L5:119:TYR:O	2.18	0.77
45:L8:146:LYS:NZ	45:L8:173:MET:O	3.68	0.77
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.66	0.77
51:M5:84:PRO:HA	51:M5:87:GLN:HG3	1.67	0.77
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.18	0.77
55:M9:74:ARG:NH1	85:5:1942:U:OP2	208.95	0.76
85:5:1066:G:OP1	92:5:3733:OHX:N2	2.19	0.76
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.32	0.76
56:N0:89:ASN:HD21	57:N1:156:TYR:N	1.83	0.76
1:2:154:G:OP1	8:S6:2:LYS:NZ	2.18	0.76
1:2:723:A:H2'	1:2:724:C:H5''	1.67	0.76
85:5:652:G:OP2	92:5:3671:OHX:N4	2.17	0.76
80:6:271:A:C2	80:6:285:G:C6	2.73	0.76
27:D5:71:ILE:HG21	27:D5:76:ALA:HB2	3.44	0.76
45:L8:75:ILE:O	45:L8:77:GLN:N	2.18	0.76
48:M1:133:ARG:HD3	48:M1:152:HIS:CD2	3.83	0.76
36:1:2554:A:N7	79:Q3:62:LYS:NZ	2.29	0.76
85:5:675:C:O2'	85:5:679:U:OP1	2.02	0.76
80:6:1227:A:H4'	80:6:1228:G:H5'	1.67	0.76
80:6:351:C:OP1	80:6:630:A:O2'	2.02	0.76
42:L5:61:ILE:HG23	42:L5:79:TYR:CE1	2.72	0.76
41:L4:352:ALA:HB2	44:L7:71:ALA:O	2.07	0.76
46:L9:65:VAL:O	46:L9:68:LEU:N	2.19	0.76
49:M3:94:GLY:HA3	49:M3:119:TYR:OH	2.78	0.76
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.65	0.76
70:O4:96:GLU:HA	70:O4:99:LYS:HD2	4.17	0.76
36:1:1759:C:N4	36:1:1766:G:O6	2.13	0.76
3:S1:116:LYS:NZ	80:6:1799:U:OP2	329.74	0.76
80:6:973:A:H2'	80:6:974:A:H8	1.50	0.76
22:D0:50:LEU:HD21	22:D0:95:ALA:HB2	1.65	0.76
85:5:2211:U:H5	85:5:2234:G:H1	1.31	0.76
17:C5:43:ARG:NH1	80:6:1553:G:O6	398.15	0.76
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.49	0.76
42:L5:122:VAL:O	42:L5:124:GLU:N	4.47	0.76
52:M6:157:GLU:OE2	52:M6:160:ARG:NH1	2.18	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	1.93	0.76
6:S4:259:GLN:OE1	6:S4:260:GLY:N	3.39	0.76
10:S8:120:THR:O	92:S8:301:OHX:N4	6.00	0.76
36:1:1844:C:O2	73:O7:9:GLY:HA2	1.86	0.76
52:M6:160:ARG:NH2	85:5:3182:G:OP1	279.24	0.76
11:S9:143:ILE:HD13	80:6:767:U:H5	421.69	0.76
40:L3:290:ASP:OD2	40:L3:291:GLU:N	3.74	0.76
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.67	0.76
78:Q2:101:GLY:O	78:Q2:102:GLN:NE2	6.36	0.76
1:2:158:U:O2'	1:2:160:C:OP2	2.04	0.76
39:L2:70:ARG:NH2	85:5:2522:G:H1	174.10	0.76
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.92	0.76
36:1:1040:A:N3	47:M0:198:LYS:NZ	2.33	0.76
42:L5:140:ARG:NH2	85:5:1080:A:OP2	228.73	0.76
39:L2:226:SER:O	39:L2:228:GLY:N	3.34	0.76
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.18	0.76
41:L4:26:PHE:HD1	41:L4:130:ALA:HB2	3.06	0.76
41:L4:292:SER:OG	41:L4:293:SER:N	2.16	0.76
45:L8:42:PRO:HG2	45:L8:44:ARG:HE	4.84	0.76
77:Q1:24:SER:O	77:Q1:24:SER:OG	2.58	0.76
5:S3:135:GLU:HB3	5:S3:187:LYS:HB3	1.67	0.76
96:1:3402:LEU:C	98:P:101:8AN:HN3'	1.88	0.76
85:5:3066:U:O4	92:5:3604:OHX:N6	2.19	0.76
85:5:2611:U:O4	92:5:3675:OHX:N6	2.19	0.76
80:6:250:C:H2'	80:6:251:A:H8	1.49	0.76
44:L7:147:LEU:HD22	44:L7:205:PHE:HD1	3.04	0.76
55:M9:27:ASN:O	92:M9:201:OHX:N6	2.19	0.76
59:N3:25:CYS:SG	59:N3:26:ALA:N	2.59	0.76
62:N6:35:LEU:HD12	62:N6:45:ILE:HG22	2.06	0.76
36:1:3026:G:O6	92:1:3476:OHX:N4	2.18	0.76
36:1:618:C:H5'	53:M7:169:THR:HG22	1.68	0.76
1:2:1525:G:N2	1:2:1552:A:OP2	2.18	0.76
1:2:56:U:H4'	1:2:57:G:H5'	1.67	0.76
70:O4:58:ARG:NH1	85:5:1592:G:OP1	160.38	0.76
40:L3:11:HIS:ND1	40:L3:234:GLY:O	2.19	0.76
40:L3:341:SER:OG	40:L3:342:LEU:N	2.13	0.76
42:L5:40:HIS:CE1	42:L5:42:ALA:HB3	2.56	0.76
59:N3:33:ASN:ND2	59:N3:63:LYS:H	1.84	0.76
36:1:1230:G:H1	36:1:1279:C:H42	1.32	0.75
85:5:2871:G:O5'	92:5:3724:OHX:N4	2.19	0.75
80:6:898:A:N1	80:6:911:U:O2'	2.19	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:145:ILE:HG22	41:L4:173:GLY:HA3	1.67	0.75
67:O1:8:VAL:O	67:O1:9:THR:OG1	3.86	0.75
1:2:121:U:O2'	6:S4:33:ALA:O	2.04	0.75
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.51	0.75
36:1:3246:G:O6	92:1:3641:OHX:N4	2.19	0.75
36:1:964:G:N2	64:N8:40:HIS:O	2.19	0.75
80:6:1696:G:O2'	80:6:1698:G:N7	2.19	0.75
67:O1:58:ALA:HA	67:O1:61:LYS:HD3	4.31	0.75
5:S3:21:LEU:HD22	5:S3:25:PHE:HE2	1.51	0.75
8:S6:10:ASN:ND2	8:S6:127:THR:O	2.19	0.75
36:1:691:A:N1	38:4:28:C:O2'	2.19	0.75
19:C7:45:ARG:HG2	19:C7:49:LYS:HD2	4.48	0.75
27:D5:60:VAL:HG23	27:D5:101:TYR:HB2	1.67	0.75
32:E0:55:ARG:HH11	32:E0:58:PRO:HB3	1.50	0.75
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.21	0.75
72:O6:36:ARG:NH1	85:5:116:A:OP1	108.80	0.75
91:P:75:C:C2'	98:P:101:8AN:O4'	2.35	0.75
36:1:2849:C:OP2	92:1:3721:OHX:N2	2.19	0.75
85:5:3287:U:H2'	85:5:3288:G:H5'	1.68	0.75
80:6:383:G:N7	92:6:2000:OHX:N5	2.34	0.75
44:L7:88:ARG:HA	44:L7:134:VAL:HG12	2.63	0.75
45:L8:239:GLY:O	45:L8:242:ALA:N	2.20	0.75
48:M1:166:LYS:O	48:M1:168:ASP:N	3.70	0.75
49:M3:180:ARG:HD3	72:O6:11:LEU:HD21	1.69	0.75
6:S4:32:SER:OG	6:S4:79:ASP:OD2	2.95	0.75
8:S6:47:GLY:O	8:S6:117:GLY:HA2	3.16	0.75
11:S9:82:ARG:HH11	11:S9:149:ARG:HD3	7.65	0.75
36:1:2250:G:N7	92:1:3466:OHX:N6	2.33	0.75
36:1:371:G:O6	92:1:3709:OHX:N4	2.19	0.75
85:5:1846:C:H5'	85:5:1849:C:N4	2.01	0.75
71:O5:21:LEU:HD11	71:O5:55:LEU:HD21	1.69	0.75
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.68	0.75
36:1:162:G:H2'	36:1:163:C:H6	1.51	0.75
85:5:3115:C:O2	85:5:3117:C:N4	2.18	0.75
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.19	0.75
40:L3:208:VAL:O	40:L3:340:LYS:NZ	2.20	0.75
42:L5:59:ASP:OD2	42:L5:80:SER:OG	3.31	0.75
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.69	0.75
66:O0:40:LYS:HB3	66:O0:101:LEU:HD11	1.68	0.75
43:L6:85:ILE:HG23	69:O3:107:ILE:HG21	3.48	0.75
1:2:751:C:C2	11:S9:143:ILE:HG12	2.21	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1069:C:H2'	36:1:1070:U:H6	1.52	0.75
36:1:2393:G:O2'	36:1:2394:G:OP2	2.04	0.75
36:1:2878:G:H5''	40:L3:5:LYS:HE2	1.69	0.75
51:M5:169:LYS:NZ	85:5:64:G:OP2	99.36	0.75
21:C9:57:ARG:HH21	21:C9:80:TYR:HB3	1.52	0.75
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.51	0.75
51:M5:172:ARG:HH11	85:5:30:G:P	107.76	0.75
6:S4:125:LYS:NZ	6:S4:225:VAL:O	2.14	0.75
36:1:345:G:OP1	36:1:1429:G:N2	2.20	0.75
80:6:1542:G:H22	80:6:1568:C:H1'	1.51	0.75
39:L2:30:ARG:HH21	39:L2:36:GLU:HG3	3.31	0.75
43:L6:45:GLY:O	43:L6:48:ARG:NH1	4.92	0.75
68:O2:103:LYS:O	68:O2:106:VAL:HG22	1.87	0.75
3:S1:154:SER:O	3:S1:154:SER:OG	2.29	0.75
10:S8:197:THR:HG23	10:S8:200:LYS:HD2	1.68	0.75
36:1:1194:G:H2'	36:1:1195:A:C8	2.22	0.75
36:1:1742:U:H2'	36:1:1743:G:H8	1.52	0.75
36:1:2666:C:OP2	36:1:2687:G:N1	2.20	0.75
38:8:83:C:H4'	38:8:85:G:N3	2.02	0.75
26:D4:94:TYR:HB2	26:D4:96:LEU:HD12	2.99	0.75
41:L4:6:VAL:N	41:L4:20:LEU:O	2.17	0.75
42:L5:21:ARG:O	42:L5:23:ARG:N	2.20	0.75
55:M9:148:ASP:OD1	55:M9:151:ARG:NH2	2.20	0.75
79:Q3:56:THR:HA	79:Q3:63:THR:HA	1.93	0.75
2:S0:65:ALA:O	2:S0:67:ILE:N	3.30	0.75
36:1:1851:G:OP2	92:1:3513:OHX:N1	2.20	0.74
38:4:103:G:H4'	73:O7:21:ARG:HG3	1.65	0.74
85:5:247:C:C2	85:5:248:U:H1'	2.22	0.74
80:6:471:A:OP2	92:6:1957:OHX:N5	2.20	0.74
80:6:591:A:H2'	80:6:592:A:C8	2.22	0.74
55:M9:114:LYS:O	55:M9:146:LYS:NZ	3.87	0.74
1:2:127:G:N7	8:S6:202:ARG:NH2	2.35	0.74
36:1:1502:C:OP1	92:1:3415:OHX:N6	2.21	0.74
80:6:1584:G:N2	80:6:1611:A:OP2	2.19	0.74
47:M0:150:GLU:OE2	47:M0:153:ARG:NH2	4.62	0.74
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	2.17	0.74
49:M3:177:LYS:HA	72:O6:11:LEU:HD22	2.41	0.74
50:M4:20:VAL:O	50:M4:66:THR:OG1	2.02	0.74
85:5:1234:G:OP2	85:5:1235:U:H3'	1.87	0.74
85:5:145:G:O6	92:5:3746:OHX:N5	2.20	0.74
1:2:1200:A:H5''	12:C0:1:MET:HG2	1.68	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:41:ILE:HG23	46:L9:41:ILE:O	1.86	0.74
51:M5:197:LEU:HD21	51:M5:199:LEU:HD21	1.69	0.74
85:5:3260:G:N2	85:5:3261:C:C2	2.55	0.74
85:5:770:G:O6	92:5:3594:OHX:N6	2.20	0.74
20:C8:35:ILE:HB	20:C8:38:VAL:HG22	3.99	0.74
26:D4:29:HIS:NE2	26:D4:69:SER:OG	2.51	0.74
28:D6:36:ILE:HG23	28:D6:73:TYR:HB2	1.70	0.74
62:N6:36:SER:HB3	62:N6:39:LEU:HB2	1.67	0.74
71:O5:101:THR:HG22	71:O5:103:LYS:N	2.01	0.74
36:1:1238:C:N4	36:1:1245:A:OP2	2.20	0.74
36:1:2771:U:O2'	36:1:2772:C:O4'	2.06	0.74
36:1:824:C:H2'	36:1:825:U:H6	1.52	0.74
36:1:979:U:H1'	36:1:980:A:C8	2.21	0.74
1:2:553:G:OP2	1:2:554:C:O2'	2.03	0.74
1:2:900:U:O2	16:C4:41:ARG:NH1	2.21	0.74
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.67	0.74
36:1:2384:A:N1	52:M6:96:LYS:HE2	2.02	0.74
63:N7:105:SER:O	63:N7:109:GLU:N	3.23	0.74
68:O2:19:ARG:NH1	68:O2:28:VAL:HG13	2.95	0.74
1:2:1091:G:N1	25:D3:22:ASN:OD1	2.20	0.74
85:5:2335:G:N2	85:5:2339:C:O2	2.20	0.74
15:C3:94:LYS:O	15:C3:97:SER:N	2.93	0.74
40:L3:284:ARG:NH2	40:L3:293:ASN:O	2.19	0.74
52:M6:120:VAL:O	52:M6:122:GLN:N	2.20	0.74
68:O2:19:ARG:HB2	68:O2:31:ASN:O	2.50	0.74
36:1:1191:U:OP1	76:Q0:113:ARG:NH2	2.21	0.74
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.22	0.74
5:S3:40:ARG:HG3	22:D0:110:PRO:HB3	3.51	0.74
8:S6:171:LYS:NZ	80:6:68:A:OP2	348.53	0.74
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.22	0.74
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.21	0.74
37:3:71:G:N2	37:3:107:C:O2	2.20	0.74
42:L5:293:LEU:O	42:L5:297:GLN:NE2	6.47	0.74
47:M0:61:SER:OG	47:M0:63:GLU:HG2	3.00	0.74
48:M1:107:ASP:N	48:M1:107:ASP:OD1	2.17	0.74
66:O0:16:LEU:HB2	66:O0:98:SER:HB2	3.04	0.74
79:Q3:36:ARG:HE	79:Q3:48:LYS:HD2	3.30	0.74
6:S4:248:ILE:HA	6:S4:251:GLU:HB2	3.20	0.74
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.21	0.74
1:2:1763:G:OP2	92:2:1929:OHX:N6	2.20	0.74
41:L4:29:PRO:HB3	54:M8:25:TYR:HE2	4.03	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:109:LEU:O	45:L8:112:GLU:N	2.21	0.74
6:S4:136:VAL:HG11	6:S4:148:ARG:CZ	2.37	0.74
7:S5:182:ALA:O	7:S5:186:ASN:ND2	2.21	0.74
36:1:1740:U:H1'	36:1:1741:A:H2	1.52	0.74
36:1:268:A:C2	51:M5:12:ARG:HB3	2.23	0.74
64:N8:21:ARG:NH2	85:5:640:U:OP1	182.34	0.74
92:5:3706:OHX:N5	92:8:210:OHX:N3	2.36	0.74
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.19	0.74
46:L9:22:SER:OG	46:L9:23:ARG:N	2.20	0.74
36:1:900:G:H1'	36:1:1589:A:N6	2.01	0.74
36:1:2294:U:OP1	59:N3:70:ARG:NH2	2.21	0.74
1:2:1353:U:O2'	1:2:1354:A:OP2	2.05	0.74
28:D6:79:ILE:HA	28:D6:84:VAL:HG11	1.68	0.74
39:L2:209:HIS:CD2	39:L2:210:PRO:HD2	2.23	0.74
40:L3:227:GLU:HG3	40:L3:270:ARG:HE	3.80	0.74
44:L7:107:ARG:HH12	44:L7:200:ASN:HA	1.52	0.74
57:N1:101:CYS:HB3	85:5:990:U:H1'	251.58	0.74
2:S0:79:ARG:NH1	2:S0:164:ASN:O	3.89	0.74
8:S6:10:ASN:OD1	8:S6:10:ASN:N	4.03	0.74
36:1:2631:U:H2'	36:1:2632:G:C8	2.21	0.73
92:2:1921:OHX:N2	92:2:2040:OHX:N6	2.36	0.73
63:N7:135:ARG:HH22	85:5:2557:A:H5'	197.08	0.73
85:5:2721:A:N6	85:5:2735:U:O4	2.18	0.73
16:C4:50:ALA:HB3	16:C4:53:ASP:HB2	2.02	0.73
22:D0:64:LYS:O	31:D9:33:LYS:NZ	3.01	0.73
26:D4:131:ARG:NH2	80:6:153:G:OP2	319.52	0.73
30:D8:11:LYS:O	30:D8:31:GLU:N	2.95	0.73
42:L5:85:ARG:HD3	42:L5:86:TYR:CE2	2.23	0.73
47:M0:99:ILE:O	47:M0:120:GLY:HA3	2.60	0.73
51:M5:172:ARG:NH1	85:5:29:C:O3'	106.00	0.73
78:Q2:45:ARG:NH2	85:5:283:G:OP1	147.12	0.73
3:S1:110:LEU:HD21	3:S1:213:ARG:HD2	1.69	0.73
8:S6:69:LEU:HB3	8:S6:71:THR:HG23	1.70	0.73
9:S7:66:SER:O	9:S7:68:ALA:N	3.15	0.73
36:1:2177:G:O2'	36:1:2178:A:OP2	2.06	0.73
36:1:2950:G:N7	92:1:3710:OHX:N1	2.35	0.73
36:1:3155:U:H3'	36:1:3156:U:H4'	1.71	0.73
85:5:3035:A:OP2	92:5:3551:OHX:N5	2.21	0.73
96:5:3402:LEU:C	98:P:101:8AN:HN3'	211.63	0.73
85:5:2964:G:N7	92:5:3485:OHX:N2	2.35	0.73
80:6:1542:G:N2	80:6:1568:C:H1'	2.03	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:14:SER:OG	39:L2:15:ILE:N	2.18	0.73
97:5:3403:SPS:N4	91:P:75:C:OP2	225.16	0.73
1:2:1115:A:H2'	1:2:1116:A:H8	1.53	0.73
85:5:2274:U:OP2	92:5:3487:OHX:N6	2.20	0.73
41:L4:188:ARG:O	41:L4:193:LYS:HE3	1.87	0.73
49:M3:57:VAL:HG22	49:M3:147:ILE:HD13	3.41	0.73
36:1:3134:A:OP1	92:1:3438:OHX:N4	2.21	0.73
1:2:1213:A:H2'	1:2:1241:U:H5	1.52	0.73
39:L2:193:ARG:NH2	85:5:2181:C:OP1	197.76	0.73
78:Q2:41:ARG:NH1	85:5:284:A:OP2	156.88	0.73
80:6:524:U:N3	80:6:527:A:OP2	2.21	0.73
44:L7:208:SER:OG	44:L7:209:ASN:N	2.41	0.73
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.58	0.73
55:M9:13:SER:OG	55:M9:38:ARG:NH2	2.20	0.73
44:L7:224:ILE:HD13	56:N0:39:SER:OG	1.88	0.73
10:S8:11:ARG:NH1	10:S8:15:GLY:O	2.61	0.73
36:1:1651:U:O4	92:1:3674:OHX:N2	2.21	0.73
36:1:616:G:H2'	36:1:617:G:H8	1.52	0.73
36:1:952:A:N3	36:1:1114:U:O2'	2.21	0.73
30:D8:8:THR:OG1	30:D8:59:SER:OG	2.88	0.73
53:M7:168:LEU:HB2	53:M7:172:GLN:HB3	1.71	0.73
62:N6:120:GLN:OE1	62:N6:126:LEU:HA	6.57	0.73
9:S7:69:GLY:HA2	9:S7:72:LYS:HD2	1.70	0.73
36:1:1240:A:H61	36:1:1244:A:H5''	1.52	0.73
36:1:3268:A:OP1	43:L6:46:ARG:NH2	2.22	0.73
85:5:1764:U:H3'	85:5:1765:U:H5''	1.71	0.73
85:5:244:G:OP2	85:5:244:G:H8	1.71	0.73
40:L3:67:PHE:HA	40:L3:70:ARG:HG3	4.89	0.73
36:1:1730:G:O6	66:O0:29:SER:OG	2.07	0.73
73:O7:35:SER:O	73:O7:45:ARG:NH1	2.21	0.73
3:S1:35:PRO:HB3	3:S1:231:LEU:HD11	3.73	0.73
5:S3:175:VAL:HG13	5:S3:182:LEU:HB2	1.68	0.73
5:S3:64:ARG:O	5:S3:67:ASN:N	2.22	0.73
7:S5:42:LEU:HB2	7:S5:46:TRP:O	1.89	0.73
36:1:1808:G:O6	92:1:3517:OHX:N3	2.21	0.73
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.70	0.73
36:1:2768:U:H2'	36:1:2769:A:C8	2.23	0.73
38:4:121:U:H2'	38:4:122:U:H6	1.54	0.73
85:5:1596:C:O2	85:5:1611:G:N2	2.21	0.73
13:C1:33:ARG:NH1	13:C1:53:TYR:O	2.97	0.73
41:L4:327:LEU:HA	44:L7:166:ASN:HD21	1.51	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:49:LYS:HD3	48:M1:62:ASN:HB3	1.69	0.73
53:M7:169:THR:H	69:O3:60:ARG:HH11	1.35	0.73
5:S3:125:TYR:O	5:S3:129:SER:OG	4.80	0.73
8:S6:153:VAL:O	8:S6:155:ASP:N	2.21	0.73
36:1:2824:G:O6	92:1:3441:OHX:N3	2.21	0.73
1:2:717:A:H5''	1:2:718:C:OP1	1.87	0.73
79:Q3:62:LYS:HD3	85:5:2554:A:H62	217.85	0.73
39:L2:143:GLU:O	39:L2:145:LYS:N	2.62	0.73
40:L3:153:LYS:HG2	40:L3:154:TYR:CZ	3.46	0.73
41:L4:207:VAL:HG13	41:L4:249:ILE:HB	1.71	0.73
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.69	0.73
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	2.04	0.73
19:C7:37:GLU:OE1	34:SR:129:LYS:NZ	7.07	0.73
38:4:108:C:N4	38:4:114:G:O6	2.17	0.73
15:C3:146:ALA:HA	15:C3:149:LEU:HB2	1.71	0.73
1:2:868:G:H21	16:C4:123:SER:HB2	1.53	0.73
39:L2:177:LYS:NZ	79:Q3:33:GLN:OE1	4.05	0.73
52:M6:77:SER:OG	52:M6:106:GLU:OE1	3.87	0.73
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.70	0.73
85:5:1938:U:O4	92:5:3453:OHX:N1	2.22	0.73
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	1.70	0.73
1:2:785:G:H21	24:D2:107:SER:HB3	1.52	0.73
40:L3:68:HIS:CD2	40:L3:69:LYS:HG3	3.59	0.73
42:L5:187:THR:HG22	42:L5:189:GLU:HB2	4.38	0.73
56:N0:89:ASN:ND2	57:N1:156:TYR:H	1.86	0.73
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	2.07	0.73
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.24	0.73
92:1:3475:OHX:N3	92:1:3728:OHX:N5	2.37	0.72
1:2:520:A:H2'	1:2:521:A:C8	2.24	0.72
1:2:97:C:H2'	1:2:98:U:C6	2.23	0.72
38:4:124:G:OP2	92:4:213:OHX:N4	2.21	0.72
85:5:1508:C:OP1	85:5:2354:C:O2'	2.07	0.72
85:5:2836:C:H5	85:5:2852:C:H42	1.37	0.72
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.03	0.72
22:D0:57:ARG:HD3	22:D0:89:ARG:HD3	1.69	0.72
2:S0:185:ARG:HB2	23:D1:45:ALA:H	1.54	0.72
24:D2:104:LEU:HB3	24:D2:125:ILE:HA	1.71	0.72
7:S5:57:SER:O	7:S5:59:VAL:N	2.22	0.72
36:1:1887:A:OP2	92:1:3429:OHX:N4	2.22	0.72
36:1:208:C:OP2	41:L4:163:LYS:NZ	2.20	0.72
36:1:3258:U:O2'	36:1:3260:G:OP1	2.07	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:2:1921:OHX:N5	92:2:2040:OHX:N3	2.37	0.72
37:3:72:A:O2'	37:3:74:C:OP1	2.05	0.72
50:M4:128:ARG:NH2	85:5:3214:U:OP2	279.87	0.72
13:C1:16:GLN:NE2	13:C1:61:THR:O	2.21	0.72
23:D1:81:ASN:O	23:D1:83:TRP:N	2.22	0.72
25:D3:91:GLY:O	25:D3:93:LEU:N	2.22	0.72
40:L3:211:GLN:HB3	40:L3:212:ASN:OD1	2.31	0.72
41:L4:330:TYR:CZ	44:L7:49:ALA:HA	2.66	0.72
62:N6:33:ALA:O	62:N6:47:ALA:HB1	3.40	0.72
3:S1:36:SER:O	3:S1:38:PHE:N	2.20	0.72
1:2:355:G:OP2	92:2:1914:OHX:N4	2.23	0.72
85:5:135:C:H4'	85:5:136:G:OP2	1.89	0.72
85:5:566:G:N7	92:5:3628:OHX:N5	2.36	0.72
40:L3:139:GLN:O	40:L3:141:GLY:N	2.23	0.72
40:L3:361:THR:HG22	40:L3:371:GLN:OE1	4.70	0.72
42:L5:25:GLU:O	42:L5:27:LYS:HG3	1.89	0.72
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.23	0.72
43:L6:66:SER:O	43:L6:68:PRO:HA	3.95	0.72
72:O6:54:GLU:O	72:O6:58:ILE:HG23	1.89	0.72
1:2:902:A:H5'	16:C4:18:ARG:HH12	1.53	0.72
85:5:1192:C:N4	85:5:1302:A:OP1	2.22	0.72
80:6:845:G:O6	92:6:1920:OHX:N3	2.22	0.72
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.75	0.72
21:C9:30:VAL:O	21:C9:32:GLY:N	2.22	0.72
40:L3:334:ARG:O	40:L3:336:VAL:HG23	1.90	0.72
41:L4:93:MET:CE	41:L4:93:MET:H	2.91	0.72
75:O9:9:ILE:O	75:O9:13:MET:HG3	1.89	0.72
85:5:1070:U:O4	92:5:3609:OHX:N6	2.21	0.72
41:L4:73:ARG:HH11	85:5:805:G:H1'	163.69	0.72
80:6:250:C:H2'	80:6:251:A:C8	2.24	0.72
80:6:485:A:N6	80:6:486:G:N3	2.36	0.72
25:D3:97:ASP:O	25:D3:100:ASP:HB2	2.95	0.72
46:L9:156:GLN:NE2	46:L9:160:ASP:OD1	4.89	0.72
49:M3:8:PRO:HD3	54:M8:164:ARG:HB3	2.52	0.72
69:O3:59:VAL:O	69:O3:61:GLY:N	3.08	0.72
3:S1:40:ASN:ND2	3:S1:42:ASN:O	2.22	0.72
85:5:1662:G:H1	85:5:1787:A:H61	1.36	0.72
92:5:3503:OHX:N4	37:7:86:U:O2	2.23	0.72
13:C1:72:THR:HG22	13:C1:124:THR:HA	1.71	0.72
16:C4:25:ASP:OD1	16:C4:26:THR:N	3.27	0.72
41:L4:177:ASP:OD1	41:L4:180:LYS:HE3	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.54	0.72
10:S8:12:SER:HB3	10:S8:18:ARG:HH12	2.66	0.72
62:N6:103:LYS:HE2	85:5:221:A:N6	79.34	0.72
15:C3:107:LYS:NZ	80:6:1019:A:OP2	266.18	0.72
31:D9:44:ARG:HH22	80:6:1280:C:H5'	398.61	0.72
80:6:696:C:H4'	80:6:697:C:C6	2.25	0.72
80:6:74:U:N3	80:6:76:A:H5''	2.05	0.72
43:L6:17:ALA:O	85:5:591:G:O2'	210.52	0.72
52:M6:110:PRO:O	52:M6:112:TYR:N	2.52	0.72
7:S5:128:ASN:O	7:S5:132:VAL:HG23	3.02	0.72
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.86	0.72
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.22	0.72
85:5:3194:C:H2'	85:5:3195:U:H3'	1.72	0.72
45:L8:100:GLU:OE1	45:L8:108:ARG:NH1	2.23	0.72
52:M6:51:LYS:HE2	52:M6:144:SER:OG	1.90	0.72
36:1:1603:A:H61	61:N5:71:THR:HG21	1.54	0.72
65:N9:49:GLY:O	65:N9:52:LYS:N	3.38	0.72
9:S7:154:LEU:HD11	9:S7:183:PHE:HD1	1.96	0.72
36:1:2592:G:H4'	36:1:2594:C:C2	2.24	0.72
36:1:2534:G:O6	92:1:3707:OHX:N6	2.23	0.72
1:2:570:A:O2'	1:2:572:C:N4	2.22	0.72
69:O3:68:TRP:NE1	85:5:3275:U:OP2	227.35	0.72
85:5:821:U:O2'	85:5:912:G:OP1	2.07	0.72
2:S0:101:ARG:HH21	80:6:1320:U:H3'	398.96	0.72
80:6:986:G:H2'	80:6:987:G:O4'	1.90	0.72
26:D4:105:ARG:HH11	26:D4:109:LYS:HE2	1.55	0.72
27:D5:83:LEU:HD22	27:D5:88:ILE:HG21	3.10	0.72
47:M0:49:CYS:HB3	47:M0:168:SER:OG	2.46	0.72
47:M0:142:ASP:OD2	47:M0:178:ARG:NH2	3.04	0.72
63:N7:76:ASN:OD1	63:N7:77:TYR:N	2.23	0.72
75:O9:48:LYS:O	92:O9:101:OHX:N2	2.23	0.72
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.23	0.72
1:2:1143:A:H2'	1:2:1144:C:C6	2.24	0.72
1:2:136:C:H4'	1:2:137:U:OP1	1.90	0.72
75:O9:4:GLN:HE21	85:5:1833:G:H21	123.96	0.72
85:5:2426:U:N3	85:5:2603:G:O6	2.19	0.72
85:5:1171:G:O6	92:5:3506:OHX:N1	2.23	0.72
80:6:895:G:H1	80:6:917:U:H3	1.35	0.72
15:C3:103:GLU:HA	15:C3:106:ARG:HH22	1.54	0.72
43:L6:174:LEU:HD13	50:M4:117:ARG:NH1	3.56	0.72
52:M6:187:GLU:HA	52:M6:192:LYS:HD3	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:27:ARG:NH1	62:N6:75:ARG:O	2.71	0.72
36:1:2896:A:P	76:Q0:102:ARG:HH21	2.12	0.71
85:5:585:A:C6	85:5:586:C:N4	2.58	0.71
80:6:1090:C:H2'	80:6:1091:A:H5''	1.72	0.71
21:C9:97:SER:OG	80:6:1504:G:OP1	393.56	0.71
37:7:2:G:O2'	37:7:23:A:N1	2.21	0.71
43:L6:31:ARG:NH2	43:L6:81:ALA:O	3.03	0.71
46:L9:103:ILE:HG13	46:L9:136:PHE:CE2	2.25	0.71
49:M3:54:LEU:HD22	49:M3:55:ARG:H	1.55	0.71
54:M8:79:LYS:HA	54:M8:136:ASN:OD1	3.70	0.71
55:M9:85:ARG:HA	55:M9:88:ARG:HD3	1.71	0.71
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.23	0.71
67:O1:31:ARG:HB3	67:O1:31:ARG:HH11	1.67	0.71
6:S4:88:ASP:OD1	6:S4:122:LYS:NZ	2.23	0.71
36:1:679:U:O4	92:1:3508:OHX:N1	2.23	0.71
85:5:2157:G:N2	85:5:2177:G:O2'	2.23	0.71
85:5:69:C:HO2'	85:5:101:G:HO2'	1.33	0.71
80:6:1674:C:H42	80:6:1727:G:H1	1.35	0.71
10:S8:31:ARG:NH2	80:6:333:A:OP1	297.42	0.71
22:D0:48:HIS:O	22:D0:48:HIS:ND1	2.23	0.71
49:M3:63:VAL:HG22	85:5:72:C:H5'	113.53	0.71
59:N3:33:ASN:HD21	59:N3:63:LYS:N	1.88	0.71
60:N4:9:SER:HA	60:N4:52:THR:HG22	1.70	0.71
71:O5:21:LEU:O	71:O5:24:LEU:N	3.18	0.71
2:S0:26:ALA:H	2:S0:149:LEU:HD12	1.54	0.71
34:SR:70:ASP:HB3	34:SR:113:VAL:HG12	2.64	0.71
36:1:2177:G:HO2'	36:1:2178:A:P	2.12	0.71
36:1:2280:A:H5''	36:1:2281:A:OP2	1.91	0.71
1:2:27:U:OP2	92:2:1962:OHX:N6	2.24	0.71
1:2:873:C:OP2	92:2:2028:OHX:N1	2.23	0.71
37:3:12:U:O4'	37:3:110:G:N2	2.23	0.71
61:N5:92:LYS:HD2	85:5:1830:G:H5''	103.64	0.71
85:5:255:A:H2'	85:5:256:G:H8	1.54	0.71
80:6:709:C:O2	80:6:730:G:N2	2.23	0.71
12:C0:21:VAL:HB	12:C0:66:TYR:HB2	2.34	0.71
9:S7:118:LEU:N	80:6:639:U:OP1	365.62	0.71
36:1:1747:G:O2'	74:O8:3:ARG:O	2.08	0.71
85:5:2255:A:H5'	85:5:2261:G:H22	1.55	0.71
85:5:3351:U:H5'	85:5:3352:U:OP2	1.91	0.71
15:C3:73:ARG:HD3	80:6:859:A:C5	329.29	0.71
18:C6:46:PHE:HA	18:C6:49:TYR:HB2	1.71	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:31:PRO:HG3	21:C9:103:LYS:HD3	1.70	0.71
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.24	0.71
9:S7:144:VAL:HG13	24:D2:49:GLU:HB3	3.46	0.71
42:L5:270:LYS:HE2	42:L5:273:ARG:HA	8.94	0.71
46:L9:3:TYR:HE1	56:N0:138:GLN:HE22	4.39	0.71
57:N1:126:VAL:O	57:N1:127:GLN:HB3	3.04	0.71
61:N5:101:GLU:HG2	61:N5:102:LEU:HD23	3.42	0.71
62:N6:30:LEU:O	62:N6:32:SER:N	2.21	0.71
64:N8:88:ASP:HA	64:N8:91:LEU:HB2	2.27	0.71
36:1:802:C:O2'	36:1:803:C:H5'	1.91	0.71
1:2:732:U:H5''	24:D2:83:ILE:HD13	1.73	0.71
37:3:11:A:H4'	37:3:13:A:C8	2.26	0.71
38:4:77:A:OP2	92:4:207:OHX:N2	2.22	0.71
51:M5:38:ARG:NH2	38:8:143:U:OP1	109.04	0.71
12:C0:44:LYS:HA	12:C0:47:GLN:HB3	2.52	0.71
15:C3:19:SER:O	15:C3:19:SER:OG	2.08	0.71
16:C4:16:VAL:HG12	16:C4:31:THR:HG23	1.72	0.71
41:L4:200:THR:HG22	41:L4:202:ARG:HH21	3.40	0.71
47:M0:78:THR:OG1	47:M0:79:VAL:N	3.89	0.71
36:1:97:U:OP1	49:M3:15:ARG:HD2	1.91	0.71
53:M7:69:ARG:HG2	53:M7:79:THR:CG2	3.42	0.71
62:N6:38:GLU:O	62:N6:42:GLN:HG3	4.16	0.71
70:O4:99:LYS:HB3	70:O4:103:LYS:NZ	2.05	0.71
36:1:1334:U:OP1	44:L7:206:LYS:NZ	2.17	0.71
40:L3:129:ALA:O	85:5:3150:A:H5'	210.48	0.71
80:6:90:C:H2'	80:6:91:G:C8	2.26	0.71
26:D4:14:SER:HA	26:D4:21:LYS:HG3	1.71	0.71
29:D7:6:ASP:CG	29:D7:9:HIS:HD1	2.49	0.71
41:L4:141:ARG:HB3	41:L4:176:SER:HB3	3.34	0.71
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.55	0.71
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.41	0.71
46:L9:68:LEU:O	46:L9:71:VAL:N	2.95	0.71
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.24	0.71
8:S6:84:TYR:OH	8:S6:91:GLU:O	2.70	0.71
27:D5:43:ASP:HB2	27:D5:46:LYS:HE3	2.04	0.71
41:L4:42:VAL:O	41:L4:44:LYS:N	2.96	0.71
43:L6:170:LYS:HB3	43:L6:172:HIS:CE1	2.25	0.71
47:M0:4:ARG:NH1	85:5:2828:G:O2'	263.91	0.71
49:M3:2:ALA:N	64:N8:33:GLY:O	4.00	0.71
77:Q1:16:LYS:O	77:Q1:20:VAL:HG23	1.90	0.71
3:S1:87:ARG:NH2	3:S1:89:ASP:OD1	4.83	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2768:U:H2'	36:1:2769:A:H8	1.54	0.71
1:2:543:C:H5'	1:2:543:C:O2	1.90	0.71
85:5:439:C:H4'	85:5:440:A:H5'	1.73	0.71
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.71	0.71
39:L2:128:ARG:NH1	85:5:2177:G:OP2	198.76	0.71
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.24	0.71
54:M8:134:GLY:O	54:M8:137:THR:OG1	2.67	0.71
55:M9:86:GLU:OE2	55:M9:91:SER:OG	2.06	0.71
36:1:1190:A:H4'	76:Q0:113:ARG:HH22	1.56	0.71
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.72	0.71
36:1:132:C:OP1	92:1:3562:OHX:N6	2.24	0.71
85:5:1840:U:OP2	92:5:3539:OHX:N4	2.24	0.71
85:5:2836:C:H5	85:5:2852:C:N4	1.89	0.71
85:5:563:U:H2'	85:5:564:G:H8	1.55	0.71
85:5:1055:A:N3	37:7:81:U:O2'	2.23	0.71
45:L8:185:ARG:HD2	38:8:155:A:H5'	142.25	0.71
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.21	0.71
35:SM:24:GLU:OE2	48:M1:64:LYS:NZ	4.57	0.71
49:M3:75:PHE:O	49:M3:76:THR:OG1	2.09	0.71
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.23	0.71
64:N8:56:VAL:HG13	64:N8:57:GLY:H	1.55	0.71
66:O0:57:GLU:OE1	66:O0:69:TYR:OH	3.50	0.71
36:1:1688:U:H2'	36:1:1689:U:C6	2.26	0.71
36:1:1246:G:OP2	92:1:3638:OHX:N1	2.24	0.71
92:2:1921:OHX:N2	92:2:2040:OHX:N4	2.39	0.71
85:5:139:G:H2'	85:5:140:C:C6	2.24	0.71
85:5:2824:G:O6	92:5:3456:OHX:N6	2.24	0.71
21:C9:3:GLY:HA3	80:6:1364:G:N2	430.08	0.71
23:D1:3:ASN:HD21	23:D1:7:GLN:C	4.94	0.71
25:D3:69:ARG:NH1	25:D3:116:ASP:OD2	2.23	0.71
40:L3:188:ILE:HD12	40:L3:188:ILE:H	2.69	0.71
41:L4:269:SER:O	41:L4:271:LYS:N	2.24	0.71
41:L4:8:VAL:HG12	41:L4:9:HIS:H	1.55	0.71
51:M5:106:VAL:O	51:M5:109:ARG:N	2.24	0.71
51:M5:11:GLN:HG2	51:M5:44:ARG:HH21	1.56	0.71
51:M5:3:ALA:O	51:M5:7:LEU:HD22	5.26	0.71
57:N1:9:SER:O	57:N1:55:LYS:NZ	3.11	0.71
8:S6:10:ASN:HB3	8:S6:128:THR:HA	3.87	0.71
9:S7:177:THR:OG1	9:S7:178:GLY:N	2.28	0.71
36:1:655:C:H2'	36:1:656:A:H8	1.56	0.70
1:2:2:A:C2	4:S2:170:ILE:HD13	2.25	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2697:A:H2'	85:5:2698:G:H8	1.55	0.70
80:6:485:A:C6	80:6:486:G:H1'	2.26	0.70
80:6:67:A:N6	80:6:83:G:O2'	2.24	0.70
80:6:86:A:H2'	80:6:87:C:H6	1.55	0.70
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	2.41	0.70
58:N2:41:ILE:HD13	58:N2:71:PHE:HE2	2.00	0.70
36:1:3192:U:O4	92:1:3665:OHX:N1	2.23	0.70
36:1:568:G:N7	92:1:3480:OHX:N4	2.39	0.70
16:C4:128:LYS:HD3	28:D6:27:SER:OG	3.71	0.70
41:L4:181:VAL:HG11	41:L4:224:GLY:HA3	3.12	0.70
56:N0:89:ASN:ND2	57:N1:155:PRO:HB3	2.05	0.70
63:N7:10:VAL:O	63:N7:83:THR:HG22	1.96	0.70
74:O8:65:LEU:HD23	74:O8:68:SER:HB2	2.14	0.70
9:S7:50:ASP:N	9:S7:50:ASP:OD1	2.23	0.70
9:S7:73:VAL:O	9:S7:75:THR:N	2.29	0.70
10:S8:61:GLU:HG3	10:S8:62:THR:HG23	1.73	0.70
34:SR:133:VAL:HB	34:SR:142:ALA:HB3	1.72	0.70
36:1:440:A:OP1	36:1:494:G:H1'	1.90	0.70
92:2:1917:OHX:N1	25:D3:64:PRO:O	2.23	0.70
1:2:363:G:OP1	92:2:1956:OHX:N2	2.24	0.70
85:5:539:C:N3	85:5:552:G:N2	2.38	0.70
85:5:789:A:H2'	85:5:790:U:C6	2.26	0.70
80:6:27:U:H2'	80:6:28:A:C8	2.26	0.70
8:S6:94:ARG:NH2	80:6:406:U:O3'	290.31	0.70
80:6:918:U:H2'	80:6:919:A:C8	2.24	0.70
80:6:993:A:H2'	80:6:994:G:O4'	1.90	0.70
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.33	0.70
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.53	0.70
51:M5:34:ASN:OD1	92:5:3457:OHX:N6	141.36	0.70
52:M6:84:LEU:O	52:M6:87:MET:N	2.15	0.70
56:N0:1:MET:HE1	56:N0:32:SER:H	1.56	0.70
3:S1:207:LEU:HB3	3:S1:210:ILE:HD11	2.49	0.70
6:S4:35:PRO:HD2	6:S4:83:PRO:HG2	1.73	0.70
36:1:1185:C:OP1	50:M4:59:ASN:ND2	2.23	0.70
85:5:1919:G:N7	92:5:3572:OHX:N4	2.39	0.70
85:5:2514:U:H6	85:5:2514:U:OP1	1.75	0.70
85:5:2524:A:O2'	85:5:2525:G:OP2	2.06	0.70
85:5:608:A:H5''	85:5:609:G:OP2	1.91	0.70
40:L3:2:SER:N	85:5:2940:A:N7	237.30	0.70
64:N8:56:VAL:HG13	64:N8:57:GLY:N	2.06	0.70
5:S3:94:ARG:NH2	35:SM:134:LEU:HD23	2.06	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:146:THR:HG21	80:6:123:G:H21	339.79	0.70
6:S4:123:LEU:HD23	6:S4:228:ILE:HG22	1.73	0.70
1:2:139:C:O2'	8:S6:187:LYS:NZ	2.25	0.70
36:1:269:G:O6	92:1:3611:OHX:N3	2.25	0.70
1:2:149:C:OP1	26:D4:121:THR:OG1	2.07	0.70
85:5:2689:A:C8	85:5:2702:A:N6	2.59	0.70
85:5:856:G:OP1	85:5:1722:U:O2'	2.07	0.70
80:6:827:C:H42	80:6:845:G:H1	1.39	0.70
6:S4:60:GLU:OE1	26:D4:20:ARG:NH1	3.04	0.70
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.73	0.70
40:L3:174:LYS:N	85:5:3314:A:OP1	203.55	0.70
41:L4:261:VAL:O	41:L4:269:SER:OG	2.09	0.70
47:M0:205:SER:O	47:M0:208:ASN:ND2	3.57	0.70
53:M7:108:ASP:OD2	53:M7:110:THR:HG23	2.15	0.70
59:N3:45:ARG:HG2	59:N3:48:ARG:HH21	1.55	0.70
72:O6:26:ILE:O	72:O6:28:TYR:N	2.24	0.70
7:S5:156:ARG:HA	7:S5:157:ARG:HH21	4.77	0.70
8:S6:73:ILE:HD12	8:S6:75:LEU:HD21	2.60	0.70
36:1:899:U:O4	92:1:3474:OHX:N4	2.25	0.70
38:4:55:U:O2	92:4:210:OHX:N2	2.24	0.70
71:O5:95:PHE:CG	85:5:136:G:H5'	61.76	0.70
80:6:1280:C:H2'	80:6:1281:G:C8	2.24	0.70
24:D2:77:PRO:O	24:D2:79:PHE:N	2.24	0.70
39:L2:48:ILE:CD1	79:Q3:54:ILE:HG12	2.20	0.70
40:L3:347:SER:O	40:L3:349:LYS:N	4.36	0.70
57:N1:50:LYS:HD3	57:N1:92:ARG:HH12	1.57	0.70
63:N7:128:GLN:O	63:N7:130:PHE:N	3.23	0.70
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.72	0.70
36:1:1738:C:H1'	70:O4:52:GLN:HE21	1.56	0.70
85:5:3242:G:H5'	85:5:3245:A:C8	2.26	0.70
13:C1:132:SER:O	13:C1:134:THR:N	2.50	0.70
18:C6:98:ASP:OD2	18:C6:99:GLU:N	2.90	0.70
40:L3:35:ASP:OD2	40:L3:37:ARG:HD2	3.38	0.70
41:L4:138:ARG:HD3	41:L4:245:GLY:O	2.67	0.70
92:1:3494:OHX:N4	44:L7:217:PRO:HA	2.06	0.70
46:L9:49:ASN:O	46:L9:51:GLN:N	2.23	0.70
75:O9:14:ALA:O	75:O9:18:LYS:HG3	2.33	0.70
96:5:3402:LEU:O	98:P:101:8AN:N3'	212.86	0.70
36:1:1004:U:N3	36:1:1005:G:N7	2.39	0.70
36:1:209:A:OP1	41:L4:161:LYS:NZ	2.17	0.70
36:1:2503:G:H1'	36:1:2504:U:H5	1.56	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:14:C:H42	1:2:1123:G:H1	1.39	0.70
85:5:1223:A:OP2	85:5:1285:G:N2	2.23	0.70
80:6:138:A:H62	80:6:266:A:H61	1.37	0.70
80:6:562:G:H1	80:6:583:C:H42	1.40	0.70
79:Q3:24:ARG:NH2	80:6:982:U:O3'	248.90	0.70
25:D3:100:ASP:OD1	25:D3:142:LYS:NZ	2.25	0.70
1:2:149:C:OP1	26:D4:121:THR:N	2.25	0.70
59:N3:87:ARG:HH12	59:N3:137:VAL:HG11	2.06	0.70
63:N7:53:VAL:HA	63:N7:57:HIS:HD2	1.76	0.70
74:O8:75:VAL:HG12	74:O8:77:ARG:HD2	5.86	0.70
6:S4:118:GLU:HA	6:S4:121:TYR:CE1	2.67	0.70
11:S9:106:GLU:O	11:S9:111:THR:OG1	3.14	0.70
36:1:835:G:O2'	36:1:857:G:N2	2.24	0.70
80:6:40:A:O2'	92:6:1962:OHX:N2	2.24	0.70
18:C6:128:LYS:HB2	18:C6:137:ARG:HH22	3.40	0.70
40:L3:55:THR:O	40:L3:56:ILE:HD12	1.91	0.70
45:L8:225:LYS:O	45:L8:229:VAL:HG23	1.91	0.70
46:L9:134:ILE:HD11	46:L9:146:LEU:HD23	2.24	0.70
47:M0:177:ASP:OD2	47:M0:177:ASP:N	3.21	0.70
68:O2:95:GLU:OE2	68:O2:120:THR:OG1	2.05	0.70
78:Q2:71:ARG:HE	78:Q2:80:ARG:HD3	1.56	0.70
1:2:1283:A:OP1	4:S2:99:LYS:NZ	2.25	0.70
36:1:1751:G:OP1	74:O8:26:LYS:NZ	2.17	0.70
36:1:2107:A:H2	36:1:3344:A:H8	1.39	0.70
1:2:577:G:H2'	35:SM:99:LYS:NZ	2.07	0.70
85:5:3317:U:O2'	92:5:3637:OHX:N6	2.25	0.70
85:5:420:G:OP1	85:5:420:G:OP2	2.10	0.70
42:L5:260:PHE:HE2	37:7:121:U:H5'	319.43	0.70
14:C2:74:LEU:HD21	33:E1:106:TYR:HB3	2.54	0.70
17:C5:33:PHE:CZ	17:C5:112:LEU:HD13	3.29	0.70
18:C6:127:LYS:NZ	18:C6:131:GLY:O	2.25	0.70
52:M6:14:HIS:CD2	52:M6:124:LEU:HD13	2.27	0.70
63:N7:29:HIS:O	63:N7:31:GLU:N	2.24	0.70
67:O1:15:ASN:HB3	67:O1:18:LYS:HE2	1.74	0.70
36:1:1646:G:O2'	36:1:1647:A:OP2	2.09	0.69
36:1:3376:A:OP2	92:1:3443:OHX:N5	2.25	0.69
36:1:435:C:N4	36:1:621:A:C8	2.60	0.69
36:1:729:C:H2'	36:1:730:C:H6	1.57	0.69
1:2:1453:C:OP1	1:2:1523:G:O2'	2.10	0.69
1:2:956:A:H2'	1:2:957:A:H8	1.56	0.69
80:6:1349:G:N2	80:6:1378:U:O4	2.19	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:40:ARG:NH2	80:6:1552:U:O4	392.21	0.69
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.73	0.69
29:D7:6:ASP:OD1	29:D7:9:HIS:ND1	2.57	0.69
40:L3:53:MET:HG2	40:L3:77:THR:HG23	4.85	0.69
41:L4:158:SER:HA	41:L4:213:ASN:O	1.91	0.69
55:M9:21:LYS:O	55:M9:53:LYS:HB2	1.92	0.69
71:O5:108:GLN:O	71:O5:112:PRO:HG3	1.91	0.69
36:1:1517:G:OP1	75:O9:41:ARG:NH1	2.24	0.69
79:Q3:84:ARG:HA	79:Q3:87:ARG:NH1	3.83	0.69
3:S1:129:THR:OG1	3:S1:131:ASP:O	2.64	0.69
3:S1:141:ALA:HB1	3:S1:207:LEU:HD22	3.75	0.69
7:S5:144:GLU:HA	7:S5:161:ASP:HA	2.75	0.69
9:S7:162:ILE:O	9:S7:164:TYR:N	3.31	0.69
10:S8:84:HIS:CE1	10:S8:86:SER:HB2	2.26	0.69
1:2:52:U:H2'	1:2:53:G:C8	2.27	0.69
1:2:878:G:H1	1:2:900:U:H3	1.40	0.69
17:C5:29:SER:HG	17:C5:32:ASP:H	1.39	0.69
1:2:600:U:OP2	25:D3:108:GLY:HA2	1.92	0.69
41:L4:262:TRP:CE3	41:L4:271:LYS:HE3	3.58	0.69
42:L5:85:ARG:HD3	42:L5:86:TYR:CZ	2.27	0.69
44:L7:88:ARG:HD2	44:L7:90:LYS:O	1.95	0.69
48:M1:98:ALA:HA	48:M1:156:LYS:HB2	1.72	0.69
57:N1:102:ARG:HG2	57:N1:102:ARG:HH11	1.56	0.69
79:Q3:4:ARG:NH1	85:5:837:A:OP2	237.51	0.69
36:1:299:G:O6	92:1:3612:OHX:N2	2.25	0.69
36:1:739:G:O6	92:1:3455:OHX:N3	2.26	0.69
1:2:1569:A:H1'	1:2:1594:A:H61	1.56	0.69
85:5:1383:G:O6	92:5:3440:OHX:N5	2.25	0.69
80:6:1153:G:O6	80:6:1625:C:N4	2.20	0.69
45:L8:48:ARG:NH2	85:5:2588:U:OP1	183.73	0.69
36:1:2646:C:H5''	47:M0:119:TRP:CD1	2.27	0.69
58:N2:19:VAL:HG12	58:N2:105:LEU:HD22	2.49	0.69
64:N8:28:HIS:CE1	64:N8:32:ARG:NE	2.61	0.69
69:O3:48:ARG:HG2	69:O3:104:PRO:HD3	2.84	0.69
6:S4:150:PRO:HB2	6:S4:154:ILE:HD12	1.73	0.69
8:S6:70:PRO:HA	8:S6:98:ARG:NH1	2.07	0.69
1:2:1263:C:H2'	1:2:1264:G:C8	2.27	0.69
80:6:621:A:O2'	80:6:1106:U:O2'	2.08	0.69
80:6:845:G:H2'	80:6:846:G:H8	1.57	0.69
38:8:77:A:OP2	92:8:206:OHX:N1	2.24	0.69
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:368:GLY:O	60:N4:17:ARG:NH1	2.25	0.69
42:L5:164:LYS:HG2	42:L5:180:PHE:CZ	2.28	0.69
51:M5:118:SER:HB3	51:M5:132:VAL:HG13	1.84	0.69
52:M6:54:TYR:HE2	52:M6:58:LEU:HD13	1.60	0.69
36:1:3274:A:H2'	53:M7:171:ARG:NH1	2.07	0.69
59:N3:20:GLY:HA2	59:N3:35:TYR:HE1	1.58	0.69
61:N5:105:VAL:HA	61:N5:130:TYR:CE2	2.27	0.69
61:N5:86:VAL:HG11	61:N5:95:ILE:HG12	1.93	0.69
3:S1:70:LEU:HB3	3:S1:79:HIS:HB3	5.06	0.69
80:6:1680:G:O6	92:6:2049:OHX:N4	2.24	0.69
80:6:333:A:C6	80:6:334:G:C6	2.80	0.69
8:S6:160:ARG:NH2	80:6:68:A:OP1	344.42	0.69
19:C7:51:ALA:O	19:C7:55:THR:OG1	2.08	0.69
28:D6:74:CYS:SG	28:D6:77:CYS:N	2.61	0.69
45:L8:134:TYR:CD2	45:L8:190:VAL:HG11	4.38	0.69
49:M3:75:PHE:O	49:M3:79:GLU:HB2	1.93	0.69
70:O4:85:VAL:HA	70:O4:88:ARG:HG2	1.72	0.69
35:SM:24:GLU:O	35:SM:25:ILE:HD12	1.92	0.69
1:2:1779:C:O5'	28:D6:5:ARG:NH1	2.26	0.69
1:2:611:U:OP2	25:D3:5:LYS:NZ	2.15	0.69
85:5:117:U:O2	85:5:119:U:H2'	1.92	0.69
74:O8:44:LYS:NZ	85:5:1751:G:O6	130.76	0.69
51:M5:44:ARG:HH22	85:5:269:G:P	125.60	0.69
51:M5:68:ARG:HG3	85:5:291:C:OP1	145.04	0.69
85:5:602:A:H2'	85:5:603:A:C8	2.27	0.69
80:6:1087:A:H2'	80:6:1088:A:C8	2.27	0.69
22:D0:16:GLN:HG3	22:D0:18:GLN:HG2	8.31	0.69
41:L4:144:LYS:HG2	41:L4:145:ILE:H	5.85	0.69
41:L4:262:TRP:CZ3	41:L4:271:LYS:HE3	3.11	0.69
45:L8:100:GLU:OE2	45:L8:108:ARG:NH1	3.24	0.69
47:M0:161:GLY:O	47:M0:163:GLN:NE2	2.26	0.69
65:N9:23:LYS:HB3	65:N9:24:PRO:HD3	2.09	0.69
68:O2:124:GLY:O	68:O2:126:LEU:N	2.38	0.69
70:O4:71:THR:HG22	70:O4:77:GLY:HA3	1.96	0.69
78:Q2:47:GLN:NE2	78:Q2:53:GLN:OE1	4.67	0.69
36:1:2217:U:H2'	36:1:2218:G:H8	1.58	0.69
1:2:851:G:H1	1:2:943:U:H3	1.41	0.69
55:M9:135:LYS:NZ	85:5:1949:G:OP2	224.25	0.69
33:E1:116:LYS:NZ	33:E1:120:GLU:OE2	2.17	0.69
40:L3:383:LEU:HD12	40:L3:385:LYS:HE2	3.85	0.69
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:81:LYS:HA	58:N2:84:LEU:HD12	1.72	0.69
4:S2:108:ASN:OD1	4:S2:141:ARG:NH1	2.25	0.69
6:S4:105:VAL:HB	6:S4:243:GLY:HA2	2.29	0.69
36:1:1410:U:OP2	92:1:3489:OHX:N4	2.25	0.69
1:2:1667:U:O2	1:2:1701:G:N2	2.25	0.69
39:L2:243:THR:OG1	85:5:2244:A:OP1	229.21	0.69
42:L5:51:LEU:N	42:L5:145:PHE:O	2.21	0.69
47:M0:9:TYR:O	47:M0:59:GLN:NE2	2.25	0.69
49:M3:54:LEU:HD22	49:M3:55:ARG:N	2.06	0.69
7:S5:63:GLN:HB3	7:S5:88:PRO:HA	2.57	0.69
10:S8:48:THR:HG21	10:S8:54:LYS:HE3	1.73	0.69
36:1:2853:A:O3'	47:M0:64:ALA:HB2	1.93	0.69
1:2:1271:G:H1	1:2:1310:C:H42	1.41	0.69
85:5:300:G:O6	92:5:3694:OHX:N2	2.26	0.69
49:M3:157:ARG:NH1	64:N8:146:GLU:OE2	2.89	0.69
59:N3:32:ARG:NH1	59:N3:32:ARG:O	7.46	0.69
49:M3:128:ARG:NH2	71:O5:110:ALA:O	2.26	0.69
6:S4:131:LEU:HD11	6:S4:135:GLY:HA2	2.59	0.69
7:S5:163:SER:HB3	30:D8:48:VAL:HG22	1.75	0.69
7:S5:55:ASP:HB3	7:S5:58:LEU:HD12	1.75	0.69
1:2:1274:G:H5'	4:S2:119:LYS:HE2	1.73	0.69
1:2:1417:U:O2'	1:2:1419:A:OP1	2.06	0.69
85:5:223:U:OP1	85:5:225:C:N4	2.25	0.69
41:L4:53:SER:HB3	85:5:346:C:OP1	112.43	0.69
85:5:58:G:O2'	85:5:61:A:H5'	1.93	0.69
22:D0:42:VAL:HG22	22:D0:52:LYS:HZ2	1.56	0.69
7:S5:81:ARG:HH21	30:D8:47:PRO:HB3	2.36	0.69
36:1:1009:A:O3'	47:M0:39:LYS:NZ	2.25	0.69
73:O7:22:CYS:SG	73:O7:37:CYS:SG	3.31	0.69
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.74	0.69
2:S0:56:LYS:O	2:S0:60:ALA:N	2.76	0.69
36:1:1383:G:O6	92:1:3417:OHX:N4	2.25	0.69
36:1:1565:G:N2	36:1:1574:C:N3	2.41	0.69
36:1:3033:A:H2'	36:1:3034:C:H6	1.58	0.69
92:1:3565:OHX:N3	92:1:3578:OHX:N3	2.41	0.69
1:2:855:G:O6	92:2:2006:OHX:N3	2.26	0.69
85:5:2120:A:OP2	92:5:3571:OHX:N1	2.25	0.69
21:C9:17:ALA:O	21:C9:20:SER:OG	5.30	0.69
28:D6:25:ASN:HB3	28:D6:77:CYS:SG	2.32	0.69
47:M0:200:LEU:HD12	47:M0:213:PHE:CD1	3.37	0.69
55:M9:26:PRO:O	55:M9:29:THR:HG22	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:97:SER:HB2	63:N7:99:GLU:HG3	1.74	0.69
36:1:787:G:H2'	36:1:788:C:C6	2.28	0.68
80:6:1068:C:H2'	80:6:1069:A:H8	1.58	0.68
80:6:699:U:H3	80:6:739:G:H1	1.42	0.68
1:2:325:G:H4'	13:C1:83:THR:HG21	1.74	0.68
16:C4:125:SER:OG	16:C4:126:THR:N	2.38	0.68
21:C9:117:SER:OG	21:C9:118:PRO:O	2.10	0.68
15:C3:17:PRO:HG3	29:D7:28:PRO:HG3	1.75	0.68
44:L7:140:SER:O	44:L7:144:ILE:HG13	2.62	0.68
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	1.75	0.68
76:Q0:100:TYR:O	85:5:2895:G:O2'	311.40	0.68
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.80	0.68
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.73	0.68
1:2:448:C:OP1	6:S4:29:PRO:HD3	1.92	0.68
1:2:776:A:H5''	1:2:777:U:C6	2.29	0.68
57:N1:129:LYS:HB3	85:5:1097:G:H4'	250.23	0.68
85:5:1904:C:N3	85:5:2951:G:H5'	2.07	0.68
85:5:339:C:OP1	85:5:1380:G:O2'	2.12	0.68
13:C1:57:LYS:HD3	13:C1:131:ILE:HG23	1.75	0.68
22:D0:37:VAL:HG21	22:D0:112:VAL:HG21	3.67	0.68
2:S0:55:GLU:OE2	23:D1:80:LYS:HG2	5.73	0.68
49:M3:166:ALA:N	64:N8:135:GLU:OE1	3.79	0.68
49:M3:81:LYS:O	49:M3:83:ALA:N	2.91	0.68
6:S4:240:LYS:HE2	6:S4:240:LYS:H	1.58	0.68
8:S6:152:ASP:OD2	8:S6:154:ARG:NH1	6.51	0.68
9:S7:125:ILE:O	9:S7:129:LEU:N	3.02	0.68
1:2:976:A:OP1	1:2:1760:G:N2	2.24	0.68
38:4:41:A:O2'	73:O7:59:THR:HG22	1.94	0.68
85:5:2111:G:OP1	92:5:3738:OHX:N3	2.26	0.68
85:5:549:U:H2'	85:5:550:A:C8	2.27	0.68
11:S9:124:HIS:HD2	80:6:479:C:H5'	452.19	0.68
16:C4:14:PHE:HA	16:C4:78:ALA:HB3	3.10	0.68
47:M0:47:PRO:HD2	47:M0:141:LYS:HA	1.74	0.68
50:M4:13:ARG:NH1	50:M4:65:LEU:O	2.92	0.68
54:M8:85:GLY:O	54:M8:104:LEU:HB2	2.89	0.68
57:N1:108:ARG:O	57:N1:112:ASN:ND2	2.39	0.68
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	2.02	0.68
3:S1:137:ILE:HD11	3:S1:172:LEU:HD22	3.40	0.68
3:S1:144:ARG:HB3	3:S1:208:GLN:HB3	1.78	0.68
7:S5:117:THR:HG21	7:S5:194:LEU:HD22	5.28	0.68
36:1:2683:U:H2'	36:1:2684:C:C6	2.29	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1237:U:OP2	14:C2:46:ARG:NH1	2.26	0.68
1:2:1530:A:OP2	20:C8:123:ARG:NH2	2.20	0.68
85:5:1025:A:H3'	85:5:1026:A:H4'	1.75	0.68
85:5:1765:U:C2	85:5:1766:G:H1'	2.28	0.68
85:5:47:C:OP2	85:5:48:A:O2'	2.11	0.68
68:O2:33:ARG:NH1	85:5:944:C:H4'	162.05	0.68
80:6:1345:A:H2'	80:6:1348:A:H62	1.59	0.68
13:C1:99:ARG:HB3	25:D3:9:LEU:O	1.93	0.68
31:D9:21:CYS:SG	31:D9:24:CYS:SG	3.02	0.68
53:M7:105:LYS:HB3	53:M7:107:LEU:HD22	3.15	0.68
53:M7:176:ILE:HG23	53:M7:179:GLN:OE1	1.92	0.68
53:M7:8:SER:OG	53:M7:8:SER:O	2.78	0.68
8:S6:190:GLN:O	8:S6:193:LEU:N	2.83	0.68
9:S7:25:VAL:HA	9:S7:28:GLU:HB2	2.30	0.68
36:1:1069:C:H2'	36:1:1070:U:C6	2.29	0.68
36:1:1493:G:O6	75:O9:2:ALA:N	2.26	0.68
36:1:1847:A:O2'	36:1:1848:G:H5''	1.93	0.68
36:1:735:A:H2'	36:1:736:A:C8	2.29	0.68
1:2:1525:G:H22	1:2:1551:C:H1'	1.56	0.68
85:5:738:A:H2'	85:5:739:G:C8	2.29	0.68
15:C3:56:ASP:OD1	29:D7:52:THR:OG1	2.09	0.68
19:C7:5:ARG:NH1	80:6:1402:G:OP2	408.75	0.68
21:C9:12:GLN:O	21:C9:16:ASN:ND2	2.27	0.68
28:D6:44:ILE:HD12	28:D6:45:VAL:H	1.59	0.68
47:M0:76:MET:HE1	47:M0:148:VAL:HA	3.38	0.68
59:N3:10:LYS:HG2	59:N3:11:PHE:O	1.92	0.68
63:N7:87:LEU:HD12	63:N7:88:ASP:H	1.57	0.68
72:O6:62:ARG:NH1	72:O6:94:ILE:HD11	4.73	0.68
96:1:3402:LEU:O	98:P:101:8AN:N3'	2.24	0.68
6:S4:72:VAL:N	6:S4:75:LYS:O	2.30	0.68
8:S6:20:ASP:HB2	8:S6:23:ARG:HB2	1.75	0.68
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.23	0.68
36:1:2248:C:OP2	92:1:3418:OHX:N3	2.26	0.68
36:1:2972:G:H2'	36:1:2973:G:H8	1.57	0.68
72:O6:30:LYS:HG2	85:5:316:U:O2	105.40	0.68
85:5:990:U:O4	92:5:3687:OHX:N6	2.26	0.68
13:C1:79:LYS:HB2	80:6:346:G:H5'	282.22	0.68
22:D0:60:THR:HG22	80:6:1382:A:H5''	435.10	0.68
24:D2:67:GLY:O	24:D2:69:LEU:N	2.77	0.68
25:D3:126:LYS:HA	25:D3:131:SER:HA	1.74	0.68
36:1:3003:G:P	40:L3:26:ARG:HH22	2.17	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:158:ALA:O	52:M6:162:VAL:HG23	2.81	0.68
63:N7:18:TYR:HB3	63:N7:21:LYS:HD2	3.42	0.68
65:N9:37:PRO:O	65:N9:39:PHE:N	3.10	0.68
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.75	0.68
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.75	0.68
34:SR:80:ALA:HB3	34:SR:92:TRP:HB2	1.97	0.68
36:1:1724:U:H1'	36:1:1725:C:C6	2.29	0.68
36:1:3037:U:H2'	36:1:3038:U:H6	1.59	0.68
92:1:3711:OHX:N1	40:L3:364:LYS:O	2.27	0.68
1:2:1703:G:O6	92:2:1960:OHX:N5	2.27	0.68
38:4:62:C:H4'	38:4:63:G:O5'	1.94	0.68
85:5:252:U:H4'	85:5:253:A:C5'	2.24	0.68
85:5:314:U:H2'	85:5:315:C:C6	2.29	0.68
85:5:523:A:N6	85:5:570:A:C2	2.62	0.68
80:6:1680:G:O6	92:6:2049:OHX:N1	2.26	0.68
18:C6:110:THR:HA	18:C6:113:ASP:HB2	2.02	0.68
2:S0:59:LEU:HD12	23:D1:79:LEU:HD21	3.90	0.68
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	2.21	0.68
41:L4:62:ALA:HB1	41:L4:76:ARG:C	2.14	0.68
46:L9:151:VAL:O	46:L9:155:SER:OG	2.91	0.68
68:O2:47:ARG:NH1	85:5:634:C:O3'	217.61	0.68
70:O4:74:ARG:HG2	70:O4:75:ALA:H	2.87	0.68
78:Q2:52:GLY:O	78:Q2:54:THR:HG23	1.93	0.68
1:2:66:U:O4	8:S6:158:ILE:HG21	1.94	0.68
20:C8:120:ARG:HE	35:SM:61:ILE:HD13	3.42	0.68
34:SR:160:GLU:O	34:SR:162:ALA:N	2.26	0.68
36:1:1724:U:H4'	36:1:1725:C:OP1	1.94	0.68
1:2:1795:G:N2	1:2:1797:A:H5''	2.09	0.68
85:5:210:U:HO2'	85:5:229:G:HO2'	1.40	0.68
73:O7:45:ARG:NH2	85:5:361:A:O3'	123.49	0.68
85:5:734:C:H2'	85:5:735:A:C8	2.29	0.68
80:6:973:A:H2'	80:6:974:A:C8	2.29	0.68
38:8:78:G:H2'	38:8:79:A:O4'	1.94	0.68
46:L9:87:LYS:NZ	46:L9:191:LEU:HD11	15.48	0.68
49:M3:140:SER:OG	49:M3:141:ALA:N	3.21	0.68
52:M6:182:ASN:O	52:M6:186:ALA:N	4.18	0.68
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.75	0.68
64:N8:28:HIS:CE1	64:N8:32:ARG:HE	2.12	0.68
9:S7:26:GLU:OE1	9:S7:84:LYS:HE3	3.01	0.68
34:SR:228:LYS:O	34:SR:229:LYS:HG3	1.93	0.68
36:1:2579:G:O6	92:1:3463:OHX:N2	2.27	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3276:G:H5'	43:L6:48:ARG:NH2	2.09	0.68
36:1:329:U:OP2	92:1:3576:OHX:N4	2.27	0.68
1:2:1721:U:O4	92:2:1919:OHX:N4	2.27	0.68
85:5:1470:U:OP1	92:5:3460:OHX:N6	2.27	0.68
13:C1:21:ASN:N	13:C1:21:ASN:OD1	3.42	0.68
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.27	0.68
18:C6:31:VAL:O	18:C6:33:GLY:N	2.26	0.68
40:L3:246:LEU:O	40:L3:248:LYS:N	2.91	0.68
6:S4:87:MET:SD	6:S4:123:LEU:HB2	2.80	0.68
8:S6:27:PHE:CE1	8:S6:36:VAL:HG11	2.28	0.68
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.27	0.68
1:2:1079:C:H4'	1:2:1082:U:H4'	1.76	0.68
1:2:1464:C:O2'	1:2:1465:C:O5'	2.12	0.68
1:2:783:U:O4	92:2:1931:OHX:N5	2.27	0.68
85:5:1781:C:H2'	85:5:1782:U:C6	2.29	0.68
85:5:3232:G:H1	85:5:3255:U:H3	1.38	0.68
85:5:423:A:H2'	85:5:424:G:O4'	1.94	0.68
85:5:835:G:HO2'	85:5:836:A:P	2.16	0.68
80:6:1142:A:H2'	80:6:1143:A:O4'	1.94	0.68
37:7:106:U:H2'	37:7:107:C:O4'	1.94	0.68
19:C7:26:LEU:HD13	19:C7:59:LYS:HG3	1.76	0.68
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.76	0.68
39:L2:130:SER:OG	85:5:2179:C:O2'	215.58	0.68
41:L4:26:PHE:HE2	41:L4:258:LEU:HD23	2.87	0.68
37:3:40:C:H4'	48:M1:43:GLN:NE2	2.08	0.68
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.73	0.68
38:4:142:C:OP1	51:M5:38:ARG:NH1	2.27	0.68
51:M5:97:SER:O	51:M5:100:ALA:N	2.51	0.68
75:O9:28:ARG:NH1	75:O9:36:ARG:HH11	6.90	0.68
3:S1:39:GLU:O	3:S1:41:ARG:HG3	4.28	0.68
6:S4:130:GLN:HG2	6:S4:138:TYR:CZ	4.80	0.68
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.95	0.68
36:1:2534:G:N2	36:1:2545:C:N3	2.38	0.67
36:1:435:C:H2'	36:1:436:A:H8	1.59	0.67
1:2:1540:U:OP2	1:2:1542:A:O2'	2.09	0.67
85:5:1135:A:C2	85:5:1136:A:C8	2.82	0.67
61:N5:46:TYR:OH	85:5:18:G:OP2	83.33	0.67
92:5:3481:OHX:N2	92:5:3702:OHX:N5	2.42	0.67
80:6:1138:A:H2'	80:6:1139:A:H8	1.59	0.67
20:C8:41:ARG:HD3	80:6:1565:C:OP1	368.10	0.67
16:C4:86:THR:HG21	16:C4:90:ARG:HH21	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:18:LEU:HD21	20:C8:70:VAL:HG13	1.76	0.67
20:C8:42:TYR:HE2	20:C8:73:MET:HG3	3.76	0.67
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.59	0.67
28:D6:87:ARG:NH1	80:6:1796:C:OP1	343.96	0.67
40:L3:229:VAL:HG11	40:L3:249:VAL:HG22	4.10	0.67
41:L4:33:ASP:O	41:L4:37:THR:HG23	1.94	0.67
44:L7:219:LYS:O	44:L7:228:SER:HB2	2.88	0.67
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.75	0.67
56:N0:34:GLU:O	56:N0:38:LYS:HG3	2.27	0.67
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	2.14	0.67
63:N7:88:ASP:HB3	63:N7:121:ARG:HH12	4.41	0.67
6:S4:37:LYS:HG2	80:6:297:U:H5''	349.20	0.67
36:1:2402:A:OP2	92:1:3620:OHX:N6	2.28	0.67
36:1:873:C:H5''	36:1:874:U:O5'	1.93	0.67
1:2:1182:G:C5	31:D9:40:ARG:HD3	2.29	0.67
1:2:176:C:OP1	92:2:1952:OHX:N3	2.26	0.67
37:3:30:G:C6	37:3:31:U:C4	2.83	0.67
37:3:85:G:O2'	37:3:87:G:OP1	2.11	0.67
85:5:2291:A:H2'	85:5:2292:U:O4'	1.94	0.67
85:5:3241:G:H2'	85:5:3245:A:C8	2.29	0.67
85:5:177:U:OP2	92:5:3519:OHX:N6	2.27	0.67
20:C8:89:GLN:NE2	80:6:1548:G:H1'	373.51	0.67
28:D6:45:VAL:HG11	28:D6:53:LEU:HG	2.76	0.67
40:L3:81:THR:HG23	40:L3:321:PHE:HA	4.75	0.67
36:1:1720:U:C4	55:M9:124:TYR:CE2	2.82	0.67
64:N8:125:VAL:O	64:N8:146:GLU:N	2.27	0.67
46:L9:172:ILE:HG13	76:Q0:90:ASN:HB3	1.75	0.67
11:S9:92:LYS:O	11:S9:94:ASP:N	2.28	0.67
34:SR:38:ARG:HA	34:SR:67:ILE:HG23	1.76	0.67
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.42	0.67
36:1:2836:C:H5	36:1:2852:C:H42	1.41	0.67
85:5:132:C:H2'	85:5:133:U:H5''	1.74	0.67
80:6:1753:A:H3'	80:6:1754:A:H2'	1.77	0.67
37:7:80:G:N1	37:7:100:C:N3	2.41	0.67
21:C9:3:GLY:HA3	80:6:1364:G:H22	429.65	0.67
47:M0:61:SER:HB2	47:M0:63:GLU:HG2	1.77	0.67
51:M5:69:GLY:O	85:5:290:G:H4'	145.18	0.67
62:N6:5:SER:OG	62:N6:6:LEU:N	2.24	0.67
78:Q2:11:TYR:HA	78:Q2:20:HIS:HA	2.15	0.67
36:1:2717:U:OP1	92:1:3518:OHX:N6	2.27	0.67
85:5:1790:G:O6	92:5:3700:OHX:N4	2.27	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2771:U:O2'	85:5:2772:C:O4'	2.12	0.67
54:M8:141:ARG:NH2	85:5:744:A:N3	179.84	0.67
80:6:1004:U:O4	92:5:3459:OHX:N2	2.27	0.67
80:6:1761:U:O4	92:6:2046:OHX:N2	2.28	0.67
39:L2:104:LEU:HD22	39:L2:162:ALA:O	2.33	0.67
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.76	0.67
41:L4:179:LEU:O	41:L4:181:VAL:O	2.13	0.67
41:L4:258:LEU:O	41:L4:260:GLN:N	2.28	0.67
42:L5:283:ALA:HA	42:L5:286:VAL:HB	3.00	0.67
51:M5:170:LYS:O	51:M5:173:GLY:N	2.15	0.67
53:M7:138:LYS:HE3	85:5:2356:A:H5'	149.59	0.67
69:O3:25:PRO:O	69:O3:88:ASN:ND2	2.28	0.67
72:O6:94:ILE:HA	72:O6:98:ARG:HD3	1.75	0.67
2:S0:198:MET:SD	19:C7:88:VAL:HG13	2.35	0.67
11:S9:108:ARG:HH21	11:S9:145:SER:HB2	1.59	0.67
36:1:1321:G:O3'	56:N0:117:ARG:NH2	2.27	0.67
36:1:153:U:O2'	36:1:158:G:O2'	2.12	0.67
36:1:1819:U:O4	92:1:3574:OHX:N4	2.28	0.67
85:5:2251:G:O6	92:5:3450:OHX:N6	2.27	0.67
80:6:461:G:H2'	80:6:462:G:H8	1.59	0.67
26:D4:66:GLY:H	80:6:532:U:H5''	429.91	0.67
40:L3:62:ARG:O	40:L3:64:GLY:N	2.28	0.67
41:L4:23:PRO:HD2	41:L4:26:PHE:CD2	2.30	0.67
42:L5:269:SER:OG	37:7:1:G:N2	315.71	0.67
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	1.77	0.67
46:L9:25:VAL:O	46:L9:35:THR:HA	2.49	0.67
51:M5:36:ILE:HG13	51:M5:64:VAL:HG23	1.75	0.67
52:M6:3:VAL:HG13	52:M6:4:GLU:HG3	1.75	0.67
65:N9:23:LYS:HB3	65:N9:24:PRO:CD	2.65	0.67
79:Q3:70:THR:HG23	79:Q3:72:SER:H	1.60	0.67
92:2:1921:OHX:N1	92:2:2040:OHX:N3	2.43	0.67
1:2:197:A:H61	10:S8:138:ASN:ND2	1.93	0.67
1:2:309:C:O2	1:2:357:G:N2	2.24	0.67
1:2:480:G:N2	1:2:509:G:H1'	2.09	0.67
85:5:900:G:H1'	85:5:1589:A:N6	2.10	0.67
31:D9:34:TYR:OH	80:6:1487:A:OP1	418.75	0.67
19:C7:107:SER:O	19:C7:110:VAL:HG23	3.62	0.67
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	2.16	0.67
23:D1:64:GLU:OE1	29:D7:3:LEU:HB2	1.93	0.67
41:L4:12:THR:OG1	41:L4:12:THR:O	3.11	0.67
41:L4:338:LYS:O	41:L4:340:GLY:N	2.28	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:128:ARG:HD3	50:M4:132:LYS:HD2	1.76	0.67
41:L4:280:ILE:HD13	54:M8:23:ASN:HD21	2.11	0.67
55:M9:6:THR:HG23	55:M9:9:ARG:NH1	4.61	0.67
69:O3:13:HIS:O	69:O3:95:GLY:N	2.24	0.67
5:S3:162:GLN:O	5:S3:165:ASN:N	2.28	0.67
34:SR:25:THR:HG21	34:SR:295:SER:HA	2.37	0.67
36:1:1675:G:H2'	36:1:1676:A:H8	1.60	0.67
1:2:330:G:C6	1:2:331:A:C6	2.83	0.67
92:5:3534:OHX:N5	92:5:3580:OHX:N6	2.43	0.67
80:6:1161:C:OP1	92:6:2039:OHX:N6	2.27	0.67
80:6:1620:C:H2'	80:6:1621:U:H6	1.59	0.67
80:6:1668:G:N1	80:6:1733:C:N3	2.35	0.67
37:7:58:C:H2'	37:7:59:U:H6	1.59	0.67
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.76	0.67
24:D2:85:ASP:HA	24:D2:88:LYS:HG3	1.77	0.67
25:D3:44:GLY:H	25:D3:78:LYS:HZ1	1.40	0.67
27:D5:65:LEU:HB3	27:D5:71:ILE:HD13	1.77	0.67
45:L8:78:PHE:C	45:L8:80:TYR:H	1.98	0.67
45:L8:78:PHE:O	45:L8:80:TYR:N	2.25	0.67
48:M1:110:ILE:O	48:M1:112:LEU:N	2.27	0.67
48:M1:28:ASP:HA	48:M1:31:THR:HG23	2.83	0.67
62:N6:56:VAL:HG23	62:N6:106:ILE:HA	2.52	0.67
63:N7:25:ILE:HG23	63:N7:41:ALA:HB1	1.76	0.67
71:O5:13:SER:O	71:O5:16:GLN:N	2.25	0.67
36:1:109:A:H4'	36:1:110:G:OP1	1.93	0.67
36:1:2294:U:OP2	59:N3:71:LYS:HE2	1.94	0.67
92:1:3507:OHX:N1	92:1:3691:OHX:N1	2.42	0.67
1:2:1569:A:H1'	1:2:1594:A:N6	2.09	0.67
55:M9:43:LYS:NZ	85:5:1766:G:OP2	95.10	0.67
33:E1:97:LYS:NZ	80:6:1253:U:O4	439.97	0.67
80:6:696:C:H4'	80:6:697:C:H6	1.58	0.67
6:S4:187:ARG:NH2	80:6:753:A:H62	374.28	0.67
27:D5:47:TYR:CE1	27:D5:51:LEU:HD11	3.62	0.67
40:L3:187:SER:HB3	40:L3:190:GLU:HG3	4.16	0.67
41:L4:8:VAL:HB	41:L4:16:THR:HG21	2.95	0.67
47:M0:38:LYS:HG2	47:M0:41:ALA:HB2	1.94	0.67
37:3:52:G:N2	48:M1:9:MET:SD	2.68	0.67
51:M5:85:THR:C	51:M5:87:GLN:H	2.71	0.67
55:M9:15:VAL:HG11	55:M9:52:LYS:HD2	4.85	0.67
56:N0:10:ILE:O	56:N0:59:VAL:N	2.75	0.67
2:S0:122:ILE:HG23	2:S0:144:ILE:HB	2.99	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:356:G:OP2	92:2:1914:OHX:N6	2.28	0.67
13:C1:33:ARG:NH2	13:C1:51:GLY:O	3.24	0.67
16:C4:104:ALA:HA	16:C4:107:ARG:HB3	2.95	0.67
27:D5:74:SER:HA	27:D5:77:ARG:NH2	3.19	0.67
42:L5:107:ARG:NH1	42:L5:248:ARG:HH21	3.70	0.67
51:M5:190:THR:HG22	51:M5:193:ARG:HH21	1.58	0.67
56:N0:82:ASP:OD1	56:N0:87:THR:HB	1.95	0.67
66:O0:16:LEU:O	66:O0:20:SER:OG	2.65	0.67
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.77	0.67
4:S2:97:ARG:H	4:S2:97:ARG:HD2	1.60	0.67
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.27	0.67
1:2:514:G:H1	1:2:543:C:H5	1.43	0.67
92:5:3534:OHX:N1	92:5:3580:OHX:N4	2.43	0.67
17:C5:19:GLY:N	20:C8:93:THR:O	2.28	0.67
41:L4:8:VAL:HG12	41:L4:9:HIS:N	2.10	0.67
46:L9:122:LYS:HD3	46:L9:123:ILE:N	4.27	0.67
54:M8:148:GLU:OE1	54:M8:152:HIS:NE2	2.27	0.67
55:M9:28:GLU:O	55:M9:32:ILE:HG13	2.31	0.67
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.09	0.67
36:1:2897:A:H5''	76:Q0:125:LYS:HG3	1.75	0.67
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.77	0.67
19:C7:34:LEU:HD23	19:C7:38:ILE:HG21	1.75	0.66
21:C9:72:GLY:HA3	80:6:1498:G:H5''	420.27	0.66
39:L2:202:VAL:O	39:L2:217:GLN:HG2	1.95	0.66
42:L5:257:GLU:O	42:L5:258:LYS:HG2	4.80	0.66
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	2.90	0.66
54:M8:161:LYS:O	54:M8:162:ALA:HB3	1.95	0.66
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH1	4.11	0.66
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	1.78	0.66
6:S4:163:ASP:O	6:S4:165:ALA:N	2.28	0.66
36:1:3013:U:H2'	36:1:3014:U:C6	2.30	0.66
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.27	0.66
1:2:641:G:H1	1:2:676:U:H3	1.43	0.66
38:4:103:G:O6	92:4:204:OHX:N6	2.28	0.66
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.08	0.66
40:L3:142:ALA:O	40:L3:145:GLU:N	3.22	0.66
46:L9:79:ILE:O	46:L9:82:VAL:HG12	1.96	0.66
53:M7:25:SER:HB3	53:M7:28:ASN:HB2	1.91	0.66
63:N7:115:LYS:NZ	63:N7:119:GLU:OE2	2.27	0.66
36:1:1807:G:H5'	63:N7:135:ARG:NH2	2.09	0.66
70:O4:38:LEU:HD12	70:O4:38:LEU:H	2.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:17:ARG:O	79:Q3:19:GLY:N	2.47	0.66
7:S5:204:GLY:HA2	7:S5:211:ILE:HG13	1.77	0.66
8:S6:61:PHE:CE1	8:S6:96:SER:HB2	2.29	0.66
1:2:901:U:H2'	1:2:902:A:H8	1.60	0.66
85:5:2812:C:H2'	85:5:2813:A:C8	2.30	0.66
80:6:1524:A:H2'	80:6:1525:A:C8	2.31	0.66
51:M5:190:THR:HG22	51:M5:193:ARG:NH2	2.10	0.66
51:M5:73:ARG:NH1	51:M5:88:GLY:O	2.38	0.66
55:M9:69:SER:O	55:M9:74:ARG:HB2	2.48	0.66
37:3:76:A:O2'	56:N0:50:LYS:HE3	1.94	0.66
70:O4:99:LYS:HB3	70:O4:103:LYS:HZ1	1.59	0.66
71:O5:101:THR:HG23	71:O5:104:GLN:H	3.43	0.66
2:S0:153:SER:O	2:S0:156:VAL:HG22	2.53	0.66
7:S5:133:VAL:HG22	7:S5:198:LEU:HD13	1.75	0.66
8:S6:142:ARG:HA	8:S6:147:LEU:HD12	2.70	0.66
36:1:1903:U:C2	36:1:1905:G:OP2	2.48	0.66
36:1:3214:U:O4	50:M4:124:ARG:NH1	2.29	0.66
85:5:1614:C:H2'	85:5:1615:C:H6	1.61	0.66
92:5:3522:OHX:N5	92:5:3721:OHX:N2	2.44	0.66
85:5:801:A:H4'	85:5:802:C:O5'	1.94	0.66
26:D4:121:THR:OG1	80:6:149:C:OP1	334.62	0.66
11:S9:143:ILE:HG12	80:6:768:C:C2	417.13	0.66
16:C4:121:VAL:O	80:6:886:U:O2'	287.54	0.66
17:C5:50:THR:CA	17:C5:50:THR:CG2	2.71	0.66
21:C9:38:LYS:O	21:C9:40:SER:N	2.27	0.66
24:D2:114:GLU:O	24:D2:117:ARG:HB3	2.57	0.66
33:E1:102:VAL:O	33:E1:104:SER:N	2.26	0.66
40:L3:284:ARG:NH1	40:L3:356:LEU:HD12	2.10	0.66
45:L8:152:LEU:HB3	45:L8:180:VAL:HG21	2.13	0.66
49:M3:59:ARG:HD3	85:5:73:C:O2	91.40	0.66
50:M4:113:THR:HB	50:M4:116:GLU:HG3	1.76	0.66
41:L4:354:VAL:HG11	57:N1:143:THR:HG21	2.70	0.66
49:M3:167:PHE:CE1	64:N8:132:LYS:HB2	2.30	0.66
78:Q2:17:CYS:HB2	94:Q2:501:ZN:ZN	1.39	0.66
36:1:1951:C:H42	36:1:2095:G:H1	1.43	0.66
36:1:3024:A:HO2'	46:L9:97:PHE:HE2	1.44	0.66
85:5:1087:G:N7	92:5:3609:OHX:N4	2.43	0.66
85:5:518:G:OP2	85:5:518:G:N2	2.26	0.66
16:C4:123:SER:HB2	80:6:885:G:N2	286.07	0.66
42:L5:158:ARG:HB2	37:7:46:A:OP1	279.06	0.66
19:C7:71:PHE:CZ	19:C7:74:GLN:HB2	5.39	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:112:ILE:HG22	39:L2:135:ILE:HG12	5.48	0.66
51:M5:150:TRP:O	51:M5:152:CYS:N	2.28	0.66
55:M9:116:ASP:OD2	55:M9:118:HIS:N	4.71	0.66
56:N0:167:ARG:HG3	56:N0:168:PRO:HD2	2.11	0.66
69:O3:86:ARG:O	92:O3:201:OHX:N1	2.29	0.66
69:O3:37:THR:HG23	69:O3:40:ASP:HB2	2.64	0.66
36:1:999:G:C6	36:1:1000:C:N4	2.63	0.66
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.29	0.66
36:1:3132:C:H2'	36:1:3133:C:C6	2.30	0.66
36:1:975:C:H2'	36:1:976:U:C6	2.29	0.66
1:2:603:U:H2'	1:2:604:A:H8	1.59	0.66
85:5:2180:G:H2'	85:5:2181:C:C6	2.29	0.66
85:5:2847:A:C2	85:5:2898:G:H2'	2.30	0.66
85:5:3218:A:H5''	85:5:3219:G:C8	2.30	0.66
85:5:2112:U:O2	92:5:3479:OHX:N1	2.29	0.66
85:5:997:A:O2'	37:7:79:A:N3	2.28	0.66
80:6:1638:G:C2	80:6:1639:C:H1'	2.30	0.66
80:6:2:A:C8	80:6:370:A:H1'	2.31	0.66
85:5:1054:A:OP1	92:7:208:OHX:N4	2.29	0.66
30:D8:32:PHE:HZ	30:D8:38:ARG:NE	1.93	0.66
41:L4:200:THR:HG22	41:L4:202:ARG:NH2	3.03	0.66
44:L7:157:ASN:O	44:L7:159:GLN:N	3.69	0.66
46:L9:103:ILE:HG13	46:L9:136:PHE:HE2	1.59	0.66
47:M0:150:GLU:HB2	47:M0:153:ARG:HH21	6.14	0.66
92:1:3612:OHX:N1	72:O6:28:TYR:O	2.29	0.66
78:Q2:74:CYS:HB3	78:Q2:77:CYS:SG	2.69	0.66
36:1:230:U:H2'	36:1:231:G:O4'	1.96	0.66
36:1:718:G:C2	36:1:721:G:H1'	2.30	0.66
85:5:3241:G:H2'	85:5:3245:A:H8	1.61	0.66
85:5:2403:G:P	92:5:3724:OHX:N4	2.68	0.66
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.78	0.66
22:D0:25:THR:HB	22:D0:115:GLU:HG2	5.57	0.66
28:D6:51:ARG:NH2	28:D6:55:GLU:OE1	2.28	0.66
42:L5:56:THR:O	42:L5:58:LYS:N	2.29	0.66
44:L7:159:GLN:O	44:L7:160:ARG:C	2.34	0.66
46:L9:103:ILE:HG22	46:L9:104:VAL:H	2.40	0.66
48:M1:12:LEU:HD21	48:M1:159:THR:HG22	5.93	0.66
49:M3:2:ALA:HB3	64:N8:33:GLY:O	1.96	0.66
51:M5:119:TYR:OH	51:M5:131:GLU:OE1	2.06	0.66
55:M9:134:HIS:CE1	55:M9:137:ALA:HB2	2.31	0.66
36:1:1636:U:H5''	63:N7:73:LYS:NZ	2.11	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:66:LYS:N	66:O0:66:LYS:HD2	4.80	0.66
69:O3:6:ARG:HG3	69:O3:8:TYR:CD1	2.87	0.66
2:S0:195:TRP:NE1	2:S0:197:ILE:HD13	5.70	0.66
36:1:1460:A:H2'	36:1:1461:A:H8	1.60	0.66
36:1:1756:C:H42	36:1:1769:G:H1	1.41	0.66
36:1:626:U:O4	92:1:3532:OHX:N5	2.29	0.66
1:2:1442:C:OP1	20:C8:126:ARG:NH2	2.29	0.66
1:2:901:U:H2'	1:2:902:A:C8	2.31	0.66
85:5:188:U:H1'	85:5:208:C:H1'	1.76	0.66
85:5:3159:C:H2'	85:5:3160:U:C6	2.31	0.66
68:O2:27:ARG:HD3	85:5:655:C:OP2	161.23	0.66
80:6:992:A:O2'	80:6:1785:U:O2	2.14	0.66
22:D0:80:GLU:OE1	22:D0:82:TYR:OH	2.72	0.66
41:L4:294:GLU:N	41:L4:294:GLU:OE1	2.25	0.66
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	2.08	0.66
48:M1:96:PHE:CD1	48:M1:160:VAL:HG23	4.13	0.66
56:N0:9:VAL:HG22	56:N0:61:ILE:HD13	2.58	0.66
63:N7:103:GLN:HB3	63:N7:106:GLN:HG3	5.00	0.66
68:O2:89:THR:HG23	68:O2:90:LYS:H	4.01	0.66
72:O6:90:MET:HA	72:O6:93:ILE:HG12	1.77	0.66
8:S6:48:TYR:CD2	8:S6:117:GLY:HA3	2.74	0.66
36:1:1015:U:O2'	36:1:1017:C:OP2	2.13	0.66
36:1:1103:A:H1'	36:1:1104:G:OP1	1.96	0.66
36:1:1222:G:O2'	36:1:1285:G:N1	2.29	0.66
36:1:147:U:OP2	45:L8:136:LEU:N	2.23	0.66
36:1:691:A:OP1	41:L4:46:LYS:NZ	2.26	0.66
1:2:1433:U:H2'	1:2:1434:C:C6	2.31	0.66
1:2:329:G:H2'	1:2:330:G:C8	2.31	0.66
1:2:801:C:N4	1:2:802:G:O6	2.27	0.66
1:2:879:U:O4'	16:C4:38:THR:HG21	1.96	0.66
85:5:1239:C:H42	85:5:1249:G:H1	1.44	0.66
85:5:2812:C:H2'	85:5:2813:A:H8	1.60	0.66
85:5:314:U:O4	92:5:3694:OHX:N5	2.29	0.66
32:E0:37:ARG:NH1	80:6:478:A:OP1	439.36	0.66
16:C4:133:ARG:HH21	16:C4:136:ARG:HH11	1.42	0.66
42:L5:233:ALA:O	42:L5:235:SER:N	2.29	0.66
43:L6:139:LYS:O	43:L6:143:LYS:HG3	1.95	0.66
43:L6:7:PRO:HG2	43:L6:10:TYR:CZ	2.31	0.66
49:M3:185:LYS:HG3	49:M3:188:ARG:NH1	5.02	0.66
61:N5:82:LEU:HD12	61:N5:126:LEU:HD21	1.78	0.66
67:O1:14:ILE:HG13	67:O1:19:ARG:NH1	2.10	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.77	0.66
36:1:781:G:N7	92:1:3477:OHX:N5	2.44	0.66
1:2:1148:G:C6	1:2:1149:A:C6	2.83	0.66
85:5:408:A:P	92:5:3601:OHX:N6	2.69	0.66
42:L5:217:GLU:HG2	42:L5:218:ARG:N	2.11	0.66
49:M3:56:PRO:HG3	49:M3:74:GLY:O	2.01	0.66
52:M6:114:LYS:HG2	85:5:3180:A:C6	270.01	0.66
62:N6:100:HIS:ND1	62:N6:102:SER:HB3	3.16	0.66
69:O3:49:ILE:HD13	69:O3:100:ILE:HG13	2.96	0.66
3:S1:216:LYS:NZ	80:6:886:U:OP2	276.78	0.66
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.10	0.66
35:SM:64:LYS:O	35:SM:65:THR:OG1	2.10	0.66
1:2:393:C:OP2	10:S8:2:GLY:N	2.29	0.65
37:3:79:A:C2	37:3:102:A:C4	2.84	0.65
85:5:1227:C:N4	85:5:1282:G:O6	2.19	0.65
41:L4:197:ARG:NH1	85:5:1381:A:OP1	108.84	0.65
45:L8:241:LYS:HB2	85:5:2586:G:N7	184.71	0.65
80:6:1734:U:O4	92:6:1976:OHX:N1	2.29	0.65
80:6:751:G:H2'	80:6:752:A:H8	1.59	0.65
23:D1:73:ALA:HB1	23:D1:78:LEU:HG	1.77	0.65
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.78	0.65
41:L4:187:LEU:HD23	41:L4:198:ARG:O	2.39	0.65
42:L5:270:LYS:HB3	37:7:1:G:O2'	321.59	0.65
48:M1:37:LEU:O	48:M1:41:SER:OG	2.14	0.65
36:1:813:G:H5'	73:O7:47:TYR:OH	1.97	0.65
74:O8:44:LYS:HG2	74:O8:53:THR:HB	2.28	0.65
4:S2:106:ASP:OD1	4:S2:108:ASN:N	2.23	0.65
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.77	0.65
85:5:1443:G:O6	92:5:3512:OHX:N5	2.30	0.65
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.78	0.65
18:C6:97:VAL:CG2	18:C6:98:ASP:H	2.49	0.65
47:M0:171:TRP:O	47:M0:174:THR:HG22	1.95	0.65
48:M1:155:THR:OG1	48:M1:158:ASP:N	2.17	0.65
50:M4:102:LYS:O	50:M4:106:ARG:HG2	1.96	0.65
51:M5:58:GLY:HA3	51:M5:142:ILE:CD1	2.27	0.65
55:M9:155:LEU:HA	55:M9:158:GLU:HG2	1.79	0.65
61:N5:136:ALA:O	61:N5:139:ILE:HG23	1.95	0.65
36:1:2726:C:OP1	92:1:3662:OHX:N3	2.30	0.65
36:1:2274:U:OP1	92:1:3501:OHX:N3	2.29	0.65
36:1:439:C:H3'	36:1:440:A:H8	1.61	0.65
36:1:603:A:C5	36:1:604:G:H1'	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1808:G:O6	92:5:3525:OHX:N3	2.28	0.65
80:6:310:C:H2'	80:6:311:U:H6	1.62	0.65
18:C6:114:ARG:O	18:C6:115:THR:OG1	2.13	0.65
40:L3:117:ARG:CZ	40:L3:175:LYS:HD3	3.60	0.65
40:L3:183:LEU:O	40:L3:191:LYS:NZ	2.30	0.65
40:L3:257:PRO:O	40:L3:259:HIS:N	2.26	0.65
46:L9:150:SER:O	46:L9:154:VAL:HG23	2.54	0.65
49:M3:58:VAL:O	49:M3:69:VAL:HG22	1.96	0.65
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.08	0.65
62:N6:3:LYS:HD2	62:N6:8:VAL:O	2.76	0.65
36:1:1742:U:H2'	36:1:1743:G:C8	2.31	0.65
36:1:592:A:H2'	36:1:593:C:H6	1.61	0.65
36:1:660:A:C2	36:1:1435:A:C2	2.84	0.65
1:2:66:U:H5	8:S6:173:PRO:HG3	1.60	0.65
38:4:68:G:OP2	92:O7:102:OHX:N6	2.30	0.65
64:N8:4:ARG:NH2	85:5:1427:U:OP2	134.16	0.65
13:C1:128:CYS:O	13:C1:129:ARG:HB3	4.37	0.65
39:L2:70:ARG:CD	39:L2:72:ARG:HE	5.55	0.65
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.78	0.65
46:L9:9:GLN:HG2	46:L9:52:LEU:HD11	1.78	0.65
54:M8:100:THR:HG23	54:M8:120:GLU:HB3	1.78	0.65
1:2:834:U:H5''	55:M9:172:ARG:NH1	2.12	0.65
65:N9:6:ASN:HB2	85:5:1135:A:OP1	224.28	0.65
38:4:52:A:H62	75:O9:27:ILE:HD13	1.60	0.65
2:S0:70:PRO:O	2:S0:95:ALA:N	2.23	0.65
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.29	0.65
36:1:2102:U:H2'	36:1:2103:U:C6	2.32	0.65
36:1:2948:C:O2'	40:L3:242:THR:HG22	1.96	0.65
36:1:3344:A:H2	36:1:3361:G:H21	1.44	0.65
1:2:1568:U:H3	1:2:1594:A:H2	1.45	0.65
27:D5:74:SER:OG	80:6:1534:G:OP2	343.36	0.65
38:8:103:G:OP2	38:8:105:A:O2'	2.15	0.65
38:8:149:A:H2'	38:8:150:G:C8	2.32	0.65
17:C5:55:GLY:HA2	17:C5:58:LYS:HD3	1.79	0.65
39:L2:70:ARG:NH1	39:L2:72:ARG:HH21	7.15	0.65
42:L5:68:THR:HB	42:L5:71:GLY:O	1.97	0.65
45:L8:48:ARG:NH2	85:5:2526:C:O2	186.48	0.65
51:M5:96:ARG:NH2	51:M5:104:GLU:OE1	3.95	0.65
50:M4:16:GLU:HB3	56:N0:149:LYS:HB3	2.70	0.65
61:N5:105:VAL:HG13	61:N5:130:TYR:CG	2.81	0.65
64:N8:65:GLN:O	64:N8:66:ALA:HB3	2.16	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:70:ARG:HD3	72:O6:84:LYS:HG2	2.64	0.65
36:1:3268:A:H3'	36:1:3269:U:H3'	1.78	0.65
1:2:1570:A:OP1	18:C6:136:SER:OG	2.15	0.65
1:2:1580:A:OP2	31:D9:32:ARG:NH2	2.30	0.65
13:C1:21:ASN:ND2	13:C1:31:THR:HA	4.19	0.65
17:C5:119:PHE:CE1	20:C8:121:ALA:HB2	2.32	0.65
41:L4:58:HIS:O	41:L4:60:THR:N	2.29	0.65
52:M6:51:LYS:O	52:M6:54:TYR:N	3.32	0.65
36:1:228:U:H5''	62:N6:8:VAL:HG11	1.77	0.65
68:O2:81:ASP:O	68:O2:84:THR:OG1	2.15	0.65
74:O8:24:THR:HG23	74:O8:44:LYS:HB2	2.12	0.65
36:1:180:C:H2'	36:1:181:U:H6	1.60	0.65
36:1:1813:A:O2'	36:1:1816:A:N3	2.30	0.65
36:1:2997:G:C6	36:1:3396:U:C4	2.85	0.65
85:5:510:G:O6	92:5:3524:OHX:N2	2.28	0.65
80:6:1449:U:O4	92:6:1927:OHX:N6	2.29	0.65
16:C4:84:ARG:HB2	16:C4:118:VAL:HG23	1.77	0.65
17:C5:68:PRO:HG2	17:C5:71:GLU:HB3	1.79	0.65
18:C6:38:LEU:O	18:C6:45:ARG:NE	2.29	0.65
15:C3:56:ASP:HA	29:D7:47:PHE:HB3	1.79	0.65
41:L4:265:GLU:N	41:L4:265:GLU:OE1	2.30	0.65
48:M1:96:PHE:HB2	48:M1:156:LYS:HE3	1.79	0.65
51:M5:140:LYS:HA	51:M5:143:ARG:HB2	2.28	0.65
51:M5:90:ASN:O	51:M5:92:LEU:N	3.62	0.65
36:1:290:G:OP1	51:M5:98:LEU:HD22	1.96	0.65
53:M7:110:THR:OG1	53:M7:111:LYS:N	2.29	0.65
55:M9:123:LEU:O	55:M9:127:SER:N	2.27	0.65
61:N5:106:ASP:O	61:N5:127:THR:HG23	1.97	0.65
67:O1:13:THR:HG22	67:O1:72:ARG:HD3	1.79	0.65
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.78	0.65
55:M9:60:LYS:NZ	85:5:1671:C:OP1	168.32	0.65
41:L4:48:GLN:NE2	85:5:337:G:O4'	96.29	0.65
85:5:419:G:O3'	85:5:420:G:OP2	2.13	0.65
80:6:230:C:N3	80:6:235:G:N2	2.40	0.65
80:6:62:A:OP1	92:6:1952:OHX:N2	2.29	0.65
80:6:647:G:H22	80:6:687:G:H1	1.45	0.65
80:6:74:U:C4	80:6:76:A:H5''	2.32	0.65
22:D0:42:VAL:O	22:D0:52:LYS:NZ	2.29	0.65
27:D5:93:SER:OG	27:D5:94:LYS:N	2.27	0.65
41:L4:26:PHE:CD1	41:L4:130:ALA:HB2	3.40	0.65
41:L4:23:PRO:HD2	41:L4:26:PHE:HD2	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:216:VAL:HG11	44:L7:227:GLY:HA3	4.70	0.65
36:1:2353:G:H5''	53:M7:86:LYS:HB2	1.78	0.65
70:O4:64:THR:OG1	70:O4:64:THR:O	2.20	0.65
2:S0:29:VAL:HG22	2:S0:30:GLN:H	2.61	0.65
3:S1:190:PRO:HG2	3:S1:192:VAL:HG23	2.47	0.65
3:S1:47:LEU:HD12	3:S1:47:LEU:H	2.73	0.65
36:1:2274:U:OP2	92:1:3501:OHX:N4	2.30	0.65
36:1:402:A:OP1	75:O9:36:ARG:NH2	2.29	0.65
36:1:999:G:C5	36:1:1000:C:N4	2.65	0.65
85:5:1614:C:H2'	85:5:1615:C:C6	2.32	0.65
34:SR:282:SER:OG	80:6:1394:G:OP1	414.31	0.65
80:6:913:G:H3'	80:6:914:G:H5'	1.78	0.65
18:C6:120:ASP:OD1	18:C6:121:SER:N	2.29	0.65
1:2:1442:C:H42	20:C8:139:LYS:HE3	1.62	0.65
24:D2:20:THR:OG1	24:D2:22:LYS:HD3	2.10	0.65
33:E1:144:CYS:HB3	33:E1:147:VAL:HB	1.77	0.65
40:L3:339:ARG:NH1	40:L3:342:LEU:HD21	3.02	0.65
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.30	0.65
97:1:3403:SPS:C5	98:P:101:8AN:O5'	2.45	0.65
4:S2:228:ASN:N	4:S2:228:ASN:OD1	3.17	0.65
5:S3:166:ASP:O	5:S3:190:ARG:NH2	5.12	0.65
8:S6:57:ASP:OD1	8:S6:98:ARG:HG3	1.97	0.65
36:1:1723:A:OP1	55:M9:128:LYS:NZ	2.22	0.65
36:1:2692:A:O5'	36:1:2692:A:H8	1.80	0.65
36:1:3:U:H2'	36:1:4:U:H6	1.61	0.65
85:5:343:U:OP2	92:5:3428:OHX:N5	2.30	0.65
80:6:1542:G:N2	80:6:1569:A:OP2	2.30	0.65
22:D0:71:PRO:O	22:D0:72:ASN:ND2	5.42	0.65
40:L3:102:LEU:HD23	40:L3:102:LEU:H	1.61	0.65
36:1:2988:C:O2	40:L3:266:ARG:NH1	2.30	0.65
41:L4:302:ALA:HB2	54:M8:39:ARG:HH22	2.02	0.65
44:L7:84:VAL:HG12	44:L7:117:VAL:HB	2.23	0.65
48:M1:166:LYS:C	48:M1:168:ASP:H	2.78	0.65
49:M3:129:ASN:HB2	49:M3:131:LYS:HE2	1.79	0.65
60:N4:20:LEU:HD23	60:N4:21:PHE:N	2.24	0.65
66:O0:13:LYS:O	66:O0:17:VAL:HG23	2.38	0.65
1:2:297:U:H5''	6:S4:37:LYS:HG2	1.79	0.65
36:1:1674:G:N7	92:1:3484:OHX:N5	2.45	0.64
36:1:2429:G:OP2	92:1:3521:OHX:N4	2.30	0.64
36:1:2767:U:P	92:1:3670:OHX:N2	2.70	0.64
1:2:539:G:OP2	1:2:539:G:H8	1.81	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:772:A:O2'	6:S4:106:LYS:NZ	2.30	0.64
85:5:187:A:N7	85:5:188:U:C4	2.65	0.64
85:5:2533:G:N2	85:5:2546:C:N3	2.44	0.64
63:N7:135:ARG:NH2	85:5:2556:C:O2'	199.71	0.64
85:5:3078:U:H4'	85:5:3079:U:O5'	1.97	0.64
85:5:585:A:H2'	85:5:586:C:C6	2.32	0.64
80:6:1769:U:OP2	92:6:1995:OHX:N2	2.31	0.64
13:C1:128:CYS:SG	13:C1:129:ARG:N	3.34	0.64
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	1.78	0.64
22:D0:41:ILE:HG13	22:D0:107:THR:HG21	3.32	0.64
41:L4:11:LEU:HD21	41:L4:155:ASP:HB2	1.77	0.64
36:1:209:A:P	41:L4:161:LYS:HZ1	2.20	0.64
46:L9:40:HIS:ND1	85:5:3124:G:H5'	310.64	0.64
2:S0:134:LYS:O	2:S0:137:SER:OG	2.22	0.64
2:S0:90:ALA:HB2	2:S0:97:PRO:HB3	2.58	0.64
7:S5:73:THR:HG23	18:C6:114:ARG:HD2	1.79	0.64
8:S6:78:THR:O	8:S6:81:VAL:HB	2.56	0.64
11:S9:113:VAL:HG21	11:S9:134:ILE:HD12	1.79	0.64
34:SR:123:ILE:HG22	34:SR:133:VAL:HG22	1.79	0.64
34:SR:133:VAL:O	34:SR:141:LEU:N	2.89	0.64
1:2:1525:G:N2	1:2:1551:C:H1'	2.11	0.64
85:5:1541:G:C5	85:5:1542:G:H1'	2.32	0.64
47:M0:67:ALA:HB2	85:5:2852:C:O2'	305.82	0.64
85:5:3259:U:H5''	85:5:3261:C:H5	1.62	0.64
85:5:3269:U:H5'	85:5:3271:G:O4'	1.97	0.64
85:5:3160:U:H3	85:5:3290:G:H1	1.44	0.64
20:C8:132:ARG:CZ	80:6:1544:U:H4'	344.95	0.64
12:C0:1:MET:SD	12:C0:2:LEU:N	2.66	0.64
12:C0:53:GLY:O	12:C0:55:VAL:N	2.30	0.64
29:D7:31:TYR:HB2	29:D7:81:ARG:HD3	2.68	0.64
47:M0:50:VAL:O	47:M0:138:VAL:HG23	1.97	0.64
48:M1:94:ARG:O	48:M1:96:PHE:N	2.30	0.64
49:M3:81:LYS:C	49:M3:83:ALA:H	2.83	0.64
36:1:3274:A:H2'	53:M7:171:ARG:HH12	1.62	0.64
36:1:617:G:H4'	53:M7:171:ARG:HH21	1.62	0.64
58:N2:54:VAL:HG12	58:N2:67:SER:HA	1.78	0.64
64:N8:67:HIS:NE2	85:5:71:A:OP2	119.15	0.64
69:O3:80:VAL:HG12	69:O3:81:VAL:H	1.63	0.64
70:O4:107:GLU:HG2	70:O4:110:GLU:OE1	5.01	0.64
72:O6:94:ILE:HD13	72:O6:97:SER:HB2	9.44	0.64
34:SR:37:SER:OG	34:SR:39:ASP:OD2	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1306:G:C6	52:M6:62:THR:HA	2.32	0.64
85:5:1329:U:HO2'	85:5:1330:A:P	2.19	0.64
85:5:2761:G:O2'	85:5:2795:U:O4	2.12	0.64
85:5:621:A:H2'	85:5:622:A:C8	2.32	0.64
16:C4:136:ARG:HD2	80:6:1769:U:O2	302.35	0.64
80:6:447:U:C4	80:6:448:C:C4	2.86	0.64
80:6:90:C:H2'	80:6:91:G:H8	1.61	0.64
16:C4:107:ARG:HB2	16:C4:107:ARG:NH2	3.53	0.64
17:C5:22:LEU:HA	17:C5:25:LEU:HB2	2.89	0.64
1:2:970:G:C2	39:L2:249:SER:HB2	2.31	0.64
45:L8:60:ARG:O	45:L8:64:ILE:HG13	2.72	0.64
46:L9:76:ASP:O	46:L9:79:ILE:N	2.30	0.64
49:M3:50:PRO:O	49:M3:52:ASP:N	2.31	0.64
51:M5:32:GLN:O	92:5:3457:OHX:N4	147.47	0.64
62:N6:28:ARG:HB2	62:N6:75:ARG:CZ	2.27	0.64
5:S3:14:ASP:O	5:S3:17:PHE:N	3.24	0.64
36:1:1004:U:C2	36:1:1005:G:C8	2.84	0.64
36:1:824:C:C2	36:1:825:U:C5	2.86	0.64
1:2:1143:A:H2'	1:2:1144:C:H6	1.61	0.64
85:5:1262:G:H5''	85:5:1263:A:OP2	1.97	0.64
85:5:1822:C:H2'	85:5:1823:A:H8	1.63	0.64
1:2:851:G:OP1	15:C3:121:ARG:NH1	2.30	0.64
15:C3:86:GLU:HG2	15:C3:90:TYR:HE1	5.50	0.64
18:C6:128:LYS:NZ	18:C6:134:ALA:O	2.58	0.64
30:D8:36:THR:OG1	30:D8:37:SER:N	2.30	0.64
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	2.30	0.64
44:L7:116:PHE:HB2	44:L7:199:ASN:OD1	2.47	0.64
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.78	0.64
47:M0:206:LEU:O	47:M0:210:ILE:HG12	3.66	0.64
48:M1:133:ARG:HH12	48:M1:154:THR:HA	1.61	0.64
55:M9:86:GLU:OE2	55:M9:91:SER:N	2.22	0.64
59:N3:93:LEU:H	59:N3:93:LEU:HD23	1.63	0.64
65:N9:20:GLY:O	65:N9:21:ILE:HB	2.45	0.64
71:O5:44:ILE:O	71:O5:48:ARG:HG2	1.97	0.64
5:S3:140:GLY:HA3	5:S3:182:LEU:HD23	3.75	0.64
97:1:3403:SPS:H81	98:P:101:8AN:C8	2.24	0.64
36:1:383:G:N2	36:1:386:A:OP2	2.29	0.64
1:2:1411:G:H5'	1:2:1411:G:H8	1.63	0.64
1:2:584:C:H1'	32:E0:18:THR:HG21	1.80	0.64
85:5:1807:G:C6	85:5:1808:G:N1	2.66	0.64
85:5:1851:G:H8	85:5:1851:G:O5'	1.81	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:189:G:C2	85:5:191:U:C4	2.86	0.64
85:5:1948:G:C2	85:5:1949:G:C8	2.86	0.64
85:5:497:C:H42	85:5:616:G:H1	1.44	0.64
85:5:541:U:H2'	85:5:542:G:C8	2.32	0.64
85:5:622:A:H2'	85:5:623:U:O4'	1.97	0.64
80:6:1054:U:H2'	80:6:1055:U:H6	1.63	0.64
80:6:386:G:H2'	80:6:387:A:C8	2.32	0.64
80:6:463:U:H2'	80:6:464:A:C8	2.33	0.64
14:C2:38:HIS:O	14:C2:125:ASN:ND2	2.30	0.64
17:C5:63:ALA:HB1	17:C5:74:ALA:HB3	2.30	0.64
17:C5:44:ARG:NH2	17:C5:82:ASN:O	4.26	0.64
1:2:1503:U:H5''	21:C9:75:LYS:HZ1	1.62	0.64
25:D3:89:ASN:HB2	25:D3:92:CYS:HG	2.99	0.64
40:L3:10:ARG:NH1	40:L3:12:GLY:O	3.92	0.64
2:S0:199:PRO:O	2:S0:201:LEU:N	3.57	0.64
9:S7:143:LEU:HB2	9:S7:147:ASN:HB2	1.80	0.64
9:S7:28:GLU:HG2	9:S7:35:LYS:HG3	1.78	0.64
36:1:1720:U:OP2	55:M9:120:TYR:OH	2.14	0.64
36:1:2512:C:N4	36:1:2593:A:OP2	2.28	0.64
36:1:2954:U:O4	97:1:3403:SPS:S15	2.56	0.64
36:1:3109:G:C2	36:1:3126:C:C2	2.86	0.64
1:2:1254:G:H2'	1:2:1255:U:C6	2.32	0.64
1:2:841:G:OP1	9:S7:116:ARG:NH2	2.30	0.64
85:5:182:U:H2'	85:5:183:G:C8	2.32	0.64
85:5:249:U:H2'	85:5:249:U:OP2	1.97	0.64
85:5:255:A:H2'	85:5:256:G:C8	2.32	0.64
92:5:3534:OHX:N1	92:5:3580:OHX:N2	2.45	0.64
22:D0:57:ARG:NH1	80:6:1383:G:H1'	452.10	0.64
77:Q1:2:ARG:NH1	80:6:1773:C:OP2	308.82	0.64
92:6:2005:OHX:N5	92:6:2048:OHX:N3	2.46	0.64
80:6:560:U:H2'	80:6:561:G:C8	2.33	0.64
80:6:800:U:H2'	80:6:801:G:H8	1.62	0.64
13:C1:129:ARG:O	13:C1:131:ILE:N	2.97	0.64
25:D3:89:ASN:HB2	25:D3:92:CYS:SG	2.83	0.64
30:D8:16:LEU:HB2	30:D8:27:GLN:HB2	2.64	0.64
39:L2:174:ARG:NH2	85:5:2179:C:O3'	212.77	0.64
41:L4:181:VAL:HG12	41:L4:182:LEU:N	2.12	0.64
42:L5:97:ALA:O	42:L5:101:THR:OG1	2.11	0.64
51:M5:49:ARG:NH1	85:5:149:U:OP2	101.04	0.64
65:N9:7:HIS:CG	65:N9:8:THR:N	2.65	0.64
3:S1:229:MET:SD	3:S1:232:HIS:ND1	2.67	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:87:GLN:HG2	4:S2:96:THR:HB	1.79	0.64
1:2:1647:C:H42	1:2:1720:G:H1	1.46	0.64
1:2:395:U:H2'	1:2:396:G:O4'	1.98	0.64
1:2:638:U:H1'	9:S7:112:ARG:HH12	1.63	0.64
38:4:121:U:H2'	38:4:122:U:C6	2.32	0.64
85:5:1345:G:C2	85:5:1360:C:N3	2.66	0.64
85:5:2697:A:H2'	85:5:2698:G:C8	2.32	0.64
85:5:2993:G:H2'	85:5:3142:A:H61	1.62	0.64
10:S8:142:LYS:NZ	80:6:187:G:OP2	271.63	0.64
80:6:531:C:OP2	92:6:1956:OHX:N5	2.30	0.64
80:6:878:G:OP1	80:6:943:C:O2'	2.16	0.64
1:2:1412:G:H1'	22:D0:74:GLU:HG2	1.79	0.64
42:L5:219:PHE:CE1	42:L5:227:LEU:HD11	2.32	0.64
47:M0:201:SER:OG	47:M0:203:LYS:O	2.15	0.64
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.12	0.64
36:1:1193:A:OP2	52:M6:49:ARG:NH1	2.26	0.64
36:1:1430:U:O4	64:N8:3:SER:OG	2.15	0.64
36:1:1852:G:N7	92:1:3513:OHX:N3	2.45	0.64
38:4:14:C:H5''	53:M7:123:PRO:HG3	1.78	0.64
85:5:392:G:C2	85:5:393:U:C6	2.86	0.64
80:6:461:G:H2'	80:6:462:G:C8	2.32	0.64
15:C3:112:LYS:O	15:C3:116:ILE:HD12	4.23	0.64
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.31	0.64
42:L5:236:LEU:HA	42:L5:239:ILE:HD12	1.77	0.64
42:L5:61:ILE:HD13	42:L5:79:TYR:CE1	4.31	0.64
44:L7:219:LYS:HB3	44:L7:228:SER:HB2	1.80	0.64
46:L9:171:ASP:OD1	46:L9:173:ARG:HB2	2.15	0.64
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	1.94	0.64
65:N9:38:LYS:HB3	65:N9:41:ARG:HH12	4.16	0.64
72:O6:2:THR:OG1	72:O6:3:VAL:N	2.31	0.64
3:S1:64:ARG:H	3:S1:88:VAL:HB	1.63	0.64
8:S6:163:THR:HA	8:S6:168:THR:HA	1.79	0.64
36:1:408:A:P	92:1:3589:OHX:N3	2.70	0.64
1:2:226:A:H61	1:2:818:U:H3	1.46	0.64
85:5:1729:A:H4'	85:5:1730:G:OP2	1.96	0.64
80:6:73:U:H2'	80:6:74:U:C6	2.33	0.64
80:6:754:A:N6	80:6:793:A:N7	2.42	0.64
14:C2:124:LYS:O	14:C2:126:TRP:N	2.31	0.64
16:C4:114:ARG:HD2	28:D6:59:TYR:OH	3.87	0.64
30:D8:52:ASP:N	30:D8:52:ASP:OD1	2.28	0.64
41:L4:3:ARG:HH11	41:L4:22:LEU:HD12	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:261:THR:HG23	42:L5:264:GLN:HE21	1.63	0.64
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.31	0.64
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.31	0.64
53:M7:5:GLY:N	53:M7:147:GLU:OE2	2.29	0.64
36:1:3067:C:H5''	55:M9:58:HIS:CD2	2.32	0.64
3:S1:91:VAL:HG23	3:S1:96:LEU:HB3	1.79	0.64
6:S4:45:ILE:HG13	6:S4:61:VAL:HG21	2.73	0.64
9:S7:123:ASP:OD1	9:S7:138:LYS:NZ	2.30	0.64
10:S8:84:HIS:HE1	10:S8:86:SER:HB2	1.63	0.64
34:SR:238:ASP:OD2	34:SR:258:THR:OG1	3.31	0.64
36:1:1487:G:H1	36:1:1855:U:H3	1.45	0.64
36:1:2101:C:O2'	36:1:2102:U:O5'	2.16	0.64
36:1:3029:A:OP2	92:1:3606:OHX:N3	2.30	0.64
85:5:2562:A:N6	85:5:2579:G:O2'	2.30	0.64
85:5:3384:U:H2'	85:5:3385:U:H6	1.63	0.64
80:6:320:U:H2'	80:6:321:C:H2'	1.80	0.64
80:6:74:U:C2	80:6:76:A:H5''	2.33	0.64
48:M1:72:ARG:NE	37:7:40:C:O2	306.57	0.64
14:C2:57:ALA:HB3	14:C2:85:LYS:HE2	1.80	0.64
20:C8:52:VAL:HG21	20:C8:69:ILE:HD11	3.73	0.64
21:C9:39:THR:HG1	21:C9:43:ASN:HD22	1.45	0.64
44:L7:218:ARG:HH21	37:7:86:U:H3'	260.29	0.64
49:M3:73:ARG:NH1	85:5:110:G:OP2	75.40	0.64
41:L4:286:VAL:HG11	54:M8:31:LYS:HD2	5.40	0.64
55:M9:167:ARG:HB3	55:M9:167:ARG:NH1	4.55	0.64
56:N0:77:VAL:HG11	56:N0:106:LEU:HD13	1.79	0.64
58:N2:99:LYS:HE3	58:N2:102:GLU:OE1	1.97	0.64
59:N3:5:GLY:HA3	59:N3:106:LYS:O	1.98	0.64
3:S1:129:THR:HB	3:S1:180:THR:HA	1.80	0.64
9:S7:165:LYS:O	9:S7:168:SER:OG	2.12	0.64
11:S9:153:GLU:HA	11:S9:156:ILE:HD11	2.35	0.64
36:1:1564:U:H2'	36:1:1565:G:C8	2.33	0.63
36:1:2572:C:O2'	36:1:2573:G:O4'	2.15	0.63
1:2:1050:C:OP1	3:S1:150:VAL:HG13	1.99	0.63
80:6:564:G:N2	80:6:577:G:OP1	2.31	0.63
80:6:845:G:H2'	80:6:846:G:C8	2.32	0.63
80:6:868:G:C2	80:6:869:A:C8	2.86	0.63
15:C3:56:ASP:OD2	29:D7:52:THR:OG1	3.53	0.63
41:L4:207:VAL:HB	41:L4:227:THR:HG22	5.91	0.63
41:L4:330:TYR:CE2	44:L7:49:ALA:HA	3.00	0.63
49:M3:48:PRO:HA	49:M3:137:GLN:HB3	1.79	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:90:ALA:HB1	49:M3:95:ILE:HD12	2.71	0.63
55:M9:171:ASP:N	55:M9:171:ASP:OD1	2.69	0.63
62:N6:120:GLN:NE2	62:N6:126:LEU:HA	8.82	0.63
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.80	0.63
36:1:3174:A:OP1	69:O3:97:SER:OG	2.15	0.63
5:S3:162:GLN:OE1	5:S3:165:ASN:ND2	2.30	0.63
85:5:2165:G:N2	85:5:2170:U:C4	2.66	0.63
85:5:79:U:OP2	92:5:3464:OHX:N4	2.31	0.63
85:5:91:G:OP2	85:5:93:C:N4	2.31	0.63
3:S1:149:GLN:HB2	80:6:1066:C:H4'	344.06	0.63
5:S3:23:GLU:CD	12:C0:61:TRP:HE1	2.01	0.63
16:C4:12:GLN:HB3	16:C4:78:ALA:HB2	2.60	0.63
17:C5:30:THR:HG23	17:C5:86:VAL:HG21	1.80	0.63
21:C9:33:TYR:HD1	21:C9:34:VAL:H	4.30	0.63
1:2:1481:G:OP1	21:C9:75:LYS:HD3	1.97	0.63
25:D3:43:PHE:CE1	25:D3:49:ALA:HB3	2.33	0.63
39:L2:204:MET:HG2	39:L2:208:ASP:HB2	4.21	0.63
41:L4:138:ARG:NH1	41:L4:138:ARG:O	2.31	0.63
48:M1:137:ARG:NH1	37:7:28:C:OP1	301.27	0.63
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.18	0.63
78:Q2:77:CYS:O	78:Q2:79:THR:N	2.54	0.63
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.79	0.63
36:1:1441:G:OP1	92:4:215:OHX:N2	2.31	0.63
36:1:2402:A:O3'	92:1:3702:OHX:N5	2.32	0.63
36:1:2842:U:OP1	36:1:2844:C:N4	2.30	0.63
36:1:330:G:N7	92:1:3576:OHX:N6	2.46	0.63
1:2:396:G:N2	1:2:399:A:OP2	2.32	0.63
1:2:461:G:OP1	11:S9:2:PRO:HG2	1.98	0.63
85:5:1346:G:H1	85:5:1358:C:N4	1.97	0.63
41:L4:180:LYS:HA	85:5:1386:A:N3	118.11	0.63
85:5:1818:U:H2'	85:5:1819:U:O4'	1.99	0.63
80:6:616:G:N2	80:6:622:A:C8	2.67	0.63
80:6:955:A:H2'	80:6:956:C:O4'	1.99	0.63
38:8:68:G:C6	38:8:69:U:C4	2.85	0.63
23:D1:17:CYS:SG	23:D1:18:SER:N	3.08	0.63
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.30	0.63
50:M4:128:ARG:HH11	50:M4:128:ARG:HB3	2.40	0.63
53:M7:25:SER:O	53:M7:29:THR:HG23	1.97	0.63
55:M9:62:ARG:O	55:M9:65:ALA:N	2.88	0.63
56:N0:77:VAL:HG11	56:N0:106:LEU:HG	4.57	0.63
57:N1:13:TYR:O	92:5:3415:OHX:N4	260.78	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:N4:9:SER:OG	60:N4:10:GLY:N	2.41	0.63
64:N8:75:LEU:O	64:N8:77:LYS:N	2.95	0.63
65:N9:37:PRO:HB2	85:5:2738:A:H4'	207.51	0.63
2:S0:114:SER:HB2	2:S0:116:LYS:HZ1	4.63	0.63
5:S3:22:ASN:O	5:S3:26:THR:OG1	2.61	0.63
7:S5:209:TYR:OH	7:S5:213:LYS:NZ	5.41	0.63
11:S9:27:GLU:OE1	11:S9:39:LYS:NZ	3.11	0.63
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	1.81	0.63
36:1:1421:G:C2	36:1:1422:G:C8	2.86	0.63
1:2:1141:C:H42	1:2:1146:A:H61	1.44	0.63
1:2:1370:G:OP1	19:C7:32:LYS:NZ	2.30	0.63
1:2:319:U:H1'	1:2:323:A:C4	2.34	0.63
1:2:577:G:C2	35:SM:99:LYS:HG2	2.33	0.63
85:5:3358:U:H2'	85:5:3359:A:C8	2.33	0.63
80:6:627:C:H2'	80:6:628:G:O4'	1.99	0.63
26:D4:110:GLN:HB3	26:D4:114:ARG:HH12	2.06	0.63
40:L3:361:THR:H	40:L3:371:GLN:NE2	2.94	0.63
50:M4:121:MET:O	50:M4:125:LYS:HG2	1.98	0.63
50:M4:65:LEU:HD12	56:N0:172:TYR:CE2	2.33	0.63
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.81	0.63
57:N1:65:TYR:HB3	57:N1:75:ILE:HG13	5.39	0.63
58:N2:51:GLY:O	58:N2:53:ALA:N	2.32	0.63
62:N6:55:GLU:HB2	62:N6:108:LYS:HB2	2.76	0.63
66:O0:66:LYS:H	66:O0:66:LYS:HD2	4.61	0.63
69:O3:13:HIS:CD2	69:O3:28:SER:HG	2.51	0.63
2:S0:121:VAL:HB	2:S0:143:VAL:HG22	1.80	0.63
9:S7:126:LEU:HD13	9:S7:173:TYR:CD2	2.99	0.63
36:1:1146:C:H4'	36:1:1331:U:C5	2.34	0.63
36:1:132:C:H2'	36:1:133:U:H5''	1.80	0.63
36:1:198:A:C6	36:1:219:A:C6	2.86	0.63
36:1:603:A:H2'	36:1:604:G:O4'	1.99	0.63
85:5:1103:A:H3'	85:5:1104:G:H5'	1.81	0.63
85:5:1345:G:N2	85:5:1360:C:N3	2.47	0.63
85:5:2618:G:O2'	85:5:2619:G:OP2	2.17	0.63
85:5:2669:G:O6	92:5:3570:OHX:N5	2.32	0.63
85:5:2871:G:H5''	85:5:2872:A:H5'	1.79	0.63
85:5:1819:U:O4	92:5:3550:OHX:N5	2.31	0.63
85:5:900:G:H2'	85:5:901:G:C8	2.33	0.63
18:C6:10:PHE:CE2	80:6:1379:C:H5'	430.93	0.63
80:6:1799:U:H4'	80:6:1800:A:H2'	1.80	0.63
6:S4:187:ARG:NH2	80:6:753:A:N7	373.61	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:21:ARG:NH2	37:7:8:G:O6	287.35	0.63
25:D3:86:PHE:HB2	25:D3:120:VAL:HG11	2.57	0.63
41:L4:345:GLU:O	41:L4:346:LYS:HB2	4.72	0.63
45:L8:207:ASP:O	45:L8:209:ALA:N	3.25	0.63
48:M1:29:ARG:HG3	48:M1:32:ARG:HH12	3.61	0.63
53:M7:61:ARG:O	53:M7:64:ASN:ND2	2.31	0.63
56:N0:148:LEU:HD22	56:N0:149:LYS:H	5.10	0.63
61:N5:66:PRO:HD2	71:O5:36:LEU:HD21	2.60	0.63
64:N8:47:LYS:O	64:N8:48:TYR:HB2	1.98	0.63
71:O5:45:LYS:O	71:O5:49:LYS:HG2	4.26	0.63
72:O6:25:LYS:O	72:O6:28:TYR:HB2	1.98	0.63
4:S2:38:VAL:O	4:S2:39:THR:OG1	2.13	0.63
36:1:2679:A:O2'	48:M1:52:TYR:OH	2.16	0.63
36:1:3030:G:C6	36:1:3031:G:C4	2.87	0.63
92:1:3507:OHX:N5	92:1:3691:OHX:N5	2.46	0.63
1:2:298:C:H5''	6:S4:38:LEU:HD23	1.80	0.63
37:3:97:A:O4'	44:L7:225:GLN:OE1	2.16	0.63
52:M6:133:ARG:NH1	85:5:1189:C:C4	293.70	0.63
85:5:138:U:H2'	85:5:139:G:H8	1.64	0.63
85:5:1481:A:O2'	85:5:1482:A:O5'	2.17	0.63
85:5:1651:U:H2'	85:5:1652:G:C8	2.33	0.63
85:5:3326:G:H2'	85:5:3327:G:H8	1.63	0.63
80:6:1691:A:H2'	80:6:1692:G:H8	1.63	0.63
92:5:3503:OHX:N3	92:7:209:OHX:N4	2.46	0.63
16:C4:89:THR:O	16:C4:128:LYS:NZ	3.51	0.63
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.80	0.63
24:D2:26:LEU:HD21	24:D2:60:LYS:HD3	1.81	0.63
40:L3:320:ASP:N	40:L3:320:ASP:OD2	2.29	0.63
42:L5:33:ARG:HD2	37:7:7:G:OP1	270.87	0.63
56:N0:62:ASN:OD1	56:N0:62:ASN:N	2.58	0.63
58:N2:14:THR:HG23	58:N2:66:VAL:HG22	2.42	0.63
59:N3:33:ASN:HD22	59:N3:33:ASN:C	2.01	0.63
5:S3:64:ARG:HA	5:S3:67:ASN:HB2	2.82	0.63
1:2:738:A:H2	6:S4:13:ALA:HA	1.62	0.63
8:S6:70:PRO:O	8:S6:98:ARG:NH1	3.68	0.63
36:1:1595:U:C2	36:1:1596:C:C5	2.86	0.63
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.32	0.63
36:1:2763:U:H5'	54:M8:176:ARG:HG3	1.80	0.63
36:1:2786:G:O6	92:1:3575:OHX:N3	2.31	0.63
1:2:588:U:O2	32:E0:57:ASN:ND2	2.29	0.63
85:5:1554:U:C2	85:5:1555:U:C5	2.87	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2841:G:H2'	85:5:2844:C:H42	1.64	0.63
80:6:1735:U:O4	92:6:1976:OHX:N1	2.32	0.63
38:8:125:U:O2'	38:8:126:A:H5'	1.99	0.63
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.80	0.63
39:L2:72:ARG:NH2	85:5:2522:G:O6	182.82	0.63
42:L5:204:VAL:O	42:L5:208:MET:HG3	2.24	0.63
47:M0:210:ILE:HG23	47:M0:217:PHE:CE2	2.33	0.63
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.43	0.63
64:N8:73:LEU:O	64:N8:112:ILE:HA	2.33	0.63
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.13	0.63
77:Q1:21:ARG:NH1	80:6:1654:G:OP1	280.69	0.63
2:S0:82:GLY:O	2:S0:86:VAL:HG22	1.98	0.63
36:1:1107:C:H2'	36:1:1108:U:H6	1.64	0.63
36:1:1675:G:H2'	36:1:1676:A:C8	2.34	0.63
36:1:1715:A:H4'	36:1:1716:U:OP1	1.99	0.63
36:1:249:U:O2	36:1:250:U:N3	2.31	0.63
36:1:2921:U:H2'	36:1:2923:U:OP2	1.98	0.63
1:2:1023:G:N2	1:2:1061:C:O2	2.31	0.63
85:5:109:A:O2'	85:5:323:A:N6	2.32	0.63
44:L7:206:LYS:HB3	85:5:1334:U:H5''	236.28	0.63
85:5:595:G:N1	85:5:609:G:H5''	2.13	0.63
85:5:848:A:C5	85:5:849:C:H1'	2.33	0.63
80:6:333:A:N1	80:6:334:G:N1	2.46	0.63
16:C4:132:ARG:NH1	80:6:1788:G:O5'	295.21	0.63
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.80	0.63
2:S0:62:ARG:HH21	23:D1:39:VAL:HG22	1.92	0.63
26:D4:62:THR:HA	26:D4:69:SER:HA	2.21	0.63
39:L2:44:ILE:HD12	39:L2:62:VAL:HB	1.81	0.63
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.80	0.63
42:L5:289:LYS:HD3	47:M0:206:LEU:HD23	1.81	0.63
53:M7:101:ASN:OD1	85:5:388:G:N2	113.60	0.63
2:S0:84:ARG:HB3	2:S0:203:PHE:O	1.99	0.63
6:S4:247:SER:OG	6:S4:249:ALA:HB3	2.58	0.63
9:S7:62:VAL:HB	9:S7:94:ALA:HA	1.79	0.63
36:1:342:A:C6	36:1:349:A:C8	2.87	0.63
36:1:377:A:H1'	36:1:392:G:N2	2.13	0.63
1:2:1666:C:O2'	1:2:1667:U:O5'	2.17	0.63
56:N0:117:ARG:NH2	85:5:1322:U:OP1	281.30	0.63
85:5:2404:A:C6	95:5:3401:PHE:HZ	2.17	0.63
80:6:10:G:N2	80:6:11:A:H1'	2.14	0.63
80:6:1514:U:H5''	80:6:1515:A:N3	2.13	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:363:G:OP1	92:6:1965:OHX:N1	2.32	0.63
80:6:89:G:C6	80:6:90:C:C4	2.87	0.63
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	2.00	0.63
20:C8:36:LYS:HB3	20:C8:105:VAL:HG21	4.54	0.63
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.63	0.63
25:D3:70:LYS:HD2	25:D3:93:LEU:HD22	2.51	0.63
36:1:3003:G:OP2	40:L3:26:ARG:NH2	2.32	0.63
41:L4:304:GLN:O	41:L4:306:THR:N	2.57	0.63
69:O3:31:LYS:NZ	69:O3:35:VAL:O	2.31	0.63
78:Q2:48:SER:O	92:Q2:502:OHX:N3	4.78	0.63
7:S5:110:ALA:HA	7:S5:113:ILE:HD12	1.81	0.63
9:S7:31:SER:HA	9:S7:35:LYS:HE3	2.72	0.63
11:S9:118:LEU:HD23	11:S9:158:PHE:CE1	2.68	0.63
36:1:1329:U:HO2'	36:1:1330:A:P	2.22	0.62
36:1:1689:U:H2'	36:1:1690:C:H6	1.64	0.62
36:1:2266:U:H2'	36:1:2267:C:C6	2.34	0.62
36:1:437:G:H2'	36:1:438:A:O4'	1.99	0.62
36:1:929:A:C5	36:1:930:U:C4	2.86	0.62
1:2:1544:U:H2'	1:2:1545:G:H8	1.64	0.62
1:2:263:C:H4'	1:2:292:U:H5'	1.79	0.62
1:2:397:A:O3'	10:S8:50:GLY:HA2	1.99	0.62
1:2:74:U:H1'	1:2:75:U:H5''	1.81	0.62
85:5:1228:C:H2'	85:5:1229:G:H8	1.63	0.62
85:5:2666:C:OP2	85:5:2687:G:N1	2.32	0.62
85:5:2956:A:H62	85:5:2977:G:H21	1.47	0.62
52:M6:109:PRO:HB3	85:5:3243:A:C2	260.33	0.62
85:5:327:A:H2'	85:5:328:U:H6	1.64	0.62
73:O7:43:LYS:NZ	85:5:55:G:OP1	114.42	0.62
80:6:1230:A:H8	80:6:1258:U:C4	2.17	0.62
80:6:1595:U:H3	80:6:1600:A:H2	1.47	0.62
80:6:1783:C:H2'	80:6:1784:C:C6	2.34	0.62
80:6:1055:U:O4	92:6:2058:OHX:N3	2.31	0.62
15:C3:54:LEU:HB3	15:C3:60:VAL:HB	1.81	0.62
42:L5:251:PRO:O	42:L5:253:PHE:N	2.32	0.62
43:L6:172:HIS:ND1	69:O3:44:TYR:OH	2.31	0.62
51:M5:153:ASP:HB3	51:M5:155:VAL:HG23	1.79	0.62
53:M7:65:SER:O	53:M7:66:SER:HB2	2.20	0.62
36:1:1720:U:OP2	55:M9:110:ARG:NH1	2.31	0.62
66:O0:33:SER:OG	66:O0:39:SER:HB2	1.98	0.62
1:2:577:G:C4	35:SM:99:LYS:HE2	2.35	0.62
36:1:2706:G:C6	36:1:2707:C:N4	2.68	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2234:G:O6	92:1:3577:OHX:N1	2.32	0.62
36:1:1780:G:OP1	92:1:3586:OHX:N2	2.32	0.62
1:2:442:C:O2'	1:2:525:A:N1	2.33	0.62
1:2:45:U:O2'	1:2:46:A:H2'	1.99	0.62
1:2:902:A:H5'	16:C4:18:ARG:NH1	2.13	0.62
92:4:206:OHX:N6	73:O7:60:GLY:O	2.32	0.62
85:5:283:G:OP2	85:5:285:A:O2'	2.16	0.62
85:5:1161:G:OP1	92:5:3530:OHX:N4	2.31	0.62
85:5:426:G:C6	85:5:427:C:N4	2.66	0.62
80:6:194:U:H2'	80:6:195:G:H4'	1.81	0.62
37:7:52:G:C2	37:7:53:U:C5	2.86	0.62
16:C4:18:ARG:HG3	16:C4:82:LYS:HB2	3.38	0.62
29:D7:19:HIS:HB3	29:D7:22:LYS:HB2	2.68	0.62
29:D7:46:VAL:HG12	29:D7:47:PHE:H	2.99	0.62
40:L3:125:SER:OG	40:L3:126:LYS:N	3.90	0.62
41:L4:50:TYR:CD2	41:L4:109:TRP:HH2	2.65	0.62
44:L7:104:GLN:O	44:L7:107:ARG:N	2.39	0.62
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.64	0.62
45:L8:95:ASN:O	45:L8:98:ARG:HG3	1.99	0.62
46:L9:150:SER:OG	46:L9:153:ASP:N	2.19	0.62
36:1:2674:A:C6	48:M1:124:GLY:HA3	2.33	0.62
56:N0:47:LYS:O	56:N0:48:LEU:HD23	1.98	0.62
63:N7:54:THR:O	63:N7:57:HIS:HB2	1.99	0.62
64:N8:2:PRO:HD2	85:5:792:G:H5''	139.24	0.62
71:O5:89:ARG:HG2	71:O5:89:ARG:HH11	2.22	0.62
2:S0:41:ARG:HD2	2:S0:42:PRO:O	1.98	0.62
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.32	0.62
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.13	0.62
20:C8:146:ALA:H	35:SM:68:ARG:NH2	1.96	0.62
36:1:184:U:H3	36:1:232:G:H1	1.46	0.62
36:1:2533:G:H3'	36:1:2534:G:C8	2.34	0.62
36:1:2777:G:H4'	36:1:2778:G:H5''	1.80	0.62
1:2:1487:G:H2'	1:2:1488:A:C8	2.34	0.62
1:2:487:G:H1	1:2:500:C:H42	1.45	0.62
38:4:79:A:H2'	38:4:80:A:C1'	2.29	0.62
85:5:2859:U:O2'	92:5:3406:OHX:N5	2.32	0.62
85:5:856:G:C6	85:5:857:G:C2	2.87	0.62
85:5:970:A:H8	85:5:970:A:O5'	1.81	0.62
80:6:1213:G:O6	92:6:1927:OHX:N6	2.32	0.62
80:6:415:C:O2'	80:6:416:A:H5''	1.99	0.62
37:7:104:A:H5''	37:7:105:C:OP2	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:65:A:C6	38:8:66:A:C5	2.86	0.62
20:C8:87:ASN:OD1	20:C8:88:ARG:N	2.32	0.62
22:D0:35:GLU:OE2	80:6:1383:G:O2'	451.27	0.62
40:L3:296:THR:HG21	40:L3:356:LEU:HB2	1.81	0.62
41:L4:329:PRO:O	41:L4:331:ALA:N	3.29	0.62
42:L5:236:LEU:O	42:L5:239:ILE:N	3.21	0.62
43:L6:149:ILE:HG23	43:L6:155:LEU:HB3	1.80	0.62
51:M5:35:VAL:HG23	85:5:1543:G:OP1	140.76	0.62
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	1.98	0.62
6:S4:200:ARG:HD3	6:S4:202:ASP:OD1	2.00	0.62
7:S5:37:GLN:HB3	18:C6:53:LEU:HB3	1.80	0.62
7:S5:56:ALA:O	7:S5:58:LEU:N	3.73	0.62
36:1:1465:A:N6	36:1:1466:G:C2	2.67	0.62
36:1:1680:G:H2'	36:1:1681:U:H6	1.64	0.62
1:2:1416:G:H2'	1:2:1417:U:H6	1.63	0.62
85:5:1280:C:H2'	85:5:1281:G:O4'	1.98	0.62
85:5:873:C:H5''	85:5:874:U:O5'	2.00	0.62
1:2:1462:A:OP1	21:C9:57:ARG:NH1	2.33	0.62
41:L4:10:SER:OG	41:L4:14:GLU:HB3	5.09	0.62
37:3:64:A:H5''	47:M0:206:LEU:H	1.63	0.62
49:M3:153:ASP:HB2	64:N8:126:LYS:NZ	3.64	0.62
53:M7:111:LYS:O	53:M7:153:LYS:N	2.69	0.62
53:M7:56:ARG:NH1	53:M7:75:GLU:OE2	2.29	0.62
64:N8:42:ARG:HG3	64:N8:42:ARG:O	1.97	0.62
68:O2:44:ARG:NH1	85:5:1145:G:OP1	206.65	0.62
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.39	0.62
9:S7:28:GLU:HG2	9:S7:35:LYS:HA	3.43	0.62
11:S9:9:SER:HB2	92:S9:201:OHX:N1	2.15	0.62
36:1:331:G:N7	92:1:3576:OHX:N5	2.47	0.62
1:2:1516:C:H4'	1:2:1522:G:N1	2.14	0.62
85:5:1688:U:H2'	85:5:1689:U:C6	2.34	0.62
85:5:2357:A:H2'	85:5:2358:A:H8	1.64	0.62
85:5:2744:U:OP1	92:5:3592:OHX:N2	2.31	0.62
85:5:563:U:H2'	85:5:564:G:C8	2.35	0.62
38:8:102:U:H2'	38:8:103:G:C8	2.34	0.62
15:C3:20:ARG:O	15:C3:65:VAL:HG22	2.65	0.62
24:D2:82:LYS:O	24:D2:84:GLY:N	2.29	0.62
29:D7:7:LEU:O	29:D7:10:PRO:HD3	4.12	0.62
42:L5:110:LEU:HD12	42:L5:115:LEU:HB2	1.81	0.62
45:L8:254:ASP:O	45:L8:256:ALA:N	2.32	0.62
48:M1:10:ARG:NH2	48:M1:151:SER:O	2.32	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:36:VAL:HB	52:M6:108:ILE:HG22	4.92	0.62
71:O5:21:LEU:CD2	71:O5:25:LYS:HE3	2.28	0.62
75:O9:3:ALA:O	75:O9:5:LYS:N	4.78	0.62
79:Q3:81:SER:HA	79:Q3:84:ARG:HB2	1.81	0.62
2:S0:9:LEU:HD21	2:S0:14:ALA:HB2	4.16	0.62
2:S0:169:SER:O	2:S0:173:ILE:HG12	1.98	0.62
3:S1:48:VAL:HG21	3:S1:61:LEU:HD22	5.72	0.62
6:S4:21:ASP:OD2	6:S4:24:SER:OG	2.17	0.62
1:2:208:U:O2'	10:S8:180:ASP:OD2	2.11	0.62
36:1:2419:A:C6	36:1:2420:C:N4	2.68	0.62
85:5:1690:C:C4	85:5:1691:U:C4	2.88	0.62
85:5:2201:G:H2'	85:5:2202:C:H6	1.64	0.62
85:5:2631:U:N3	85:5:2632:G:N7	2.47	0.62
76:Q0:125:LYS:NZ	85:5:2898:G:N7	327.71	0.62
69:O3:56:SER:OG	85:5:3170:A:OP2	201.76	0.62
85:5:3299:A:H61	85:5:3315:G:H1	1.45	0.62
85:5:3112:G:N7	92:5:3422:OHX:N6	2.47	0.62
80:6:643:G:H1	80:6:691:C:H42	1.48	0.62
13:C1:109:VAL:HG12	13:C1:137:PHE:HB2	4.27	0.62
19:C7:50:ILE:O	19:C7:54:THR:OG1	2.17	0.62
48:M1:54:VAL:O	48:M1:56:THR:N	2.32	0.62
49:M3:140:SER:O	49:M3:140:SER:OG	2.14	0.62
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.21	0.62
66:O0:27:TYR:O	66:O0:31:VAL:HG23	1.99	0.62
66:O0:61:MET:SD	66:O0:61:MET:C	3.44	0.62
2:S0:155:PHE:O	23:D1:60:ARG:NH2	2.32	0.62
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.30	0.62
34:SR:49:GLY:O	34:SR:51:ASP:N	2.33	0.62
36:1:1108:U:H2'	36:1:1109:U:C6	2.30	0.62
36:1:1438:U:H2'	36:1:1439:U:H6	1.65	0.62
36:1:2926:A:C2'	36:1:2927:C:H5'	2.29	0.62
1:2:1274:G:H22	1:2:1307:G:H22	1.48	0.62
1:2:809:U:H2'	1:2:810:C:C6	2.35	0.62
1:2:915:U:OP2	3:S1:155:TYR:OH	2.17	0.62
37:3:50:U:H2'	37:3:51:A:H5'	1.82	0.62
85:5:187:A:C2	85:5:211:A:C4	2.88	0.62
85:5:1907:C:N4	85:5:1908:A:C2	2.68	0.62
85:5:2875:U:H5'	85:5:2875:U:H6	1.65	0.62
85:5:2960:C:H2'	85:5:2961:G:C8	2.34	0.62
85:5:299:G:N7	92:5:3692:OHX:N1	2.47	0.62
80:6:1502:G:N2	80:6:1505:A:OP2	2.26	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1526:A:N1	80:6:1608:U:O2'	2.25	0.62
80:6:816:G:N2	80:6:817:A:N3	2.48	0.62
20:C8:119:ILE:HG22	20:C8:121:ALA:H	1.65	0.62
26:D4:61:ARG:NH2	80:6:530:C:O2	408.25	0.62
45:L8:50:VAL:HB	45:L8:52:TRP:CE2	3.64	0.62
54:M8:66:ARG:HG2	54:M8:140:LEU:HD13	1.82	0.62
68:O2:23:ASP:OD1	68:O2:23:ASP:N	2.23	0.62
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	1.87	0.62
10:S8:12:SER:HB3	10:S8:18:ARG:NH1	2.71	0.62
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.81	0.62
36:1:1481:A:O2'	36:1:1858:A:N3	2.21	0.62
1:2:1457:G:H2'	1:2:1458:A:C8	2.35	0.62
1:2:329:G:H2'	1:2:330:G:H8	1.63	0.62
1:2:452:A:OP2	92:2:1916:OHX:N5	2.32	0.62
1:2:591:A:H2'	1:2:592:A:C8	2.34	0.62
85:5:1105:A:C2	85:5:1106:G:C4	2.87	0.62
40:L3:26:ARG:HH22	85:5:3003:G:P	230.07	0.62
41:L4:54:GLU:OE2	41:L4:55:LYS:N	2.33	0.62
45:L8:244:ALA:HA	45:L8:247:ASP:HB2	2.95	0.62
45:L8:83:ASP:OD2	45:L8:86:THR:N	3.06	0.62
47:M0:76:MET:SD	47:M0:148:VAL:HG13	3.83	0.62
48:M1:133:ARG:HD3	48:M1:152:HIS:HD2	4.22	0.62
61:N5:139:ILE:HD11	71:O5:33:VAL:HG21	1.82	0.62
71:O5:78:LYS:HA	71:O5:81:ARG:HB2	3.50	0.62
73:O7:17:THR:HG23	75:O9:51:ILE:HD13	1.81	0.62
11:S9:102:GLU:HA	11:S9:105:LEU:HD13	3.89	0.62
34:SR:200:ASN:H	34:SR:215:GLY:HA2	1.64	0.62
36:1:2225:U:H2'	36:1:2226:U:C6	2.35	0.62
36:1:541:U:H2'	36:1:542:G:C8	2.34	0.62
36:1:86:G:O2'	49:M3:11:LYS:HD3	1.99	0.62
1:2:1165:U:O4	92:2:1997:OHX:N6	2.33	0.62
57:N1:130:ARG:HD3	85:5:1098:A:OP2	253.98	0.62
85:5:1323:G:C2'	85:5:1324:U:H5'	2.30	0.62
85:5:1490:A:H61	85:5:1839:A:H61	1.46	0.62
85:5:2833:A:C2	85:5:2834:G:C8	2.88	0.62
85:5:685:G:N2	85:5:695:C:O2	2.30	0.62
80:6:594:A:H4'	80:6:595:G:H5'	1.80	0.62
20:C8:46:VAL:HG11	20:C8:73:MET:HE3	5.26	0.62
41:L4:119:ARG:HE	41:L4:271:LYS:HD3	2.69	0.62
41:L4:140:HIS:H	41:L4:180:LYS:HE2	1.65	0.62
43:L6:157:GLN:O	43:L6:160:SER:OG	2.55	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:L6:169:ASP:HB3	43:L6:174:LEU:HD11	1.81	0.62
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.33	0.62
44:L7:73:GLY:O	57:N1:143:THR:HG22	1.99	0.62
44:L7:97:PRO:HG3	85:5:1139:G:OP1	230.66	0.62
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	1.81	0.62
52:M6:48:PHE:O	52:M6:52:LEU:HG	2.59	0.62
56:N0:154:HIS:CE1	56:N0:170:THR:HG21	2.34	0.62
69:O3:58:GLU:HB2	69:O3:63:LYS:NZ	2.14	0.62
72:O6:33:ALA:O	72:O6:34:SER:HB3	2.09	0.62
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.94	0.62
5:S3:115:ILE:HD12	5:S3:116:ARG:H	4.69	0.62
9:S7:154:LEU:HD11	9:S7:183:PHE:CD1	2.52	0.62
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.80	0.62
36:1:1220:U:H4'	36:1:1221:A:H5''	1.80	0.62
36:1:3067:C:OP2	55:M9:62:ARG:NH1	2.33	0.62
36:1:614:C:H2'	36:1:615:U:C6	2.35	0.62
36:1:643:U:O4	36:1:644:G:C6	2.53	0.62
1:2:1518:U:O2'	1:2:1519:G:N3	2.31	0.62
1:2:1717:U:H2'	1:2:1718:U:C6	2.35	0.62
85:5:1196:C:O2	92:7:209:OHX:N4	2.33	0.62
85:5:2440:G:H2'	85:5:2441:A:C8	2.34	0.62
80:6:1060:U:O2'	92:6:2038:OHX:N5	2.33	0.62
92:6:1996:OHX:N6	92:6:2033:OHX:N6	2.47	0.62
80:6:218:A:H2'	80:6:219:A:H5''	1.82	0.62
13:C1:101:GLU:OE2	25:D3:16:ARG:NH2	2.52	0.62
14:C2:42:ALA:HB1	14:C2:47:GLU:HB3	1.81	0.62
42:L5:4:GLN:OE1	42:L5:4:GLN:N	2.27	0.62
50:M4:47:ASP:HB2	50:M4:55:ARG:HG3	1.82	0.62
59:N3:17:LEU:HD11	59:N3:98:ASN:HB3	2.06	0.62
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.32	0.62
66:O0:30:THR:HB	66:O0:91:SER:HB2	1.82	0.62
6:S4:29:PRO:HA	80:6:448:C:H5''	366.87	0.62
36:1:1563:C:H2'	36:1:1564:U:O4'	1.99	0.61
36:1:2947:G:N3	40:L3:250:ALA:HB1	2.14	0.61
36:1:435:C:H2'	36:1:436:A:C8	2.35	0.61
1:2:1470:A:H2'	1:2:1471:G:H8	1.65	0.61
85:5:1313:G:O6	92:5:3663:OHX:N6	2.33	0.61
85:5:2662:G:H2'	85:5:2663:G:H8	1.65	0.61
85:5:337:G:C6	85:5:339:C:N4	2.68	0.61
46:L9:162:GLN:HG3	46:L9:163:GLN:N	2.13	0.61
74:O8:58:ASP:HB3	74:O8:61:LYS:HB2	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.30	0.61
4:S2:53:ILE:HG13	4:S2:72:LEU:HG	3.48	0.61
7:S5:61:TYR:HE2	7:S5:164:PRO:HG2	3.90	0.61
36:1:1288:U:H2'	36:1:1289:G:H8	1.66	0.61
36:1:1592:G:O6	93:1:3821:MG:MG	1.44	0.61
36:1:420:G:O2'	36:1:2384:A:N3	2.31	0.61
1:2:1158:U:H2'	1:2:1159:G:C8	2.35	0.61
1:2:1573:G:H2'	1:2:1574:C:H6	1.64	0.61
1:2:252:U:H4'	6:S4:132:GLY:O	2.00	0.61
1:2:868:G:H21	16:C4:123:SER:CB	2.12	0.61
85:5:1015:U:O2'	85:5:1016:C:H3'	2.00	0.61
85:5:589:A:H1'	85:5:1337:A:H5''	1.82	0.61
55:M9:9:ARG:NH2	85:5:1603:A:OP1	109.85	0.61
39:L2:156:LYS:NZ	85:5:2158:A:OP2	203.77	0.61
51:M5:93:LYS:HG3	85:5:289:A:C2	145.88	0.61
92:5:3625:OHX:N4	92:5:3643:OHX:N1	2.48	0.61
85:5:979:U:C2	85:5:980:A:N3	2.68	0.61
18:C6:66:ARG:NH1	80:6:1351:G:OP1	435.58	0.61
13:C1:125:VAL:HG23	13:C1:139:VAL:HA	2.27	0.61
28:D6:36:ILE:HG21	28:D6:78:ALA:HB2	1.81	0.61
39:L2:102:LEU:HD13	39:L2:166:ILE:HD11	2.74	0.61
40:L3:147:GLU:HA	40:L3:147:GLU:OE2	1.98	0.61
40:L3:162:VAL:O	40:L3:178:LEU:HD12	2.41	0.61
42:L5:197:SER:OG	42:L5:202:GLY:HA3	2.27	0.61
45:L8:140:VAL:O	45:L8:144:GLU:HG3	2.32	0.61
45:L8:156:ASP:O	45:L8:183:LYS:HE3	7.89	0.61
46:L9:87:LYS:HD3	46:L9:89:LYS:HE2	2.99	0.61
54:M8:66:ARG:HH21	85:5:744:A:P	167.02	0.61
56:N0:155:ARG:NH2	56:N0:172:TYR:H	4.56	0.61
60:N4:56:ARG:HB3	60:N4:61:LYS:HB2	3.44	0.61
71:O5:10:ARG:NH2	38:8:65:A:O3'	33.43	0.61
73:O7:18:LEU:HA	73:O7:25:ARG:H	1.65	0.61
10:S8:138:ASN:HD22	80:6:197:A:H61	277.73	0.61
11:S9:11:THR:O	11:S9:47:PHE:HD2	3.30	0.61
36:1:1362:G:H1'	44:L7:159:GLN:NE2	2.15	0.61
36:1:3050:U:OP2	92:1:3711:OHX:N6	2.33	0.61
1:2:10:G:N1	1:2:1128:U:O2	2.34	0.61
1:2:633:U:H3	1:2:949:A:H61	1.48	0.61
85:5:1794:G:O2'	85:5:1795:U:H5'	2.01	0.61
85:5:955:U:H2'	85:5:956:U:C6	2.35	0.61
62:N6:75:ARG:NH1	38:8:72:A:H4'	42.67	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:38:LYS:NZ	23:D1:49:GLU:HB3	4.61	0.61
23:D1:56:SER:OG	23:D1:59:VAL:HG23	2.33	0.61
26:D4:35:VAL:O	26:D4:36:SER:HB3	2.00	0.61
40:L3:169:THR:HG23	40:L3:171:LEU:H	2.97	0.61
43:L6:164:SER:OG	43:L6:166:LYS:NZ	4.30	0.61
45:L8:160:ILE:O	45:L8:164:VAL:HG13	1.99	0.61
51:M5:28:TRP:CD1	85:5:2515:A:H5''	159.80	0.61
58:N2:41:ILE:HD13	58:N2:71:PHE:CE2	2.90	0.61
66:O0:27:TYR:CD1	66:O0:52:ARG:HD3	2.35	0.61
75:O9:36:ARG:NH2	85:5:401:U:O2	94.55	0.61
2:S0:172:LEU:HD13	2:S0:176:LEU:HD11	1.82	0.61
6:S4:136:VAL:HG11	6:S4:148:ARG:NH2	2.16	0.61
8:S6:48:TYR:CE2	8:S6:121:LEU:HD21	2.36	0.61
36:1:1337:A:C6	36:1:1338:C:C4	2.88	0.61
36:1:1595:U:O2'	36:1:1596:C:H5''	2.00	0.61
36:1:2669:G:C2	36:1:2686:A:C2	2.88	0.61
36:1:2689:A:C8	36:1:2702:A:N6	2.68	0.61
36:1:2871:G:OP2	92:1:3702:OHX:N1	2.33	0.61
36:1:501:A:H2'	36:1:502:U:C6	2.35	0.61
36:1:578:A:O2'	41:L4:335:ALA:HB2	2.00	0.61
1:2:1260:G:H2'	1:2:1261:G:O4'	2.00	0.61
85:5:1307:G:C2	85:5:1308:A:C2	2.88	0.61
85:5:1651:U:H2'	85:5:1652:G:H8	1.64	0.61
70:O4:67:LYS:HB2	85:5:1821:U:O2	167.55	0.61
80:6:1111:G:C2	80:6:1135:U:O2	2.54	0.61
80:6:1237:G:H2'	80:6:1238:A:C8	2.35	0.61
80:6:1357:A:H2'	80:6:1358:G:C8	2.35	0.61
28:D6:38:ARG:NH2	80:6:1798:U:OP2	333.13	0.61
15:C3:76:LYS:HE2	80:6:813:U:H5'	317.08	0.61
14:C2:62:LEU:HB3	14:C2:120:VAL:HG13	2.56	0.61
16:C4:31:THR:HB	16:C4:38:THR:HA	1.83	0.61
20:C8:23:ASP:HB3	20:C8:26:ILE:HD11	5.39	0.61
21:C9:52:GLY:HA2	21:C9:55:TYR:HD2	1.92	0.61
1:2:1017:C:HO2'	24:D2:2:THR:N	1.98	0.61
41:L4:16:THR:HG22	41:L4:18:ASN:N	2.16	0.61
44:L7:93:ASN:O	44:L7:94:LYS:HB2	2.50	0.61
50:M4:49:PRO:O	50:M4:50:LYS:C	2.87	0.61
74:O8:39:ARG:NH1	74:O8:63:LYS:HE2	9.62	0.61
2:S0:157:ASP:OD2	23:D1:32:VAL:HG11	3.46	0.61
3:S1:134:VAL:HB	3:S1:219:LYS:HB2	1.81	0.61
3:S1:176:VAL:O	3:S1:178:GLY:N	2.32	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:148:LYS:O	9:S7:149:ILE:HG13	2.51	0.61
36:1:3028:G:H2'	36:1:3029:A:C8	2.35	0.61
1:2:1331:A:OP1	92:2:1999:OHX:N1	2.34	0.61
1:2:1507:A:H2	1:2:1573:G:H1'	1.65	0.61
92:2:1914:OHX:N2	10:S8:17:LYS:O	2.33	0.61
1:2:45:U:C2	1:2:436:A:N6	2.69	0.61
1:2:531:C:OP2	92:2:1949:OHX:N4	2.34	0.61
85:5:2581:U:H2'	85:5:2582:C:H6	1.64	0.61
85:5:311:C:H42	85:5:2778:G:H1	1.48	0.61
26:D4:104:SER:HB3	26:D4:107:GLN:HG3	1.83	0.61
40:L3:114:VAL:O	40:L3:117:ARG:N	2.91	0.61
42:L5:78:ALA:HB3	42:L5:105:ILE:HG12	1.82	0.61
42:L5:107:ARG:NH1	42:L5:120:LYS:O	3.04	0.61
36:1:86:G:C6	49:M3:13:HIS:CD2	2.89	0.61
56:N0:33:ASN:OD1	56:N0:35:VAL:N	2.30	0.61
56:N0:52:LYS:O	56:N0:54:ALA:N	2.32	0.61
68:O2:91:THR:HG22	68:O2:92:TYR:HD2	2.78	0.61
73:O7:24:ARG:NH1	85:5:361:A:OP1	119.84	0.61
74:O8:73:LEU:O	74:O8:75:VAL:N	2.33	0.61
4:S2:152:HIS:H	4:S2:152:HIS:CD2	3.15	0.61
6:S4:71:LYS:HG2	6:S4:76:VAL:HG22	5.03	0.61
36:1:2616:C:H2'	36:1:2617:U:H5'	1.82	0.61
85:5:1338:C:H2'	85:5:1339:C:H6	1.64	0.61
85:5:1904:C:C2	85:5:2951:G:H5'	2.36	0.61
85:5:869:G:H2'	85:5:870:G:O4'	2.00	0.61
80:6:1068:C:H2'	80:6:1069:A:C8	2.35	0.61
80:6:1691:A:H2'	80:6:1692:G:C8	2.35	0.61
80:6:337:G:N2	80:6:340:U:OP2	2.33	0.61
11:S9:2:PRO:HD2	80:6:461:G:OP1	360.28	0.61
80:6:760:A:OP2	92:6:1938:OHX:N3	2.34	0.61
20:C8:139:LYS:O	80:6:1461:C:N4	343.50	0.61
20:C8:28:ILE:HD11	20:C8:56:LYS:HB2	6.93	0.61
24:D2:76:SER:OG	80:6:1102:G:OP1	351.46	0.61
41:L4:269:SER:O	41:L4:269:SER:OG	2.12	0.61
41:L4:300:ARG:HG3	41:L4:301:PRO:HD2	4.19	0.61
41:L4:312:VAL:O	92:5:3555:OHX:N2	222.80	0.61
51:M5:70:ASN:HB3	51:M5:92:LEU:O	2.01	0.61
55:M9:96:ILE:HG22	55:M9:100:ARG:HE	1.65	0.61
55:M9:7:GLN:H	55:M9:7:GLN:CD	3.01	0.61
64:N8:74:ASN:HB2	64:N8:76:ASP:HB3	3.28	0.61
3:S1:219:LYS:NZ	79:Q3:92:ALA:O	9.06	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:53:THR:HG22	5:S3:91:VAL:HG11	4.89	0.61
36:1:1631:C:C2	36:1:1812:G:N2	2.69	0.61
36:1:2943:G:OP2	40:L3:2:SER:HB2	2.00	0.61
36:1:3364:C:H2'	36:1:3365:U:C6	2.36	0.61
80:6:1382:A:O2'	80:6:1383:G:H5''	2.01	0.61
80:6:310:C:O2'	80:6:311:U:H5'	2.01	0.61
13:C1:53:TYR:CZ	13:C1:113:PRO:HG2	2.36	0.61
15:C3:7:ALA:O	15:C3:9:LYS:NZ	4.33	0.61
17:C5:18:ARG:NH1	20:C8:90:ASN:OD1	4.72	0.61
22:D0:42:VAL:HG22	22:D0:52:LYS:NZ	2.15	0.61
25:D3:79:ASN:HB3	25:D3:81:LYS:H	1.65	0.61
26:D4:20:ARG:HB3	26:D4:76:TYR:CD2	3.25	0.61
7:S5:109:LYS:HE2	27:D5:97:LYS:HE2	1.83	0.61
33:E1:144:CYS:O	33:E1:146:SER:N	2.34	0.61
39:L2:220:GLY:O	39:L2:221:LYS:HG3	2.01	0.61
41:L4:71:VAL:HG12	41:L4:72:ALA:N	3.61	0.61
42:L5:140:ARG:HD3	85:5:1080:A:OP1	226.61	0.61
42:L5:217:GLU:O	42:L5:220:SER:OG	4.79	0.61
42:L5:259:LYS:O	42:L5:265:TYR:OH	2.67	0.61
42:L5:64:ILE:HG13	42:L5:109:THR:HG21	4.54	0.61
42:L5:68:THR:HG22	42:L5:70:THR:H	1.64	0.61
46:L9:109:ALA:HB1	46:L9:111:PHE:CE2	2.35	0.61
46:L9:171:ASP:O	46:L9:173:ARG:N	3.33	0.61
47:M0:191:LYS:HE2	47:M0:212:GLU:CD	2.20	0.61
48:M1:17:LEU:HD21	48:M1:19:LEU:HD21	2.60	0.61
51:M5:169:LYS:HE2	51:M5:174:ILE:HG21	4.35	0.61
51:M5:85:THR:O	51:M5:87:GLN:N	3.44	0.61
54:M8:139:ILE:O	54:M8:140:LEU:HD23	2.34	0.61
55:M9:128:LYS:NZ	85:5:1721:U:O4	231.36	0.61
55:M9:4:LEU:HB3	55:M9:7:GLN:HG2	4.45	0.61
57:N1:157:GLU:HG2	57:N1:159:PHE:CZ	6.16	0.61
60:N4:23:ARG:HG2	60:N4:24:GLY:H	2.03	0.61
68:O2:16:LYS:O	68:O2:17:PHE:HB2	4.54	0.61
72:O6:86:LYS:HD2	72:O6:90:MET:HE1	3.42	0.61
38:4:45:C:O2'	75:O9:11:GLN:OE1	2.19	0.61
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.82	0.61
8:S6:192:ALA:HB1	8:S6:196:ARG:HH12	1.64	0.61
36:1:2114:C:OP1	36:1:2116:G:C8	2.54	0.61
36:1:197:G:N2	36:1:372:A:C8	2.69	0.61
1:2:1352:U:O4	92:2:1972:OHX:N5	2.34	0.61
1:2:195:G:H2'	1:2:196:G:H5''	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1468:C:OP1	92:2:1976:OHX:N6	2.33	0.61
1:2:609:U:H4'	1:2:610:G:O5'	2.01	0.61
85:5:1752:A:OP2	92:5:3579:OHX:N3	2.34	0.61
85:5:22:G:H1'	38:8:104:A:N3	2.15	0.61
85:5:3289:G:N7	92:5:3600:OHX:N2	2.48	0.61
5:S3:162:GLN:HG3	80:6:1333:C:O4'	425.37	0.61
15:C3:103:GLU:HA	15:C3:106:ARG:NH2	2.15	0.61
15:C3:55:ARG:HA	15:C3:60:VAL:O	2.50	0.61
21:C9:28:LEU:HA	21:C9:111:ILE:HD11	4.33	0.61
2:S0:55:GLU:OE2	23:D1:80:LYS:N	2.49	0.61
14:C2:73:LYS:NZ	33:E1:108:VAL:HB	2.16	0.61
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.82	0.61
41:L4:20:LEU:HD11	41:L4:252:GLU:HG3	1.97	0.61
42:L5:99:TYR:CD2	42:L5:199:ILE:HG23	2.75	0.61
44:L7:217:PRO:HA	92:5:3506:OHX:N5	262.52	0.61
56:N0:93:GLU:OE1	56:N0:135:VAL:HG13	2.63	0.61
36:1:1571:A:H2'	36:1:1572:U:O4'	2.00	0.61
36:1:2295:A:OP1	59:N3:63:LYS:NZ	2.34	0.61
36:1:90:C:O2'	36:1:282:G:OP1	2.19	0.61
36:1:3033:A:H2'	36:1:3034:C:C6	2.36	0.61
92:1:3511:OHX:N1	92:1:3690:OHX:N4	2.49	0.61
85:5:1631:C:H5''	85:5:1632:A:H5''	1.83	0.61
85:5:1650:G:H1	85:5:1805:C:H42	1.49	0.61
85:5:1308:A:OP2	85:5:2368:A:O2'	2.19	0.61
85:5:3171:U:H3	85:5:3279:A:H61	1.49	0.61
85:5:3358:U:H2'	85:5:3359:A:H8	1.66	0.61
85:5:342:A:N1	85:5:349:A:O2'	2.28	0.61
85:5:750:G:H2'	85:5:751:A:H8	1.66	0.61
85:5:770:G:O2'	85:5:771:A:OP2	2.19	0.61
85:5:789:A:H2'	85:5:790:U:H6	1.64	0.61
80:6:357:G:OP2	92:6:1929:OHX:N6	2.34	0.61
15:C3:73:ARG:HD3	80:6:859:A:C6	328.04	0.61
28:D6:37:LYS:NZ	80:6:933:A:OP2	321.07	0.61
40:L3:76:VAL:HG21	40:L3:323:MET:SD	2.40	0.61
41:L4:229:ASN:OD1	41:L4:230:VAL:N	2.33	0.61
41:L4:337:GLU:HB2	41:L4:339:LEU:HD23	1.83	0.61
42:L5:183:TRP:CH2	42:L5:188:GLU:HA	2.36	0.61
44:L7:123:THR:HA	44:L7:126:LEU:HB2	1.82	0.61
46:L9:27:VAL:HG11	46:L9:79:ILE:HA	1.82	0.61
47:M0:7:ARG:NH1	85:5:2828:G:OP1	269.50	0.61
54:M8:3:ILE:HG13	54:M8:5:HIS:HE1	4.28	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:112:ALA:HB2	85:5:1321:G:H21	296.37	0.61
61:N5:51:VAL:HG12	71:O5:66:VAL:HG21	1.83	0.61
69:O3:75:HIS:HB3	69:O3:80:VAL:HB	1.83	0.61
71:O5:85:THR:HG22	71:O5:87:ALA:N	2.37	0.61
74:O8:12:LEU:O	74:O8:15:THR:OG1	2.65	0.61
2:S0:195:TRP:CD2	2:S0:197:ILE:HB	3.50	0.61
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.82	0.61
34:SR:206:PRO:HG2	34:SR:247:PRO:HA	2.15	0.61
36:1:1764:U:C5	36:1:1765:U:H1'	2.36	0.61
36:1:2202:C:H2'	36:1:2203:U:O4'	2.00	0.61
36:1:2725:U:O4	92:1:3446:OHX:N2	2.34	0.61
92:2:1921:OHX:N5	92:2:2040:OHX:N6	2.48	0.61
1:2:229:U:H3	1:2:236:A:H61	1.48	0.61
85:5:1440:G:N7	92:5:3467:OHX:N6	2.49	0.61
85:5:1596:C:H2'	85:5:1597:C:C6	2.36	0.61
85:5:2273:G:O6	92:5:3702:OHX:N5	2.33	0.61
80:6:1196:A:H4'	80:6:1197:C:O5'	2.00	0.61
80:6:1688:U:H2'	80:6:1689:A:C8	2.36	0.61
80:6:84:A:H2'	80:6:85:A:O4'	2.01	0.61
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.82	0.61
19:C7:71:PHE:CE1	19:C7:74:GLN:HB2	4.87	0.61
21:C9:40:SER:O	21:C9:43:ASN:HB2	2.00	0.61
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.34	0.61
7:S5:162:VAL:HB	30:D8:45:LYS:HB3	1.83	0.61
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	1.83	0.61
49:M3:74:GLY:HA3	49:M3:98:ASP:HB2	1.83	0.61
59:N3:6:ALA:HB2	59:N3:126:TRP:CH2	2.61	0.61
62:N6:120:GLN:HE22	62:N6:126:LEU:HA	9.05	0.61
66:O0:43:ILE:HG22	66:O0:70:PHE:HB2	1.83	0.61
71:O5:44:ILE:O	71:O5:48:ARG:HG3	3.40	0.61
10:S8:25:ARG:O	10:S8:28:GLU:HG2	2.00	0.61
11:S9:8:TYR:O	92:S9:201:OHX:N5	2.34	0.61
36:1:180:C:H2'	36:1:181:U:C6	2.35	0.60
36:1:2445:A:N6	36:1:2502:A:C2	2.69	0.60
36:1:592:A:H2'	36:1:593:C:C6	2.36	0.60
1:2:877:U:H2'	1:2:878:G:C8	2.36	0.60
85:5:1342:C:H42	85:5:1362:G:H1	1.47	0.60
85:5:2107:A:C2	85:5:2108:C:C2	2.89	0.60
85:5:2165:G:N2	85:5:2170:U:O4	2.33	0.60
85:5:656:A:H2'	85:5:657:A:C8	2.36	0.60
85:5:920:A:OP1	85:5:922:U:H5	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:321:C:H42	80:6:1666:U:H5''	1.66	0.60
80:6:763:G:C6	80:6:764:U:C4	2.89	0.60
20:C8:4:VAL:HG21	27:D5:82:HIS:CG	5.18	0.60
24:D2:73:GLY:HA3	24:D2:128:PHE:CE1	2.74	0.60
24:D2:73:GLY:N	24:D2:128:PHE:O	3.02	0.60
27:D5:93:SER:HB2	27:D5:100:ILE:HB	1.80	0.60
40:L3:300:ARG:HB3	40:L3:300:ARG:CZ	5.10	0.60
42:L5:270:LYS:HD2	42:L5:272:TYR:HB2	9.52	0.60
42:L5:281:GLU:O	42:L5:284:ALA:HB3	2.77	0.60
42:L5:64:ILE:HG22	42:L5:75:LEU:HB3	1.81	0.60
43:L6:37:GLY:N	43:L6:54:TYR:O	2.24	0.60
36:1:1334:U:H5''	44:L7:206:LYS:HB3	1.83	0.60
47:M0:210:ILE:HG23	47:M0:217:PHE:CD2	2.50	0.60
44:L7:110:ARG:NH1	54:M8:3:ILE:HD11	2.15	0.60
61:N5:91:ASN:O	61:N5:95:ILE:HG13	2.38	0.60
71:O5:31:LEU:HG	71:O5:41:LEU:HD21	5.77	0.60
5:S3:179:GLN:OE1	5:S3:180:GLY:N	4.98	0.60
10:S8:122:GLY:O	92:S8:301:OHX:N6	2.34	0.60
10:S8:26:LYS:O	10:S8:29:LEU:HD22	2.17	0.60
36:1:1593:A:N3	36:1:1615:C:O2'	2.32	0.60
36:1:2094:C:H2'	36:1:2095:G:C8	2.36	0.60
36:1:40:A:C2	64:N8:40:HIS:CE1	2.89	0.60
36:1:562:C:H2'	36:1:563:U:C6	2.36	0.60
85:5:2567:C:N4	85:5:2568:C:H41	1.99	0.60
85:5:392:G:C5	85:5:393:U:C5	2.88	0.60
80:6:1159:C:H5''	80:6:1160:A:H5'	1.83	0.60
80:6:16:G:H2'	80:6:17:C:C6	2.35	0.60
17:C5:60:LEU:HD21	17:C5:92:SER:HB3	1.83	0.60
1:2:1542:A:N6	20:C8:134:ARG:HD2	2.17	0.60
22:D0:21:LYS:HA	22:D0:94:GLU:HG2	2.66	0.60
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.82	0.60
44:L7:56:GLU:O	44:L7:58:ALA:N	2.34	0.60
47:M0:127:ALA:O	47:M0:129:VAL:HG23	2.79	0.60
66:O0:70:PHE:CG	66:O0:77:LEU:HD13	2.35	0.60
71:O5:88:LEU:C	71:O5:90:ARG:H	2.04	0.60
75:O9:35:ILE:HD11	38:8:53:A:C2	82.42	0.60
6:S4:118:GLU:OE1	6:S4:237:SER:OG	3.37	0.60
6:S4:253:ASP:O	6:S4:257:ALA:N	2.35	0.60
36:1:2128:C:OP1	92:1:3493:OHX:N4	2.35	0.60
36:1:3082:C:H2'	36:1:3083:G:C8	2.36	0.60
1:2:108:A:H2'	1:2:109:G:C8	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:O9:4:GLN:HE21	85:5:1833:G:N2	123.77	0.60
85:5:2518:C:H2'	85:5:2519:A:H8	1.65	0.60
85:5:3384:U:C2	85:5:3385:U:C5	2.89	0.60
85:5:438:A:N1	85:5:621:A:N6	2.48	0.60
49:M3:14:PHE:CE1	85:5:665:A:H1'	133.02	0.60
32:E0:26:LYS:NZ	80:6:588:U:OP2	417.23	0.60
39:L2:126:LEU:HD13	39:L2:150:LEU:HD21	2.30	0.60
39:L2:111:THR:HB	39:L2:136:ILE:HD13	1.82	0.60
40:L3:109:HIS:HB2	40:L3:200:GLU:CD	5.35	0.60
42:L5:287:ALA:HA	42:L5:290:ILE:HD11	1.82	0.60
92:1:3494:OHX:N2	44:L7:217:PRO:O	2.34	0.60
45:L8:128:LYS:HG3	85:5:120:G:C5	98.69	0.60
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.36	0.60
54:M8:64:VAL:HG13	54:M8:93:ILE:HD11	1.82	0.60
6:S4:52:LEU:HB3	6:S4:54:TYR:HD2	2.70	0.60
34:SR:18:GLY:O	34:SR:308:ASN:HA	2.65	0.60
36:1:1723:A:OP2	55:M9:103:ARG:NH2	2.31	0.60
1:2:1281:U:O3'	4:S2:212:LYS:NZ	2.35	0.60
1:2:11:A:O2'	1:2:12:U:H5'	2.00	0.60
1:2:994:G:OP2	92:2:1967:OHX:N5	2.35	0.60
85:5:1613:A:H2'	85:5:1614:C:C6	2.37	0.60
85:5:3258:U:O2'	85:5:3259:U:H3'	2.01	0.60
85:5:760:G:O4'	85:5:771:A:N6	2.34	0.60
80:6:1041:G:H2'	80:6:1042:G:C8	2.36	0.60
80:6:1046:G:C2	80:6:1073:G:C2	2.89	0.60
80:6:1427:A:O2'	80:6:1428:G:OP1	2.18	0.60
80:6:1557:U:O2'	80:6:1558:U:H2'	2.01	0.60
28:D6:79:ILE:HD11	80:6:1795:U:H5'	334.60	0.60
12:C0:4:PRO:HG2	12:C0:7:ASP:HB2	3.58	0.60
20:C8:134:ARG:HD2	80:6:1545:A:OP2	358.08	0.60
42:L5:119:TYR:HE1	42:L5:134:ALA:HA	2.53	0.60
42:L5:155:THR:HA	42:L5:179:ARG:HD3	3.45	0.60
47:M0:63:GLU:HB2	85:5:2853:A:H5'	295.90	0.60
50:M4:132:LYS:HD3	85:5:3230:G:H4'	285.66	0.60
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.82	0.60
51:M5:165:THR:OG1	51:M5:166:ALA:N	2.34	0.60
51:M5:47:LYS:HE3	51:M5:51:LEU:HD11	2.40	0.60
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.83	0.60
59:N3:79:VAL:HG22	59:N3:99:ALA:O	2.01	0.60
59:N3:13:ILE:HD12	59:N3:85:TRP:CG	3.31	0.60
73:O7:25:ARG:HG3	75:O9:51:ILE:HD12	4.70	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:144:GLU:HA	7:S5:162:VAL:HG12	1.84	0.60
8:S6:24:ILE:O	8:S6:26:VAL:N	2.34	0.60
34:SR:80:ALA:O	34:SR:92:TRP:N	2.82	0.60
36:1:799:G:O6	92:1:3516:OHX:N5	2.35	0.60
36:1:1752:A:OP2	92:1:3580:OHX:N3	2.34	0.60
36:1:600:G:N2	36:1:604:G:C6	2.69	0.60
1:2:1507:A:C2	1:2:1573:G:H1'	2.36	0.60
1:2:68:A:O2'	1:2:69:G:OP2	2.16	0.60
37:3:71:G:C6	37:3:72:A:N6	2.70	0.60
85:5:118:U:C5	85:5:119:U:C4	2.88	0.60
85:5:173:G:HO2'	85:5:174:C:H6	1.49	0.60
85:5:1877:U:H5''	85:5:1878:G:H5'	1.84	0.60
85:5:3159:C:H2'	85:5:3160:U:H6	1.64	0.60
80:6:1054:U:H2'	80:6:1055:U:C6	2.35	0.60
8:S6:92:ARG:O	80:6:405:C:O2'	302.67	0.60
16:C4:38:THR:HG21	80:6:895:G:H21	263.15	0.60
15:C3:151:ASN:O	92:C3:201:OHX:N4	2.34	0.60
23:D1:4:ASP:HB3	23:D1:5:LYS:HD3	1.82	0.60
39:L2:27:ALA:O	39:L2:28:LYS:HG3	2.01	0.60
42:L5:22:ARG:HH11	42:L5:27:LYS:HD3	1.67	0.60
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.35	0.60
42:L5:98:ALA:O	42:L5:162:ALA:HA	2.64	0.60
45:L8:75:ILE:HD11	51:M5:18:VAL:HG23	2.69	0.60
47:M0:200:LEU:HG	47:M0:201:SER:N	3.24	0.60
56:N0:87:THR:C	56:N0:88:HIS:HD1	2.04	0.60
58:N2:37:LEU:HD12	58:N2:37:LEU:H	1.65	0.60
67:O1:50:ARG:NE	67:O1:90:PHE:CE2	3.86	0.60
76:Q0:77:ILE:O	76:Q0:78:ILE:HG12	3.67	0.60
3:S1:147:ALA:O	3:S1:148:ASN:ND2	2.33	0.60
5:S3:222:VAL:HG11	34:SR:229:LYS:HA	3.43	0.60
6:S4:79:ASP:OD1	6:S4:82:TYR:N	2.32	0.60
36:1:2818:U:C6	36:1:2818:U:H5'	2.33	0.60
36:1:2871:G:O5'	92:1:3702:OHX:N5	2.33	0.60
36:1:346:C:C4	36:1:348:A:N7	2.70	0.60
36:1:544:C:H1'	36:1:548:G:H22	1.67	0.60
1:2:1472:U:P	5:S3:9:ARG:HH22	2.24	0.60
1:2:1265:U:OP1	92:2:1993:OHX:N5	2.34	0.60
1:2:274:G:H3'	1:2:275:C:C6	2.36	0.60
1:2:986:A:H1'	1:2:988:A:N7	2.16	0.60
50:M4:59:ASN:ND2	85:5:1185:C:OP1	304.38	0.60
51:M5:44:ARG:NH2	85:5:269:G:OP1	124.19	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3287:U:N3	85:5:3288:G:N7	2.49	0.60
80:6:1352:G:H2'	80:6:1353:U:O4'	2.01	0.60
80:6:427:C:C4	80:6:428:A:N7	2.69	0.60
80:6:43:A:C2	80:6:378:A:C5	2.89	0.60
14:C2:131:ASP:HB2	14:C2:132:GLU:OE1	2.01	0.60
17:C5:115:TYR:N	17:C5:118:GLU:OE1	2.34	0.60
17:C5:122:THR:OG1	80:6:1454:G:O3'	368.57	0.60
24:D2:31:SER:H	24:D2:34:ILE:HB	1.66	0.60
45:L8:147:LYS:O	45:L8:201:THR:HG22	2.02	0.60
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.36	0.60
49:M3:83:ALA:HA	49:M3:117:LYS:HE3	1.83	0.60
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	1.82	0.60
36:1:3181:C:O2'	52:M6:164:SER:OG	1.89	0.60
75:O9:37:TYR:CE1	75:O9:39:ALA:HA	3.07	0.60
97:5:3403:SPS:O3	91:P:75:C:OP1	223.38	0.60
2:S0:171:GLY:O	2:S0:175:TYR:N	2.79	0.60
2:S0:179:ARG:HD3	2:S0:183:ARG:NH1	2.50	0.60
36:1:1256:G:O6	36:1:1261:G:N2	2.34	0.60
36:1:1613:A:H2'	36:1:1614:C:H6	1.66	0.60
36:1:2767:U:OP1	92:1:3670:OHX:N2	2.35	0.60
36:1:3273:A:O2'	36:1:3274:A:H5'	2.01	0.60
1:2:1749:A:H5''	92:2:1969:OHX:N6	2.16	0.60
1:2:67:A:OP1	8:S6:171:LYS:NZ	2.26	0.60
85:5:273:A:N7	92:5:3565:OHX:N3	2.50	0.60
85:5:3078:U:H1'	92:5:3698:OHX:N1	2.17	0.60
85:5:3274:A:O2'	85:5:3275:U:H6	1.84	0.60
85:5:652:G:OP2	92:5:3671:OHX:N3	2.35	0.60
80:6:1314:U:O2'	80:6:1315:U:OP2	2.19	0.60
80:6:320:U:H5	80:6:322:G:H5''	1.65	0.60
42:L5:8:LYS:HD2	37:7:15:C:O2'	311.55	0.60
15:C3:65:VAL:HG12	15:C3:66:ILE:HG23	5.19	0.60
17:C5:126:VAL:HG22	17:C5:127:ARG:H	2.92	0.60
25:D3:35:GLY:O	25:D3:38:PHE:N	2.32	0.60
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.74	0.60
26:D4:52:LYS:O	26:D4:54:ALA:N	2.29	0.60
39:L2:126:LEU:HD13	39:L2:150:LEU:CD2	2.64	0.60
40:L3:80:ASP:OD1	40:L3:82:PRO:HD3	3.06	0.60
42:L5:178:ASN:OD1	42:L5:178:ASN:N	2.66	0.60
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.60	0.60
49:M3:28:GLN:HB3	51:M5:201:ARG:HH11	1.66	0.60
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.37	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:57:TYR:HA	57:N1:60:LYS:HD2	3.65	0.60
61:N5:106:ASP:C	61:N5:127:THR:HG23	2.21	0.60
70:O4:83:ASN:OD1	70:O4:83:ASN:N	2.77	0.60
3:S1:128:LYS:HD2	3:S1:132:ASP:HB3	4.60	0.60
34:SR:108:SER:OG	34:SR:109:ASP:N	2.57	0.60
19:C7:27:ASP:OD1	34:SR:38:ARG:NH2	2.32	0.60
36:1:3203:U:O4	92:1:3713:OHX:N4	2.33	0.60
1:2:1017:C:OP1	15:C3:9:LYS:NZ	2.34	0.60
1:2:401:A:O2'	1:2:402:C:H4'	2.02	0.60
85:5:65:A:C4	85:5:110:G:N7	2.70	0.60
52:M6:114:LYS:HG2	85:5:3180:A:C5	269.77	0.60
85:5:3242:G:N2	85:5:3245:A:OP2	2.35	0.60
85:5:354:U:OP1	92:5:3706:OHX:N2	2.34	0.60
85:5:80:G:H2'	85:5:81:C:H6	1.65	0.60
80:6:1214:U:O4	92:6:1927:OHX:N6	2.24	0.60
80:6:1237:G:H2'	80:6:1238:A:H8	1.66	0.60
80:6:385:A:H2'	80:6:386:G:C8	2.37	0.60
24:D2:102:VAL:O	24:D2:113:HIS:N	2.34	0.60
39:L2:30:ARG:O	39:L2:163:ARG:NH2	2.29	0.60
39:L2:149:ARG:NH2	39:L2:252:THR:O	5.05	0.60
40:L3:35:ASP:HA	40:L3:184:ASN:ND2	2.38	0.60
40:L3:227:GLU:HG3	40:L3:270:ARG:NE	4.38	0.60
40:L3:260:VAL:HG12	85:5:2394:G:N9	213.04	0.60
52:M6:54:TYR:CE2	52:M6:58:LEU:HD13	2.37	0.60
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.35	0.60
66:O0:70:PHE:CD2	66:O0:77:LEU:HD13	2.37	0.60
68:O2:12:LYS:HD3	68:O2:57:TYR:HA	2.36	0.60
92:1:3408:OHX:N4	73:O7:46:SER:OG	2.35	0.60
2:S0:11:PRO:HA	2:S0:14:ALA:HB3	2.59	0.60
5:S3:163:PRO:HA	5:S3:166:ASP:HB2	1.84	0.60
6:S4:42:LEU:HD12	6:S4:109:PHE:HD2	3.78	0.60
6:S4:251:GLU:O	6:S4:255:ARG:HG2	5.28	0.60
7:S5:99:MET:O	7:S5:100:ASN:HB2	3.04	0.60
34:SR:301:LEU:N	34:SR:313:TRP:O	2.70	0.60
36:1:121:A:H4'	36:1:122:A:OP2	2.01	0.60
36:1:1913:A:N3	36:1:2120:A:H2'	2.17	0.60
36:1:2403:G:C2	36:1:2405:C:C4	2.90	0.60
36:1:2525:G:OP2	39:L2:37:ARG:NH1	2.35	0.60
1:2:1171:G:O2'	1:2:1413:U:OP1	2.17	0.60
1:2:150:U:OP1	26:D4:123:LYS:NZ	2.33	0.60
1:2:1184:G:N2	1:2:1583:A:H5'	2.17	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1744:U:O2'	1:2:1745:A:OP2	2.19	0.60
1:2:619:A:O2'	1:2:1123:G:O2'	2.13	0.60
85:5:1228:C:H2'	85:5:1229:G:C8	2.36	0.60
85:5:1462:A:C6	85:5:1463:U:C4	2.90	0.60
85:5:286:U:H2'	85:5:287:G:C8	2.37	0.60
85:5:437:G:N7	92:5:3747:OHX:N6	2.40	0.60
80:6:546:U:H2'	80:6:547:U:C6	2.37	0.60
80:6:778:G:N2	80:6:780:A:H5'	2.16	0.60
80:6:781:U:O2	80:6:781:U:H5''	2.02	0.60
15:C3:112:LYS:NZ	80:6:975:C:OP1	280.16	0.60
26:D4:20:ARG:NE	26:D4:22:GLN:HE21	5.01	0.60
26:D4:76:TYR:HB2	26:D4:82:ALA:HB2	2.18	0.60
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.84	0.60
43:L6:36:PRO:HA	43:L6:54:TYR:CD1	2.36	0.60
47:M0:87:LEU:HD23	47:M0:138:VAL:CG2	4.55	0.60
61:N5:113:LEU:HD21	61:N5:121:LYS:HD2	1.84	0.60
67:O1:20:LEU:HD11	67:O1:32:ALA:HB2	1.89	0.60
72:O6:26:ILE:C	72:O6:28:TYR:H	2.05	0.60
36:1:2899:C:O2'	36:1:2901:G:OP2	2.16	0.60
36:1:2973:G:H5''	36:1:2974:U:OP2	2.02	0.60
36:1:3003:G:H1'	36:1:3146:G:H22	1.65	0.60
1:2:1416:G:H2'	1:2:1417:U:C6	2.37	0.60
85:5:655:C:H2'	85:5:656:A:H8	1.67	0.60
4:S2:159:THR:HG21	80:6:1097:U:O3'	383.07	0.60
7:S5:106:LYS:NZ	80:6:1527:C:OP1	368.48	0.60
80:6:1671:A:H2'	80:6:1672:G:O4'	2.02	0.60
80:6:1680:G:O6	92:6:1948:OHX:N6	2.35	0.60
80:6:21:U:H2'	80:6:22:A:H8	1.66	0.60
80:6:271:A:N3	80:6:285:G:N1	2.50	0.60
8:S6:167:LYS:HE2	80:6:73:U:H5	371.92	0.60
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.70	0.60
32:E0:17:GLN:OE1	80:6:563:U:H4'	382.89	0.60
32:E0:58:PRO:HA	80:6:558:U:OP1	416.84	0.60
36:1:608:A:O3'	41:L4:326:ARG:NH1	2.34	0.60
41:L4:337:GLU:O	41:L4:339:LEU:N	2.34	0.60
42:L5:59:ASP:OD2	42:L5:60:ILE:N	3.24	0.60
43:L6:13:GLU:OE2	68:O2:88:HIS:HA	2.45	0.60
47:M0:38:LYS:NZ	47:M0:45:GLU:OE1	2.30	0.60
57:N1:60:LYS:HB3	57:N1:76:ILE:HD12	2.81	0.60
58:N2:21:SER:HB3	58:N2:107:PHE:HB2	2.63	0.60
58:N2:75:TYR:CE1	58:N2:79:LEU:HD11	2.47	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:3:SER:HB3	68:O2:71:HIS:NE2	4.10	0.60
68:O2:89:THR:HG23	68:O2:90:LYS:N	4.34	0.60
74:O8:12:LEU:HD13	74:O8:15:THR:HG21	7.26	0.60
76:Q0:88:LYS:HD2	76:Q0:89:TYR:HE2	1.67	0.60
7:S5:118:LEU:HD22	7:S5:129:PRO:HB2	1.82	0.60
11:S9:72:GLU:OE2	80:6:761:G:O2'	396.54	0.60
36:1:2503:G:H1'	36:1:2504:U:C5	2.37	0.59
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.35	0.59
36:1:3206:C:H5''	36:1:3207:U:O5'	2.01	0.59
1:2:1567:G:N2	1:2:1594:A:OP2	2.32	0.59
1:2:651:G:O6	92:2:1980:OHX:N4	2.35	0.59
1:2:806:G:H2'	1:2:807:G:C8	2.36	0.59
85:5:1366:A:H2'	85:5:1367:G:C8	2.37	0.59
85:5:917:A:C6	85:5:918:C:C4	2.90	0.59
80:6:560:U:H2'	80:6:561:G:H8	1.66	0.59
6:S4:106:LYS:NZ	80:6:788:A:OP1	397.04	0.59
80:6:875:G:C2	80:6:953:G:N2	2.69	0.59
80:6:892:A:H2'	80:6:893:U:O4'	2.02	0.59
18:C6:82:ARG:HH22	18:C6:114:ARG:HB3	1.67	0.59
18:C6:7:VAL:HG21	18:C6:92:TYR:HA	3.27	0.59
2:S0:36:TYR:OH	23:D1:66:ASP:OD2	2.19	0.59
25:D3:92:CYS:O	25:D3:95:PHE:N	2.34	0.59
1:2:151:G:O6	26:D4:124:ARG:NH2	2.35	0.59
28:D6:74:CYS:SG	28:D6:77:CYS:HB2	2.42	0.59
33:E1:143:LYS:HD3	80:6:1254:U:OP1	456.87	0.59
54:M8:23:ASN:HB3	54:M8:26:LEU:HB2	1.82	0.59
57:N1:57:TYR:CG	57:N1:89:LEU:HD21	2.38	0.59
59:N3:2:SER:HA	59:N3:56:ASP:HA	4.97	0.59
49:M3:67:ARG:HG2	64:N8:105:LEU:HD11	1.82	0.59
70:O4:74:ARG:HG2	70:O4:75:ALA:N	2.63	0.59
78:Q2:50:PHE:O	92:Q2:502:OHX:N2	2.34	0.59
36:1:1658:G:H2'	36:1:1659:U:H6	1.67	0.59
36:1:2443:A:N6	36:1:2504:U:O4	2.35	0.59
36:1:729:C:H2'	36:1:730:C:C6	2.35	0.59
1:2:1318:U:H2'	1:2:1319:A:C8	2.37	0.59
1:2:460:A:H5'	1:2:461:G:OP2	2.02	0.59
85:5:1119:C:OP2	92:5:3489:OHX:N2	2.35	0.59
85:5:1273:A:H3'	85:5:1274:A:H8	1.66	0.59
85:5:132:C:C2'	85:5:133:U:H5''	2.33	0.59
85:5:2437:G:H2'	85:5:2438:A:O4'	2.02	0.59
85:5:595:G:H1	85:5:609:G:H5''	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:87:U:H2'	85:5:88:A:H8	1.67	0.59
80:6:271:A:H5'	80:6:272:U:P	2.42	0.59
17:C5:63:ALA:HA	17:C5:66:ALA:HB3	3.41	0.59
23:D1:70:ASN:OD1	23:D1:70:ASN:N	2.66	0.59
24:D2:82:LYS:NZ	80:6:794:U:H1'	359.20	0.59
40:L3:186:GLY:O	40:L3:190:GLU:HB2	2.21	0.59
40:L3:41:VAL:HA	40:L3:184:ASN:O	3.49	0.59
36:1:598:A:OP1	44:L7:41:ARG:NH2	2.35	0.59
47:M0:168:SER:O	47:M0:170:LYS:N	2.72	0.59
49:M3:73:ARG:HG2	49:M3:98:ASP:HB2	2.79	0.59
52:M6:157:GLU:OE2	52:M6:160:ARG:HD3	2.01	0.59
58:N2:84:LEU:HA	58:N2:89:LEU:HB2	1.83	0.59
59:N3:67:PRO:O	59:N3:69:LEU:N	2.99	0.59
3:S1:226:GLY:HA2	85:5:2536:A:H4'	257.18	0.59
4:S2:133:LYS:O	4:S2:136:VAL:HG13	2.02	0.59
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.33	0.59
8:S6:55:GLY:CA	8:S6:63:MET:HE3	3.41	0.59
36:1:1072:G:H2'	36:1:1073:U:C6	2.37	0.59
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.37	0.59
36:1:2772:C:H4'	36:1:2773:C:H5'	1.83	0.59
36:1:3037:U:H2'	36:1:3038:U:C6	2.37	0.59
92:1:3449:OHX:N3	51:M5:33:LYS:O	2.36	0.59
1:2:509:G:H2'	1:2:510:G:C8	2.36	0.59
1:2:66:U:C5	8:S6:173:PRO:HG3	2.37	0.59
1:2:66:U:H5'	8:S6:173:PRO:HA	1.84	0.59
37:3:11:A:O2'	37:3:13:A:OP2	2.17	0.59
85:5:2147:A:H2'	85:5:2148:U:H6	1.66	0.59
69:O3:86:ARG:HH22	85:5:498:A:H5'	215.48	0.59
15:C3:94:LYS:HG2	15:C3:118:ILE:HD13	2.91	0.59
18:C6:103:ASN:HA	18:C6:106:LYS:HB2	2.68	0.59
18:C6:39:VAL:HG12	18:C6:41:PRO:HD2	4.27	0.59
20:C8:5:VAL:HG23	27:D5:42:LEU:HD23	1.82	0.59
26:D4:8:ARG:HD2	80:6:780:A:N3	437.34	0.59
39:L2:126:LEU:O	39:L2:127:ALA:HB3	2.02	0.59
40:L3:384:LYS:O	92:L3:402:OHX:N6	33.45	0.59
45:L8:121:SER:O	45:L8:123:GLN:N	2.67	0.59
36:1:291:C:OP1	51:M5:68:ARG:HB3	2.02	0.59
55:M9:173:ARG:HH21	55:M9:177:VAL:HG21	10.07	0.59
72:O6:51:SER:HG	72:O6:54:GLU:CD	3.89	0.59
75:O9:23:LEU:HD22	75:O9:24:PRO:CD	2.28	0.59
4:S2:225:LEU:HD13	24:D2:68:ARG:HA	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:46:ILE:HD11	9:S7:60:ILE:HG12	1.83	0.59
11:S9:66:ASP:HB3	11:S9:69:ARG:HB3	2.22	0.59
1:2:1665:U:H5'	8:S6:65:GLN:HE22	1.68	0.59
1:2:2:A:O2'	4:S2:198:THR:O	2.19	0.59
1:2:542:A:HO2'	1:2:543:C:C5'	2.15	0.59
1:2:553:G:C6	1:2:554:C:N3	2.70	0.59
1:2:887:G:N2	1:2:888:A:H1'	2.18	0.59
37:3:74:C:H1'	37:3:106:U:O2	2.02	0.59
85:5:1192:C:C4	92:5:3589:OHX:N6	2.70	0.59
85:5:1718:G:N3	85:5:1727:G:N2	2.49	0.59
85:5:1815:U:O2'	85:5:1816:A:OP2	2.20	0.59
85:5:1846:C:H5'	85:5:1849:C:H41	1.68	0.59
85:5:2201:G:H2'	85:5:2202:C:C6	2.37	0.59
85:5:313:A:C5	85:5:314:U:C5	2.91	0.59
85:5:2211:U:O4	92:5:3465:OHX:N4	2.35	0.59
92:5:3555:OHX:N1	92:5:3703:OHX:N2	2.50	0.59
85:5:603:A:C5	85:5:604:G:H1'	2.37	0.59
80:6:493:U:H2'	80:6:494:U:H5''	1.84	0.59
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	2.25	0.59
22:D0:33:GLN:N	22:D0:33:GLN:OE1	2.36	0.59
44:L7:147:LEU:HD22	44:L7:205:PHE:CD1	3.43	0.59
52:M6:49:ARG:O	52:M6:53:LYS:N	2.91	0.59
65:N9:23:LYS:HD2	65:N9:24:PRO:HD3	1.84	0.59
68:O2:19:ARG:HG2	68:O2:20:HIS:H	1.66	0.59
36:1:1462:A:C5	36:1:1463:U:C5	2.90	0.59
36:1:22:G:H1'	38:4:104:A:N3	2.17	0.59
36:1:23:A:H2'	36:1:24:G:H8	1.66	0.59
36:1:2830:G:H1	36:1:2858:U:H3	1.48	0.59
85:5:1234:G:P	85:5:1235:U:H5''	2.43	0.59
85:5:3396:U:O2	92:5:3686:OHX:N6	2.35	0.59
85:5:597:G:H2'	85:5:598:A:H8	1.68	0.59
38:8:81:U:O2'	38:8:82:U:H5''	2.02	0.59
18:C6:11:GLY:H	18:C6:84:ALA:HB2	2.80	0.59
20:C8:134:ARG:O	20:C8:136:GLN:N	3.72	0.59
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.34	0.59
42:L5:13:SER:O	37:7:67:G:O2'	301.65	0.59
48:M1:15:GLU:HB3	48:M1:130:VAL:HG22	4.98	0.59
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	1.85	0.59
56:N0:155:ARG:HD3	56:N0:172:TYR:CD1	2.38	0.59
59:N3:86:ARG:HG2	59:N3:86:ARG:HH11	2.50	0.59
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.36	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:61:LYS:NZ	78:Q2:61:LYS:CB	2.61	0.59
78:Q2:74:CYS:SG	78:Q2:77:CYS:SG	3.10	0.59
34:SR:115:ILE:HG13	34:SR:122:ILE:HG12	2.54	0.59
36:1:1095:U:H4'	36:1:1096:U:H5'	1.85	0.59
36:1:1608:C:H2'	36:1:1609:C:H6	1.66	0.59
36:1:1686:U:O2	36:1:1688:U:H1'	2.03	0.59
36:1:1714:A:C2	36:1:1728:G:N1	2.71	0.59
36:1:3188:G:H2'	36:1:3189:G:H8	1.68	0.59
92:1:3600:OHX:N1	92:1:3648:OHX:N2	2.50	0.59
36:1:439:C:C5	36:1:440:A:C5	2.90	0.59
36:1:591:G:C2	43:L6:18:LEU:HD13	2.37	0.59
1:2:1024:G:H2'	1:2:1025:G:C8	2.38	0.59
38:4:126:A:O2'	38:4:128:U:OP1	2.21	0.59
85:5:126:U:H2'	85:5:127:G:O4'	2.03	0.59
85:5:3024:A:N6	85:5:3031:G:O2'	2.29	0.59
85:5:3204:C:H2'	85:5:3205:G:C8	2.38	0.59
68:O2:14:THR:O	92:5:3588:OHX:N5	183.11	0.59
80:6:1516:A:O2'	80:6:1517:U:H5'	2.02	0.59
80:6:1762:A:H1'	80:6:1783:C:H5'	1.84	0.59
38:8:44:A:H2'	38:8:45:C:C6	2.37	0.59
20:C8:125:ILE:HD11	35:SM:57:ASN:HB3	1.85	0.59
26:D4:104:SER:HB3	26:D4:107:GLN:CG	2.33	0.59
7:S5:57:SER:HA	30:D8:53:ILE:HD12	1.84	0.59
31:D9:12:ARG:HG3	31:D9:18:SER:HA	1.82	0.59
69:O3:49:ILE:HD11	69:O3:71:VAL:HG23	1.85	0.59
72:O6:58:ILE:O	72:O6:61:ILE:N	2.34	0.59
73:O7:34:CYS:HB3	73:O7:38:GLY:H	1.67	0.59
74:O8:5:ILE:HG12	74:O8:10:GLN:OE1	2.02	0.59
2:S0:38:PHE:HB2	2:S0:49:ASN:ND2	2.17	0.59
3:S1:183:GLN:O	3:S1:187:LYS:N	2.84	0.59
3:S1:58:SER:O	3:S1:62:LYS:HD3	3.87	0.59
3:S1:83:LYS:O	3:S1:84:ILE:HD13	2.32	0.59
36:1:1445:U:H5''	36:1:1446:A:OP2	2.02	0.59
36:1:1477:A:OP1	36:1:3075:G:O2'	2.18	0.59
36:1:2217:U:H2'	36:1:2218:G:C8	2.36	0.59
36:1:265:A:H5''	36:1:266:A:OP2	2.02	0.59
92:2:1972:OHX:N6	92:2:1986:OHX:N2	2.51	0.59
1:2:201:G:H2'	1:2:202:A:C8	2.38	0.59
1:2:649:U:O2'	1:2:650:U:O5'	2.18	0.59
85:5:1001:G:H21	85:5:1041:U:P	2.25	0.59
85:5:1201:C:O2	92:5:3533:OHX:N5	2.36	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1696:A:OP2	92:5:3688:OHX:N6	2.35	0.59
85:5:2876:C:H2'	85:5:2877:G:O4'	2.03	0.59
85:5:2957:G:H8	85:5:2957:G:H5'	1.67	0.59
85:5:3153:U:H4'	85:5:3154:C:H5'	1.83	0.59
85:5:576:C:H2'	85:5:577:C:H6	1.66	0.59
28:D6:87:ARG:NH1	80:6:1797:A:N7	342.78	0.59
8:S6:160:ARG:HH12	80:6:68:A:H5'	346.24	0.59
16:C4:43:THR:OG1	80:6:900:A:OP1	278.81	0.59
15:C3:148:ALA:O	92:C3:201:OHX:N4	5.40	0.59
24:D2:96:ALA:HB1	24:D2:98:GLN:HG2	1.85	0.59
28:D6:44:ILE:HD12	28:D6:45:VAL:HG22	1.85	0.59
33:E1:90:LYS:HB2	33:E1:93:HIS:CE1	11.16	0.59
40:L3:19:ARG:HG3	40:L3:273:HIS:CE1	2.37	0.59
41:L4:327:LEU:HA	44:L7:166:ASN:ND2	2.18	0.59
45:L8:156:ASP:O	45:L8:157:VAL:HB	2.02	0.59
45:L8:71:VAL:O	45:L8:233:TRP:HB3	3.31	0.59
47:M0:48:LEU:HD11	47:M0:145:LYS:HG3	1.85	0.59
48:M1:116:TYR:HE1	48:M1:118:PRO:HB3	2.45	0.59
48:M1:80:LEU:HD22	48:M1:84:LEU:HG	1.85	0.59
51:M5:140:LYS:O	51:M5:144:ARG:N	2.90	0.59
52:M6:88:VAL:O	52:M6:90:HIS:N	2.99	0.59
53:M7:95:LEU:O	53:M7:96:GLN:C	2.39	0.59
58:N2:58:GLU:HB2	58:N2:63:VAL:HG13	4.10	0.59
45:L8:27:THR:HG22	63:N7:53:VAL:HG22	8.13	0.59
71:O5:6:ALA:O	71:O5:9:LEU:N	2.35	0.59
2:S0:103:THR:O	2:S0:106:SER:OG	2.17	0.59
6:S4:126:VAL:HG13	6:S4:158:ASP:O	2.91	0.59
9:S7:14:THR:N	9:S7:17:GLU:OE1	3.78	0.59
9:S7:28:GLU:CD	9:S7:35:LYS:HG2	3.92	0.59
36:1:1009:A:H2'	36:1:1010:G:O4'	2.03	0.59
36:1:1132:C:H2'	36:1:1133:A:H8	1.67	0.59
36:1:2395:G:H5''	40:L3:255:TRP:CD1	2.37	0.59
36:1:2554:A:N6	39:L2:84:THR:HB	2.18	0.59
36:1:1853:U:OP2	92:1:3566:OHX:N3	2.36	0.59
92:1:3612:OHX:N6	92:1:3684:OHX:N3	2.51	0.59
36:1:744:A:H4'	54:M8:142:GLY:O	2.03	0.59
1:2:1512:C:O2'	21:C9:12:GLN:OE1	2.21	0.59
1:2:647:G:N2	1:2:670:G:H22	2.00	0.59
53:M7:67:ILE:HD11	85:5:1447:G:H3'	164.60	0.59
85:5:2373:A:N7	85:5:2867:C:H1'	2.18	0.59
85:5:923:C:H42	85:5:926:A:H1'	1.68	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:112:G:H2'	37:7:113:C:C6	2.37	0.59
1:2:910:C:H1'	16:C4:125:SER:HB2	1.85	0.59
24:D2:7:LEU:HD22	24:D2:7:LEU:O	3.31	0.59
44:L7:229:PHE:HD1	44:L7:230:GLY:N	2.57	0.59
45:L8:109:LEU:HA	45:L8:112:GLU:HG2	1.85	0.59
46:L9:12:VAL:HB	46:L9:51:GLN:HA	1.83	0.59
47:M0:54:SER:HB2	47:M0:135:ILE:HD11	2.48	0.59
48:M1:13:LYS:O	48:M1:131:MET:HE3	2.01	0.59
66:O0:101:LEU:HD22	66:O0:101:LEU:H	2.32	0.59
36:1:1438:U:H6	36:1:1438:U:O5'	1.85	0.59
36:1:3030:G:N7	36:1:3031:G:N7	2.51	0.59
36:1:3329:U:C4	36:1:3330:A:N7	2.71	0.59
36:1:3340:G:H2'	36:1:3342:A:OP2	2.03	0.59
92:1:3500:OHX:N3	92:1:3605:OHX:N1	2.50	0.59
36:1:817:A:OP2	36:1:817:A:H4'	2.03	0.59
1:2:1632:G:N7	92:2:1928:OHX:N1	2.51	0.59
38:4:11:C:H1'	53:M7:6:ALA:HB2	1.85	0.59
38:4:121:U:C2	38:4:122:U:C5	2.91	0.59
85:5:1110:U:H2'	85:5:1111:U:C6	2.38	0.59
85:5:1195:A:C2	85:5:1309:U:N3	2.71	0.59
85:5:131:C:H2'	85:5:132:C:H6	1.67	0.59
85:5:2781:U:C4	85:5:2782:U:C4	2.91	0.59
85:5:2948:C:H6	85:5:2948:C:O5'	1.84	0.59
17:C5:102:PHE:HZ	80:6:1241:G:H5''	385.27	0.59
80:6:1293:U:H3	80:6:1322:A:N6	1.93	0.59
80:6:1603:U:H2'	80:6:1604:U:H6	1.68	0.59
80:6:355:G:OP2	92:6:1921:OHX:N5	2.36	0.59
80:6:386:G:C6	80:6:387:A:N6	2.71	0.59
37:7:58:C:H2'	37:7:59:U:C6	2.36	0.59
13:C1:124:THR:HB	13:C1:141:LYS:HB3	1.85	0.59
1:2:970:G:N1	39:L2:249:SER:HB2	2.18	0.59
40:L3:218:ILE:CG1	40:L3:276:THR:HG23	2.62	0.59
48:M1:90:GLN:HA	48:M1:170:ASP:O	3.13	0.59
51:M5:143:ARG:NH2	71:O5:90:ARG:O	2.64	0.59
51:M5:80:THR:HG21	51:M5:87:GLN:HA	1.85	0.59
58:N2:16:THR:HG22	58:N2:64:THR:OG1	2.76	0.59
59:N3:125:LEU:HB3	59:N3:126:TRP:CD1	2.38	0.59
68:O2:2:ALA:O	68:O2:90:LYS:HG2	2.02	0.59
73:O7:63:ARG:NH2	38:8:58:G:O6	79.24	0.59
4:S2:89:GLN:HG3	4:S2:93:GLY:O	3.83	0.59
5:S3:175:VAL:CG1	5:S3:182:LEU:HB2	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1355:A:H4'	36:1:1356:U:O5'	2.02	0.59
36:1:1460:A:H2'	36:1:1461:A:C8	2.37	0.59
36:1:1680:G:H2'	36:1:1681:U:C6	2.38	0.59
36:1:2419:A:C2	36:1:2420:C:N3	2.70	0.59
36:1:980:A:H2'	36:1:981:U:C1'	2.32	0.59
1:2:1720:G:C2	1:2:1721:U:C2	2.90	0.59
1:2:1780:A:N7	28:D6:87:ARG:NH1	2.49	0.59
92:2:1970:OHX:N2	92:2:1985:OHX:N3	2.51	0.59
1:2:538:A:H8	1:2:543:C:N4	2.00	0.59
1:2:591:A:H2'	1:2:592:A:H8	1.67	0.59
85:5:1192:C:N4	85:5:1302:A:P	2.76	0.59
80:6:1111:G:O6	80:6:1112:G:C2	2.56	0.59
80:6:914:G:H8	80:6:914:G:OP2	1.84	0.59
37:7:62:U:O4	37:7:63:A:C6	2.56	0.59
13:C1:17:PRO:HB2	13:C1:18:HIS:CD2	5.39	0.59
17:C5:121:ILE:HG22	17:C5:123:TYR:H	1.67	0.59
23:D1:71:ARG:HG3	23:D1:83:TRP:CE2	3.33	0.59
28:D6:37:LYS:HA	28:D6:71:LEU:O	2.03	0.59
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.31	0.59
40:L3:358:TRP:CZ2	40:L3:360:ASP:HA	2.65	0.59
41:L4:99:MET:HE3	41:L4:102:PRO:HA	2.01	0.59
42:L5:85:ARG:NH2	42:L5:250:ASP:OD1	2.35	0.59
44:L7:223:PHE:HA	44:L7:227:GLY:O	2.03	0.59
46:L9:2:LYS:HB3	46:L9:59:ASN:OD1	2.02	0.59
47:M0:36:LEU:HD12	47:M0:36:LEU:N	2.66	0.59
48:M1:16:LYS:HB3	48:M1:72:ARG:HG2	1.85	0.59
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.38	0.59
54:M8:73:GLN:HB2	54:M8:76:ALA:HB3	1.84	0.59
63:N7:46:ILE:HD12	63:N7:69:LYS:O	2.02	0.59
65:N9:14:ARG:HH12	65:N9:18:ARG:HH11	2.83	0.59
68:O2:96:ILE:O	68:O2:121:ASN:ND2	2.95	0.59
68:O2:69:SER:HB2	68:O2:71:HIS:HD2	6.10	0.59
9:S7:164:TYR:CE1	9:S7:165:LYS:HG3	2.86	0.59
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.38	0.59
34:SR:134:TRP:HB3	34:SR:138:GLY:HA2	3.79	0.59
36:1:2775:U:H2'	36:1:2776:C:C6	2.37	0.58
36:1:608:A:OP1	41:L4:315:LYS:NZ	2.35	0.58
1:2:1644:U:H2'	1:2:1645:G:C8	2.37	0.58
1:2:989:C:OP1	92:2:1913:OHX:N5	2.35	0.58
1:2:565:C:O2	92:2:1917:OHX:N5	2.36	0.58
1:2:104:A:OP2	1:2:308:C:N4	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1672:U:O2'	85:5:1673:G:H5'	2.02	0.58
85:5:3089:C:H2'	85:5:3090:U:O4'	2.03	0.58
85:5:3200:G:O6	92:5:3641:OHX:N5	2.36	0.58
85:5:2404:A:C5	95:5:3401:PHE:HZ	2.21	0.58
80:6:432:G:H2'	80:6:433:C:H6	1.67	0.58
42:L5:260:PHE:CE2	37:7:121:U:H5'	319.67	0.58
38:8:141:C:H2'	38:8:142:C:C6	2.38	0.58
16:C4:91:THR:HG23	16:C4:92:LYS:H	2.99	0.58
19:C7:41:ILE:HD13	19:C7:47:ARG:HA	1.83	0.58
23:D1:38:LYS:HZ2	23:D1:49:GLU:HB3	4.25	0.58
42:L5:205:SER:OG	42:L5:206:GLN:N	2.38	0.58
45:L8:24:ASN:N	45:L8:25:PRO:HD2	2.17	0.58
51:M5:140:LYS:O	51:M5:143:ARG:N	2.96	0.58
54:M8:83:VAL:O	54:M8:83:VAL:HG12	2.22	0.58
61:N5:49:LYS:O	61:N5:50:ALA:HB3	2.03	0.58
63:N7:88:ASP:OD1	63:N7:89:VAL:N	2.35	0.58
67:O1:72:ARG:NH2	67:O1:104:LEU:HB3	3.70	0.58
36:1:634:C:H4'	68:O2:47:ARG:NH1	2.18	0.58
70:O4:82:ALA:O	70:O4:85:VAL:HG22	4.87	0.58
72:O6:58:ILE:HG12	72:O6:59:ASP:N	2.17	0.58
72:O6:57:LEU:O	72:O6:61:ILE:HG13	2.03	0.58
79:Q3:59:CYS:SG	79:Q3:60:CYS:N	2.75	0.58
4:S2:176:SER:HB2	4:S2:195:ASP:HB3	2.49	0.58
10:S8:11:ARG:HD3	10:S8:15:GLY:O	2.03	0.58
36:1:1581:C:C2	36:1:1582:C:H5'	2.38	0.58
36:1:1822:C:H2'	36:1:1823:A:C8	2.38	0.58
36:1:3217:C:C4	53:M7:182:ILE:HG23	2.39	0.58
1:2:1310:C:O2'	5:S3:159:HIS:ND1	2.24	0.58
1:2:237:C:H5''	1:2:238:U:H5'	1.83	0.58
1:2:799:G:C2	1:2:800:A:C8	2.91	0.58
85:5:1366:A:C2	85:5:1367:G:C4	2.91	0.58
74:O8:42:LYS:NZ	85:5:1750:A:OP2	141.74	0.58
85:5:2576:G:H2'	85:5:2577:C:H6	1.67	0.58
85:5:629:U:H2'	85:5:630:A:C8	2.38	0.58
80:6:1767:G:OP1	80:6:1770:U:H4'	2.03	0.58
80:6:217:A:O2'	80:6:218:A:O5'	2.20	0.58
15:C3:5:HIS:CE1	15:C3:121:ARG:HG3	2.38	0.58
1:2:868:G:N2	16:C4:123:SER:HB2	2.18	0.58
19:C7:7:LYS:N	80:6:1316:G:OP1	409.54	0.58
5:S3:7:LYS:NZ	22:D0:115:GLU:OE2	2.32	0.58
45:L8:239:GLY:O	45:L8:241:LYS:N	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:12:GLN:HA	47:M0:59:GLN:OE1	2.39	0.58
47:M0:76:MET:CE	47:M0:148:VAL:HA	2.50	0.58
51:M5:203:ARG:NH1	85:5:665:A:OP1	121.67	0.58
54:M8:151:ARG:NH1	85:5:781:G:OP1	159.67	0.58
55:M9:104:ARG:HH12	55:M9:135:LYS:HD3	1.69	0.58
56:N0:78:TRP:O	56:N0:124:LEU:HB2	2.75	0.58
64:N8:125:VAL:HB	64:N8:145:VAL:HG22	2.79	0.58
4:S2:140:ARG:NH2	4:S2:229:LEU:HD13	2.17	0.58
9:S7:131:PHE:O	9:S7:133:THR:N	2.36	0.58
10:S8:42:ARG:HB3	10:S8:59:ARG:HB2	2.80	0.58
10:S8:5:ARG:NH2	80:6:334:G:O6	302.72	0.58
36:1:2535:A:H61	36:1:2544:U:H3	1.51	0.58
36:1:2984:C:H2'	36:1:2985:C:H6	1.68	0.58
36:1:3174:A:C6	36:1:3175:U:C4	2.91	0.58
36:1:735:A:O5'	36:1:735:A:H8	1.86	0.58
36:1:739:G:C2	36:1:740:G:C8	2.92	0.58
37:3:9:C:OP2	37:3:10:C:N4	2.35	0.58
85:5:1438:U:C6	85:5:1439:U:H5	2.21	0.58
85:5:2211:U:H5	85:5:2234:G:N1	2.00	0.58
85:5:2661:G:H2'	85:5:2662:G:H8	1.67	0.58
85:5:645:A:C6	85:5:649:A:C8	2.91	0.58
85:5:754:G:H2'	85:5:755:A:H8	1.69	0.58
80:6:28:A:C2	80:6:29:U:C2	2.91	0.58
16:C4:84:ARG:HB3	16:C4:118:VAL:HG23	2.97	0.58
27:D5:61:SER:H	27:D5:64:VAL:HB	1.76	0.58
39:L2:3:ARG:HB2	39:L2:207:VAL:HG22	2.08	0.58
41:L4:11:LEU:HD23	41:L4:11:LEU:N	2.38	0.58
46:L9:37:ASN:OD1	46:L9:39:LYS:HG3	2.02	0.58
47:M0:99:ILE:HG13	47:M0:123:HIS:HB2	4.88	0.58
2:S0:60:ALA:HA	2:S0:144:ILE:HD13	1.86	0.58
3:S1:214:LYS:HD3	3:S1:216:LYS:HG3	8.72	0.58
3:S1:49:ASN:O	3:S1:57:ALA:HB2	2.03	0.58
4:S2:143:TYR:O	24:D2:98:GLN:NE2	2.35	0.58
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.03	0.58
9:S7:126:LEU:HD22	9:S7:173:TYR:CE2	3.06	0.58
36:1:1909:A:H2'	36:1:1910:A:C8	2.37	0.58
36:1:2656:A:C4	36:1:2658:G:N7	2.72	0.58
36:1:2661:G:O2'	36:1:2662:G:H5'	2.02	0.58
36:1:3259:U:H5'	36:1:3259:U:C6	2.31	0.58
92:1:3616:OHX:N6	92:1:3689:OHX:N5	2.50	0.58
36:1:374:A:H61	36:1:397:A:H61	1.50	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1497:U:C5	5:S3:4:LEU:HD12	2.39	0.58
1:2:1190:C:OP2	92:2:1940:OHX:N4	2.36	0.58
1:2:622:A:H4'	1:2:623:A:OP1	2.02	0.58
85:5:1661:G:N2	85:5:1789:G:C4	2.72	0.58
85:5:3280:U:O2'	85:5:3281:U:H5''	2.04	0.58
85:5:2770:G:N7	92:5:3655:OHX:N5	2.50	0.58
80:6:1525:A:N3	80:6:1589:C:O2'	2.32	0.58
80:6:52:U:H2'	80:6:53:G:C8	2.38	0.58
80:6:844:A:H2'	80:6:845:G:O4'	2.03	0.58
38:8:16:G:O6	92:8:202:OHX:N6	2.36	0.58
17:C5:50:THR:CB	17:C5:50:THR:N	2.62	0.58
20:C8:48:LYS:HD3	21:C9:35:ASP:OD2	2.02	0.58
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.37	0.58
26:D4:104:SER:O	26:D4:107:GLN:N	3.29	0.58
36:1:681:U:O4	41:L4:118:LYS:NZ	2.37	0.58
41:L4:143:GLU:HB3	41:L4:144:LYS:NZ	9.06	0.58
42:L5:131:LEU:HD22	42:L5:131:LEU:H	1.68	0.58
42:L5:146:LEU:HB3	85:5:2746:A:H2	258.74	0.58
49:M3:79:GLU:OE2	49:M3:112:ASN:ND2	2.36	0.58
53:M7:31:GLU:HG2	53:M7:60:PHE:HA	4.13	0.58
55:M9:6:THR:HG23	55:M9:9:ARG:HH11	5.18	0.58
59:N3:28:ASN:OD1	59:N3:112:SER:N	2.30	0.58
49:M3:157:ARG:HH12	64:N8:146:GLU:CD	3.08	0.58
67:O1:36:ILE:HD12	67:O1:59:ILE:HD11	2.80	0.58
79:Q3:73:THR:HG22	79:Q3:76:ALA:N	2.12	0.58
2:S0:88:LYS:HB3	2:S0:202:TYR:CZ	2.92	0.58
3:S1:70:LEU:HD11	3:S1:79:HIS:HB3	1.85	0.58
36:1:1852:G:OP2	92:1:3513:OHX:N4	2.36	0.58
36:1:3003:G:H1'	36:1:3146:G:N2	2.18	0.58
85:5:1701:C:H2'	85:5:1702:U:O4'	2.04	0.58
85:5:2683:U:O2	85:5:2683:U:H2'	2.04	0.58
85:5:2845:A:H2'	85:5:2846:U:H5'	1.85	0.58
85:5:297:G:N2	85:5:297:G:OP2	2.34	0.58
85:5:3245:A:H5'	85:5:3246:G:H5''	1.85	0.58
85:5:1410:U:OP1	92:5:3528:OHX:N5	2.36	0.58
85:5:385:A:H2'	85:5:386:A:C8	2.37	0.58
85:5:407:A:C2	38:8:17:A:H1'	2.39	0.58
85:5:668:G:C5	85:5:795:G:C2	2.91	0.58
80:6:6:G:N1	80:6:7:G:C5	2.71	0.58
19:C7:104:ASN:O	19:C7:106:THR:N	3.49	0.58
20:C8:7:GLU:OE1	20:C8:10:SER:OG	4.20	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:131:SER:O	25:D3:135:LEU:HG	2.04	0.58
26:D4:80:ALA:O	26:D4:83:LYS:N	2.94	0.58
42:L5:156:GLY:HA2	42:L5:181:PRO:HD3	1.85	0.58
43:L6:96:VAL:HG12	43:L6:98:VAL:HB	2.82	0.58
44:L7:121:LYS:HD2	44:L7:125:GLU:HG2	1.86	0.58
62:N6:37:LYS:CD	62:N6:37:LYS:H	2.56	0.58
76:Q0:96:CYS:HA	76:Q0:121:LEU:HD22	3.37	0.58
3:S1:134:VAL:HG12	3:S1:218:LEU:HB2	5.63	0.58
3:S1:62:LYS:O	3:S1:88:VAL:HB	2.55	0.58
4:S2:238:SER:OG	4:S2:238:SER:O	3.51	0.58
6:S4:187:ARG:HH11	6:S4:245:LYS:NZ	2.02	0.58
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.84	0.58
36:1:1078:U:O4	92:1:3502:OHX:N4	2.36	0.58
36:1:2111:G:H5''	60:N4:48:ARG:HH21	1.68	0.58
36:1:520:U:OP2	44:L7:70:LYS:NZ	2.37	0.58
1:2:1166:A:N6	1:2:1167:A:N1	2.52	0.58
1:2:1471:G:H5'	1:2:1472:U:P	2.44	0.58
37:3:35:C:N4	37:3:36:C:N3	2.51	0.58
37:3:26:C:H2'	37:3:57:G:H22	1.67	0.58
37:3:81:U:H6	37:3:81:U:O5'	1.87	0.58
85:5:1684:U:H2'	85:5:1685:C:H6	1.69	0.58
85:5:19:U:O4	92:5:3606:OHX:N6	2.36	0.58
85:5:345:G:OP1	85:5:1429:G:N2	2.29	0.58
85:5:3064:U:O4	92:5:3604:OHX:N5	2.35	0.58
73:O7:35:SER:OG	85:5:361:A:H5'	125.86	0.58
85:5:644:G:H2'	85:5:2372:A:N7	2.19	0.58
64:N8:12:ARG:NH2	85:5:661:G:OP1	149.88	0.58
80:6:1638:G:N2	80:6:1639:C:H1'	2.17	0.58
80:6:103:A:C5	80:6:360:A:C2	2.92	0.58
15:C3:101:HIS:HA	15:C3:104:ARG:HH11	2.78	0.58
1:2:1536:G:O6	17:C5:40:ARG:NH2	2.36	0.58
20:C8:52:VAL:HG13	20:C8:61:LEU:HD21	3.09	0.58
23:D1:60:ARG:HA	23:D1:65:SER:HB2	1.86	0.58
42:L5:109:THR:O	42:L5:112:LYS:N	2.37	0.58
51:M5:12:ARG:O	51:M5:13:LYS:HD3	2.03	0.58
51:M5:172:ARG:NH1	85:5:30:G:P	107.38	0.58
52:M6:3:VAL:HG22	52:M6:3:VAL:O	2.04	0.58
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.36	0.58
58:N2:32:SER:O	58:N2:35:LYS:HB3	2.04	0.58
67:O1:13:THR:CG2	67:O1:72:ARG:HH21	5.77	0.58
68:O2:9:ILE:HG23	68:O2:63:THR:HB	3.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:45:LYS:HG2	71:O5:75:TYR:HD2	2.59	0.58
49:M3:105:ASN:HD21	72:O6:17:VAL:HG21	2.65	0.58
78:Q2:17:CYS:HG	78:Q2:77:CYS:CB	2.10	0.58
3:S1:36:SER:C	3:S1:38:PHE:H	2.39	0.58
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.04	0.58
11:S9:91:LYS:O	11:S9:92:LYS:HG2	2.02	0.58
36:1:200:C:OP1	62:N6:60:ARG:NH1	2.37	0.58
36:1:2190:U:C4	36:1:2191:U:C4	2.92	0.58
36:1:2718:U:OP2	92:1:3518:OHX:N3	2.36	0.58
36:1:3326:G:H2'	36:1:3327:G:H8	1.67	0.58
36:1:3328:G:OP1	40:L3:385:LYS:NZ	2.29	0.58
36:1:670:C:P	54:M8:147:ARG:HH21	2.25	0.58
1:2:1148:G:O6	1:2:1149:A:N6	2.37	0.58
1:2:1433:U:H6	1:2:1433:U:O5'	1.87	0.58
1:2:219:A:H5'	1:2:814:U:O2'	2.04	0.58
1:2:685:G:C8	92:2:2009:OHX:N2	2.72	0.58
38:4:79:A:H2'	38:4:80:A:H1'	1.84	0.58
85:5:247:C:N3	85:5:248:U:H1'	2.19	0.58
92:5:3576:OHX:N3	92:5:3634:OHX:N4	2.51	0.58
85:5:437:G:N7	92:5:3747:OHX:N4	2.51	0.58
10:S8:10:LYS:HD3	80:6:338:C:H5''	288.60	0.58
17:C5:68:PRO:HG2	17:C5:71:GLU:CB	2.33	0.58
24:D2:73:GLY:HA3	24:D2:128:PHE:CZ	2.39	0.58
39:L2:132:ASN:ND2	85:5:2178:A:H5''	216.20	0.58
39:L2:238:ILE:HG22	39:L2:239:ALA:N	2.74	0.58
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.43	0.58
42:L5:163:LEU:O	42:L5:166:ALA:N	3.35	0.58
45:L8:186:LEU:O	45:L8:189:LEU:HB3	4.83	0.58
50:M4:47:ASP:OD2	50:M4:48:GLY:N	2.37	0.58
51:M5:68:ARG:HA	51:M5:98:LEU:HD21	3.45	0.58
57:N1:12:ARG:HD2	57:N1:13:TYR:CZ	3.05	0.58
60:N4:13:ILE:HG22	60:N4:13:ILE:O	2.03	0.58
62:N6:126:LEU:HB3	62:N6:127:GLU:OE1	9.34	0.58
36:1:2767:U:OP1	78:Q2:34:SER:HB3	2.04	0.58
4:S2:215:PHE:O	4:S2:217:ALA:N	3.06	0.58
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.69	0.58
6:S4:130:GLN:HB2	6:S4:138:TYR:CZ	2.39	0.58
36:1:1017:C:O2'	36:1:1018:G:OP2	2.22	0.58
36:1:1580:A:H5'	36:1:2522:G:C5	2.39	0.58
36:1:288:C:H2'	36:1:289:A:C8	2.38	0.58
36:1:3195:U:O2'	36:1:3196:U:H5'	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2315:G:OP2	92:1:3534:OHX:N3	2.37	0.58
36:1:709:A:OP1	54:M8:179:ARG:NH2	2.37	0.58
36:1:818:C:OP2	92:1:3728:OHX:N4	2.37	0.58
36:1:852:U:H2'	36:1:853:G:C8	2.39	0.58
1:2:1277:G:O6	92:2:1955:OHX:N4	2.37	0.58
1:2:365:G:N7	92:2:1982:OHX:N5	2.52	0.58
38:4:49:G:OP1	38:4:49:G:H8	1.86	0.58
51:M5:4:TYR:OH	85:5:148:G:OP2	110.14	0.58
55:M9:20:ARG:NH2	85:5:1874:A:H62	148.81	0.58
85:5:2823:G:O6	92:5:3456:OHX:N6	2.37	0.58
85:5:3274:A:H3'	85:5:3275:U:C5'	2.31	0.58
85:5:94:G:H2'	85:5:95:A:C8	2.39	0.58
80:6:1160:A:H2'	80:6:1161:C:C6	2.39	0.58
80:6:1587:A:O5'	80:6:1587:A:H8	1.86	0.58
92:6:1914:OHX:N5	92:6:1998:OHX:N6	2.51	0.58
38:8:49:G:C6	38:8:77:A:C2	2.92	0.58
25:D3:141:GLU:CD	25:D3:144:ARG:HH12	14.80	0.58
40:L3:347:SER:O	40:L3:348:ARG:HB2	2.03	0.58
45:L8:158:ASP:HB3	45:L8:159:PRO:HD3	1.85	0.58
49:M3:162:ASN:OD1	49:M3:163:GLY:N	2.36	0.58
55:M9:6:THR:O	55:M9:9:ARG:N	3.41	0.58
57:N1:116:ARG:NH2	85:5:1097:G:N7	245.93	0.58
70:O4:52:GLN:HG2	85:5:1639:C:H5'	196.20	0.58
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.31	0.58
9:S7:28:GLU:O	9:S7:30:SER:N	2.32	0.58
34:SR:132:LYS:NZ	34:SR:143:THR:OG1	3.46	0.58
34:SR:22:SER:OG	34:SR:70:ASP:HA	2.98	0.58
36:1:1438:U:H2'	36:1:1439:U:C6	2.39	0.58
36:1:1856:C:H2'	36:1:1857:C:C6	2.39	0.58
1:2:1181:G:H4'	22:D0:72:ASN:O	2.04	0.58
1:2:1442:C:N4	20:C8:139:LYS:HE3	2.18	0.58
1:2:1520:C:C4	1:2:1555:G:N1	2.69	0.58
1:2:169:A:OP1	8:S6:137:ARG:HG3	2.03	0.58
1:2:182:A:H2'	1:2:183:U:C6	2.39	0.58
1:2:450:U:H2'	1:2:451:A:C8	2.38	0.58
1:2:472:U:H5''	11:S9:11:THR:HG23	1.84	0.58
1:2:741:U:H5'	1:2:742:U:OP2	2.02	0.58
1:2:81:G:C6	1:2:82:U:N3	2.72	0.58
37:3:72:A:C2	37:3:74:C:C6	2.92	0.58
85:5:1235:U:H4'	85:5:1236:G:OP1	2.04	0.58
85:5:2962:U:C4	85:5:2963:C:C5	2.91	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:501:A:H2'	85:5:502:U:C6	2.39	0.58
49:M3:59:ARG:HG2	85:5:73:C:O2'	93.88	0.58
80:6:545:A:N6	80:6:594:A:C8	2.72	0.58
80:6:836:U:H2'	80:6:837:G:C8	2.39	0.58
38:8:43:A:C2	38:8:44:A:C8	2.92	0.58
38:8:81:U:H1'	38:8:82:U:C6	2.39	0.58
13:C1:94:ILE:O	13:C1:94:ILE:HG22	2.65	0.58
25:D3:44:GLY:H	25:D3:78:LYS:NZ	2.01	0.58
39:L2:204:MET:HB2	39:L2:208:ASP:HB2	1.86	0.58
42:L5:110:LEU:HD22	42:L5:171:LEU:HD23	1.86	0.58
43:L6:76:LEU:HD13	43:L6:101:PHE:CE1	3.44	0.58
46:L9:91:ARG:NH2	46:L9:91:ARG:HG3	2.19	0.58
47:M0:10:ARG:HG2	47:M0:11:TYR:CD1	2.39	0.58
65:N9:14:ARG:NH1	65:N9:18:ARG:HH11	3.37	0.58
65:N9:44:LYS:HD2	65:N9:45:HIS:CD2	3.33	0.58
69:O3:93:THR:O	69:O3:96:ALA:HB3	2.55	0.58
78:Q2:83:LEU:HD23	78:Q2:84:THR:N	2.78	0.58
3:S1:134:VAL:O	3:S1:218:LEU:HB2	5.28	0.58
5:S3:158:ILE:H	5:S3:158:ILE:HD13	1.85	0.58
5:S3:48:VAL:HB	5:S3:86:LEU:HD12	1.84	0.58
35:SM:46:LYS:O	36:1:1018:G:H5''	2.04	0.58
36:1:2232:A:H2'	36:1:2233:A:C8	2.39	0.58
36:1:2538:U:O2'	36:1:2541:U:O4	2.19	0.58
92:1:3612:OHX:N4	92:1:3684:OHX:N1	2.52	0.58
1:2:1125:A:H2'	1:2:1126:A:C8	2.39	0.58
1:2:294:C:C2	1:2:295:A:C8	2.92	0.58
1:2:48:G:C6	1:2:49:C:C5	2.92	0.58
1:2:842:A:C6	15:C3:73:ARG:HD3	2.39	0.58
85:5:1564:U:H2'	85:5:1565:G:C8	2.39	0.58
85:5:1447:G:N2	85:5:2356:A:OP2	2.37	0.58
85:5:3376:A:OP2	92:5:3438:OHX:N4	2.36	0.58
80:6:1727:G:H2'	80:6:1728:A:C8	2.39	0.58
23:D1:40:ASP:OD1	23:D1:41:GLU:N	2.37	0.58
42:L5:99:TYR:HE1	42:L5:103:LEU:HD22	1.68	0.58
53:M7:60:PHE:HB3	53:M7:64:ASN:HB3	1.86	0.58
61:N5:121:LYS:HD3	61:N5:123:TYR:CZ	2.98	0.58
63:N7:36:HIS:HD2	63:N7:74:VAL:HG11	2.80	0.58
36:1:1065:A:C4	65:N9:28:LYS:HG2	2.38	0.58
45:L8:230:LYS:NZ	72:O6:47:ILE:O	2.36	0.58
73:O7:75:LYS:HD3	85:5:181:U:O3'	49.48	0.58
7:S5:121:ILE:HA	7:S5:199:ILE:HD11	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:28:LEU:O	11:S9:28:LEU:HD22	2.04	0.58
36:1:172:G:N7	92:1:3526:OHX:N5	2.51	0.57
36:1:650:C:H6	36:1:650:C:O5'	1.87	0.57
1:2:1203:C:H42	1:2:1246:G:H1	1.52	0.57
1:2:1376:C:H42	1:2:1388:G:H1	1.50	0.57
1:2:75:U:H2'	1:2:76:A:O4'	2.03	0.57
38:4:151:C:C4	61:N5:24:LEU:HD11	2.39	0.57
35:SM:46:LYS:HA	85:5:1018:G:H4'	324.43	0.57
85:5:1438:U:H2'	85:5:1439:U:C6	2.35	0.57
85:5:1792:C:H5''	85:5:1793:C:OP1	2.03	0.57
85:5:182:U:H2'	85:5:183:G:H8	1.68	0.57
85:5:2203:U:H2'	85:5:2204:C:C6	2.38	0.57
85:5:227:G:N2	85:5:228:U:H1'	2.19	0.57
85:5:721:G:H1	85:5:749:C:H42	1.52	0.57
80:6:1280:C:O2	80:6:1428:G:N2	2.23	0.57
38:8:65:A:N6	38:8:66:A:C6	2.73	0.57
14:C2:30:VAL:HB	14:C2:132:GLU:HG3	1.85	0.57
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	1.96	0.57
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.86	0.57
39:L2:149:ARG:HH22	39:L2:253:GLN:HA	4.71	0.57
40:L3:46:PHE:CE2	40:L3:205:VAL:HG22	2.39	0.57
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.39	0.57
42:L5:270:LYS:HG3	42:L5:273:ARG:HB2	5.26	0.57
44:L7:116:PHE:CZ	44:L7:144:ILE:HG23	2.39	0.57
51:M5:140:LYS:HD2	51:M5:144:ARG:HH21	1.68	0.57
54:M8:33:TYR:HA	54:M8:36:LEU:HB2	1.86	0.57
54:M8:50:LYS:O	54:M8:52:LEU:N	2.37	0.57
64:N8:123:VAL:O	64:N8:143:GLY:HA3	2.04	0.57
49:M3:161:ASP:OD2	64:N8:144:VAL:HG12	3.14	0.57
71:O5:101:THR:O	71:O5:105:ARG:N	2.37	0.57
2:S0:179:ARG:HD2	2:S0:183:ARG:HD2	1.85	0.57
2:S0:84:ARG:NE	19:C7:82:ASP:OD1	4.41	0.57
3:S1:130:SER:OG	3:S1:131:ASP:N	2.36	0.57
6:S4:18:TRP:HZ3	6:S4:29:PRO:HD2	3.94	0.57
9:S7:20:VAL:HG12	9:S7:24:PHE:HD2	2.34	0.57
9:S7:55:LYS:HD3	9:S7:89:HIS:CE1	4.41	0.57
10:S8:63:GLY:O	10:S8:65:PHE:HD2	3.01	0.57
36:1:1170:A:H2'	36:1:1171:G:O4'	2.04	0.57
36:1:2314:U:HO2'	36:1:2315:G:P	2.27	0.57
37:3:3:U:H2'	37:3:4:U:C6	2.38	0.57
85:5:1650:G:N2	85:5:1805:C:N3	2.45	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:181:U:O5'	85:5:181:U:H6	1.86	0.57
85:5:2104:A:O2'	85:5:2105:G:H5'	2.04	0.57
85:5:3019:U:O4	92:5:3488:OHX:N2	2.37	0.57
92:5:3481:OHX:N4	92:5:3702:OHX:N3	2.51	0.57
80:6:1293:U:H2'	80:6:1294:G:O4'	2.05	0.57
38:8:105:A:H4'	38:8:106:C:OP1	2.04	0.57
17:C5:51:SER:C	17:C5:53:PRO:HD2	4.12	0.57
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.97	0.57
20:C8:121:ALA:O	20:C8:125:ILE:HG13	2.41	0.57
39:L2:180:LEU:O	85:5:2149:A:O2'	221.31	0.57
41:L4:151:VAL:HA	41:L4:250:TRP:O	2.04	0.57
43:L6:105:TYR:HE1	43:L6:134:ARG:HH11	1.50	0.57
43:L6:42:LEU:HD22	43:L6:79:VAL:HG21	2.52	0.57
44:L7:92:ILE:HD11	54:M8:4:ASP:N	2.17	0.57
53:M7:62:ARG:HG2	53:M7:63:PHE:CD1	2.39	0.57
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.19	0.57
56:N0:155:ARG:HH22	56:N0:172:TYR:H	4.33	0.57
59:N3:67:PRO:C	59:N3:69:LEU:H	2.32	0.57
69:O3:86:ARG:NH2	85:5:497:C:O3'	214.60	0.57
2:S0:71:GLU:HG2	2:S0:72:ASP:H	2.37	0.57
3:S1:134:VAL:O	3:S1:218:LEU:N	3.65	0.57
6:S4:118:GLU:CD	6:S4:237:SER:HG	2.61	0.57
11:S9:79:ARG:O	11:S9:83:VAL:HG22	2.03	0.57
36:1:1211:U:H2'	36:1:1212:A:C8	2.38	0.57
36:1:268:A:C4	51:M5:12:ARG:HG2	2.38	0.57
36:1:2851:A:H2'	36:1:2852:C:C6	2.38	0.57
36:1:2881:C:H2'	36:1:2882:U:C6	2.39	0.57
36:1:860:G:C5	39:L2:181:LYS:HB2	2.38	0.57
1:2:1364:U:O4	1:2:1365:A:N6	2.37	0.57
1:2:196:G:O2'	1:2:197:A:P	2.62	0.57
1:2:318:U:O4	92:2:2005:OHX:N5	2.38	0.57
85:5:327:A:H2'	85:5:328:U:C6	2.39	0.57
85:5:3352:U:O2'	92:5:3734:OHX:N1	2.37	0.57
64:N8:16:SER:HA	85:5:942:U:N3	169.63	0.57
80:6:1699:G:N1	80:6:1701:A:H5''	2.19	0.57
80:6:223:U:H3	80:6:838:G:H1	1.53	0.57
20:C8:45:LEU:O	20:C8:48:LYS:HB2	2.69	0.57
32:E0:29:LYS:HG3	32:E0:30:PRO:HD2	4.90	0.57
40:L3:293:ASN:HB2	40:L3:304:THR:HA	1.87	0.57
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.74	0.57
45:L8:48:ARG:HH21	45:L8:49:TYR:HE2	1.52	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:189:GLU:O	46:L9:191:LEU:N	2.38	0.57
56:N0:148:LEU:HD22	56:N0:149:LYS:N	5.28	0.57
68:O2:99:ASN:N	68:O2:99:ASN:OD1	2.83	0.57
79:Q3:33:GLN:HB3	79:Q3:69:TYR:HB3	1.85	0.57
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.86	0.57
7:S5:151:GLY:HA3	7:S5:156:ARG:H	4.28	0.57
9:S7:132:PRO:O	9:S7:133:THR:OG1	4.98	0.57
11:S9:151:ASP:OD1	11:S9:151:ASP:N	2.59	0.57
11:S9:37:LYS:HG3	11:S9:38:ASN:OD1	2.04	0.57
36:1:1004:U:C2	36:1:1005:G:N7	2.72	0.57
36:1:1504:A:C5	36:1:1505:C:C5	2.93	0.57
36:1:3375:A:H5''	36:1:3378:C:H5	1.69	0.57
36:1:3191:G:O6	92:1:3665:OHX:N3	2.38	0.57
1:2:1156:C:H2'	1:2:1157:C:H6	1.69	0.57
1:2:1457:G:H2'	1:2:1458:A:H8	1.69	0.57
1:2:72:A:O2'	1:2:73:U:H5''	2.04	0.57
47:M0:198:LYS:HE2	85:5:1040:A:O2'	332.80	0.57
85:5:1672:U:O2	85:5:1776:G:C2	2.57	0.57
85:5:187:A:C5	85:5:211:A:C2	2.92	0.57
85:5:2608:G:C2	85:5:2609:A:N7	2.73	0.57
42:L5:35:ARG:HG2	85:5:2749:G:O2'	249.16	0.57
85:5:2771:U:N3	85:5:2773:C:N3	2.53	0.57
85:5:3384:U:H2'	85:5:3385:U:C6	2.39	0.57
92:6:1996:OHX:N5	92:6:2033:OHX:N2	2.52	0.57
80:6:291:G:H2'	80:6:292:U:C6	2.39	0.57
14:C2:87:PRO:HA	14:C2:140:PHE:HE1	1.70	0.57
16:C4:91:THR:HG23	16:C4:92:LYS:N	3.05	0.57
39:L2:181:LYS:HB2	85:5:860:G:C5	212.01	0.57
41:L4:74:ILE:O	41:L4:76:ARG:HG3	2.42	0.57
42:L5:261:THR:HG23	42:L5:264:GLN:HG3	2.64	0.57
59:N3:129:VAL:O	59:N3:133:SER:OG	2.22	0.57
62:N6:57:LEU:HD22	62:N6:58:VAL:H	2.13	0.57
64:N8:56:VAL:HG22	64:N8:57:GLY:N	2.19	0.57
71:O5:28:LEU:O	71:O5:32:LYS:HG3	2.50	0.57
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	1.86	0.57
10:S8:84:HIS:CD2	10:S8:90:LEU:HD13	3.19	0.57
36:1:1072:G:H2'	36:1:1073:U:H6	1.68	0.57
36:1:1294:A:C2	36:1:1295:G:C8	2.92	0.57
36:1:1574:C:N4	36:1:1575:A:N7	2.53	0.57
92:1:3565:OHX:N5	92:1:3578:OHX:N5	2.52	0.57
36:1:980:A:H2'	36:1:981:U:C2	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1044:A:H2'	1:2:1045:A:H5'	1.86	0.57
1:2:1529:G:OP2	20:C8:134:ARG:NE	2.28	0.57
1:2:1795:G:C2	1:2:1797:A:H5''	2.39	0.57
1:2:218:A:O2'	1:2:219:A:OP1	2.16	0.57
1:2:621:A:N3	1:2:1090:G:H1'	2.20	0.57
71:O5:90:ARG:NH1	85:5:20:A:OP2	85.80	0.57
40:L3:260:VAL:HG12	85:5:2394:G:C8	212.43	0.57
85:5:2602:G:C6	85:5:2603:G:C8	2.92	0.57
85:5:287:G:H2'	85:5:288:C:H6	1.69	0.57
85:5:2912:G:H1'	85:5:3131:U:OP1	2.04	0.57
85:5:1748:G:O6	92:5:3688:OHX:N4	2.37	0.57
85:5:48:A:O4'	85:5:50:U:C6	2.57	0.57
85:5:550:A:H2'	85:5:551:A:C8	2.39	0.57
85:5:650:C:O2'	85:5:651:G:H5'	2.04	0.57
80:6:1535:U:O2'	80:6:1536:G:P	2.63	0.57
80:6:774:A:C5	80:6:775:G:H1'	2.39	0.57
12:C0:10:LYS:NZ	12:C0:36:ASP:O	3.13	0.57
18:C6:95:LYS:HE3	18:C6:96:TYR:CZ	2.40	0.57
1:2:1738:A:C8	25:D3:63:GLN:HG3	2.39	0.57
28:D6:74:CYS:O	28:D6:78:ALA:N	5.35	0.57
33:E1:98:VAL:O	33:E1:99:LYS:HG2	3.12	0.57
42:L5:105:ILE:O	42:L5:109:THR:HG23	2.05	0.57
42:L5:155:THR:HB	42:L5:179:ARG:HD2	1.85	0.57
44:L7:56:GLU:O	44:L7:59:GLU:N	2.37	0.57
47:M0:47:PRO:O	47:M0:178:ARG:NH1	3.04	0.57
47:M0:77:THR:HG22	47:M0:82:ARG:HA	1.86	0.57
47:M0:35:ASP:OD1	47:M0:88:ARG:HG3	2.94	0.57
49:M3:121:SER:OG	49:M3:122:LYS:N	2.36	0.57
55:M9:158:GLU:HA	55:M9:161:ALA:HB3	2.61	0.57
56:N0:89:ASN:ND2	57:N1:155:PRO:CB	2.67	0.57
47:M0:169:LYS:HD2	57:N1:160:ILE:C	8.09	0.57
36:1:1738:C:HO2'	70:O4:53:GLY:H	1.51	0.57
71:O5:104:GLN:OE1	71:O5:107:LYS:NZ	2.36	0.57
2:S0:152:PRO:HB2	2:S0:154:GLU:HG2	1.85	0.57
2:S0:199:PRO:C	2:S0:201:LEU:H	2.81	0.57
2:S0:31:VAL:HG12	2:S0:33:GLN:N	2.17	0.57
6:S4:191:ARG:HD3	6:S4:245:LYS:HB2	1.86	0.57
10:S8:50:GLY:HA2	80:6:397:A:O3'	314.60	0.57
36:1:272:G:OP2	92:1:3563:OHX:N3	2.37	0.57
92:1:3616:OHX:N4	92:1:3689:OHX:N3	2.53	0.57
1:2:1141:C:H42	1:2:1146:A:N6	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1169:U:OP1	1:2:1439:C:O2'	2.21	0.57
1:2:116:U:H2'	1:2:117:U:C6	2.40	0.57
1:2:1725:U:H2'	1:2:1726:U:O4'	2.04	0.57
1:2:190:C:O2'	1:2:191:C:H5'	2.05	0.57
1:2:358:U:H2'	1:2:360:A:H8	1.70	0.57
55:M9:64:ARG:NE	85:5:1672:U:OP1	174.31	0.57
85:5:1694:U:N3	85:5:1695:U:C4	2.72	0.57
41:L4:221:ASN:OD1	85:5:211:A:H3'	79.15	0.57
85:5:2662:G:H2'	85:5:2663:G:C8	2.39	0.57
85:5:2794:G:O2'	85:5:2795:U:OP2	2.20	0.57
80:6:1584:G:H22	80:6:1611:A:P	2.27	0.57
80:6:500:C:O2'	80:6:501:U:O4'	2.22	0.57
55:M9:162:ARG:HH21	80:6:815:G:H1'	304.41	0.57
80:6:909:U:H2'	80:6:910:C:C6	2.40	0.57
45:L8:60:ARG:NH2	38:8:151:C:OP1	158.37	0.57
15:C3:114:ARG:HG3	80:6:952:A:O2'	298.89	0.57
44:L7:80:GLN:OE1	57:N1:136:ARG:HB2	4.55	0.57
46:L9:9:GLN:HG2	46:L9:54:LYS:HG2	3.52	0.57
47:M0:90:ARG:O	47:M0:91:VAL:HG23	2.70	0.57
49:M3:54:LEU:N	49:M3:94:GLY:O	2.53	0.57
60:N4:50:ALA:HA	60:N4:55:PHE:CD1	2.40	0.57
68:O2:24:ARG:HG2	68:O2:25:TYR:CZ	2.40	0.57
68:O2:37:GLY:HA2	85:5:640:U:OP1	183.17	0.57
71:O5:31:LEU:CD1	71:O5:47:VAL:HG11	2.35	0.57
78:Q2:40:LYS:HE3	78:Q2:44:ASP:OD2	2.70	0.57
5:S3:46:THR:N	5:S3:83:THR:O	2.97	0.57
8:S6:57:ASP:OD2	8:S6:60:GLY:N	3.97	0.57
36:1:221:A:O2'	36:1:224:C:N4	2.38	0.57
36:1:3361:G:O6	92:1:3694:OHX:N6	2.36	0.57
36:1:3128:G:OP2	92:1:3698:OHX:N2	2.37	0.57
1:2:1629:C:H2'	1:2:1630:U:C6	2.40	0.57
1:2:1720:G:N2	1:2:1721:U:C2	2.73	0.57
1:2:17:C:H2'	1:2:18:C:C6	2.39	0.57
1:2:485:A:H2'	1:2:486:G:O4'	2.05	0.57
37:3:80:G:O5'	37:3:80:G:H8	1.88	0.57
85:5:1093:A:C2	85:5:1096:U:O2	2.58	0.57
85:5:1265:U:H3	85:5:1276:U:H3	1.52	0.57
85:5:1299:U:H2'	85:5:1300:G:H8	1.70	0.57
85:5:2112:U:H4'	85:5:2113:A:O4'	2.04	0.57
85:5:2235:C:N4	85:5:2236:G:C6	2.73	0.57
41:L4:73:ARG:NH2	85:5:2814:G:OP1	171.96	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:4:U:H2'	85:5:5:G:C8	2.39	0.57
80:6:419:G:O6	80:6:420:A:C6	2.57	0.57
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.87	0.57
18:C6:47:LYS:HZ1	18:C6:114:ARG:HG2	1.68	0.57
1:2:1527:U:H4'	20:C8:132:ARG:NH2	2.19	0.57
24:D2:11:LEU:HD21	24:D2:37:PHE:CE1	2.39	0.57
27:D5:47:TYR:CZ	27:D5:51:LEU:HD11	2.94	0.57
29:D7:54:VAL:HG12	29:D7:63:LEU:HD12	2.29	0.57
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.68	0.57
44:L7:175:LYS:HD3	44:L7:176:TYR:CE1	4.85	0.57
47:M0:157:TYR:CE1	85:5:2836:C:H4'	312.07	0.57
53:M7:36:ILE:O	53:M7:39:TRP:CD1	2.95	0.57
58:N2:42:LYS:HB3	58:N2:45:GLY:O	2.04	0.57
58:N2:90:ARG:O	58:N2:92:TRP:N	2.94	0.57
1:2:1718:U:OP2	59:N3:32:ARG:NH1	2.37	0.57
79:Q3:42:CYS:SG	79:Q3:60:CYS:HB2	2.45	0.57
3:S1:229:MET:HA	3:S1:232:HIS:CG	2.39	0.57
8:S6:68:LEU:O	8:S6:69:LEU:HB2	2.03	0.57
10:S8:20:GLN:NE2	10:S8:22:ARG:O	4.60	0.57
11:S9:93:LEU:O	11:S9:96:VAL:HG22	2.30	0.57
34:SR:149:ASP:HB2	34:SR:175:ASP:HB3	2.18	0.57
36:1:1349:G:H2'	36:1:1350:A:C4	2.40	0.57
36:1:1563:C:O2	36:1:1577:G:N2	2.37	0.57
36:1:2403:G:N3	36:1:2405:C:C5	2.73	0.57
36:1:2557:A:H2	45:L8:38:GLN:HA	1.70	0.57
36:1:158:G:H1	36:1:263:C:H42	1.51	0.57
36:1:3088:G:H2'	36:1:3089:C:O4'	2.05	0.57
36:1:3343:G:H2'	36:1:3361:G:N2	2.20	0.57
1:2:1341:G:H2'	1:2:1342:C:H6	1.68	0.57
1:2:834:U:H2'	1:2:835:C:C6	2.40	0.57
85:5:1093:A:C2	85:5:1096:U:C2	2.92	0.57
85:5:2207:A:C8	85:5:2208:A:H1'	2.39	0.57
85:5:3041:U:C4	85:5:3042:U:C4	2.93	0.57
92:5:3534:OHX:N3	92:5:3580:OHX:N4	2.53	0.57
85:5:391:A:H2'	85:5:392:G:O4'	2.04	0.57
85:5:856:G:C6	85:5:857:G:N1	2.72	0.57
80:6:1394:G:H1	80:6:1404:C:H42	1.52	0.57
80:6:1494:C:H2'	80:6:1495:C:C6	2.40	0.57
20:C8:134:ARG:HB3	80:6:1559:A:C8	364.45	0.57
80:6:1699:G:H2'	80:6:1700:C:H5'	1.86	0.57
15:C3:151:ASN:O	92:C3:201:OHX:N6	2.66	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:110:ARG:NH2	20:C8:114:GLU:OE1	2.38	0.57
21:C9:26:GLY:O	21:C9:28:LEU:HG	2.05	0.57
39:L2:193:ARG:NH1	85:5:2174:G:OP2	190.74	0.57
40:L3:358:TRP:CZ3	60:N4:15:PRO:HD2	2.40	0.57
41:L4:8:VAL:HG21	41:L4:252:GLU:OE1	3.90	0.57
41:L4:257:LYS:O	41:L4:260:GLN:HB2	2.05	0.57
47:M0:4:ARG:HH11	85:5:2828:G:HO2'	264.79	0.57
51:M5:93:LYS:HG3	85:5:289:A:H2	146.63	0.57
56:N0:23:LYS:O	56:N0:24:LEU:HB2	2.04	0.57
57:N1:5:HIS:CE1	92:5:3652:OHX:N1	227.22	0.57
63:N7:53:VAL:HG11	63:N7:62:VAL:HG13	1.86	0.57
69:O3:77:ASN:HB2	85:5:1180:A:H5''	264.18	0.57
71:O5:53:CYS:O	71:O5:57:VAL:HG23	2.05	0.57
73:O7:48:ASN:HA	73:O7:54:LYS:NZ	2.79	0.57
6:S4:42:LEU:HD12	6:S4:109:PHE:CD2	3.58	0.57
7:S5:104:ASN:OD1	80:6:1587:A:O2'	364.40	0.57
9:S7:89:HIS:ND1	9:S7:168:SER:OG	3.75	0.57
10:S8:5:ARG:N	10:S8:28:GLU:O	2.78	0.57
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	1.87	0.57
36:1:1238:C:H41	36:1:1245:A:P	2.27	0.57
36:1:2218:G:H2'	36:1:2219:A:H8	1.69	0.57
36:1:2227:C:H2'	36:1:2228:A:H8	1.70	0.57
36:1:1829:G:O6	92:1:3547:OHX:N6	2.37	0.57
36:1:370:U:OP1	92:1:3651:OHX:N4	2.38	0.57
36:1:600:G:N2	36:1:604:G:C5	2.72	0.57
36:1:929:A:H2'	36:1:930:U:C6	2.39	0.57
1:2:1115:A:H2'	1:2:1116:A:C8	2.38	0.57
1:2:1208:U:H2'	1:2:1209:A:O4'	2.05	0.57
1:2:1155:G:H4'	1:2:1552:A:H2	1.70	0.57
1:2:998:U:OP1	92:2:1922:OHX:N3	2.37	0.57
1:2:700:C:H42	1:2:703:G:H22	1.52	0.57
1:2:758:G:O6	26:D4:11:LYS:NZ	2.29	0.57
85:5:1250:G:H2'	85:5:1251:A:C8	2.40	0.57
85:5:1660:C:H2'	85:5:1661:G:O4'	2.05	0.57
85:5:2108:C:H1'	85:5:3344:A:N3	2.18	0.57
85:5:2147:A:H2'	85:5:2148:U:C6	2.39	0.57
85:5:2211:U:H2'	85:5:2212:C:O4'	2.04	0.57
85:5:819:U:H6	85:5:819:U:O5'	1.88	0.57
8:S6:132:ARG:NH1	80:6:149:C:O2'	332.27	0.57
80:6:1557:U:OP2	80:6:1559:A:O2'	2.21	0.57
80:6:1636:C:C2	80:6:1765:A:N6	2.72	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:128:TYR:O	15:C3:131:THR:N	2.68	0.57
16:C4:54:GLU:CD	80:6:901:G:H22	282.09	0.57
23:D1:5:LYS:O	23:D1:7:GLN:N	3.01	0.57
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.86	0.57
32:E0:50:VAL:O	32:E0:52:GLY:N	2.38	0.57
40:L3:290:ASP:CG	40:L3:292:ALA:H	6.05	0.57
41:L4:329:PRO:C	41:L4:331:ALA:H	2.65	0.57
47:M0:3:ARG:HH12	47:M0:6:ALA:HB2	1.68	0.57
59:N3:74:MET:HG3	59:N3:75:PRO:O	2.80	0.57
61:N5:38:LEU:HD22	61:N5:40:LEU:HD13	2.72	0.57
36:1:1073:U:H1'	65:N9:50:THR:HB	1.86	0.57
69:O3:73:ARG:NH2	69:O3:82:ARG:NH2	2.53	0.57
71:O5:88:LEU:C	71:O5:90:ARG:N	2.58	0.57
75:O9:48:LYS:O	92:5:3712:OHX:N4	116.27	0.57
64:N8:59:ARG:NH2	78:Q2:38:GLN:OE1	2.33	0.57
2:S0:195:TRP:CE2	2:S0:197:ILE:HD13	5.00	0.57
6:S4:128:LYS:O	6:S4:140:VAL:HG13	3.49	0.57
6:S4:46:VAL:O	6:S4:50:ASN:HB2	2.04	0.57
10:S8:52:ASN:OD1	92:6:1988:OHX:N3	308.30	0.57
10:S8:36:THR:HB	10:S8:57:ALA:O	2.17	0.57
36:1:1564:U:H2'	36:1:1565:G:H8	1.68	0.57
36:1:2366:C:H2'	36:1:2367:A:H8	1.68	0.57
36:1:2737:C:OP1	57:N1:69:LYS:HB3	2.05	0.57
36:1:3328:G:C2	36:1:3329:U:H1'	2.39	0.57
36:1:2724:U:O4	92:1:3446:OHX:N2	2.38	0.57
92:1:3511:OHX:N5	92:1:3690:OHX:N2	2.53	0.57
36:1:542:G:O6	92:1:3731:OHX:N2	2.38	0.57
1:2:1365:A:H5''	22:D0:60:THR:HG22	1.86	0.57
1:2:361:C:H2'	1:2:362:G:C8	2.40	0.57
51:M5:75:VAL:O	85:5:2166:A:H5'	158.33	0.57
85:5:252:U:H4'	85:5:253:A:H5''	1.86	0.57
8:S6:176:GLN:HG2	80:6:169:A:H5''	327.84	0.57
80:6:1158:C:OP2	92:6:1994:OHX:N3	2.37	0.57
80:6:755:A:HO2'	80:6:756:A:H8	1.51	0.57
38:8:82:U:O5'	92:8:216:OHX:N2	2.38	0.57
16:C4:25:ASP:HA	16:C4:54:GLU:O	2.04	0.57
33:E1:144:CYS:HB3	33:E1:147:VAL:HG23	3.04	0.57
40:L3:130:PHE:CE1	85:5:3149:G:H4'	220.93	0.57
45:L8:101:THR:HG22	45:L8:104:GLU:CG	2.34	0.57
36:1:2529:A:OP1	45:L8:248:LYS:NZ	2.37	0.57
48:M1:92:ARG:HH21	48:M1:94:ARG:HD2	7.90	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:164:GLU:O	49:M3:165:SER:HB3	2.04	0.57
51:M5:60:VAL:O	51:M5:61:ILE:HD13	2.05	0.57
51:M5:85:THR:C	51:M5:87:GLN:N	3.18	0.57
54:M8:86:THR:HG22	54:M8:105:ARG:HD2	1.87	0.57
56:N0:6:GLU:OE1	56:N0:99:ARG:NH2	2.58	0.57
70:O4:71:THR:HG23	70:O4:78:GLY:H	1.70	0.57
71:O5:101:THR:HG22	71:O5:104:GLN:HB2	3.31	0.57
72:O6:73:ALA:O	72:O6:76:ARG:N	3.19	0.57
74:O8:44:LYS:HB3	74:O8:51:LEU:HD11	1.86	0.57
9:S7:51:VAL:HG12	9:S7:53:GLY:H	1.71	0.57
36:1:1230:G:H1	36:1:1279:C:N4	2.01	0.56
36:1:1608:C:H2'	36:1:1609:C:C6	2.40	0.56
92:1:3511:OHX:N1	92:1:3690:OHX:N2	2.53	0.56
37:3:14:U:H5'	42:L5:24:ARG:HH11	1.70	0.56
37:3:5:G:C2	37:3:117:A:C2	2.93	0.56
38:4:53:A:C2	75:O9:35:ILE:HD11	2.40	0.56
85:5:1045:C:H6	85:5:1045:C:H5''	1.69	0.56
85:5:1782:U:H2'	85:5:1783:U:H6	1.70	0.56
92:5:3522:OHX:N3	92:5:3721:OHX:N4	2.53	0.56
85:5:576:C:H2'	85:5:577:C:C6	2.39	0.56
85:5:630:A:O5'	85:5:630:A:H8	1.88	0.56
80:6:1122:G:N2	80:6:1125:A:OP2	2.37	0.56
6:S4:66:MET:HE3	80:6:454:U:H5'	367.66	0.56
80:6:840:U:H2'	80:6:841:U:H6	1.69	0.56
80:6:899:G:H2'	80:6:900:A:C8	2.39	0.56
40:L3:56:ILE:HG23	40:L3:57:VAL:N	2.55	0.56
41:L4:115:HIS:CG	41:L4:119:ARG:HH12	4.91	0.56
41:L4:151:VAL:HG13	41:L4:250:TRP:O	2.06	0.56
41:L4:251:THR:O	41:L4:253:ALA:N	3.36	0.56
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	1.96	0.56
44:L7:65:ALA:HB1	44:L7:76:TYR:CD1	3.12	0.56
46:L9:9:GLN:HG2	46:L9:54:LYS:CG	4.34	0.56
47:M0:29:SER:OG	47:M0:31:ILE:O	3.03	0.56
53:M7:27:LYS:HD3	53:M7:63:PHE:HB3	1.87	0.56
56:N0:2:ALA:HB3	56:N0:32:SER:CB	2.35	0.56
59:N3:25:CYS:SG	59:N3:27:ASP:OD2	3.32	0.56
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.21	0.56
64:N8:85:ASP:OD2	64:N8:86:LYS:HG3	4.41	0.56
70:O4:104:VAL:HA	70:O4:107:GLU:OE2	2.05	0.56
4:S2:188:LEU:HD13	4:S2:196:VAL:HG11	1.87	0.56
5:S3:164:VAL:O	5:S3:168:ILE:HG12	3.64	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:64:ARG:O	5:S3:66:ILE:N	2.38	0.56
7:S5:70:VAL:HG23	7:S5:72:HIS:H	3.03	0.56
8:S6:14:LYS:HB3	8:S6:124:LEU:HD13	2.44	0.56
8:S6:64:LYS:HD2	8:S6:97:VAL:HG21	3.37	0.56
8:S6:67:VAL:O	8:S6:68:LEU:HB2	2.22	0.56
9:S7:78:THR:HA	9:S7:81:LEU:HB2	1.87	0.56
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.38	0.56
36:1:1488:G:C2	36:1:1489:A:C8	2.93	0.56
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.38	0.56
36:1:1658:G:H2'	36:1:1659:U:C6	2.40	0.56
36:1:2236:G:OP1	92:1:3652:OHX:N6	2.38	0.56
36:1:2514:U:OP1	36:1:2514:U:H6	1.88	0.56
36:1:3029:A:C5	36:1:3030:G:H1'	2.39	0.56
36:1:3062:G:H1	36:1:3081:C:H42	1.52	0.56
36:1:3322:A:H2'	36:1:3323:A:C8	2.40	0.56
92:1:3511:OHX:N3	92:1:3690:OHX:N4	2.53	0.56
1:2:1229:C:OP2	92:2:2035:OHX:N4	2.39	0.56
1:2:478:A:OP1	32:E0:37:ARG:NH1	2.38	0.56
1:2:602:U:H2'	1:2:603:U:C6	2.40	0.56
1:2:778:U:C5	1:2:779:A:C8	2.92	0.56
85:5:1684:U:H2'	85:5:1685:C:C6	2.41	0.56
85:5:1724:U:H1'	85:5:1725:C:C6	2.39	0.56
85:5:2197:C:C6	85:5:2241:U:C5	2.93	0.56
85:5:278:U:H2'	85:5:279:U:C6	2.39	0.56
85:5:2997:G:O4'	85:5:3396:U:H5'	2.06	0.56
85:5:3354:U:H4'	85:5:3355:U:H5''	1.85	0.56
80:6:1000:C:N4	80:6:1003:A:OP2	2.25	0.56
80:6:1350:U:H2'	80:6:1351:G:C8	2.40	0.56
80:6:152:U:C2	80:6:163:G:N2	2.72	0.56
9:S7:96:ARG:HB3	80:6:856:A:N6	364.43	0.56
38:8:103:G:H5''	38:8:104:A:OP2	2.03	0.56
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	1.86	0.56
18:C6:115:THR:O	18:C6:117:LEU:N	3.97	0.56
18:C6:97:VAL:HG23	18:C6:98:ASP:H	3.09	0.56
24:D2:10:ALA:HB1	24:D2:27:ILE:HD12	1.86	0.56
24:D2:29:PRO:HB2	24:D2:58:SER:HB2	1.85	0.56
28:D6:6:ALA:HB3	80:6:1796:C:H5	346.41	0.56
33:E1:106:TYR:HE2	33:E1:116:LYS:HG2	1.70	0.56
40:L3:44:THR:O	40:L3:45:SER:HB3	2.05	0.56
41:L4:328:ASN:OD1	44:L7:48:ASN:ND2	2.32	0.56
42:L5:88:ILE:HD12	42:L5:240:TYR:CD1	4.37	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:83:LEU:HD23	44:L7:84:VAL:H	3.36	0.56
44:L7:99:PRO:O	44:L7:100:ARG:C	2.79	0.56
45:L8:81:THR:OG1	45:L8:181:LYS:HB2	2.29	0.56
47:M0:35:ASP:CG	47:M0:88:ARG:HG3	3.41	0.56
48:M1:26:SER:OG	48:M1:27:GLY:N	2.38	0.56
53:M7:108:ASP:O	53:M7:110:THR:N	2.50	0.56
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.36	0.56
56:N0:124:LEU:HD23	57:N1:153:PRO:HB2	2.72	0.56
58:N2:95:PHE:HE1	58:N2:103:TYR:CD1	5.74	0.56
63:N7:30:ASP:OD2	63:N7:77:TYR:OH	5.65	0.56
2:S0:109:ASN:HB2	80:6:1294:G:H4'	413.29	0.56
2:S0:48:ILE:HD13	2:S0:161:PRO:HB2	3.39	0.56
6:S4:121:TYR:HA	6:S4:163:ASP:O	4.28	0.56
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.70	0.56
34:SR:202:LEU:HB2	34:SR:213:SER:HB3	1.87	0.56
36:1:1235:U:H4'	36:1:1236:G:H5'	1.87	0.56
36:1:1818:U:H2'	36:1:1819:U:O4'	2.04	0.56
36:1:2174:G:OP1	36:1:2174:G:H8	1.89	0.56
36:1:303:G:O2'	36:1:2778:G:OP2	2.20	0.56
36:1:3009:G:C6	36:1:3010:U:C4	2.93	0.56
36:1:3083:G:H2'	36:1:3084:C:H6	1.70	0.56
92:1:3590:OHX:N3	92:3:204:OHX:N6	2.52	0.56
36:1:638:C:H2'	36:1:639:G:C8	2.40	0.56
36:1:672:A:O2'	36:1:673:U:H5'	2.05	0.56
1:2:1074:A:H4'	1:2:1075:A:O5'	2.05	0.56
1:2:1388:G:H2'	1:2:1389:A:C8	2.39	0.56
1:2:1631:A:H2'	1:2:1632:G:C8	2.41	0.56
1:2:64:U:O2'	1:2:168:A:N3	2.37	0.56
1:2:615:A:H2'	1:2:616:G:H8	1.70	0.56
1:2:715:G:O2'	1:2:716:A:O4'	2.18	0.56
38:4:85:G:H3'	38:4:85:G:C8	2.40	0.56
85:5:1595:U:C2	85:5:1596:C:C5	2.93	0.56
85:5:2533:G:H2'	85:5:2534:G:C8	2.40	0.56
85:5:2698:G:H2'	85:5:2699:G:H8	1.70	0.56
85:5:3155:U:C4	92:5:3730:OHX:N3	2.73	0.56
85:5:1059:G:OP2	92:5:3646:OHX:N3	2.39	0.56
85:5:441:U:H1'	85:5:492:U:O2	2.05	0.56
85:5:734:C:H2'	85:5:735:A:H8	1.69	0.56
80:6:976:G:O6	92:6:1934:OHX:N6	2.39	0.56
38:8:132:G:C6	38:8:133:G:N7	2.73	0.56
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:91:LEU:HD12	15:C3:125:LEU:HD12	2.44	0.56
15:C3:63:ALA:O	15:C3:67:THR:OG1	2.47	0.56
24:D2:83:ILE:HG13	24:D2:122:SER:HB2	5.06	0.56
29:D7:19:HIS:CD2	29:D7:21:LEU:H	4.57	0.56
40:L3:218:ILE:HG13	40:L3:276:THR:HG23	2.89	0.56
40:L3:25:ILE:H	40:L3:25:ILE:CD1	2.05	0.56
47:M0:77:THR:HG23	47:M0:85:PHE:HZ	1.70	0.56
50:M4:19:ARG:HB3	50:M4:35:ILE:HD12	1.87	0.56
52:M6:127:LEU:HD22	56:N0:156:VAL:HG23	1.87	0.56
56:N0:98:SER:HG	56:N0:100:VAL:H	1.49	0.56
57:N1:15:PHE:CE2	57:N1:44:ALA:HB3	2.39	0.56
60:N4:50:ALA:HA	60:N4:55:PHE:CG	2.98	0.56
62:N6:120:GLN:HE22	62:N6:126:LEU:CA	8.22	0.56
54:M8:94:PHE:CZ	64:N8:119:PRO:HD3	2.96	0.56
64:N8:74:ASN:HB3	64:N8:115:LYS:H	1.70	0.56
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	2.64	0.56
77:Q1:11:ARG:NH2	80:6:1127:G:OP1	292.84	0.56
7:S5:32:GLU:HA	7:S5:35:GLN:HB3	1.87	0.56
7:S5:36:ALA:HB1	7:S5:42:LEU:HD21	1.88	0.56
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	1.87	0.56
34:SR:90:ARG:HE	34:SR:102:ARG:HE	2.49	0.56
36:1:1613:A:H2'	36:1:1614:C:C6	2.40	0.56
36:1:2376:G:C6	36:1:2377:G:O6	2.59	0.56
36:1:2767:U:O4	92:1:3571:OHX:N6	2.39	0.56
36:1:3170:A:H61	36:1:3280:U:H3	1.52	0.56
36:1:616:G:H2'	36:1:617:G:C8	2.38	0.56
1:2:1274:G:N2	1:2:1307:G:H22	2.03	0.56
92:2:1921:OHX:N1	92:2:2040:OHX:N4	2.53	0.56
85:5:138:U:H2'	85:5:139:G:C8	2.40	0.56
85:5:2612:U:H2'	85:5:2613:U:O4'	2.05	0.56
85:5:3236:U:H1'	85:5:3252:G:N2	2.20	0.56
85:5:3317:U:O2'	85:5:3318:G:OP2	2.14	0.56
85:5:1404:G:O6	92:5:3588:OHX:N3	2.39	0.56
85:5:499:G:H8	85:5:499:G:O5'	1.88	0.56
49:M3:100:ARG:NH1	85:5:76:G:O2'	84.46	0.56
80:6:1674:C:N3	80:6:1727:G:N2	2.46	0.56
10:S8:58:LEU:HD21	80:6:1676:U:H5''	269.79	0.56
80:6:1688:U:H3	80:6:1713:G:H1	1.53	0.56
80:6:1756[A]:A:H8	80:6:1756[A]:A:O5'	1.88	0.56
80:6:833:U:OP2	92:6:2018:OHX:N5	2.38	0.56
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:37:ALA:O	17:C5:42:ARG:NH1	2.89	0.56
31:D9:21:CYS:O	31:D9:23:VAL:N	3.27	0.56
33:E1:134:ASN:OD1	33:E1:139:LEU:HD11	4.29	0.56
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.04	0.56
43:L6:18:LEU:O	85:5:592:A:H4'	216.22	0.56
47:M0:200:LEU:HA	47:M0:213:PHE:CE1	3.01	0.56
47:M0:76:MET:HE1	47:M0:148:VAL:CA	4.26	0.56
36:1:1307:G:H5''	52:M6:60:LYS:HE3	1.87	0.56
56:N0:57:GLU:OE2	57:N1:139:ARG:NE	3.72	0.56
59:N3:35:TYR:HB2	59:N3:63:LYS:HD3	1.87	0.56
62:N6:120:GLN:CD	62:N6:126:LEU:HA	7.54	0.56
62:N6:5:SER:OG	62:N6:7:ASP:N	2.30	0.56
72:O6:10:GLY:O	72:O6:13:LYS:HB2	2.05	0.56
2:S0:14:ALA:HA	2:S0:17:LEU:HD12	2.26	0.56
3:S1:144:ARG:HH11	3:S1:202:LYS:HE2	7.27	0.56
5:S3:142:LEU:O	5:S3:144:ALA:N	2.38	0.56
6:S4:31:PRO:HG2	6:S4:38:LEU:HB2	5.13	0.56
9:S7:20:VAL:O	9:S7:24:PHE:N	2.85	0.56
9:S7:63:PRO:O	9:S7:64:VAL:HB	2.05	0.56
36:1:1110:U:OP1	54:M8:164:ARG:NH2	2.31	0.56
36:1:1278:A:O2'	36:1:1279:C:O5'	2.23	0.56
36:1:1184:A:C2	36:1:1323:G:C5	2.93	0.56
36:1:2144:A:C2	36:1:2281:A:C5	2.93	0.56
36:1:2766:U:N3	36:1:2767:U:C4	2.73	0.56
1:2:1211:G:OP2	14:C2:119:SER:HB3	2.06	0.56
92:2:1972:OHX:N3	92:2:1986:OHX:N1	2.52	0.56
1:2:320:U:H3'	1:2:321:C:C5'	2.30	0.56
37:3:77:G:N2	37:3:102:A:OP2	2.27	0.56
39:L2:174:ARG:HH22	85:5:2180:G:P	211.32	0.56
85:5:223:U:O4	92:5:3744:OHX:N4	2.38	0.56
85:5:2631:U:C2	85:5:2632:G:C8	2.94	0.56
85:5:2898:G:H5''	85:5:2899:C:H5'	1.87	0.56
85:5:3207:U:H3'	85:5:3209:A:H2	1.71	0.56
85:5:65:A:H4'	85:5:66:A:O5'	2.06	0.56
80:6:1738:U:O4	92:6:1917:OHX:N5	2.38	0.56
8:S6:186:ARG:HD3	80:6:268:C:H41	341.67	0.56
13:C1:53:TYR:CE2	13:C1:113:PRO:HG2	2.41	0.56
14:C2:126:TRP:O	14:C2:128:ALA:N	2.39	0.56
21:C9:6:VAL:HG13	21:C9:66:TYR:CE1	2.40	0.56
40:L3:84:VAL:HB	40:L3:162:VAL:HB	2.58	0.56
44:L7:96:PRO:O	44:L7:99:PRO:HD2	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.06	0.56
51:M5:182:ASN:O	51:M5:183:THR:HG22	3.76	0.56
57:N1:79:MET:HA	57:N1:84:TYR:HA	1.87	0.56
61:N5:59:SER:HB3	61:N5:98:ALA:HB1	1.85	0.56
49:M3:161:ASP:OD1	64:N8:139:ARG:NH1	3.32	0.56
65:N9:28:LYS:N	85:5:1065:A:C2	211.28	0.56
78:Q2:32:LYS:O	78:Q2:33:ALA:HB3	4.54	0.56
6:S4:122:LYS:NZ	6:S4:143:ASP:OD1	3.73	0.56
7:S5:97:LEU:O	7:S5:99:MET:N	2.64	0.56
8:S6:27:PHE:HE1	8:S6:36:VAL:HG11	1.68	0.56
11:S9:170:GLY:O	11:S9:174:ARG:HG3	3.06	0.56
36:1:1033:U:H2'	36:1:1034:U:C6	2.40	0.56
36:1:1743:G:C2	36:1:1744:G:C8	2.93	0.56
36:1:1859:A:C2	36:1:1860:G:C8	2.93	0.56
36:1:3185:U:C5	52:M6:126:VAL:HG21	2.40	0.56
36:1:3:U:H2'	36:1:4:U:C6	2.39	0.56
36:1:562:C:H2'	36:1:563:U:H6	1.70	0.56
36:1:860:G:C6	39:L2:181:LYS:HB2	2.41	0.56
37:3:7:G:OP2	42:L5:28:THR:OG1	2.23	0.56
38:4:97:A:OP1	71:O5:63:ARG:NH2	2.27	0.56
85:5:1387:G:C2	85:5:1388:U:C5	2.94	0.56
85:5:2357:A:H2'	85:5:2358:A:C8	2.40	0.56
85:5:3342:A:N6	85:5:3343:G:C6	2.74	0.56
85:5:335:G:N2	85:5:336:A:H1'	2.20	0.56
92:5:3481:OHX:N1	92:5:3702:OHX:N1	2.54	0.56
80:6:1271:G:H2'	80:6:1272:U:H6	1.71	0.56
17:C5:122:THR:HG22	80:6:1558:U:H3	365.82	0.56
80:6:163:G:O5'	80:6:163:G:H8	1.89	0.56
80:6:938:G:N7	92:6:1960:OHX:N3	2.53	0.56
80:6:206:A:H1'	80:6:262:U:C2	2.41	0.56
80:6:265:A:C2	80:6:267:U:C4	2.94	0.56
38:8:56:G:H2'	38:8:57:C:C6	2.40	0.56
12:C0:30:ALA:O	12:C0:38:LYS:HA	2.06	0.56
16:C4:81:VAL:HG13	16:C4:115:ILE:HG23	3.28	0.56
17:C5:29:SER:OG	17:C5:31:GLU:HG3	2.05	0.56
42:L5:91:GLY:O	42:L5:94:ASN:ND2	3.28	0.56
44:L7:89:ILE:O	44:L7:111:ILE:HD11	2.06	0.56
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.39	0.56
51:M5:105:ARG:NH1	85:5:1545:A:N7	134.44	0.56
60:N4:55:PHE:O	60:N4:57:LYS:N	3.47	0.56
36:1:190:U:C4	62:N6:60:ARG:NH1	2.73	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:34:LEU:HD11	66:O0:42:ILE:HG21	1.87	0.56
68:O2:7:PRO:O	68:O2:8:LYS:C	2.56	0.56
6:S4:246:LEU:HB3	6:S4:250:GLU:HB2	1.86	0.56
7:S5:121:ILE:HD11	7:S5:198:LEU:HD12	1.87	0.56
8:S6:1:MET:HG2	8:S6:24:ILE:HD13	1.86	0.56
36:1:1791:C:N3	36:1:1792:C:N4	2.53	0.56
36:1:1806:A:N6	36:1:1807:G:C2	2.73	0.56
36:1:2747:A:H5'	42:L5:175:HIS:HA	1.88	0.56
36:1:2767:U:OP2	92:1:3670:OHX:N2	2.38	0.56
36:1:3020:U:O4	92:1:3523:OHX:N2	2.38	0.56
36:1:372:A:H2'	36:1:373:A:C8	2.41	0.56
36:1:812:G:C2	36:1:929:A:C2	2.94	0.56
1:2:1421:G:C2	1:2:1422:C:C2	2.93	0.56
1:2:1481:G:H5''	21:C9:72:GLY:HA3	1.88	0.56
1:2:1640:U:H1'	1:2:1641:G:OP2	2.05	0.56
1:2:310:C:N3	1:2:357:G:C2	2.73	0.56
1:2:477:A:OP1	32:E0:30:PRO:HA	2.05	0.56
38:4:82:U:O2	38:4:83:C:C5	2.59	0.56
85:5:1080:A:O2'	85:5:1081:U:H5'	2.04	0.56
85:5:2560:C:O2	92:5:3532:OHX:N2	2.38	0.56
85:5:438:A:H2'	85:5:494:G:H21	1.71	0.56
80:6:119:A:H1'	80:6:397:A:C5	2.40	0.56
80:6:1779:U:H2'	80:6:1781:A:OP2	2.06	0.56
80:6:207:U:H3	80:6:258:C:H42	1.54	0.56
80:6:761:G:O6	92:6:1938:OHX:N1	2.38	0.56
12:C0:29:GLN:HB3	12:C0:39:ASN:HB2	1.88	0.56
15:C3:61:THR:O	15:C3:62:GLN:HG2	2.05	0.56
21:C9:16:ASN:HA	21:C9:56:LYS:NZ	2.88	0.56
23:D1:15:ARG:NH1	23:D1:33:GLN:OE1	2.35	0.56
26:D4:22:GLN:HB2	26:D4:72:PHE:HE1	1.71	0.56
30:D8:64:ARG:CZ	30:D8:65:ARG:HB3	7.28	0.56
42:L5:270:LYS:HG2	37:7:2:G:H5'	319.15	0.56
42:L5:51:LEU:HD23	42:L5:146:LEU:HD23	1.86	0.56
44:L7:76:TYR:CE2	44:L7:78:GLU:HA	2.41	0.56
46:L9:5:GLN:C	46:L9:6:THR:HG22	3.69	0.56
46:L9:88:TYR:CE2	46:L9:155:SER:HB3	3.48	0.56
47:M0:51:HIS:CD2	47:M0:168:SER:HB3	3.76	0.56
49:M3:79:GLU:O	49:M3:116:LEU:HD12	2.68	0.56
36:1:685:G:P	49:M3:35:ARG:NH1	2.78	0.56
61:N5:113:LEU:HD12	61:N5:114:VAL:C	2.26	0.56
64:N8:70:LYS:N	64:N8:71:PRO:HD3	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:7:HIS:ND1	65:N9:8:THR:N	3.06	0.56
68:O2:85:LEU:HB2	68:O2:117:ILE:HD13	1.86	0.56
45:L8:172:LYS:HD3	72:O6:39:PHE:HE1	4.62	0.56
9:S7:74:GLN:HE22	9:S7:92:PHE:HB2	1.71	0.56
36:1:121:A:C4	45:L8:108:ARG:NH1	2.73	0.56
97:1:3403:SPS:C6	98:P:101:8AN:O5'	2.54	0.56
36:1:68:C:O2	36:1:68:C:H2'	2.05	0.56
36:1:852:U:H2'	36:1:853:G:H8	1.71	0.56
1:2:1169:U:OP2	1:2:1439:C:H1'	2.06	0.56
1:2:1282:G:H2'	1:2:1283:A:C8	2.40	0.56
1:2:1327:A:N6	1:2:1360:U:O2'	2.30	0.56
1:2:327:U:H2'	1:2:328:A:H8	1.71	0.56
85:5:1110:U:O4	92:5:3493:OHX:N4	2.39	0.56
85:5:1899:G:O2'	85:5:2334:U:O4	2.19	0.56
85:5:3166:C:H42	85:5:3284:G:H1	1.52	0.56
62:N6:89:LYS:HZ3	85:5:375:A:C5'	78.73	0.56
80:6:1054:U:O4	92:6:2058:OHX:N4	2.39	0.56
92:6:2034:OHX:N3	92:6:2058:OHX:N4	2.54	0.56
80:6:486:G:H22	80:6:501:U:H3	1.53	0.56
80:6:85:A:N6	80:6:86:A:C6	2.74	0.56
20:C8:110:ARG:O	20:C8:114:GLU:HG2	2.90	0.56
40:L3:255:TRP:HB3	85:5:2941:A:OP1	224.87	0.56
47:M0:38:LYS:CG	47:M0:41:ALA:HB2	2.86	0.56
49:M3:64:LYS:CG	64:N8:69:TRP:CD1	2.87	0.56
50:M4:21:VAL:CG2	50:M4:65:LEU:HD23	2.36	0.56
57:N1:34:TYR:CE1	57:N1:98:HIS:CD2	2.94	0.56
58:N2:9:GLN:C	58:N2:10:LYS:HD2	2.26	0.56
59:N3:10:LYS:NZ	59:N3:56:ASP:OD1	2.37	0.56
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.16	0.56
70:O4:96:GLU:O	70:O4:99:LYS:HB2	2.97	0.56
76:Q0:88:LYS:HD2	76:Q0:89:TYR:CE2	2.41	0.56
2:S0:154:GLU:O	2:S0:156:VAL:HG13	2.39	0.56
3:S1:121:ILE:HG12	3:S1:161:ILE:HG23	1.88	0.56
4:S2:143:TYR:OH	4:S2:150:GLN:N	2.38	0.56
8:S6:199:GLN:O	8:S6:203:GLU:HG2	2.98	0.56
34:SR:161:ALA:HB3	34:SR:164:ASP:HB3	1.87	0.56
36:1:170:G:H1	36:1:248:U:H3	1.54	0.56
36:1:2767:U:H2'	36:1:2768:U:C6	2.41	0.56
36:1:3166:C:H2'	36:1:3167:A:O4'	2.06	0.56
36:1:543:C:C4	36:1:544:C:C2	2.94	0.56
36:1:655:C:H2'	36:1:656:A:C8	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1542:A:C6	20:C8:134:ARG:HD2	2.40	0.56
1:2:590:C:H5''	32:E0:43:ARG:HH12	1.71	0.56
85:5:1524:A:C2	85:5:1527:C:C6	2.93	0.56
85:5:2101:C:H2'	85:5:2102:U:C6	2.41	0.56
85:5:3177:G:O2'	85:5:3179:U:OP1	2.11	0.56
85:5:3326:G:H2'	85:5:3327:G:C8	2.40	0.56
80:6:1784:C:H2'	80:6:1785:U:H6	1.71	0.56
80:6:320:U:C5	80:6:322:G:H5''	2.41	0.56
80:6:485:A:C5	80:6:486:G:H1'	2.41	0.56
11:S9:72:GLU:OE1	80:6:761:G:H4'	397.41	0.56
80:6:778:G:H22	80:6:780:A:H5'	1.71	0.56
15:C3:13:SER:OG	15:C3:14:SER:N	2.38	0.56
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	1.87	0.56
20:C8:108:LYS:HA	20:C8:111:ASP:HB2	1.88	0.56
40:L3:111:SER:O	40:L3:115:LYS:HG3	2.45	0.56
42:L5:76:ALA:HB2	42:L5:109:THR:HG22	1.86	0.56
47:M0:128:ARG:HG2	47:M0:128:ARG:HH11	1.71	0.56
50:M4:101:LYS:O	50:M4:105:GLN:N	2.51	0.56
57:N1:41:ASP:OD1	57:N1:41:ASP:N	3.09	0.56
59:N3:131:SER:O	59:N3:133:SER:N	2.35	0.56
61:N5:91:ASN:OD1	61:N5:94:GLN:NE2	2.24	0.56
62:N6:16:ARG:O	62:N6:20:PHE:HD2	2.03	0.56
63:N7:2:ALA:O	63:N7:4:PHE:N	2.93	0.56
72:O6:26:ILE:C	72:O6:28:TYR:N	2.59	0.56
75:O9:33:ASN:ND2	75:O9:35:ILE:O	3.04	0.56
4:S2:49:LYS:HB3	4:S2:243:TYR:CD2	2.59	0.56
6:S4:192:ILE:HD13	6:S4:238:LEU:HD22	2.47	0.56
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.86	0.56
36:1:2224:A:N1	36:1:2783:U:O2'	2.33	0.56
36:1:2535:A:N6	36:1:2544:U:H3	2.04	0.56
36:1:366:A:H5''	36:1:367:A:OP2	2.06	0.56
1:2:1640:U:C6	92:2:1966:OHX:N5	2.67	0.56
1:2:1777:A:H1'	28:D6:79:ILE:HD12	1.88	0.56
1:2:358:U:O2'	1:2:360:A:H5''	2.06	0.56
1:2:603:U:H2'	1:2:604:A:C8	2.40	0.56
1:2:807:G:N2	1:2:832:C:O2	2.38	0.56
85:5:1464:G:N7	92:5:3477:OHX:N3	2.54	0.56
85:5:956:U:H2'	85:5:957:C:C6	2.41	0.56
80:6:1087:A:H5'	80:6:1298:U:O4	2.06	0.56
80:6:1564:U:H2'	80:6:1565:C:C6	2.40	0.56
30:D8:31:GLU:OE2	30:D8:36:THR:OG1	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:6:ARG:HH12	39:L2:199:THR:H	2.34	0.56
39:L2:79:ASN:HD21	39:L2:114:SER:HB3	2.82	0.56
39:L2:83:HIS:NE2	39:L2:86:GLN:HB2	2.21	0.56
36:1:1101:G:H5''	44:L7:107:ARG:HD3	1.87	0.56
45:L8:165:PHE:H	45:L8:165:PHE:HD1	1.95	0.56
45:L8:42:PRO:CG	45:L8:44:ARG:HE	5.59	0.56
50:M4:40:ASP:C	50:M4:40:ASP:OD1	2.45	0.56
58:N2:11:ILE:O	58:N2:68:THR:HG22	6.06	0.56
63:N7:24:VAL:HG11	63:N7:87:LEU:HD23	1.87	0.56
76:Q0:93:LYS:HD3	76:Q0:105:PRO:HD3	5.66	0.56
3:S1:36:SER:HB3	3:S1:231:LEU:HD22	1.88	0.56
8:S6:2:LYS:HB3	8:S6:108:VAL:HG12	4.80	0.56
9:S7:150:GLN:HB2	9:S7:181:ILE:HD12	1.87	0.56
9:S7:35:LYS:HZ2	9:S7:39:ARG:HD2	1.71	0.56
34:SR:24:ALA:HB3	34:SR:34:LEU:HB3	1.87	0.56
34:SR:31:ASN:HA	34:SR:47:LEU:HD12	3.92	0.56
36:1:1062:A:H5''	36:1:1063:G:H5'	1.88	0.56
36:1:2108:C:O2'	36:1:3362:A:N6	2.39	0.56
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.20	0.56
36:1:3324:C:OP2	67:O1:18:LYS:NZ	2.34	0.56
36:1:1033:U:O4	92:1:3591:OHX:N5	2.38	0.56
36:1:409:A:H61	38:4:15:G:H1'	1.69	0.56
36:1:412:G:C6	36:1:413:U:C4	2.94	0.56
1:2:1333:U:H2'	1:2:1334:G:C8	2.41	0.56
1:2:849:G:OP1	15:C3:2:GLY:HA2	2.06	0.56
38:4:150:G:C8	92:4:208:OHX:N4	2.74	0.56
85:5:3060:C:H2'	85:5:3061:G:O4'	2.06	0.56
85:5:80:G:H2'	85:5:81:C:C6	2.41	0.56
80:6:1060:U:H4'	80:6:1061:A:H5''	1.88	0.56
80:6:1087:A:H2'	80:6:1088:A:H8	1.68	0.56
80:6:576:G:H4'	80:6:580:A:C4	2.41	0.56
80:6:74:U:C4	80:6:76:A:C5'	2.89	0.56
18:C6:22:VAL:HG22	18:C6:65:ILE:HG23	2.80	0.56
20:C8:41:ARG:NE	21:C9:46:PRO:HG3	3.62	0.56
24:D2:26:LEU:HD12	24:D2:61:ILE:O	6.94	0.56
27:D5:41:ILE:HG13	27:D5:42:LEU:H	1.72	0.56
27:D5:48:ASP:HA	27:D5:51:LEU:HB2	1.88	0.56
30:D8:19:THR:HG21	30:D8:65:ARG:HA	2.65	0.56
31:D9:15:GLY:O	31:D9:17:GLY:N	3.16	0.56
39:L2:131:GLY:HA2	39:L2:169:ILE:O	2.67	0.56
39:L2:209:HIS:HD2	39:L2:210:PRO:CD	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:117:ARG:NH2	40:L3:175:LYS:HD3	3.22	0.56
40:L3:298:PHE:CD2	40:L3:357:LYS:HG2	4.82	0.56
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.35	0.56
44:L7:153:PHE:CD2	44:L7:153:PHE:N	2.87	0.56
47:M0:140:THR:OG1	47:M0:144:ASN:HB3	2.06	0.56
49:M3:56:PRO:HG2	49:M3:72:GLY:HA3	1.88	0.56
36:1:2353:G:H5''	53:M7:86:LYS:CB	2.36	0.56
59:N3:118:VAL:HG12	59:N3:119:GLY:N	2.46	0.56
63:N7:85:TYR:CE2	63:N7:129:TRP:CE2	4.18	0.56
72:O6:50:LEU:O	72:O6:55:ARG:NH2	2.88	0.56
4:S2:81:MET:N	4:S2:101:VAL:O	2.32	0.56
4:S2:152:HIS:H	4:S2:152:HIS:HD2	3.13	0.56
5:S3:195:SER:O	5:S3:196:ARG:HB3	2.06	0.56
8:S6:126:ASP:OD2	8:S6:127:THR:HG22	2.31	0.56
36:1:1366:A:C2	36:1:1367:G:C4	2.94	0.55
36:1:1714:A:C2	36:1:1728:G:C2	2.94	0.55
36:1:2616:C:C2'	36:1:2617:U:H5'	2.37	0.55
36:1:2721:A:O3'	65:N9:33:LYS:NZ	2.39	0.55
36:1:3030:G:C5	36:1:3031:G:C8	2.93	0.55
36:1:304:G:H2'	36:1:304:G:N3	2.20	0.55
36:1:386:A:C5	36:1:387:A:H1'	2.41	0.55
36:1:88:A:OP2	54:M8:171:LYS:HE2	2.06	0.55
1:2:1611:U:H2'	1:2:1612:G:C8	2.40	0.55
1:2:5:U:C2	1:2:20:G:N2	2.74	0.55
1:2:635:A:C8	1:2:846:A:N6	2.75	0.55
36:1:406:G:H1'	38:4:16:G:N2	2.21	0.55
85:5:1355:A:H1'	85:5:1356:U:OP2	2.05	0.55
85:5:163:C:C2	85:5:164:A:C8	2.93	0.55
85:5:2261:G:O2'	85:5:2263:C:N4	2.40	0.55
85:5:2289:U:H2'	85:5:2290:C:H6	1.70	0.55
85:5:2568:C:O2'	85:5:2569:A:O5'	2.15	0.55
85:5:2884:C:O2	85:5:2939:G:C2	2.60	0.55
80:6:329:G:H2'	80:6:330:G:H8	1.70	0.55
80:6:86:A:H2'	80:6:87:C:C6	2.39	0.55
15:C3:129:TYR:HB3	15:C3:134:VAL:HG22	1.88	0.55
20:C8:24:GLY:O	20:C8:59:GLY:N	5.43	0.55
4:S2:54:GLU:OE1	23:D1:11:LEU:HB2	2.05	0.55
27:D5:59:TYR:HE1	27:D5:100:ILE:HA	5.96	0.55
16:C4:114:ARG:HA	28:D6:62:TYR:CZ	2.40	0.55
30:D8:18:ARG:HD2	30:D8:23:GLY:O	2.06	0.55
39:L2:108:PRO:O	39:L2:111:THR:OG1	2.24	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:145:LYS:O	47:M0:147:VAL:N	2.41	0.55
47:M0:192:ASP:HA	47:M0:197:VAL:HG12	1.88	0.55
48:M1:110:ILE:C	48:M1:112:LEU:H	2.09	0.55
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	1.88	0.55
49:M3:93:ILE:HG22	49:M3:94:GLY:H	4.68	0.55
71:O5:26:LYS:O	71:O5:29:ALA:HB3	2.06	0.55
79:Q3:46:THR:HB	79:Q3:58:SER:HB2	1.88	0.55
4:S2:106:ASP:OD1	4:S2:107:SER:N	2.38	0.55
6:S4:104:ASP:OD1	6:S4:110:ALA:HB2	2.06	0.55
6:S4:26:CYS:HB3	6:S4:27:TYR:CD2	6.14	0.55
6:S4:26:CYS:HB3	6:S4:27:TYR:CE2	6.16	0.55
6:S4:42:LEU:N	6:S4:84:ALA:O	2.39	0.55
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.87	0.55
10:S8:43:ILE:O	10:S8:44:HIS:ND1	2.39	0.55
36:1:1553:U:H4'	36:1:1554:U:H5'	1.87	0.55
36:1:2533:G:H3'	36:1:2534:G:H8	1.70	0.55
1:2:1287:G:H5'	1:2:1305:A:OP2	2.06	0.55
38:4:127:U:H2'	38:4:128:U:H5'	1.88	0.55
85:5:1119:C:H2'	85:5:1120:A:H8	1.72	0.55
45:L8:108:ARG:NH1	85:5:121:A:C4	96.49	0.55
85:5:1621:A:H2'	85:5:1622:U:C6	2.41	0.55
85:5:1709:C:H2'	85:5:1710:C:C6	2.41	0.55
85:5:3266:G:C6	85:5:3267:A:C6	2.94	0.55
85:5:1171:G:N7	92:5:3506:OHX:N1	2.55	0.55
92:5:3522:OHX:N6	92:5:3721:OHX:N2	2.54	0.55
85:5:532:A:O2'	85:5:533:A:H5'	2.06	0.55
85:5:536:U:OP2	92:5:3500:OHX:N4	2.39	0.55
80:6:651:G:H3'	92:6:2016:OHX:N4	2.20	0.55
80:6:686:C:H2'	80:6:687:G:C8	2.41	0.55
80:6:94:U:H2'	80:6:95:G:O4'	2.06	0.55
15:C3:88:LEU:HD23	15:C3:92:ILE:HG13	3.33	0.55
9:S7:142:TYR:O	24:D2:49:GLU:HG3	2.07	0.55
27:D5:54:VAL:HG11	27:D5:83:LEU:HD13	3.43	0.55
39:L2:209:HIS:CD2	39:L2:210:PRO:CD	2.88	0.55
40:L3:114:VAL:O	40:L3:116:ARG:N	3.17	0.55
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.07	0.55
42:L5:256:THR:O	42:L5:258:LYS:HD3	4.94	0.55
48:M1:29:ARG:HG3	48:M1:32:ARG:NH1	4.00	0.55
58:N2:89:LEU:O	58:N2:93:ILE:HG13	2.06	0.55
63:N7:41:ALA:HB2	63:N7:77:TYR:HE2	5.76	0.55
70:O4:88:ARG:NH1	85:5:2556:C:OP1	200.19	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1852:G:O2'	73:O7:6:PRO:O	2.22	0.55
97:5:3403:SPS:N4	91:P:75:C:P	223.95	0.55
7:S5:75:GLY:O	7:S5:76:ARG:HD3	3.60	0.55
36:1:2778:G:H2'	36:1:2779:A:H5'	1.88	0.55
1:2:1465:C:OP2	1:2:1504:G:N2	2.28	0.55
1:2:1519:G:C6	1:2:1521:U:H1'	2.41	0.55
37:3:45:A:H2'	37:3:46:A:H8	1.70	0.55
85:5:2183:A:C6	85:5:2184:U:C4	2.94	0.55
79:Q3:62:LYS:HD3	85:5:2554:A:N6	216.99	0.55
85:5:2882:U:H2'	85:5:2883:U:O4'	2.06	0.55
50:M4:99:TRP:HE1	85:5:3206:C:H2'	307.96	0.55
92:5:3566:OHX:N5	92:5:3640:OHX:N2	2.53	0.55
85:5:701:G:H2'	85:5:702:C:C6	2.42	0.55
80:6:83:G:OP2	92:6:1952:OHX:N3	2.39	0.55
80:6:230:C:H42	80:6:235:G:H1	1.52	0.55
80:6:63:G:C6	80:6:64:U:C5	2.95	0.55
18:C6:97:VAL:CG2	18:C6:98:ASP:N	2.91	0.55
20:C8:56:LYS:HB3	20:C8:60:GLU:HG3	1.87	0.55
25:D3:69:ARG:HD2	25:D3:117:ILE:HG12	2.29	0.55
40:L3:56:ILE:HG12	40:L3:356:LEU:HD22	2.45	0.55
50:M4:85:TRP:O	50:M4:90:VAL:HG23	2.07	0.55
92:M5:301:OHX:N6	85:5:277:G:OP1	166.90	0.55
51:M5:58:GLY:HA3	51:M5:142:ILE:HD11	1.88	0.55
52:M6:84:LEU:C	52:M6:84:LEU:HD23	2.92	0.55
59:N3:89:ASP:OD1	59:N3:91:VAL:HG22	2.07	0.55
67:O1:50:ARG:CZ	67:O1:90:PHE:CZ	4.06	0.55
76:Q0:96:CYS:HA	76:Q0:121:LEU:CD2	2.68	0.55
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CH2	3.08	0.55
6:S4:50:ASN:O	6:S4:51:ARG:NH2	3.73	0.55
8:S6:137:ARG:O	8:S6:141:ILE:HG13	2.27	0.55
1:2:577:G:N1	35:SM:99:LYS:HG2	2.21	0.55
34:SR:16:HIS:CE1	34:SR:37:SER:HB2	2.41	0.55
36:1:1363:A:H8	36:1:1363:A:O5'	1.89	0.55
36:1:2416:U:H2'	36:1:2417:U:C6	2.41	0.55
36:1:2655:U:C2	36:1:2656:A:C6	2.94	0.55
36:1:2669:G:N7	92:1:3603:OHX:N4	2.54	0.55
36:1:2926:A:H2'	36:1:2927:C:H5'	1.88	0.55
36:1:3111:U:N3	36:1:3112:G:C8	2.74	0.55
36:1:3195:U:H1'	36:1:3196:U:OP1	2.05	0.55
36:1:891:G:OP1	92:1:3419:OHX:N3	2.39	0.55
36:1:1192:C:N4	92:1:3583:OHX:N5	2.53	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:775:A:H5''	65:N9:41:ARG:HD3	1.87	0.55
1:2:590:C:OP1	32:E0:43:ARG:NH1	2.39	0.55
1:2:639:U:OP1	9:S7:117:THR:OG1	2.19	0.55
85:5:1246:G:C4	85:5:1264:G:C2	2.95	0.55
53:M7:138:LYS:O	85:5:2356:A:H4'	148.34	0.55
85:5:2514:U:OP1	85:5:2514:U:C6	2.57	0.55
85:5:1196:C:O2'	92:5:3503:OHX:N1	2.39	0.55
80:6:1358:G:H2'	80:6:1359:C:H6	1.71	0.55
80:6:700:C:H1'	80:6:739:G:N2	2.21	0.55
80:6:827:C:N4	80:6:845:G:H1	2.05	0.55
19:C7:21:TYR:N	19:C7:22:PRO:HD2	2.27	0.55
19:C7:57:LEU:O	19:C7:61:ILE:N	3.10	0.55
41:L4:37:THR:OG1	41:L4:38:VAL:N	2.38	0.55
54:M8:85:GLY:N	54:M8:104:LEU:HD12	2.22	0.55
67:O1:28:ARG:O	67:O1:31:ARG:N	3.39	0.55
71:O5:86:ARG:HA	71:O5:89:ARG:HH21	1.71	0.55
2:S0:168:HIS:ND1	2:S0:203:PHE:CZ	4.29	0.55
7:S5:143:ARG:HA	7:S5:167:ARG:HD3	2.63	0.55
10:S8:81:VAL:HG12	10:S8:91:VAL:HG13	1.89	0.55
36:1:993:G:N2	36:1:1056:U:O4	2.37	0.55
36:1:3100:U:O2'	36:1:3101:G:OP2	2.22	0.55
36:1:3343:G:H21	36:1:3362:A:H2	1.54	0.55
36:1:543:C:H42	36:1:548:G:H1	1.53	0.55
1:2:797:A:C8	1:2:799:G:C8	2.94	0.55
1:2:93:A:O2'	6:S4:4:GLY:HA3	2.05	0.55
1:2:97:C:H2'	1:2:98:U:H6	1.68	0.55
37:3:86:U:O2'	92:3:204:OHX:N3	2.40	0.55
85:5:1595:U:H4'	85:5:1595:U:OP1	2.07	0.55
85:5:196:G:C2	85:5:199:A:C8	2.94	0.55
85:5:2660:G:H2'	85:5:2661:G:H8	1.72	0.55
85:5:3165:A:H2'	85:5:3166:C:C6	2.42	0.55
85:5:3228:C:H4'	85:5:3229:G:O5'	2.06	0.55
92:5:3718:OHX:N4	92:5:3729:OHX:N6	2.54	0.55
85:5:815:G:C2	85:5:926:A:C2	2.94	0.55
80:6:1239:U:O4	92:6:1951:OHX:N5	2.39	0.55
80:6:1491:U:H4'	80:6:1492:A:O5'	2.06	0.55
18:C6:135:ARG:NH1	80:6:1582:U:OP1	380.13	0.55
80:6:27:U:OP1	92:6:1962:OHX:N3	2.40	0.55
80:6:394:C:O5'	80:6:394:C:H6	1.89	0.55
80:6:419:G:C6	80:6:420:A:C6	2.95	0.55
11:S9:172:VAL:HB	80:6:512:A:OP2	455.50	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:794:U:H4'	80:6:795:U:OP2	2.06	0.55
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.89	0.55
1:2:943:U:H1'	15:C3:52:VAL:HG23	1.88	0.55
40:L3:108:GLU:HB2	40:L3:137:TYR:CE1	2.42	0.55
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.39	0.55
40:L3:78:VAL:HG22	40:L3:323:MET:HG3	2.21	0.55
41:L4:142:VAL:HG12	41:L4:247:PHE:CZ	3.47	0.55
42:L5:79:TYR:HE2	37:7:118:A:HO2'	286.57	0.55
48:M1:115:LYS:HG2	48:M1:116:TYR:H	1.72	0.55
48:M1:138:VAL:HG22	48:M1:141:ARG:NH2	2.22	0.55
50:M4:20:VAL:HG12	50:M4:68:LEU:O	2.43	0.55
63:N7:124:ALA:O	63:N7:126:LYS:N	2.39	0.55
72:O6:9:ILE:HD13	72:O6:10:GLY:N	4.80	0.55
72:O6:79:SER:HB3	72:O6:82:ARG:HG3	3.49	0.55
5:S3:10:LYS:HG3	5:S3:11:LEU:HD23	1.86	0.55
6:S4:120:SER:O	6:S4:164:LEU:HB2	2.59	0.55
6:S4:193:GLY:O	6:S4:194:THR:OG1	2.24	0.55
35:SM:85:SER:O	35:SM:87:THR:N	2.39	0.55
34:SR:249:ARG:NH1	34:SR:315:VAL:HG21	4.02	0.55
36:1:1337:A:N6	36:1:1338:C:N4	2.55	0.55
36:1:1793:C:O2	39:L2:188:LYS:HE3	2.06	0.55
36:1:1449:A:C2	36:1:2356:A:C4	2.94	0.55
36:1:3189:G:H2'	36:1:3190:C:C6	2.41	0.55
36:1:3290:G:O6	92:1:3668:OHX:N6	2.39	0.55
1:2:1125:A:H2'	1:2:1126:A:H8	1.72	0.55
1:2:1657:C:C2	1:2:1658:C:C5	2.95	0.55
1:2:1736:A:C6	1:2:1737:A:C5	2.94	0.55
1:2:558:U:OP1	32:E0:55:ARG:NH1	2.39	0.55
1:2:831:C:H2'	1:2:832:C:H6	1.72	0.55
36:1:1196:C:O2'	92:3:204:OHX:N5	2.40	0.55
37:3:61:G:H2'	37:3:62:U:H6	1.71	0.55
85:5:1253:U:O2	85:5:1263:A:H5'	2.06	0.55
39:L2:70:ARG:CZ	85:5:2522:G:O6	177.21	0.55
85:5:2668:U:H2'	85:5:2669:G:C8	2.40	0.55
85:5:2842:U:C5	85:5:2843:U:H5	2.25	0.55
85:5:3307:A:C5	85:5:3308:C:C5	2.94	0.55
85:5:900:G:H2'	85:5:901:G:H8	1.69	0.55
80:6:1218:G:O4'	80:6:1444:A:N6	2.40	0.55
20:C8:126:ARG:NH1	80:6:1459:C:OP1	350.86	0.55
80:6:1714:A:H2'	80:6:1715:G:O4'	2.07	0.55
80:6:1579:U:P	92:6:2039:OHX:N3	2.79	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:427:C:H42	80:6:428:A:N6	2.05	0.55
38:8:132:G:O6	92:8:208:OHX:N4	2.40	0.55
85:5:59:G:H2'	38:8:33:A:O2'	2.06	0.55
38:8:6:U:O2'	38:8:7:U:H5'	2.06	0.55
1:2:914:C:OP1	28:D6:70:LYS:HE2	2.07	0.55
39:L2:200:ARG:O	39:L2:202:VAL:N	2.39	0.55
41:L4:258:LEU:C	41:L4:260:GLN:H	2.10	0.55
41:L4:337:GLU:HB2	41:L4:339:LEU:CD2	2.37	0.55
44:L7:145:ARG:HA	44:L7:185:ILE:HD13	2.39	0.55
51:M5:4:TYR:CE1	51:M5:49:ARG:HD3	3.06	0.55
52:M6:189:ASP:O	52:M6:193:GLN:HG3	2.14	0.55
54:M8:122:ILE:HG22	54:M8:126:GLN:OE1	5.81	0.55
54:M8:32:LEU:O	54:M8:35:PHE:HB3	2.27	0.55
57:N1:83:ARG:HD2	57:N1:85:LEU:HD21	4.02	0.55
61:N5:67:ILE:HD13	61:N5:115:ARG:HH21	1.71	0.55
63:N7:85:TYR:HE2	63:N7:129:TRP:CZ2	4.21	0.55
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.24	0.55
5:S3:40:ARG:HA	22:D0:110:PRO:HB3	1.88	0.55
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	2.02	0.55
36:1:1222:G:N2	36:1:1285:G:O2'	2.40	0.55
36:1:1583:A:H3'	36:1:1584:U:H6	1.71	0.55
36:1:307:A:H61	36:1:2782:U:H3	1.53	0.55
36:1:500:C:OP2	92:1:3542:OHX:N1	2.39	0.55
36:1:40:A:N7	64:N8:29:PRO:O	2.40	0.55
1:2:129:U:O2	92:2:1912:OHX:N1	2.40	0.55
1:2:1201:G:N2	1:2:1427:A:OP2	2.39	0.55
1:2:1508:A:OP1	21:C9:93:HIS:ND1	2.40	0.55
1:2:870:A:H1'	16:C4:122:PRO:HB3	1.88	0.55
38:4:151:C:C5	61:N5:24:LEU:HD11	2.42	0.55
38:4:57:C:O2'	38:4:61:A:O2'	2.14	0.55
85:5:1049:C:H2'	85:5:1050:U:H6	1.71	0.55
85:5:1159:A:O2'	85:5:1160:C:H5'	2.06	0.55
85:5:1238:C:H4'	85:5:1239:C:OP1	2.07	0.55
85:5:1573:G:C6	85:5:1574:C:H1'	2.42	0.55
85:5:163:C:H2'	85:5:164:A:H8	1.72	0.55
85:5:2235:C:C4	85:5:2236:G:C5	2.95	0.55
85:5:920:A:OP1	85:5:922:U:C5	2.60	0.55
80:6:1690:G:H1	80:6:1711:C:H42	1.52	0.55
80:6:427:C:N4	80:6:428:A:N6	2.55	0.55
80:6:40:A:H1'	80:6:469:C:N3	2.22	0.55
80:6:538:A:C4	80:6:543:C:H5	2.24	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:285:ARG:HH12	37:7:62:U:H4'	340.65	0.55
37:7:72:A:H8	37:7:72:A:O5'	1.90	0.55
38:8:48:A:C2	38:8:51:G:N1	2.74	0.55
12:C0:54:TYR:O	12:C0:69:THR:OG1	2.14	0.55
12:C0:6:GLU:OE1	12:C0:10:LYS:NZ	2.27	0.55
1:2:1443:A:C8	17:C5:128:HIS:HB3	2.40	0.55
17:C5:111:MET:HG2	20:C8:119:ILE:HG12	3.97	0.55
22:D0:46:GLU:HB2	22:D0:52:LYS:HZ1	1.70	0.55
27:D5:54:VAL:HG13	27:D5:57:TYR:HD1	1.71	0.55
39:L2:117:GLU:CD	39:L2:121:GLY:H	2.10	0.55
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.06	0.55
44:L7:207:LEU:O	85:5:1334:U:H5'	240.01	0.55
51:M5:73:ARG:HG2	51:M5:75:VAL:HB	2.86	0.55
36:1:2383:C:H5'	52:M6:71:PHE:CE2	2.42	0.55
56:N0:139:TYR:OH	85:5:1213:G:OP1	323.10	0.55
57:N1:51:GLY:O	57:N1:95:HIS:HD2	2.32	0.55
36:1:1391:C:C2	68:O2:103:LYS:HD3	2.42	0.55
71:O5:77:PRO:HD2	71:O5:80:LEU:HD12	1.89	0.55
2:S0:172:LEU:O	2:S0:176:LEU:HG	2.07	0.55
2:S0:81:PHE:CD2	2:S0:166:GLY:HA2	3.49	0.55
4:S2:179:VAL:HG12	80:6:3:U:H5'	391.20	0.55
1:2:1608:C:OP1	4:S2:91:ARG:NH2	2.40	0.55
9:S7:46:ILE:HG23	9:S7:59:ALA:O	3.82	0.55
34:SR:211:ILE:HB	34:SR:223:TRP:HB2	1.88	0.55
36:1:3115:C:O2'	36:1:3117:C:N4	2.39	0.55
36:1:3226:A:C2	36:1:3260:G:C6	2.95	0.55
36:1:3308:C:C4	36:1:3309:G:C5	2.94	0.55
92:1:3565:OHX:N5	92:1:3729:OHX:N6	2.55	0.55
36:1:614:C:H2'	36:1:615:U:H6	1.72	0.55
1:2:1047:G:O2'	3:S1:204:ILE:O	2.25	0.55
1:2:1273:U:H2'	1:2:1274:G:C8	2.42	0.55
1:2:1571:G:H1	1:2:1591:U:H3	1.53	0.55
1:2:764:U:O2'	1:2:765:U:H6	1.90	0.55
1:2:847:U:O4'	1:2:847:U:O2	2.21	0.55
85:5:1634:G:C2	85:5:1640:G:C2	2.95	0.55
85:5:2661:G:O2'	85:5:2662:G:H5'	2.07	0.55
85:5:1877:U:OP2	92:5:3460:OHX:N1	2.39	0.55
85:5:392:G:C6	85:5:393:U:C5	2.95	0.55
80:6:1315:U:H2'	80:6:1316:G:O4'	2.07	0.55
80:6:598:U:OP2	92:6:1999:OHX:N4	2.40	0.55
80:6:621:A:N3	80:6:1107:G:H1'	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:6:U:H2'	38:8:7:U:H6	1.72	0.55
16:C4:29:HIS:O	16:C4:29:HIS:ND1	2.39	0.55
19:C7:65:PRO:HG3	19:C7:78:ARG:HH21	1.71	0.55
21:C9:16:ASN:CG	21:C9:56:LYS:HZ2	3.11	0.55
26:D4:89:TYR:O	26:D4:92:VAL:HB	2.07	0.55
28:D6:37:LYS:O	28:D6:38:ARG:NH1	2.40	0.55
40:L3:53:MET:CG	40:L3:77:THR:HG23	4.98	0.55
41:L4:58:HIS:C	41:L4:60:THR:H	2.08	0.55
42:L5:261:THR:H	42:L5:264:GLN:CG	2.20	0.55
46:L9:91:ARG:HH21	46:L9:91:ARG:HG3	1.72	0.55
48:M1:160:VAL:O	48:M1:163:PHE:N	2.96	0.55
52:M6:12:LYS:NZ	85:5:3184:A:OP2	291.17	0.55
57:N1:88:ARG:HD3	65:N9:33:LYS:NZ	7.12	0.55
62:N6:71:SER:HB3	62:N6:83:ASP:CG	4.16	0.55
72:O6:21:THR:OG1	72:O6:21:THR:O	2.68	0.55
75:O9:5:LYS:HE3	85:5:1834:U:OP1	113.03	0.55
3:S1:83:LYS:HD2	3:S1:106:THR:H	3.56	0.55
5:S3:27:ARG:HD2	12:C0:60:SER:HB2	1.87	0.55
8:S6:55:GLY:O	8:S6:63:MET:HG3	2.07	0.55
36:1:162:G:H2'	36:1:163:C:C6	2.39	0.55
36:1:1720:U:C5	55:M9:124:TYR:CZ	2.94	0.55
36:1:1818:U:O5'	36:1:1818:U:H6	1.90	0.55
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.89	0.55
36:1:2550:U:C5	39:L2:40:TYR:CZ	2.94	0.55
36:1:2704:A:C8	36:1:2706:G:C6	2.95	0.55
36:1:2772:C:H4'	36:1:2773:C:C5'	2.37	0.55
36:1:3087:A:OP2	92:1:3711:OHX:N5	2.40	0.55
36:1:406:G:N2	38:4:16:G:O2'	2.39	0.55
36:1:722:G:C5	36:1:723:U:C5	2.95	0.55
1:2:347:G:OP1	13:C1:77:SER:OG	2.22	0.55
85:5:1172:G:N2	85:5:1327:C:O2	2.40	0.55
85:5:1404:G:N2	85:5:1408:G:C4	2.74	0.55
85:5:1847:A:O2'	85:5:1848:G:H5''	2.06	0.55
85:5:412:G:C6	85:5:413:U:C4	2.95	0.55
80:6:1317:C:H2'	80:6:1318:G:O4'	2.07	0.55
80:6:1752:U:OP2	92:6:1915:OHX:N5	2.40	0.55
80:6:539:G:H8	80:6:539:G:OP2	1.90	0.55
80:6:840:U:H2'	80:6:841:U:C6	2.42	0.55
80:6:93:A:H4'	80:6:94:U:OP2	2.06	0.55
14:C2:63:VAL:HG22	14:C2:64:SER:H	1.70	0.55
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.40	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:124:GLY:O	20:C8:127:HIS:N	2.40	0.55
30:D8:39:THR:O	30:D8:40:ILE:HD12	5.23	0.55
39:L2:68:LYS:HG3	39:L2:69:TYR:N	2.96	0.55
40:L3:361:THR:CG2	40:L3:371:GLN:HB3	2.37	0.55
41:L4:142:VAL:HB	41:L4:145:ILE:HG12	1.89	0.55
41:L4:327:LEU:HD11	44:L7:165:ASP:HA	2.87	0.55
41:L4:330:TYR:CE1	44:L7:49:ALA:HB2	2.84	0.55
42:L5:230:ASP:O	42:L5:231:ILE:HD13	2.17	0.55
43:L6:52:VAL:HG22	43:L6:67:GLY:HA2	2.64	0.55
45:L8:217:THR:O	45:L8:221:ASN:ND2	4.72	0.55
49:M3:119:TYR:HD1	49:M3:145:PHE:CZ	2.58	0.55
57:N1:70:SER:O	57:N1:70:SER:OG	3.64	0.55
59:N3:71:LYS:HZ2	59:N3:71:LYS:HB3	3.79	0.55
40:L3:57:VAL:HG21	60:N4:15:PRO:HG2	1.88	0.55
63:N7:102:GLU:OE1	63:N7:103:GLN:N	2.39	0.55
64:N8:60:TYR:CD2	64:N8:63:LYS:HE3	2.41	0.55
67:O1:5:LYS:CB	67:O1:89:LEU:HD21	3.15	0.55
68:O2:121:ASN:OD1	68:O2:121:ASN:N	2.32	0.55
38:4:42:G:OP1	73:O7:60:GLY:N	2.40	0.55
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.87	0.55
7:S5:118:LEU:HD23	7:S5:121:ILE:HD12	1.87	0.55
36:1:239:G:O3'	71:O5:94:LYS:NZ	2.39	0.55
36:1:1310:G:N7	92:1:3560:OHX:N5	2.55	0.55
36:1:887:G:C6	36:1:888:A:C6	2.95	0.55
1:2:604:A:OP2	92:2:1988:OHX:N5	2.40	0.55
1:2:786:A:N3	9:S7:104:ARG:NE	2.52	0.55
38:4:104:A:C8	38:4:105:A:C8	2.95	0.55
85:5:1440:G:H2'	85:5:1441:G:H8	1.72	0.55
85:5:1613:A:H2'	85:5:1614:C:H6	1.72	0.55
85:5:1622:U:C2	85:5:1623:G:C8	2.94	0.55
85:5:2656:A:C2	85:5:2658:G:C6	2.95	0.55
50:M4:99:TRP:NE1	85:5:3206:C:H2'	308.68	0.55
85:5:3277:U:H2'	85:5:3278:C:O4'	2.07	0.55
85:5:3362:A:C2	85:5:3363:U:C2	2.94	0.55
85:5:760:G:H1'	85:5:770:G:N2	2.22	0.55
85:5:865:U:C5	85:5:866:A:N7	2.74	0.55
85:5:953:G:H2'	85:5:1117:G:H5''	1.89	0.55
80:6:1274:C:O2	80:6:1274:C:H2'	2.06	0.55
80:6:1585:U:H2'	80:6:1586:A:H8	1.71	0.55
80:6:825:U:O2'	80:6:826:U:H6	1.86	0.55
80:6:926:A:H1'	80:6:988:A:C2	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:81:U:H1'	38:8:82:U:H6	1.72	0.55
38:8:82:U:O2	38:8:87:G:H4'	2.06	0.55
17:C5:108:ARG:O	17:C5:110:GLU:N	2.40	0.55
1:2:1308:A:OP1	19:C7:11:ARG:NH1	2.40	0.55
21:C9:76:LEU:HB3	21:C9:80:TYR:CE2	2.42	0.55
24:D2:103:ILE:HA	24:D2:112:ASP:HA	1.90	0.55
40:L3:166:ILE:O	40:L3:169:THR:HB	2.07	0.55
40:L3:239:PRO:HD2	40:L3:242:THR:CG2	3.09	0.55
41:L4:304:GLN:NE2	41:L4:304:GLN:HA	5.11	0.55
42:L5:119:TYR:OH	42:L5:134:ALA:HA	2.06	0.55
44:L7:144:ILE:O	44:L7:148:VAL:HG23	2.69	0.55
47:M0:142:ASP:O	47:M0:144:ASN:N	2.38	0.55
52:M6:72:HIS:O	52:M6:74:ARG:HD3	3.65	0.55
55:M9:17:VAL:HG13	55:M9:18:GLY:N	3.63	0.55
62:N6:57:LEU:HD22	62:N6:58:VAL:N	2.37	0.55
72:O6:56:ARG:O	72:O6:60:LEU:HB2	2.07	0.55
3:S1:62:LYS:O	3:S1:64:ARG:N	2.40	0.55
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.42	0.55
4:S2:56:ILE:CG2	4:S2:61:LEU:HB2	2.36	0.55
7:S5:183:ALA:HA	7:S5:186:ASN:HB3	5.44	0.55
7:S5:63:GLN:HB2	7:S5:89:ILE:HG13	1.89	0.55
9:S7:126:LEU:HD13	9:S7:173:TYR:HD2	2.92	0.55
35:SM:51:ARG:HG3	35:SM:52:PRO:HD2	1.88	0.55
34:SR:260:ILE:HB	34:SR:274:LEU:HB2	2.11	0.55
36:1:198:A:N1	36:1:219:A:C5	2.75	0.54
36:1:244:G:C2	36:1:245:U:H1'	2.42	0.54
36:1:2877:G:H2'	36:1:2878:G:C8	2.42	0.54
36:1:3335:A:C2	36:1:3336:A:C4	2.95	0.54
36:1:1744:G:O6	92:1:3626:OHX:N2	2.40	0.54
1:2:1015:G:H2'	1:2:1016:C:C6	2.42	0.54
1:2:1330:U:O2	1:2:1499:A:H5''	2.06	0.54
1:2:1456:U:O2'	7:S5:103:ASN:ND2	2.40	0.54
1:2:292:U:C4	1:2:293:U:C4	2.95	0.54
37:3:45:A:H2'	37:3:46:A:C8	2.42	0.54
85:5:1085:A:H5''	85:5:1085:A:H8	1.71	0.54
85:5:2608:G:C2	85:5:2609:A:C8	2.94	0.54
85:5:2898:G:OP2	85:5:2899:C:H5'	2.07	0.54
52:M6:68:ARG:NH1	85:5:2988:C:P	216.19	0.54
85:5:386:A:C5	85:5:387:A:H1'	2.42	0.54
28:D6:10:ARG:NE	80:6:1795:U:O2	327.64	0.54
80:6:946:U:H2'	80:6:947:U:C6	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1215:U:H4'	12:C0:2:LEU:HD21	1.88	0.54
17:C5:29:SER:HG	17:C5:31:GLU:HG3	1.71	0.54
19:C7:104:ASN:OD1	19:C7:105:GLN:NE2	6.68	0.54
19:C7:13:SER:HA	19:C7:54:THR:HG22	3.39	0.54
19:C7:33:ARG:NH2	34:SR:109:ASP:OD1	2.47	0.54
20:C8:81:ILE:HG23	20:C8:82:PRO:HD2	1.90	0.54
20:C8:91:ASP:OD1	20:C8:93:THR:OG1	3.53	0.54
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.42	0.54
40:L3:146:ARG:NH2	40:L3:149:ALA:HB1	2.21	0.54
41:L4:74:ILE:HG22	41:L4:76:ARG:NH1	7.32	0.54
41:L4:94:CYS:HA	85:5:1438:U:H1'	140.01	0.54
45:L8:41:GLN:HG3	45:L8:42:PRO:HD2	2.02	0.54
47:M0:142:ASP:CG	47:M0:178:ARG:HH22	2.74	0.54
51:M5:120:TRP:CE3	85:5:269:G:H5'	132.55	0.54
51:M5:169:LYS:HE3	85:5:63:A:OP1	99.30	0.54
51:M5:172:ARG:NH2	85:5:63:A:OP1	103.79	0.54
52:M6:48:PHE:CE1	52:M6:52:LEU:HD21	3.18	0.54
65:N9:31:SER:OG	65:N9:32:LEU:N	3.67	0.54
69:O3:45:LEU:HD23	69:O3:71:VAL:HG12	2.95	0.54
79:Q3:77:ALA:HA	79:Q3:80:ARG:HH21	1.72	0.54
4:S2:56:ILE:HA	4:S2:61:LEU:HD12	1.89	0.54
8:S6:139:ASN:O	8:S6:143:LYS:HD2	3.16	0.54
8:S6:7:TYR:CE1	8:S6:125:THR:HA	3.69	0.54
9:S7:93:LEU:HD21	9:S7:129:LEU:HD23	1.89	0.54
35:SM:64:LYS:O	35:SM:66:ALA:N	3.36	0.54
34:SR:153:GLN:OE1	34:SR:155:ARG:NH2	2.40	0.54
36:1:1128:U:H2'	36:1:1129:A:O4'	2.07	0.54
36:1:1139:G:OP1	44:L7:97:PRO:HG3	2.07	0.54
36:1:2227:C:C2	36:1:2228:A:C8	2.95	0.54
36:1:2286:U:H6	36:1:2286:U:OP1	1.91	0.54
36:1:2534:G:H1	36:1:2545:C:H42	1.55	0.54
36:1:2897:A:OP2	76:Q0:124:LYS:NZ	2.35	0.54
36:1:2943:G:H2'	36:1:2944:U:O4'	2.07	0.54
1:2:1069:A:C6	1:2:1070:A:C6	2.94	0.54
1:2:1347:G:H22	21:C9:3:GLY:HA3	1.71	0.54
1:2:1334:G:C2	1:2:1358:A:C2	2.96	0.54
1:2:1411:G:C8	1:2:1411:G:H5'	2.43	0.54
1:2:1222:U:OP1	92:2:2026:OHX:N5	2.40	0.54
1:2:375:U:OP1	25:D3:23:ARG:NH2	2.40	0.54
1:2:424:C:O2'	1:2:426:G:OP1	2.24	0.54
1:2:719:C:H42	1:2:720:A:H62	1.54	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:787:A:C2	24:D2:105:THR:HB	2.41	0.54
85:5:1024:G:N7	85:5:1027:A:N6	2.55	0.54
85:5:1303:A:O2'	85:5:1304:A:OP2	2.21	0.54
85:5:1317:A:O2'	85:5:1318:A:H3'	2.07	0.54
85:5:1487:G:C5	85:5:1488:G:C8	2.95	0.54
85:5:2124:G:C2	85:5:2125:A:N7	2.76	0.54
85:5:2645:G:C2	85:5:2646:C:C2	2.95	0.54
85:5:309:U:H3	85:5:2780:A:H61	1.53	0.54
85:5:3231:U:H2'	85:5:3232:G:C8	2.41	0.54
92:5:3534:OHX:N5	92:5:3580:OHX:N2	2.55	0.54
49:M3:59:ARG:NH1	85:5:73:C:N3	94.54	0.54
16:C4:136:ARG:O	80:6:1006:C:O2'	301.58	0.54
80:6:1316:G:O2'	80:6:1401:A:O2'	2.18	0.54
80:6:1783:C:H2'	80:6:1784:C:H6	1.71	0.54
80:6:432:G:H2'	80:6:433:C:C6	2.42	0.54
80:6:565:C:H5''	80:6:566:C:C6	2.41	0.54
38:8:150:G:N7	92:8:205:OHX:N5	2.56	0.54
23:D1:21:ASN:OD1	24:D2:23:ARG:NH2	2.40	0.54
1:2:730:C:H4'	24:D2:80:ASN:ND2	2.21	0.54
33:E1:82:LYS:O	33:E1:84:VAL:N	4.76	0.54
41:L4:206:LEU:HD23	41:L4:226:GLU:HB2	3.82	0.54
41:L4:50:TYR:CE2	41:L4:109:TRP:HH2	2.91	0.54
42:L5:90:HIS:HB3	42:L5:226:TYR:CE2	5.55	0.54
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.07	0.54
42:L5:261:THR:H	42:L5:264:GLN:HG3	1.72	0.54
43:L6:70:LYS:HB3	43:L6:146:ILE:HD11	3.00	0.54
43:L6:39:VAL:O	43:L6:87:THR:HG23	2.06	0.54
44:L7:173:LEU:HD23	44:L7:178:ILE:CG2	2.31	0.54
45:L8:54:GLU:O	45:L8:58:VAL:HG23	2.07	0.54
53:M7:108:ASP:N	53:M7:152:GLU:OE2	2.79	0.54
62:N6:33:ALA:HB2	62:N6:101:PRO:HB2	2.45	0.54
64:N8:46:ASP:O	64:N8:47:LYS:HB3	2.07	0.54
73:O7:64:MET:O	73:O7:68:LYS:HB3	4.09	0.54
2:S0:119:ARG:HD2	4:S2:240:LEU:HB3	2.42	0.54
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.89	0.54
3:S1:146:GLN:O	3:S1:148:ASN:N	3.19	0.54
4:S2:47:ALA:O	4:S2:49:LYS:HG2	2.07	0.54
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.87	0.54
9:S7:140:VAL:HG22	9:S7:150:GLN:HG2	2.45	0.54
36:1:1573:G:C2	36:1:1574:C:H1'	2.43	0.54
36:1:90:C:OP1	64:N8:59:ARG:NH1	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1056:G:H2'	1:2:1057:G:H5''	1.90	0.54
1:2:1546:C:OP1	21:C9:84:LYS:NZ	2.32	0.54
85:5:1070:U:C4	85:5:1071:U:C4	2.95	0.54
85:5:1385:C:C4	85:5:1387:G:C8	2.95	0.54
70:O4:67:LYS:HD3	85:5:1821:U:N3	169.02	0.54
78:Q2:98:LYS:HD2	85:5:2656:A:H4'	251.21	0.54
85:5:2985:C:H2'	85:5:2986:U:O4'	2.08	0.54
92:5:3555:OHX:N6	92:5:3703:OHX:N6	2.54	0.54
80:6:1244:A:O2'	80:6:1245:G:H4'	2.08	0.54
20:C8:36:LYS:NZ	80:6:1568:C:OP1	333.81	0.54
28:D6:79:ILE:HD12	80:6:1794:A:O2'	331.38	0.54
80:6:74:U:H3'	80:6:75:U:H3'	1.88	0.54
17:C5:85:ILE:HG22	17:C5:112:LEU:HA	1.89	0.54
18:C6:113:ASP:O	18:C6:114:ARG:HB2	2.06	0.54
18:C6:52:LEU:HA	18:C6:60:PHE:CZ	4.02	0.54
18:C6:25:GLY:H	18:C6:63:ILE:HA	1.71	0.54
25:D3:19:ARG:O	25:D3:23:ARG:HG2	3.09	0.54
39:L2:66:PRO:HB2	39:L2:67:TYR:CE2	2.43	0.54
40:L3:204:ALA:O	40:L3:207:SER:OG	2.25	0.54
40:L3:346:THR:O	40:L3:348:ARG:N	2.95	0.54
40:L3:308:MET:HB2	40:L3:363:SER:HB2	1.89	0.54
41:L4:221:ASN:O	41:L4:221:ASN:ND2	2.62	0.54
41:L4:60:THR:HG22	41:L4:61:SER:H	1.72	0.54
42:L5:132:THR:HG21	42:L5:170:GLY:HA2	2.29	0.54
42:L5:16:PHE:CE2	85:5:2688:U:C4	292.36	0.54
44:L7:135:ALA:HB2	44:L7:229:PHE:H	4.81	0.54
46:L9:69:ARG:HD3	46:L9:72:LYS:HD3	2.04	0.54
47:M0:9:TYR:CD1	47:M0:97:LEU:HD13	2.43	0.54
49:M3:28:GLN:HB3	51:M5:201:ARG:NH1	2.21	0.54
51:M5:178:HIS:CE1	51:M5:179:LYS:HG2	2.42	0.54
53:M7:127:ARG:O	53:M7:139:TYR:N	2.77	0.54
55:M9:28:GLU:OE2	92:M9:201:OHX:N5	2.41	0.54
57:N1:111:ALA:O	57:N1:115:LYS:HG3	2.07	0.54
57:N1:84:TYR:HB2	65:N9:24:PRO:HB3	1.90	0.54
59:N3:74:MET:SD	59:N3:102:ILE:HD13	2.47	0.54
2:S0:90:ALA:HA	2:S0:95:ALA:HB3	2.19	0.54
4:S2:38:VAL:N	4:S2:65:GLU:OE1	3.71	0.54
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.42	0.54
7:S5:140:THR:HA	7:S5:214:LYS:HD2	2.13	0.54
9:S7:126:LEU:HG	9:S7:152:VAL:HG21	3.68	0.54
11:S9:37:LYS:HB3	32:E0:33:ARG:HB2	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2353:G:C5	36:1:2354:C:C5	2.95	0.54
36:1:2366:C:H2'	36:1:2367:A:C8	2.42	0.54
36:1:3229:G:O2'	50:M4:133:LYS:HG2	2.07	0.54
36:1:3338:C:H2'	36:1:3339:A:H8	1.72	0.54
36:1:677:A:H4'	36:1:678:G:O5'	2.07	0.54
1:2:1129:G:C6	1:2:1130:A:C6	2.95	0.54
1:2:1102:G:O6	92:2:2029:OHX:N4	2.39	0.54
1:2:412:A:H2'	1:2:413:U:C6	2.42	0.54
36:1:406:G:N3	38:4:16:G:C2	2.75	0.54
85:5:1887:A:OP1	92:5:3612:OHX:N6	2.41	0.54
85:5:2576:G:H2'	85:5:2577:C:C6	2.43	0.54
85:5:2602:G:C5	85:5:2603:G:C8	2.96	0.54
85:5:2822:U:H2'	85:5:2823:G:H8	1.71	0.54
67:O1:25:PHE:CE1	85:5:3056:U:C4	184.30	0.54
85:5:1817:G:OP2	92:5:3683:OHX:N2	2.40	0.54
85:5:535:G:O6	92:5:3583:OHX:N6	2.41	0.54
85:5:668:G:C5	85:5:795:G:N2	2.75	0.54
85:5:668:G:C6	85:5:795:G:C2	2.96	0.54
80:6:964:U:H4'	80:6:965:U:O5'	2.07	0.54
12:C0:9:ASN:O	12:C0:13:GLN:HB3	2.08	0.54
18:C6:32:ASN:N	18:C6:67:VAL:O	2.36	0.54
20:C8:16:ARG:HH21	20:C8:21:ASN:HD21	1.55	0.54
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.07	0.54
13:C1:100:TYR:HB2	25:D3:10:ASN:OD1	2.07	0.54
28:D6:58:VAL:HG22	28:D6:59:TYR:H	1.71	0.54
32:E0:13:LYS:O	32:E0:17:GLN:HG2	2.83	0.54
40:L3:167:ARG:O	92:L3:402:OHX:N4	2.41	0.54
41:L4:115:HIS:CG	41:L4:119:ARG:NH1	4.62	0.54
41:L4:269:SER:O	41:L4:270:SER:OG	3.11	0.54
42:L5:126:GLU:HA	42:L5:196:ARG:HD2	1.89	0.54
43:L6:105:TYR:HE1	43:L6:134:ARG:HD2	1.73	0.54
45:L8:97:TYR:OH	45:L8:207:ASP:OD2	2.85	0.54
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.74	0.54
50:M4:6:ILE:HG22	50:M4:6:ILE:O	2.07	0.54
51:M5:53:TYR:O	51:M5:54:LYS:HD2	2.07	0.54
36:1:670:C:P	54:M8:147:ARG:NH2	2.81	0.54
36:1:523:A:O2'	56:N0:69:PRO:HD2	2.08	0.54
56:N0:89:ASN:HD22	57:N1:155:PRO:HB3	1.70	0.54
61:N5:76:VAL:HG22	61:N5:81:ILE:O	2.07	0.54
62:N6:17:LYS:HD3	62:N6:21:THR:HG21	2.82	0.54
63:N7:36:HIS:HB2	63:N7:40:HIS:CE1	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:25:HIS:O	64:N8:25:HIS:CD2	2.96	0.54
70:O4:81:CYS:O	70:O4:83:ASN:N	2.41	0.54
2:S0:202:TYR:O	2:S0:203:PHE:HB2	2.06	0.54
4:S2:218:ILE:HA	4:S2:221:THR:HG23	1.89	0.54
34:SR:305:TYR:HB2	34:SR:309:VAL:O	2.07	0.54
36:1:1414:G:N7	92:1:3657:OHX:N2	2.55	0.54
36:1:2314:U:O2'	36:1:2315:G:OP1	2.24	0.54
36:1:304:G:H3'	36:1:304:G:OP2	2.07	0.54
36:1:3096:C:H1'	40:L3:327:CYS:SG	2.48	0.54
36:1:3174:A:C2'	36:1:3175:U:H5'	2.38	0.54
36:1:342:A:C5	36:1:349:A:N7	2.75	0.54
36:1:439:C:H3'	36:1:440:A:C8	2.41	0.54
1:2:1420:U:H5'	5:S3:176:LEU:HD23	1.90	0.54
1:2:1574:C:C2	1:2:1575:A:C8	2.95	0.54
1:2:1791:G:H21	1:2:1802:C:N4	2.06	0.54
1:2:775:U:H3'	1:2:776:A:C8	2.42	0.54
37:3:58:C:H2'	37:3:59:U:H6	1.72	0.54
85:5:1024:G:N2	85:5:1026:A:OP2	2.41	0.54
85:5:1039:U:H2'	85:5:1040:A:C8	2.42	0.54
45:L8:133:LYS:NZ	85:5:119:U:O3'	103.65	0.54
56:N0:115:ARG:NH2	85:5:1320:C:O2	288.50	0.54
85:5:136:G:N2	85:5:137:G:C4	2.75	0.54
85:5:1696:A:N6	85:5:1748:G:H2'	2.23	0.54
85:5:1753:G:H1	85:5:1772:U:H3	1.54	0.54
45:L8:242:ALA:N	85:5:2586:G:O6	186.84	0.54
85:5:2949:U:C5	85:5:2950:G:C6	2.96	0.54
85:5:3100:U:O2'	85:5:3101:G:H5''	2.07	0.54
80:6:1120:U:H2'	80:6:1121:C:C6	2.42	0.54
80:6:145:A:O2'	80:6:146:U:OP1	2.22	0.54
80:6:748:U:O2	80:6:802:G:C2	2.61	0.54
13:C1:83:THR:HG21	80:6:325:G:H4'	288.07	0.54
16:C4:133:ARG:HH21	16:C4:136:ARG:NH1	2.04	0.54
19:C7:26:LEU:HD23	19:C7:58:MET:HB3	3.22	0.54
20:C8:4:VAL:HG11	27:D5:82:HIS:ND1	2.72	0.54
26:D4:8:ARG:NH2	26:D4:10:ARG:HH21	2.05	0.54
40:L3:121:ASN:OD1	40:L3:124:LYS:NZ	6.95	0.54
41:L4:251:THR:O	41:L4:254:ALA:N	3.04	0.54
45:L8:137:ASN:OD1	51:M5:3:ALA:N	2.58	0.54
47:M0:76:MET:SD	47:M0:148:VAL:HG22	4.21	0.54
48:M1:89:TYR:O	48:M1:169:ALA:HB1	2.07	0.54
48:M1:21:ILE:HD12	48:M1:33:ALA:HB1	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:29:ARG:HA	48:M1:32:ARG:CZ	2.95	0.54
53:M7:31:GLU:OE2	53:M7:61:ARG:N	3.11	0.54
1:2:1707:U:H4'	60:N4:47:ARG:HH12	1.73	0.54
62:N6:58:VAL:HB	62:N6:63:LYS:O	2.07	0.54
63:N7:97:SER:N	63:N7:100:THR:OG1	2.39	0.54
63:N7:135:ARG:NH2	85:5:2557:A:H5'	197.62	0.54
97:1:3403:SPS:C8	98:P:101:8AN:H8	2.26	0.54
79:Q3:42:CYS:CB	79:Q3:60:CYS:SG	3.67	0.54
6:S4:131:LEU:CD1	6:S4:135:GLY:HA2	2.78	0.54
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.89	0.54
9:S7:182:VAL:HG12	9:S7:183:PHE:H	1.73	0.54
9:S7:89:HIS:CG	9:S7:165:LYS:HG2	3.69	0.54
10:S8:187:GLU:O	10:S8:190:ALA:N	2.41	0.54
10:S8:2:GLY:N	80:6:393:C:OP2	291.37	0.54
34:SR:32:LEU:HD21	34:SR:94:VAL:HG11	3.01	0.54
36:1:213:A:C5	36:1:214:G:C8	2.95	0.54
36:1:2635:A:H4'	36:1:2636:A:O5'	2.07	0.54
36:1:116:A:H5''	36:1:265:A:H2	1.73	0.54
36:1:2961:G:N1	36:1:2972:G:O6	2.41	0.54
36:1:3049:A:OP2	92:1:3711:OHX:N3	2.41	0.54
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.41	0.54
1:2:656:G:O2'	1:2:657:U:O4'	2.24	0.54
85:5:192:C:H2'	85:5:193:C:C6	2.43	0.54
85:5:3096:C:H2'	85:5:3097:C:C6	2.43	0.54
85:5:3255:U:H2'	85:5:3256:G:C8	2.43	0.54
85:5:3284:G:OP2	85:5:3284:G:H8	1.89	0.54
92:5:3565:OHX:N4	92:5:3574:OHX:N3	2.55	0.54
85:5:1754:G:OP1	92:5:3576:OHX:N1	2.41	0.54
32:E0:31:LYS:HG2	80:6:477:A:OP1	423.51	0.54
80:6:647:G:N2	80:6:687:G:N2	2.55	0.54
80:6:775:G:N2	80:6:786:C:N3	2.55	0.54
37:7:47:C:H2'	37:7:48:U:H6	1.72	0.54
37:7:57:G:C8	37:7:58:C:C5	2.96	0.54
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.41	0.54
15:C3:66:ILE:HG13	15:C3:67:THR:HG23	2.07	0.54
16:C4:86:THR:HB	16:C4:91:THR:HG22	3.69	0.54
17:C5:123:TYR:HH	20:C8:122:HIS:HE2	1.48	0.54
23:D1:58:TYR:O	23:D1:61:SER:OG	2.25	0.54
25:D3:114:LYS:HE2	80:6:571:G:C5'	362.95	0.54
25:D3:114:LYS:HE2	80:6:571:G:H5'	362.95	0.54
26:D4:20:ARG:HD3	26:D4:76:TYR:CE2	3.63	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:25:VAL:HG13	30:D8:44:VAL:O	2.28	0.54
40:L3:328:ILE:HG12	40:L3:329:PRO:HD2	2.03	0.54
40:L3:3:HIS:O	40:L3:4:ARG:O	2.26	0.54
43:L6:42:LEU:HD23	43:L6:84:VAL:HG13	4.66	0.54
44:L7:80:GLN:OE1	57:N1:136:ARG:HG2	2.08	0.54
45:L8:129:PRO:HB3	85:5:121:A:C2	102.18	0.54
51:M5:168:GLY:C	51:M5:170:LYS:N	2.94	0.54
55:M9:102:LEU:HD22	55:M9:138:LEU:HD12	1.90	0.54
60:N4:49:ILE:O	60:N4:52:THR:OG1	2.25	0.54
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.35	0.54
62:N6:37:LYS:HD3	62:N6:37:LYS:H	2.16	0.54
65:N9:28:LYS:HD2	65:N9:29:TYR:CD1	2.43	0.54
70:O4:51:LEU:HD23	70:O4:51:LEU:H	1.73	0.54
71:O5:59:ASN:OD1	71:O5:63:ARG:HG3	2.07	0.54
74:O8:43:PHE:O	74:O8:53:THR:HA	2.07	0.54
91:P:75:C:C3'	98:P:101:8AN:O4'	2.56	0.54
78:Q2:19:LYS:O	78:Q2:21:THR:HG23	2.07	0.54
78:Q2:10:THR:HA	78:Q2:20:HIS:CD2	3.30	0.54
1:2:744:G:H4'	11:S9:72:GLU:OE1	2.08	0.54
36:1:198:A:C6	36:1:219:A:C5	2.96	0.54
36:1:2261:G:H21	36:1:2262:A:H62	1.55	0.54
36:1:2676:A:N6	48:M1:22:SER:O	2.41	0.54
36:1:2699:G:H5'	36:1:2700:G:OP2	2.07	0.54
36:1:8:C:H4'	45:L8:183:LYS:NZ	2.22	0.54
1:2:1053:C:H2'	1:2:1054:U:C6	2.43	0.54
1:2:154:G:H8	1:2:154:G:O5'	1.91	0.54
1:2:1604:U:H2'	1:2:1605:G:H8	1.72	0.54
85:5:1517:G:H2'	85:5:1518:U:H6	1.73	0.54
39:L2:182:ALA:HB2	85:5:2148:U:O2'	210.79	0.54
39:L2:21:ARG:HD3	85:5:824:C:H5''	170.42	0.54
80:6:546:U:H2'	80:6:547:U:H6	1.72	0.54
80:6:55:A:H61	80:6:403:G:H1'	1.72	0.54
80:6:689:G:H2'	80:6:690:G:O4'	2.07	0.54
12:C0:55:VAL:HB	12:C0:68:LEU:HD12	3.30	0.54
19:C7:27:ASP:HB3	19:C7:30:THR:OG1	2.08	0.54
20:C8:112:ASP:O	20:C8:115:ARG:HB3	2.30	0.54
1:2:1264:G:OP1	22:D0:78:THR:HG21	2.07	0.54
41:L4:263:GLY:HA2	41:L4:268:ALA:O	2.18	0.54
41:L4:60:THR:HG22	41:L4:62:ALA:H	2.98	0.54
47:M0:77:THR:O	47:M0:79:VAL:N	2.41	0.54
49:M3:175:SER:O	49:M3:178:LYS:N	2.41	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:65:ASN:O	52:M6:67:THR:N	2.51	0.54
54:M8:133:LYS:HB2	54:M8:135:GLN:HE22	1.99	0.54
47:M0:169:LYS:HD2	57:N1:160:ILE:O	7.14	0.54
58:N2:93:ILE:HG21	58:N2:105:LEU:HD23	1.88	0.54
58:N2:51:GLY:C	58:N2:53:ALA:H	2.11	0.54
63:N7:6:LYS:O	63:N7:8:GLY:N	2.41	0.54
66:O0:30:THR:CG2	66:O0:91:SER:HB2	2.69	0.54
67:O1:41:LYS:HZ1	67:O1:47:ASP:CG	3.33	0.54
36:1:3120:C:C4	76:Q0:111:ARG:NH1	2.76	0.54
7:S5:161:ASP:OD2	30:D8:42:ARG:NH1	4.34	0.54
7:S5:162:VAL:HG22	7:S5:167:ARG:HG2	3.02	0.54
8:S6:20:ASP:HB3	8:S6:23:ARG:HD2	4.40	0.54
1:2:746:G:OP2	11:S9:79:ARG:HD3	2.08	0.54
36:1:2167:A:H8	36:1:2167:A:O5'	1.90	0.54
36:1:2724:U:OP1	57:N1:57:TYR:OH	2.24	0.54
36:1:2869:U:H5''	36:1:2870:C:OP2	2.08	0.54
36:1:2794:G:N7	92:1:3471:OHX:N2	2.55	0.54
1:2:1318:U:H2'	1:2:1319:A:H8	1.72	0.54
1:2:16:G:H2'	1:2:17:C:C6	2.43	0.54
1:2:956:A:H2'	1:2:957:A:C8	2.40	0.54
36:1:6:A:C2	38:4:154:C:C2	2.95	0.54
85:5:1498:A:H2'	85:5:1499:C:H6	1.73	0.54
85:5:2242:A:OP2	92:5:3677:OHX:N5	2.40	0.54
39:L2:70:ARG:NH2	85:5:2522:G:N1	174.14	0.54
85:5:287:G:H2'	85:5:288:C:C6	2.42	0.54
52:M6:68:ARG:HH12	85:5:2988:C:P	215.36	0.54
85:5:3287:U:C2'	85:5:3288:G:H5'	2.37	0.54
85:5:655:C:H2'	85:5:656:A:C8	2.42	0.54
73:O7:10:LYS:NZ	85:5:819:U:OP1	164.25	0.54
80:6:1742:U:H2'	80:6:1743:U:H6	1.73	0.54
80:6:441:A:OP2	80:6:459:G:N1	2.36	0.54
80:6:822:U:N3	80:6:823:G:C2	2.75	0.54
80:6:837:G:H2'	80:6:838:G:C8	2.43	0.54
38:8:157:U:H3'	38:8:158:U:H3'	1.90	0.54
38:8:2:A:OP2	92:8:201:OHX:N2	2.41	0.54
17:C5:96:ILE:HD13	17:C5:116:LEU:HB3	3.28	0.54
24:D2:87:GLU:O	24:D2:90:THR:OG1	2.23	0.54
31:D9:25:SER:HB2	92:D9:102:OHX:N4	2.23	0.54
32:E0:55:ARG:NH1	32:E0:58:PRO:HB3	2.19	0.54
39:L2:118:GLU:HG2	39:L2:156:LYS:NZ	2.22	0.54
36:1:577:C:OP1	44:L7:142:SER:OG	2.25	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:243:GLN:O	45:L8:246:MET:N	2.36	0.54
46:L9:135:GLU:O	46:L9:136:PHE:CD2	4.17	0.54
47:M0:156:ARG:O	47:M0:158:LYS:N	2.53	0.54
48:M1:65:ILE:HD12	85:5:2681:U:H5'	299.63	0.54
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.42	0.54
55:M9:6:THR:HG22	55:M9:10:LEU:HD22	2.81	0.54
56:N0:65:ASN:N	56:N0:65:ASN:OD1	2.96	0.54
50:M4:43:LYS:NZ	56:N0:96:ASP:OD2	3.40	0.54
58:N2:22:PRO:HB2	58:N2:28:PHE:HB2	2.10	0.54
64:N8:49:HIS:N	64:N8:50:PRO:HD3	2.69	0.54
4:S2:227:PRO:O	4:S2:230:TRP:HB2	2.74	0.54
7:S5:146:THR:HG23	7:S5:157:ARG:HB3	4.06	0.54
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.89	0.54
36:1:1158:A:O5'	36:1:1158:A:H8	1.90	0.54
36:1:1756:C:N4	36:1:1769:G:H1	2.05	0.54
36:1:1879:A:H4'	36:1:1880:U:OP2	2.08	0.54
36:1:2252:A:H61	36:1:2264:U:H3	1.56	0.54
36:1:600:G:H5'	36:1:601:U:OP2	2.08	0.54
36:1:773:G:N2	36:1:774:G:H1'	2.23	0.54
1:2:1604:U:H2'	1:2:1605:G:C8	2.43	0.54
1:2:327:U:H2'	1:2:328:A:C8	2.43	0.54
1:2:480:G:H22	1:2:509:G:H1'	1.71	0.54
37:3:97:A:H2'	37:3:98:C:H6	1.73	0.54
85:5:229:G:C2	85:5:230:U:C2	2.96	0.54
45:L8:48:ARG:NH2	85:5:2526:C:C2	186.95	0.54
85:5:3167:A:O2'	85:5:3168:A:OP1	2.22	0.54
85:5:618:C:O2'	85:5:621:A:N3	2.32	0.54
85:5:989:A:H2'	85:5:990:U:O4'	2.07	0.54
80:6:1255:G:O2'	80:6:1256:A:H8	1.89	0.54
80:6:1015:U:OP1	92:6:1910:OHX:N3	2.41	0.54
80:6:257:A:C2	80:6:258:C:C2	2.95	0.54
80:6:477:A:N7	80:6:538:A:N1	2.56	0.54
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	1.88	0.54
23:D1:5:LYS:H	23:D1:5:LYS:HD3	1.72	0.54
1:2:847:U:O2	29:D7:21:LEU:HB3	2.08	0.54
29:D7:28:PRO:O	29:D7:29:ARG:HD3	2.08	0.54
39:L2:30:ARG:HH22	39:L2:33:ASP:CG	3.35	0.54
42:L5:151:GLN:HG3	42:L5:159:VAL:HG21	1.90	0.54
42:L5:268:GLU:O	42:L5:270:LYS:N	3.39	0.54
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	2.23	0.54
46:L9:96:HIS:CE1	85:5:3024:A:H5'	337.03	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:142:SER:O	52:M6:145:VAL:N	3.39	0.54
52:M6:72:HIS:O	52:M6:74:ARG:NH1	2.40	0.54
53:M7:50:GLN:OE1	53:M7:56:ARG:HD3	2.08	0.54
44:L7:100:ARG:NH2	54:M8:4:ASP:OD1	2.90	0.54
56:N0:12:ARG:HD2	56:N0:22:PRO:HG2	3.17	0.54
56:N0:98:SER:OG	56:N0:98:SER:O	2.55	0.54
36:1:1807:G:H5'	63:N7:135:ARG:HH22	1.73	0.54
71:O5:6:ALA:HB1	71:O5:10:ARG:NH2	2.35	0.54
73:O7:39:TYR:CD2	73:O7:40:PRO:HA	2.68	0.54
3:S1:124:ASN:N	3:S1:124:ASN:OD1	2.40	0.54
3:S1:158:SER:HA	3:S1:161:ILE:HD12	2.21	0.54
4:S2:121:VAL:O	4:S2:125:ILE:HG13	2.06	0.54
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.08	0.54
36:1:1245:A:N6	36:1:1272:C:O2'	2.41	0.54
36:1:185:C:H2'	36:1:186:U:H6	1.73	0.54
36:1:2168:A:C6	36:1:2170:U:H1'	2.43	0.54
36:1:3169:U:H2'	36:1:3170:A:O4'	2.08	0.54
36:1:3280:U:O2'	36:1:3281:U:H5'	2.08	0.54
36:1:3389:U:HO2'	36:1:3390:G:P	2.31	0.54
36:1:677:A:H2'	36:1:785:G:O6	2.08	0.54
36:1:692:A:C4	36:1:693:A:C8	2.96	0.54
36:1:749:C:H6	36:1:749:C:O5'	1.91	0.54
1:2:1499:A:HO2'	1:2:1500:U:P	2.31	0.54
1:2:1637:G:C6	1:2:1728:G:C6	2.96	0.54
1:2:321:C:N4	1:2:1650:A:OP1	2.41	0.54
85:5:1576:G:H5'	85:5:1577:G:OP2	2.08	0.54
85:5:1782:U:H2'	85:5:1783:U:C6	2.43	0.54
85:5:209:A:O2'	85:5:211:A:OP2	2.19	0.54
85:5:2209:U:H4'	85:5:2210:G:OP1	2.07	0.54
85:5:2257:C:H6	85:5:2257:C:O5'	1.91	0.54
85:5:235:A:H2'	85:5:236:G:O4'	2.07	0.54
85:5:2651:G:H4'	85:5:2652:U:OP2	2.07	0.54
85:5:1019:G:O6	92:5:3731:OHX:N1	2.40	0.54
15:C3:151:ASN:C	92:C3:201:OHX:N6	2.73	0.54
15:C3:41:ALA:O	15:C3:44:GLY:N	2.40	0.54
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.90	0.54
22:D0:56:VAL:O	22:D0:89:ARG:HG3	2.08	0.54
26:D4:127:LYS:HG3	26:D4:128:LYS:N	2.22	0.54
27:D5:54:VAL:HG13	27:D5:57:TYR:CD1	2.43	0.54
33:E1:147:VAL:HG12	33:E1:148:TYR:CG	2.43	0.54
44:L7:190:THR:O	44:L7:192:GLY:N	3.57	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:92:TYR:N	46:L9:92:TYR:CD2	3.89	0.54
47:M0:42:THR:O	47:M0:139:ARG:NH2	3.20	0.54
50:M4:113:THR:HG22	50:M4:115:PHE:H	1.73	0.54
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.41	0.54
52:M6:3:VAL:HG13	52:M6:4:GLU:CG	2.38	0.54
62:N6:120:GLN:OE1	62:N6:126:LEU:HD23	2.43	0.54
62:N6:82:VAL:HG12	62:N6:82:VAL:O	2.41	0.54
63:N7:61:LYS:O	63:N7:64:LYS:N	2.77	0.54
66:O0:73:GLY:O	66:O0:76:GLU:HG2	2.07	0.54
67:O1:98:VAL:HG22	67:O1:99:ALA:N	2.22	0.54
68:O2:60:ASN:OD1	68:O2:61:LYS:N	2.40	0.54
70:O4:44:CYS:HB2	70:O4:81:CYS:HB3	1.90	0.54
70:O4:96:GLU:OE1	70:O4:99:LYS:NZ	2.72	0.54
4:S2:175:GLY:HA3	11:S9:97:LEU:O	2.52	0.54
4:S2:49:LYS:HE3	4:S2:246:GLU:OE1	2.24	0.54
6:S4:130:GLN:HG2	6:S4:138:TYR:CE2	5.41	0.54
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.89	0.54
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	2.95	0.54
35:SM:102:THR:OG1	35:SM:103:LYS:N	2.40	0.54
36:1:1148:G:N7	92:1:3697:OHX:N6	2.55	0.53
36:1:3049:A:N3	40:L3:75:ALA:HB2	2.22	0.53
1:2:1190:C:H42	1:2:1439:C:N4	1.99	0.53
1:2:1263:C:H2'	1:2:1264:G:H8	1.72	0.53
1:2:1640:U:H4'	1:2:1641:G:O5'	2.08	0.53
1:2:895:U:H4'	1:2:896:G:H3'	1.90	0.53
1:2:945:C:OP1	15:C3:70:LYS:HB3	2.07	0.53
85:5:1632:A:C6	85:5:1633:C:N4	2.77	0.53
85:5:2786:G:N2	85:5:2787:G:H1'	2.22	0.53
85:5:3163:A:C6	85:5:3288:G:O6	2.61	0.53
53:M7:3:ARG:NH2	85:5:398:A:N7	127.40	0.53
85:5:437:G:H1	85:5:622:A:H61	1.55	0.53
49:M3:59:ARG:HD3	85:5:73:C:C2	92.52	0.53
80:6:1590:G:H2'	80:6:1591:C:C6	2.43	0.53
80:6:188:A:H2'	80:6:189:C:O4'	2.07	0.53
14:C2:103:LEU:HD23	14:C2:115:VAL:HA	2.23	0.53
16:C4:19:ILE:HG23	16:C4:28:VAL:HG22	1.89	0.53
20:C8:64:GLU:O	20:C8:68:ARG:HG3	2.31	0.53
26:D4:27:VAL:HG11	26:D4:35:VAL:CG1	2.72	0.53
1:2:522:U:OP1	26:D4:37:LYS:HB2	2.07	0.53
28:D6:42:ARG:O	28:D6:66:LYS:HB3	2.07	0.53
28:D6:74:CYS:SG	28:D6:77:CYS:CB	2.96	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:132:LYS:HE3	85:5:3151:U:OP1	208.12	0.53
41:L4:175:HIS:O	41:L4:178:LEU:N	2.40	0.53
41:L4:94:CYS:O	41:L4:96:GLY:N	2.41	0.53
42:L5:99:TYR:HA	42:L5:161:GLY:O	2.91	0.53
42:L5:64:ILE:CG2	42:L5:75:LEU:HB3	2.38	0.53
44:L7:83:LEU:HD23	44:L7:84:VAL:N	3.99	0.53
45:L8:109:LEU:O	45:L8:113:ALA:N	2.41	0.53
45:L8:50:VAL:HB	45:L8:52:TRP:NE1	3.78	0.53
45:L8:97:TYR:O	45:L8:132:VAL:HG12	2.08	0.53
46:L9:87:LYS:HZ2	46:L9:191:LEU:HD11	14.64	0.53
49:M3:158:ALA:O	49:M3:160:GLN:HG2	2.71	0.53
49:M3:162:ASN:ND2	49:M3:164:GLU:OE1	5.74	0.53
50:M4:120:VAL:O	50:M4:124:ARG:HB2	2.77	0.53
52:M6:8:VAL:HG22	52:M6:34:VAL:HG22	1.90	0.53
53:M7:20:SER:O	53:M7:22:LEU:HD23	2.08	0.53
53:M7:48:LEU:HD22	53:M7:88:VAL:HG13	3.05	0.53
56:N0:128:GLU:HG2	56:N0:128:GLU:O	2.69	0.53
56:N0:87:THR:C	56:N0:88:HIS:ND1	2.60	0.53
61:N5:96:LYS:HE3	61:N5:107:VAL:HB	1.90	0.53
38:4:83:C:H42	62:N6:52:ARG:HH22	1.55	0.53
64:N8:4:ARG:NH1	64:N8:5:PHE:CZ	2.76	0.53
64:N8:65:GLN:C	64:N8:67:HIS:H	2.05	0.53
66:O0:36:GLN:OE1	66:O0:38:LYS:HD2	2.08	0.53
79:Q3:13:LYS:HD2	79:Q3:14:TYR:CZ	2.43	0.53
3:S1:178:GLY:O	3:S1:179:SER:HB2	3.45	0.53
6:S4:184:THR:C	6:S4:189:LEU:HD13	3.05	0.53
6:S4:184:THR:O	6:S4:189:LEU:HD13	3.96	0.53
6:S4:187:ARG:HH22	80:6:753:A:H62	374.95	0.53
10:S8:138:ASN:ND2	80:6:197:A:H61	277.45	0.53
36:1:2523:A:C2	36:1:2587:U:C4	2.96	0.53
36:1:2751:G:N7	92:1:3640:OHX:N6	2.57	0.53
36:1:64:G:H1	36:1:322:U:H2'	1.73	0.53
36:1:621:A:N6	92:1:3720:OHX:N4	2.52	0.53
36:1:589:A:C8	36:1:610:G:C4	2.96	0.53
1:2:1095:G:OP2	1:2:1096:A:O2'	2.15	0.53
1:2:1217:A:OP2	92:2:2035:OHX:N3	2.41	0.53
1:2:582:U:H3'	1:2:583:C:H6	1.72	0.53
1:2:742:U:H5''	92:S9:201:OHX:N4	2.23	0.53
36:1:2585:G:C2	38:4:151:C:H5	2.26	0.53
38:4:46:G:C5	38:4:47:C:C5	2.96	0.53
85:5:1517:G:O2'	85:5:1518:U:H5'	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:240:U:O2'	85:5:241:G:H8	1.91	0.53
85:5:2437:G:H1	85:5:2510:U:H3	1.54	0.53
85:5:2842:U:C5	85:5:2843:U:C5	2.96	0.53
85:5:3107:U:H2'	85:5:3108:G:C8	2.43	0.53
85:5:3343:G:O2'	85:5:3362:A:N6	2.40	0.53
92:5:3534:OHX:N3	92:5:3580:OHX:N6	2.56	0.53
92:5:3576:OHX:N5	92:5:3634:OHX:N2	2.56	0.53
80:6:1045:C:H2'	80:6:1046:G:C8	2.43	0.53
80:6:21:U:H2'	80:6:22:A:C8	2.43	0.53
80:6:235:G:H2'	80:6:236:A:C8	2.42	0.53
80:6:63:G:H4'	80:6:170:U:H5	1.73	0.53
17:C5:85:ILE:HG22	17:C5:112:LEU:HD23	1.89	0.53
21:C9:76:LEU:HD22	21:C9:80:TYR:CE2	2.43	0.53
25:D3:48:HIS:HB3	25:D3:103:LEU:HD21	2.50	0.53
39:L2:209:HIS:HD2	39:L2:210:PRO:N	2.06	0.53
40:L3:366:GLY:HA3	85:5:3330:A:H4'	218.98	0.53
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.09	0.53
44:L7:191:VAL:HG12	44:L7:192:GLY:N	4.00	0.53
44:L7:89:ILE:HG22	44:L7:220:PHE:CE1	2.43	0.53
45:L8:166:LEU:HB2	45:L8:167:PRO:HD3	2.20	0.53
46:L9:114:VAL:N	46:L9:124:ARG:O	2.39	0.53
46:L9:88:TYR:CZ	46:L9:184:LYS:HD3	2.79	0.53
47:M0:150:GLU:O	47:M0:150:GLU:HG3	2.08	0.53
47:M0:47:PRO:HB3	47:M0:171:TRP:CE2	2.51	0.53
48:M1:116:TYR:CE1	48:M1:118:PRO:HA	2.43	0.53
49:M3:85:LEU:HD23	49:M3:85:LEU:N	2.57	0.53
58:N2:18:ASP:OD2	58:N2:20:SER:OG	2.23	0.53
64:N8:47:LYS:HE2	64:N8:48:TYR:CE2	2.43	0.53
54:M8:178:ARG:HG2	64:N8:51:GLY:HA3	3.15	0.53
65:N9:7:HIS:CD2	65:N9:8:THR:N	2.76	0.53
76:Q0:110:CYS:SG	76:Q0:111:ARG:N	3.31	0.53
78:Q2:12:CYS:SG	78:Q2:74:CYS:HB2	2.78	0.53
2:S0:10:THR:OG1	2:S0:13:ASP:OD2	2.25	0.53
2:S0:57:LEU:O	2:S0:60:ALA:HB3	2.20	0.53
3:S1:70:LEU:HA	3:S1:73:LEU:HG	1.89	0.53
4:S2:90:THR:C	4:S2:92:ALA:H	2.12	0.53
6:S4:10:LYS:O	6:S4:12:LEU:N	2.95	0.53
6:S4:173:ILE:HG22	6:S4:174:LYS:O	2.08	0.53
6:S4:66:MET:HG3	80:6:454:U:C6	372.76	0.53
36:1:1128:U:OP1	47:M0:4:ARG:NH2	2.32	0.53
36:1:1282:G:H2'	36:1:1283:C:O4'	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:239:G:H8	36:1:239:G:O5'	1.91	0.53
36:1:2573:G:OP2	36:1:2573:G:H8	1.91	0.53
36:1:3107:U:OP2	76:Q0:112:LYS:HE3	2.08	0.53
92:1:3600:OHX:N5	92:1:3648:OHX:N2	2.56	0.53
1:2:419:G:C6	1:2:420:A:C5	2.96	0.53
37:3:16:U:O2'	37:3:17:A:H5'	2.06	0.53
37:3:57:G:H3'	37:3:58:C:H6	1.73	0.53
85:5:950:G:C2	85:5:1370:G:O6	2.61	0.53
85:5:1462:A:C5	85:5:1463:U:C5	2.97	0.53
85:5:823:C:HO2'	85:5:1535:A:HO2'	1.55	0.53
85:5:2315:G:OP2	92:5:3475:OHX:N6	2.40	0.53
42:L5:23:ARG:NH2	85:5:2703:A:OP2	283.47	0.53
85:5:2921:U:H2'	85:5:2923:U:OP2	2.08	0.53
92:5:3625:OHX:N3	92:5:3643:OHX:N5	2.56	0.53
80:6:651:G:O2'	92:6:2016:OHX:N3	2.41	0.53
80:6:678:A:H2'	80:6:679:U:O4'	2.08	0.53
80:6:72:A:H2'	80:6:73:U:O4'	2.08	0.53
80:6:770:A:OP2	92:6:1990:OHX:N3	2.40	0.53
80:6:837:G:C6	92:6:1955:OHX:N1	2.75	0.53
42:L5:8:LYS:HE2	37:7:15:C:H4'	310.31	0.53
15:C3:12:SER:HB3	80:6:956:C:O5'	334.63	0.53
16:C4:81:VAL:HG22	16:C4:115:ILE:HG21	1.89	0.53
18:C6:97:VAL:HG22	18:C6:98:ASP:N	2.24	0.53
21:C9:76:LEU:HD22	21:C9:80:TYR:HE2	1.72	0.53
25:D3:6:PRO:HG3	25:D3:14:LYS:HG2	1.89	0.53
31:D9:31:ILE:N	31:D9:38:ILE:O	3.20	0.53
40:L3:46:PHE:CZ	40:L3:84:VAL:HG13	2.42	0.53
42:L5:88:ILE:HG12	42:L5:240:TYR:HE1	1.74	0.53
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.49	0.53
44:L7:153:PHE:HD2	44:L7:153:PHE:N	2.21	0.53
45:L8:152:LEU:HB3	45:L8:180:VAL:CG2	2.71	0.53
46:L9:101:VAL:HG12	46:L9:136:PHE:HE1	1.73	0.53
46:L9:92:TYR:CZ	46:L9:101:VAL:HG21	2.44	0.53
51:M5:163:GLY:O	51:M5:172:ARG:NH1	2.41	0.53
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.08	0.53
55:M9:123:LEU:O	55:M9:126:GLU:N	2.58	0.53
58:N2:35:LYS:O	58:N2:38:ILE:N	2.95	0.53
59:N3:33:ASN:HD21	59:N3:63:LYS:HB2	1.73	0.53
60:N4:47:ARG:O	60:N4:55:PHE:HD2	2.28	0.53
36:1:2741:C:O2'	78:Q2:20:HIS:ND1	2.29	0.53
4:S2:230:TRP:CE2	24:D2:68:ARG:HD2	3.79	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1310:C:HO2'	5:S3:159:HIS:HD1	1.50	0.53
5:S3:52:ALA:O	5:S3:91:VAL:HG22	2.08	0.53
7:S5:26:ALA:HB3	18:C6:28:LEU:N	2.97	0.53
9:S7:55:LYS:HE3	9:S7:87:ASP:HA	3.59	0.53
36:1:1107:C:H2'	36:1:1108:U:C6	2.43	0.53
36:1:1400:G:C2	36:1:1401:A:C8	2.96	0.53
36:1:1582:C:O2'	36:1:1583:A:O5'	2.21	0.53
36:1:1598:G:OP2	70:O4:31:ARG:NH2	2.36	0.53
36:1:2380:U:C2	36:1:2381:G:C8	2.97	0.53
36:1:2419:A:C2	36:1:2420:C:C2	2.97	0.53
36:1:3171:U:H3	36:1:3279:A:H61	1.56	0.53
36:1:863:C:OP1	92:1:3419:OHX:N2	2.41	0.53
36:1:539:C:H2'	36:1:540:U:H6	1.72	0.53
36:1:978:G:O2'	36:1:979:U:O2	2.23	0.53
1:2:1286:U:OP2	92:2:2040:OHX:N4	2.41	0.53
85:5:1440:G:H2'	85:5:1441:G:C8	2.43	0.53
63:N7:17:ARG:NH2	85:5:1634:G:N7	198.30	0.53
85:5:1877:U:H5''	85:5:1878:G:C5'	2.38	0.53
40:L3:240:ARG:NH2	85:5:1907:C:O2	216.60	0.53
57:N1:57:TYR:OH	85:5:2724:U:OP1	222.95	0.53
85:5:2823:G:O6	92:5:3456:OHX:N4	2.42	0.53
85:5:2838:A:C2	85:5:2851:A:C4	2.96	0.53
52:M6:156:LEU:HD13	85:5:3243:A:C8	262.85	0.53
80:6:1150:G:H5''	80:6:1151:A:O5'	2.09	0.53
80:6:243:G:N2	80:6:251:A:C5	2.76	0.53
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.89	0.53
13:C1:27:THR:OG1	13:C1:29:LYS:HG2	2.08	0.53
15:C3:67:THR:O	15:C3:69:ASN:N	2.40	0.53
16:C4:123:SER:HB2	80:6:885:G:H21	286.88	0.53
18:C6:6:SER:HA	18:C6:23:LYS:HA	2.11	0.53
19:C7:104:ASN:O	19:C7:107:SER:OG	2.23	0.53
5:S3:211:PRO:HG3	19:C7:20:TYR:CE1	2.43	0.53
20:C8:46:VAL:HG21	20:C8:73:MET:HG2	1.91	0.53
26:D4:8:ARG:HB2	26:D4:26:ASP:HB3	1.90	0.53
27:D5:49:ARG:O	27:D5:53:GLU:HB2	2.33	0.53
39:L2:149:ARG:NH2	39:L2:253:GLN:HA	5.06	0.53
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.43	0.53
40:L3:4:ARG:CD	40:L3:7:GLU:HA	2.39	0.53
41:L4:191:LYS:HB2	41:L4:194:TYR:CZ	4.38	0.53
42:L5:134:ALA:HB2	42:L5:141:PRO:HD3	2.28	0.53
45:L8:148:ALA:HA	45:L8:201:THR:CG2	2.36	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:129:ARG:HB2	46:L9:132:VAL:CG1	2.38	0.53
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.08	0.53
47:M0:211:ARG:O	47:M0:214:PRO:HG3	2.08	0.53
48:M1:29:ARG:HA	48:M1:32:ARG:NH2	2.52	0.53
51:M5:172:ARG:HD2	85:5:30:G:O5'	111.42	0.53
54:M8:170:ARG:O	54:M8:171:LYS:HB2	2.29	0.53
58:N2:33:TYR:CE1	58:N2:37:LEU:HD11	2.42	0.53
61:N5:113:LEU:HD11	61:N5:115:ARG:HG2	1.91	0.53
38:4:83:C:H42	62:N6:52:ARG:NH2	2.07	0.53
64:N8:88:ASP:N	64:N8:88:ASP:OD2	4.13	0.53
66:O0:73:GLY:N	66:O0:76:GLU:HG3	2.24	0.53
67:O1:14:ILE:HG13	67:O1:39:PHE:CD1	3.87	0.53
68:O2:13:HIS:CE1	68:O2:17:PHE:CZ	3.71	0.53
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.43	0.53
2:S0:164:ASN:OD1	2:S0:165:ARG:NH1	2.41	0.53
2:S0:87:LEU:HD12	2:S0:97:PRO:HB2	1.91	0.53
34:SR:7:LEU:HD11	34:SR:251:TRP:HZ3	1.73	0.53
36:1:1245:A:H3'	36:1:1246:G:H5''	1.90	0.53
36:1:1393:A:N3	36:1:1419:A:O2'	2.41	0.53
36:1:1412:G:O2'	36:1:1413:G:H5'	2.09	0.53
36:1:1740:U:H4'	36:1:1741:A:H5'	1.89	0.53
36:1:210:U:C2	36:1:230:U:H4'	2.44	0.53
36:1:211:A:OP1	41:L4:220:ARG:HD2	2.09	0.53
36:1:2375:G:O2'	36:1:2377:G:OP2	2.22	0.53
36:1:549:U:H2'	36:1:550:A:C8	2.43	0.53
1:2:614:C:C2	1:2:615:A:C8	2.96	0.53
85:5:1087:G:C2	85:5:1088:U:C5	2.96	0.53
85:5:1289:G:H2'	85:5:1290:A:H8	1.72	0.53
85:5:217:U:H2'	85:5:218:G:OP1	2.08	0.53
85:5:2249:G:N2	85:5:2250:G:C4	2.76	0.53
85:5:2254:U:H2'	85:5:2261:G:N2	2.24	0.53
85:5:2407:C:O2	85:5:2818:U:N3	2.29	0.53
85:5:2610:G:O6	92:5:3675:OHX:N6	2.42	0.53
85:5:3384:U:C2	85:5:3385:U:C6	2.97	0.53
85:5:1930:A:O2'	92:5:3431:OHX:N3	2.42	0.53
80:6:1013:A:H2'	80:6:1014:G:O4'	2.09	0.53
80:6:176:C:H3'	80:6:177:U:C6	2.44	0.53
38:8:4:C:C4	38:8:5:U:C4	2.97	0.53
13:C1:21:ASN:HD21	13:C1:31:THR:HG22	4.96	0.53
15:C3:136:PRO:HG2	15:C3:139:TRP:HB2	1.91	0.53
21:C9:60:SER:O	21:C9:64:HIS:N	3.10	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:17:GLN:HG3	22:D0:18:GLN:H	5.78	0.53
22:D0:18:GLN:O	22:D0:96:PRO:HB3	3.14	0.53
23:D1:9:VAL:HG22	23:D1:10:GLU:H	2.32	0.53
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.63	0.53
32:E0:12:GLY:O	32:E0:16:SER:OG	2.32	0.53
39:L2:15:ILE:HG22	39:L2:16:PHE:CD2	7.04	0.53
39:L2:209:HIS:CD2	39:L2:211:HIS:H	2.27	0.53
40:L3:222:LYS:HG2	40:L3:223:GLY:N	2.45	0.53
41:L4:143:GLU:HB3	41:L4:144:LYS:HZ2	9.10	0.53
41:L4:145:ILE:HD12	41:L4:150:LEU:HG	2.75	0.53
42:L5:111:GLN:OE1	42:L5:251:PRO:HG2	2.09	0.53
45:L8:78:PHE:CD2	45:L8:179:ILE:HD13	3.10	0.53
45:L8:71:VAL:HG12	45:L8:76:ALA:HB2	1.90	0.53
46:L9:163:GLN:O	46:L9:166:ARG:NH1	2.32	0.53
36:1:1127:G:H5'	47:M0:118:ALA:O	2.09	0.53
52:M6:54:TYR:O	52:M6:57:PHE:N	2.91	0.53
57:N1:56:PHE:O	57:N1:58:GLN:N	2.42	0.53
63:N7:14:VAL:O	63:N7:15:ARG:HG2	2.08	0.53
64:N8:91:LEU:HD12	64:N8:121:VAL:HG21	1.90	0.53
67:O1:55:LEU:O	67:O1:59:ILE:HG13	2.08	0.53
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.73	0.53
2:S0:29:VAL:HG22	2:S0:30:GLN:N	2.99	0.53
5:S3:138:VAL:HA	5:S3:183:GLY:O	3.25	0.53
6:S4:180:LEU:HD23	6:S4:194:THR:HG22	2.52	0.53
6:S4:180:LEU:N	6:S4:229:GLY:O	2.38	0.53
9:S7:164:TYR:CD1	9:S7:165:LYS:HG3	3.01	0.53
10:S8:26:LYS:HD2	10:S8:29:LEU:HD13	1.91	0.53
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.44	0.53
35:SM:27:LYS:HD2	48:M1:68:HIS:HE1	5.34	0.53
36:1:1191:U:C2	52:M6:48:PHE:CE1	2.97	0.53
36:1:2508:U:H2'	36:1:2509:U:C6	2.44	0.53
36:1:2651:G:H4'	36:1:2652:U:OP2	2.08	0.53
36:1:2747:A:H2'	36:1:2748:A:C8	2.43	0.53
36:1:307:A:N6	36:1:2782:U:H3	2.07	0.53
36:1:3110:C:C2	36:1:3111:U:C6	2.95	0.53
36:1:28:C:O2'	36:1:61:A:N3	2.39	0.53
1:2:280:U:O2'	1:2:281:G:OP2	2.23	0.53
1:2:330:G:C6	1:2:331:A:C5	2.96	0.53
37:3:1:G:H4'	42:L5:273:ARG:NH2	2.24	0.53
85:5:238:A:H2'	85:5:239:G:C8	2.43	0.53
42:L5:36:LEU:HD23	85:5:2748:A:N3	254.75	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3264:G:O6	92:5:3617:OHX:N2	2.41	0.53
54:M8:160:GLY:O	85:5:780:A:H5''	172.57	0.53
21:C9:12:GLN:OE1	80:6:1529:C:O2'	383.57	0.53
8:S6:94:ARG:NH2	80:6:406:U:O2'	289.25	0.53
80:6:620:A:N7	80:6:621:A:C6	2.77	0.53
17:C5:87:PRO:O	17:C5:90:ILE:HG13	3.50	0.53
18:C6:142:TYR:O	18:C6:143:ARG:HB3	2.07	0.53
2:S0:50:VAL:HG23	19:C7:109:LEU:HD21	3.48	0.53
20:C8:87:ASN:H	20:C8:99:HIS:CE1	2.99	0.53
26:D4:55:VAL:HG12	26:D4:75:VAL:HG22	7.38	0.53
33:E1:90:LYS:HB2	33:E1:93:HIS:NE2	11.40	0.53
46:L9:48:VAL:CG1	46:L9:52:LEU:HB3	2.38	0.53
47:M0:210:ILE:HA	47:M0:217:PHE:CD2	3.86	0.53
47:M0:75:TYR:CE2	47:M0:79:VAL:HG21	3.40	0.53
51:M5:174:ILE:O	51:M5:174:ILE:HG22	2.48	0.53
53:M7:31:GLU:OE2	53:M7:61:ARG:HG3	3.63	0.53
54:M8:141:ARG:HH11	85:5:727:G:H21	177.82	0.53
54:M8:69:ARG:O	54:M8:71:LEU:N	2.94	0.53
58:N2:29:ASP:OD2	58:N2:31:ALA:HB3	4.57	0.53
62:N6:115:ARG:O	62:N6:119:ILE:HG13	2.50	0.53
62:N6:69:LYS:O	62:N6:83:ASP:N	2.70	0.53
62:N6:81:GLN:OE1	62:N6:96:PRO:HB2	3.36	0.53
63:N7:16:GLY:O	63:N7:18:TYR:N	2.42	0.53
63:N7:90:GLU:O	63:N7:92:PHE:N	3.02	0.53
64:N8:2:PRO:HA	85:5:1428:A:OP2	134.30	0.53
68:O2:32:TRP:CZ2	68:O2:53:PRO:HD2	2.70	0.53
36:1:944:C:H4'	68:O2:33:ARG:CZ	2.38	0.53
69:O3:8:TYR:HB2	69:O3:100:ILE:O	2.08	0.53
36:1:1489:A:OP1	70:O4:10:ARG:HD2	2.08	0.53
2:S0:71:GLU:HA	2:S0:95:ALA:N	2.24	0.53
3:S1:84:ILE:HD13	3:S1:103:MET:HB2	2.74	0.53
4:S2:41:LEU:HD21	4:S2:61:LEU:HD13	2.53	0.53
4:S2:88:LYS:O	4:S2:95:ARG:N	3.02	0.53
6:S4:141:THR:OG1	6:S4:143:ASP:OD2	2.39	0.53
8:S6:191:ARG:O	8:S6:195:VAL:HG23	2.09	0.53
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.08	0.53
9:S7:35:LYS:NZ	9:S7:39:ARG:HD2	2.24	0.53
10:S8:62:THR:HG22	10:S8:77:ARG:HA	2.63	0.53
34:SR:201:THR:HB	34:SR:242:SER:HA	1.89	0.53
34:SR:84:SER:OG	34:SR:85:TRP:N	2.62	0.53
36:1:116:A:H5''	36:1:265:A:C2	2.44	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2196:C:H2'	36:1:2242:A:H61	1.73	0.53
36:1:2947:G:H4'	36:1:2947:G:OP2	2.09	0.53
36:1:317:A:C2	36:1:318:A:C4	2.97	0.53
36:1:2350:C:H4'	36:1:3308:C:O2'	2.08	0.53
1:2:966:A:N1	1:2:1002:A:C6	2.76	0.53
1:2:1015:G:C6	1:2:1087:U:C4	2.97	0.53
1:2:153:G:OP2	26:D4:131:ARG:NH2	2.24	0.53
1:2:497:G:O2'	1:2:498:G:C8	2.62	0.53
1:2:511:A:OP2	11:S9:176:ASN:ND2	2.40	0.53
38:4:26:U:H5''	38:4:27:U:OP2	2.08	0.53
85:5:100:A:C2'	85:5:101:G:H5'	2.38	0.53
67:O1:57:GLN:HG2	85:5:1475:A:H4'	146.61	0.53
85:5:1667:A:H2'	85:5:1668:G:C8	2.44	0.53
55:M9:117:LYS:HE2	85:5:1718:G:H4'	248.59	0.53
80:6:1564:U:H2'	80:6:1565:C:H6	1.74	0.53
80:6:1579:U:OP2	92:6:2039:OHX:N3	2.42	0.53
80:6:542:A:OP1	80:6:544:A:C5	2.62	0.53
80:6:687:G:O5'	80:6:687:G:H8	1.92	0.53
16:C4:50:ALA:C	16:C4:52:ARG:N	2.98	0.53
17:C5:18:ARG:HB2	17:C5:36:LEU:HD12	1.90	0.53
17:C5:18:ARG:HD2	17:C5:36:LEU:O	2.39	0.53
22:D0:20:ILE:HG22	22:D0:21:LYS:H	5.41	0.53
25:D3:86:PHE:O	25:D3:124:VAL:HG23	2.09	0.53
30:D8:13:ILE:HD11	30:D8:31:GLU:HB2	1.90	0.53
31:D9:10:HIS:ND1	31:D9:11:PRO:HD2	2.24	0.53
39:L2:3:ARG:HG2	39:L2:4:VAL:H	2.20	0.53
40:L3:13:HIS:CE1	40:L3:15:GLY:H	2.25	0.53
41:L4:162:THR:OG1	41:L4:218:ALA:O	3.33	0.53
41:L4:29:PRO:CB	54:M8:25:TYR:HE2	4.70	0.53
42:L5:218:ARG:O	42:L5:221:GLU:N	2.42	0.53
46:L9:150:SER:HG	46:L9:153:ASP:H	1.51	0.53
46:L9:90:MET:HB3	46:L9:180:TYR:O	2.08	0.53
37:3:40:C:H5'	48:M1:43:GLN:HG2	1.91	0.53
49:M3:100:ARG:O	49:M3:101:ARG:HB3	4.67	0.53
53:M7:147:GLU:O	53:M7:147:GLU:HG3	2.85	0.53
36:1:729:C:O2'	54:M8:79:LYS:HE2	2.09	0.53
59:N3:17:LEU:HD21	59:N3:98:ASN:CG	2.64	0.53
61:N5:80:ASN:HD21	61:N5:126:LEU:HB2	1.73	0.53
54:M8:157:PRO:HG3	64:N8:47:LYS:HB2	1.89	0.53
64:N8:71:PRO:HB2	64:N8:109:TYR:HA	1.91	0.53
65:N9:28:LYS:HD3	65:N9:29:TYR:H	1.73	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:31:ARG:HB3	67:O1:31:ARG:NH1	2.23	0.53
2:S0:69:ASN:OD1	4:S2:244:SER:OG	2.27	0.53
9:S7:141:ARG:NH2	9:S7:143:LEU:HD21	3.15	0.53
36:1:139:G:H2'	36:1:140:C:O4'	2.08	0.53
36:1:2317:A:C5	36:1:2318:U:C5	2.97	0.53
36:1:2885:C:C4	36:1:2886:U:C4	2.96	0.53
36:1:3172:A:H1'	52:M6:101:ARG:HH21	1.74	0.53
36:1:3205:G:H2'	36:1:3206:C:C5	2.44	0.53
36:1:726:G:N2	36:1:743:C:C5	2.76	0.53
36:1:975:C:H2'	36:1:976:U:H6	1.69	0.53
1:2:1158:U:H2'	1:2:1159:G:H8	1.74	0.53
1:2:1506:G:OP1	1:2:1506:G:H2'	2.09	0.53
1:2:332:U:P	10:S8:56:ARG:HH22	2.32	0.53
1:2:495:C:H3'	1:2:496:G:C4'	2.39	0.53
1:2:562:G:N2	1:2:584:C:C2	2.77	0.53
1:2:975:A:OP1	92:2:1913:OHX:N2	2.41	0.53
37:3:27:A:P	42:L5:57:ASN:H	2.32	0.53
37:3:91:G:H2'	37:3:92:A:C8	2.44	0.53
38:4:141:C:OP2	92:4:220:OHX:N3	2.41	0.53
38:4:99:C:OP1	61:N5:53:HIS:NE2	2.42	0.53
58:N2:82:LYS:NZ	85:5:1682:U:O2	158.74	0.53
85:5:2105:G:H2'	85:5:2106:A:H8	1.72	0.53
85:5:2707:C:H2'	85:5:2708:C:C6	2.43	0.53
64:N8:61:PHE:CZ	85:5:283:G:H2'	148.27	0.53
43:L6:69:PHE:CZ	85:5:3267:A:H2'	258.75	0.53
85:5:3342:A:C6	85:5:3343:G:C5	2.97	0.53
85:5:78:U:H2'	85:5:79:U:H6	1.74	0.53
80:6:1148:C:O2'	80:6:1149:G:H5'	2.08	0.53
80:6:1784:C:H2'	80:6:1785:U:C6	2.44	0.53
80:6:325:G:C2	80:6:344:A:C2	2.97	0.53
25:D3:3:LYS:HE2	80:6:614:C:OP1	352.63	0.53
15:C3:40:TYR:O	15:C3:45:LEU:HB2	3.37	0.53
19:C7:21:TYR:OH	19:C7:62:GLN:OE1	2.27	0.53
26:D4:120:GLY:O	80:6:85:A:H4'	338.42	0.53
39:L2:58:LEU:HD13	39:L2:75:ILE:CG2	2.39	0.53
40:L3:258:ALA:O	40:L3:259:HIS:CG	2.62	0.53
36:1:3122:A:H2	46:L9:67:ALA:HB2	1.74	0.53
46:L9:90:MET:HE3	46:L9:181:VAL:HA	3.10	0.53
47:M0:4:ARG:NH1	47:M0:99:ILE:HG13	2.24	0.53
49:M3:159:VAL:HA	64:N8:124:ILE:HD11	1.90	0.53
52:M6:73:PHE:CD1	52:M6:78:ARG:HG2	2.44	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:100:THR:HG22	54:M8:120:GLU:HB3	3.24	0.53
54:M8:183:GLY:O	92:M8:201:OHX:N2	4.78	0.53
63:N7:104:PRO:O	63:N7:108:GLU:HG3	2.29	0.53
64:N8:25:HIS:C	64:N8:25:HIS:CD2	3.07	0.53
67:O1:62:ARG:HB2	67:O1:66:GLY:O	2.08	0.53
6:S4:193:GLY:C	6:S4:194:THR:HG1	2.11	0.53
34:SR:66:HIS:HB2	34:SR:86:ASP:HB3	3.04	0.53
36:1:1542:G:O6	92:1:3552:OHX:N2	2.42	0.53
36:1:1766:G:OP2	36:1:1766:G:H8	1.91	0.53
36:1:2831:G:C6	36:1:2832:C:C4	2.96	0.53
36:1:2890:A:H61	36:1:2913:C:H42	1.57	0.53
36:1:665:A:H1'	49:M3:14:PHE:CE1	2.43	0.53
36:1:708:G:N2	36:1:711:A:OP2	2.35	0.53
36:1:761:A:C2	36:1:771:A:H1'	2.44	0.53
1:2:1508:A:H2'	1:2:1509:A:C8	2.44	0.53
1:2:1589:C:H2'	1:2:1590:G:C8	2.43	0.53
1:2:1633:U:H2'	1:2:1634:A:C8	2.44	0.53
1:2:285:G:O6	8:S6:185:GLN:NE2	2.42	0.53
1:2:475:A:N7	1:2:476:U:C4	2.76	0.53
1:2:632:U:H2'	1:2:633:U:O4'	2.08	0.53
65:N9:50:THR:HB	85:5:1073:U:H1'	206.22	0.53
85:5:1598:G:H2'	85:5:1599:G:H8	1.74	0.53
85:5:1814:A:C2	85:5:1816:A:C2	2.97	0.53
85:5:181:U:N3	85:5:182:U:C2	2.77	0.53
85:5:1932:A:H5'	85:5:1933:A:OP2	2.09	0.53
80:6:477:A:C5	80:6:538:A:C6	2.97	0.53
80:6:749:U:H2'	80:6:750:U:C6	2.44	0.53
10:S8:69:SER:HB2	13:C1:22:ASN:OD1	2.09	0.53
18:C6:120:ASP:OD2	18:C6:122:ARG:NH2	4.03	0.53
18:C6:140:LYS:HD2	18:C6:142:TYR:CE1	5.28	0.53
18:C6:68:ARG:NH2	18:C6:70:THR:OG1	6.07	0.53
23:D1:32:VAL:HB	23:D1:60:ARG:HD2	3.42	0.53
23:D1:74:GLN:HA	23:D1:79:LEU:HB2	1.91	0.53
39:L2:243:THR:OG1	85:5:2244:A:H5''	229.26	0.53
92:1:3711:OHX:N4	40:L3:364:LYS:HB3	2.24	0.53
42:L5:88:ILE:HD12	42:L5:240:TYR:CE1	4.43	0.53
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.44	0.53
51:M5:113:LEU:HD12	51:M5:134:LEU:HD22	3.76	0.53
51:M5:4:TYR:O	51:M5:7:LEU:N	2.89	0.53
68:O2:7:PRO:HG2	68:O2:63:THR:HG23	3.30	0.53
36:1:284:A:O4'	78:Q2:41:ARG:HD2	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:176:VAL:HB	3:S1:177:GLN:OE1	2.09	0.53
4:S2:111:VAL:O	4:S2:136:VAL:HA	2.08	0.53
4:S2:83:ILE:HG21	4:S2:121:VAL:HG13	3.67	0.53
4:S2:157:LYS:HG2	4:S2:170:ILE:HG23	2.58	0.53
5:S3:106:LYS:O	5:S3:110:LEU:HB2	2.08	0.53
8:S6:161:GLU:HA	8:S6:169:TYR:O	2.67	0.53
8:S6:176:GLN:HG3	8:S6:177:ARG:H	1.89	0.53
9:S7:46:ILE:HG12	9:S7:60:ILE:HA	2.37	0.53
36:1:2689:A:H2'	36:1:2689:A:N3	2.23	0.53
36:1:343:U:OP2	92:1:3420:OHX:N6	2.42	0.53
36:1:802:C:C2'	36:1:803:C:H5'	2.39	0.53
1:2:226:A:N6	1:2:818:U:H3	2.06	0.53
1:2:284:G:N7	8:S6:188:ARG:NH1	2.57	0.53
1:2:542:A:H5''	1:2:544:A:C8	2.44	0.53
85:5:1108:U:H2'	85:5:1109:U:C6	2.44	0.53
85:5:2224:A:N7	85:5:2225:U:H1'	2.23	0.53
85:5:271:C:H4'	85:5:317:A:H2	1.74	0.53
85:5:2956:A:H8	85:5:2956:A:O5'	1.92	0.53
92:5:3555:OHX:N5	92:5:3703:OHX:N6	2.57	0.53
51:M5:84:PRO:HD2	85:5:44:U:P	166.49	0.53
80:6:264:G:O6	92:6:1913:OHX:N5	2.42	0.53
37:7:33:U:H2'	37:7:34:C:O4'	2.08	0.53
51:M5:110:ALA:HB2	38:8:141:C:H4'	111.01	0.53
38:8:80:A:N3	38:8:82:U:O4	2.42	0.53
12:C0:38:LYS:HB2	12:C0:41:TYR:CD2	3.72	0.53
12:C0:23:ALA:CB	12:C0:64:TYR:HB2	4.14	0.53
13:C1:13:PHE:CE2	13:C1:15:LYS:HB3	2.44	0.53
13:C1:17:PRO:HG3	13:C1:63:LEU:HD11	1.90	0.53
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.91	0.53
42:L5:261:THR:OG1	42:L5:264:GLN:HG3	2.09	0.53
43:L6:172:HIS:H	43:L6:172:HIS:HD1	1.57	0.53
47:M0:75:TYR:CD1	47:M0:75:TYR:O	3.63	0.53
51:M5:98:LEU:HD23	51:M5:128:LYS:HD2	1.90	0.53
52:M6:41:LEU:HD21	52:M6:80:PHE:HD1	3.08	0.53
56:N0:61:ILE:O	56:N0:61:ILE:HG23	2.08	0.53
36:1:304:G:C2	64:N8:62:HIS:ND1	2.77	0.53
77:Q1:4:LYS:HG2	77:Q1:5:TRP:CZ3	2.44	0.53
3:S1:117:TRP:HE1	3:S1:152:ARG:NH1	2.07	0.53
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.42	0.53
6:S4:191:ARG:HH11	6:S4:245:LYS:HB3	1.74	0.53
11:S9:20:GLU:HG3	11:S9:23:ARG:HB3	5.12	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1077:U:O2	36:1:1083:G:C2	2.63	0.52
36:1:1734:G:H2'	36:1:1735:G:O4'	2.09	0.52
36:1:2226:U:H6	36:1:2226:U:O5'	1.93	0.52
36:1:3198:U:O4	46:L9:26:LYS:HB2	2.09	0.52
36:1:353:G:N7	73:O7:55:ARG:HD3	2.24	0.52
36:1:381:U:H2'	36:1:382:U:H6	1.74	0.52
36:1:501:A:H2'	36:1:502:U:H6	1.74	0.52
1:2:417:A:H4'	1:2:418:G:O5'	2.08	0.52
1:2:689:A:C6	1:2:717:A:N6	2.77	0.52
38:4:41:A:N6	38:4:103:G:O2'	2.34	0.52
57:N1:102:ARG:NH2	85:5:1061:A:O3'	237.47	0.52
85:5:1223:A:H8	85:5:1223:A:OP2	1.92	0.52
85:5:1562:C:H2'	85:5:1563:C:C6	2.44	0.52
85:5:2289:U:H2'	85:5:2290:C:C6	2.44	0.52
85:5:50:U:H2'	85:5:50:U:O2	2.09	0.52
80:6:106:U:H2'	80:6:107:C:O4'	2.09	0.52
80:6:1146:G:C6	80:6:1147:A:C5	2.97	0.52
80:6:1230:A:C8	80:6:1258:U:C4	2.96	0.52
80:6:17:C:H2'	80:6:18:C:C6	2.44	0.52
80:6:235:G:H2'	80:6:236:A:H8	1.74	0.52
80:6:82:U:H2'	80:6:83:G:O4'	2.09	0.52
80:6:919:A:H2'	80:6:920:U:H6	1.74	0.52
12:C0:14:TYR:CE1	12:C0:18:GLU:HG3	2.81	0.52
15:C3:27:LYS:H	15:C3:27:LYS:CD	2.21	0.52
1:2:1443:A:C4	17:C5:128:HIS:CD2	2.97	0.52
27:D5:42:LEU:O	27:D5:46:LYS:HB2	2.08	0.52
1:2:1598:C:H5''	30:D8:18:ARG:HH22	1.74	0.52
1:2:1236:U:H5''	33:E1:130:VAL:HB	1.89	0.52
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.48	0.52
45:L8:101:THR:H	45:L8:104:GLU:HB2	1.74	0.52
45:L8:133:LYS:HD2	45:L8:138:HIS:HE1	1.73	0.52
45:L8:200:LEU:HD22	45:L8:202:GLU:O	2.08	0.52
51:M5:165:THR:O	51:M5:169:LYS:HG3	2.49	0.52
53:M7:69:ARG:CG	53:M7:79:THR:HG22	4.04	0.52
44:L7:74:SER:HB3	57:N1:141:VAL:O	2.62	0.52
58:N2:104:ARG:NH1	58:N2:106:ALA:HB2	3.48	0.52
63:N7:46:ILE:HD13	63:N7:49:TYR:N	4.06	0.52
64:N8:86:LYS:O	64:N8:89:GLN:HB2	2.08	0.52
67:O1:43:HIS:O	67:O1:44:MET:HE2	5.78	0.52
68:O2:91:THR:HG22	68:O2:92:TYR:CD2	3.11	0.52
69:O3:18:ARG:HA	69:O3:23:ASN:HA	1.95	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:O3:23:ASN:C	69:O3:23:ASN:OD1	2.56	0.52
69:O3:6:ARG:HD2	69:O3:8:TYR:O	2.10	0.52
78:Q2:14:GLY:O	78:Q2:18:ARG:HG3	4.06	0.52
3:S1:194:ASN:ND2	3:S1:211:HIS:HA	2.23	0.52
3:S1:70:LEU:CD1	3:S1:79:HIS:HB3	2.39	0.52
4:S2:227:PRO:HA	4:S2:230:TRP:CD1	2.49	0.52
4:S2:238:SER:C	4:S2:240:LEU:H	2.12	0.52
4:S2:53:ILE:O	4:S2:56:ILE:N	2.42	0.52
9:S7:96:ARG:HH22	9:S7:128:ASP:CG	2.12	0.52
11:S9:27:GLU:HB3	11:S9:39:LYS:HD2	1.91	0.52
36:1:1565:G:N2	36:1:1574:C:C2	2.77	0.52
36:1:2254:U:H2'	36:1:2261:G:H22	1.73	0.52
36:1:2961:G:C6	36:1:2972:G:O6	2.62	0.52
36:1:3159:C:OP1	92:1:3683:OHX:N1	2.43	0.52
92:1:3507:OHX:N3	92:1:3691:OHX:N2	2.58	0.52
36:1:600:G:C2	36:1:604:G:C6	2.97	0.52
1:2:1467:G:C2	1:2:1468:C:C5	2.97	0.52
1:2:1766:C:OP2	77:Q1:1:MET:HB2	2.09	0.52
1:2:312:A:H2	1:2:314:C:H2'	1.74	0.52
1:2:327:U:C2	1:2:328:A:C8	2.97	0.52
1:2:432:G:C6	1:2:433:C:N3	2.76	0.52
43:L6:2:SER:N	85:5:1385:C:O2	134.81	0.52
85:5:1534:A:N6	85:5:1587:A:C8	2.77	0.52
85:5:1741:A:C6	85:5:1742:U:C2	2.96	0.52
85:5:1822:C:H2'	85:5:1823:A:C8	2.44	0.52
39:L2:226:SER:HB2	85:5:2202:C:H5''	208.38	0.52
85:5:2731:U:OP2	92:5:3725:OHX:N2	2.42	0.52
85:5:2906:C:C2	85:5:2907:G:C8	2.98	0.52
85:5:327:A:C4	85:5:328:U:C5	2.98	0.52
85:5:439:C:C4'	85:5:440:A:H5'	2.38	0.52
80:6:1358:G:H2'	80:6:1359:C:C6	2.44	0.52
80:6:30:G:H2'	80:6:31:C:C6	2.44	0.52
17:C5:25:LEU:O	17:C5:28:MET:HE2	4.39	0.52
25:D3:92:CYS:SG	25:D3:132:LEU:HD12	2.49	0.52
26:D4:129:VAL:O	26:D4:132:ARG:HB3	2.32	0.52
28:D6:49:ALA:O	28:D6:53:LEU:HB2	2.22	0.52
32:E0:41:THR:O	32:E0:45:VAL:HB	3.01	0.52
44:L7:174:GLY:HA2	44:L7:177:GLY:O	2.32	0.52
45:L8:195:SER:O	45:L8:197:VAL:N	2.41	0.52
46:L9:57:VAL:HG12	46:L9:58:HIS:N	2.98	0.52
49:M3:131:LYS:NZ	49:M3:131:LYS:HB3	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:122:ASN:O	51:M5:129:TYR:HD2	1.98	0.52
51:M5:168:GLY:C	51:M5:170:LYS:H	2.62	0.52
49:M3:16:LYS:HE3	51:M5:195:ASN:OD1	2.09	0.52
51:M5:24:ARG:HH11	51:M5:24:ARG:HG2	3.89	0.52
52:M6:39:GLU:OE1	52:M6:39:GLU:N	2.40	0.52
53:M7:115:SER:OG	53:M7:149:VAL:HG22	2.09	0.52
53:M7:85:ALA:O	53:M7:87:SER:N	2.94	0.52
55:M9:23:TRP:HB3	55:M9:51:VAL:HG22	1.92	0.52
55:M9:99:LEU:O	55:M9:99:LEU:HD22	2.09	0.52
36:1:2557:A:H5'	63:N7:135:ARG:HH11	1.74	0.52
64:N8:14:HIS:O	64:N8:16:SER:N	2.36	0.52
66:O0:12:GLN:O	66:O0:15:ALA:HB3	2.21	0.52
67:O1:55:LEU:O	67:O1:55:LEU:HD13	2.09	0.52
67:O1:50:ARG:NH2	67:O1:90:PHE:CZ	4.57	0.52
70:O4:44:CYS:SG	70:O4:47:CYS:SG	3.10	0.52
77:Q1:13:LEU:HD11	77:Q1:17:ARG:NH2	2.25	0.52
2:S0:41:ARG:HE	2:S0:45:VAL:CG2	2.22	0.52
2:S0:89:PHE:O	2:S0:93:THR:HG23	2.37	0.52
1:2:867:A:H4'	3:S1:124:ASN:HD21	1.71	0.52
5:S3:222:VAL:C	5:S3:223:LYS:HD2	3.16	0.52
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.91	0.52
7:S5:121:ILE:HG13	7:S5:195:ALA:HB1	2.75	0.52
8:S6:78:THR:HG22	8:S6:92:ARG:HG2	1.91	0.52
11:S9:9:SER:O	80:6:471:A:O2'	390.92	0.52
34:SR:89:LEU:O	34:SR:103:PHE:HD2	1.92	0.52
36:1:1161:G:C2	36:1:1162:U:C5	2.97	0.52
36:1:950:G:N7	36:1:1367:G:C6	2.78	0.52
36:1:1550:C:H2'	36:1:1551:C:H6	1.74	0.52
36:1:1727:G:H2'	36:1:1728:G:H21	1.73	0.52
36:1:2337:C:H6	36:1:2337:C:O5'	1.92	0.52
36:1:2532:U:H3	36:1:2547:A:H61	1.57	0.52
36:1:2700:G:O2'	36:1:2705:A:N1	2.40	0.52
36:1:283:G:O6	36:1:304:G:H1'	2.09	0.52
36:1:813:G:H2'	36:1:814:U:H6	1.73	0.52
1:2:330:G:O6	1:2:331:A:N6	2.42	0.52
1:2:788:U:O4	1:2:789:A:N6	2.43	0.52
36:1:1419:A:H5'	38:4:20:U:O3'	2.10	0.52
85:5:1105:A:C6	85:5:1106:G:C5	2.97	0.52
85:5:1313:G:H2'	85:5:1314:C:C6	2.45	0.52
85:5:278:U:H2'	85:5:279:U:H6	1.74	0.52
85:5:3242:G:H5'	85:5:3245:A:H8	1.73	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:109:PRO:HB3	85:5:3243:A:N3	259.47	0.52
85:5:2322:C:OP1	92:5:3659:OHX:N6	2.42	0.52
85:5:438:A:H2'	85:5:494:G:N2	2.25	0.52
80:6:418:G:N2	80:6:419:G:C4	2.77	0.52
80:6:427:C:N4	80:6:428:A:H62	2.07	0.52
85:5:21:G:H1	38:8:138:A:H61	1.55	0.52
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	2.68	0.52
14:C2:62:LEU:HB2	14:C2:120:VAL:HG22	1.91	0.52
16:C4:126:THR:HG21	80:6:888:U:H1'	275.00	0.52
25:D3:48:HIS:ND1	25:D3:105:ALA:HB2	2.24	0.52
41:L4:181:VAL:HG11	41:L4:223:PRO:O	2.68	0.52
41:L4:264:SER:HB2	41:L4:265:GLU:OE1	2.09	0.52
45:L8:42:PRO:HD2	45:L8:44:ARG:NH1	2.24	0.52
46:L9:86:TYR:O	46:L9:147:SER:HA	2.28	0.52
47:M0:36:LEU:HD23	47:M0:73:ASN:ND2	2.24	0.52
52:M6:27:LEU:O	52:M6:101:ARG:NH1	2.43	0.52
52:M6:12:LYS:HA	52:M6:40:GLU:O	2.70	0.52
56:N0:98:SER:OG	56:N0:100:VAL:N	2.34	0.52
59:N3:13:ILE:HG13	59:N3:14:SER:N	3.05	0.52
61:N5:113:LEU:HD12	61:N5:114:VAL:N	2.24	0.52
61:N5:136:ALA:HB1	61:N5:141:TYR:CE1	2.44	0.52
63:N7:88:ASP:HB3	63:N7:121:ARG:NH2	2.24	0.52
70:O4:80:ARG:NH1	70:O4:88:ARG:HH22	2.06	0.52
4:S2:241:ASP:HA	4:S2:244:SER:HB2	1.90	0.52
6:S4:246:LEU:HD21	6:S4:254:ARG:CZ	2.40	0.52
6:S4:249:ALA:O	6:S4:252:ARG:NH2	5.51	0.52
7:S5:157:ARG:N	7:S5:157:ARG:HE	4.05	0.52
36:1:1472:U:H2'	36:1:1473:G:C8	2.45	0.52
36:1:1574:C:C4	36:1:1575:A:N7	2.77	0.52
36:1:1791:C:H2'	36:1:1792:C:C5	2.44	0.52
36:1:1807:G:N7	36:1:1808:G:C6	2.77	0.52
36:1:2152:A:C2	36:1:2185:G:C2	2.97	0.52
36:1:2218:G:O2'	36:1:2219:A:H5'	2.09	0.52
36:1:2652:U:C5	36:1:2653:C:C5	2.98	0.52
36:1:2815:G:H3'	36:1:2816:G:H5''	1.92	0.52
36:1:3015:G:C2	36:1:3040:A:N3	2.77	0.52
36:1:2616:C:O2'	92:1:3644:OHX:N2	2.42	0.52
92:1:3565:OHX:N1	92:1:3729:OHX:N3	2.58	0.52
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.42	0.52
36:1:887:G:N1	36:1:888:A:C2	2.77	0.52
36:1:901:G:OP1	73:O7:12:HIS:NE2	2.35	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1166:A:C6	1:2:1167:A:N1	2.77	0.52
1:2:350:U:O2	1:2:352:A:C6	2.62	0.52
1:2:473:A:H5'	1:2:752:A:H1'	1.90	0.52
85:5:1043:C:O5'	85:5:1043:C:H6	1.93	0.52
85:5:1868:G:H8	85:5:1868:G:O5'	1.91	0.52
85:5:3220:G:C5	85:5:3221:C:C5	2.98	0.52
85:5:378:A:C8	85:5:379:C:C5	2.97	0.52
85:5:537:A:C2	85:5:557:A:C4	2.97	0.52
85:5:678:G:C6	85:5:679:U:C4	2.98	0.52
85:5:916:G:H4'	85:5:917:A:O5'	2.08	0.52
80:6:1486:G:H21	80:6:1593:A:P	2.32	0.52
80:6:836:U:H2'	80:6:837:G:H8	1.75	0.52
14:C2:50:LYS:HE2	33:E1:103:LEU:HD11	1.92	0.52
16:C4:32:ASP:N	16:C4:37:GLU:O	2.35	0.52
20:C8:15:LEU:HD22	20:C8:15:LEU:H	3.39	0.52
41:L4:84:ARG:HG3	41:L4:84:ARG:O	2.07	0.52
46:L9:129:ARG:HB2	46:L9:132:VAL:HG11	1.91	0.52
46:L9:49:ASN:OD1	46:L9:51:GLN:N	3.47	0.52
48:M1:166:LYS:C	48:M1:168:ASP:N	3.37	0.52
48:M1:19:LEU:N	48:M1:19:LEU:HD23	2.71	0.52
51:M5:50:ARG:HH11	85:5:267:G:H4'	111.55	0.52
53:M7:47:TYR:OH	53:M7:58:ILE:HD13	2.51	0.52
54:M8:63:SER:O	54:M8:67:ILE:HG13	3.04	0.52
55:M9:12:ALA:HB1	55:M9:17:VAL:O	2.40	0.52
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.50	0.52
63:N7:89:VAL:HG13	63:N7:89:VAL:O	2.09	0.52
64:N8:56:VAL:O	64:N8:57:GLY:O	2.27	0.52
66:O0:41:LEU:HA	66:O0:66:LYS:O	2.84	0.52
67:O1:72:ARG:NH2	67:O1:105:GLN:O	2.72	0.52
69:O3:103:TYR:HA	69:O3:105:SER:N	3.00	0.52
76:Q0:97:ARG:HG3	76:Q0:120:GLN:O	2.10	0.52
3:S1:144:ARG:NH1	3:S1:202:LYS:HE2	7.46	0.52
4:S2:222:TYR:OH	23:D1:11:LEU:O	2.27	0.52
7:S5:136:ALA:HA	7:S5:201:ALA:O	2.10	0.52
34:SR:167:VAL:HG12	34:SR:183:LEU:HD12	1.92	0.52
34:SR:249:ARG:CZ	34:SR:315:VAL:HG21	4.26	0.52
36:1:1148:G:HO2'	36:1:1171:G:HO2'	1.51	0.52
36:1:1210:U:OP1	46:L9:62:ARG:NH1	2.42	0.52
36:1:1752:A:OP2	92:1:3580:OHX:N5	2.42	0.52
36:1:1822:C:H2'	36:1:1823:A:H8	1.74	0.52
36:1:3133:C:H2'	36:1:3134:A:O4'	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:813:G:C4	36:1:814:U:C5	2.98	0.52
1:2:1466:A:H2	1:2:1590:G:H1'	1.74	0.52
1:2:185:U:H5'	1:2:186:C:OP2	2.10	0.52
1:2:28:A:H2'	1:2:29:U:C6	2.44	0.52
85:5:982:C:H42	85:5:1101:G:H1	1.57	0.52
85:5:1728:G:H5''	85:5:1730:G:O4'	2.09	0.52
75:O9:44:TRP:CZ3	85:5:1842:A:H1'	123.66	0.52
85:5:3081:C:H2'	85:5:3082:C:H6	1.75	0.52
85:5:597:G:N3	85:5:598:A:C8	2.78	0.52
85:5:652:G:P	92:5:3671:OHX:N6	2.82	0.52
80:6:1679:G:O6	92:6:2049:OHX:N3	2.42	0.52
80:6:456:A:C6	80:6:457:G:C5	2.97	0.52
80:6:54:C:H2'	80:6:55:A:H8	1.73	0.52
13:C1:36:LYS:HE3	13:C1:59:PRO:O	2.10	0.52
18:C6:97:VAL:HG22	18:C6:98:ASP:H	1.74	0.52
1:2:1573:G:OP1	21:C9:91:TYR:HB2	2.09	0.52
22:D0:61:LYS:CG	22:D0:86:ILE:HB	2.40	0.52
1:2:159:U:H5'	26:D4:117:LYS:HD3	1.91	0.52
28:D6:18:VAL:HG21	28:D6:33:ASP:HB3	4.49	0.52
41:L4:258:LEU:C	41:L4:260:GLN:N	2.63	0.52
42:L5:62:CYS:HB3	42:L5:105:ILE:HG13	1.92	0.52
43:L6:129:GLU:N	92:L6:202:OHX:N1	2.58	0.52
45:L8:123:GLN:C	45:L8:125:ALA:H	3.15	0.52
45:L8:55:TYR:O	45:L8:59:GLN:HG2	2.10	0.52
53:M7:32:THR:HG21	53:M7:87:SER:CB	2.56	0.52
57:N1:57:TYR:HD1	57:N1:76:ILE:HG21	2.05	0.52
59:N3:86:ARG:HD2	59:N3:92:PHE:CE2	2.50	0.52
62:N6:51:ARG:HG3	62:N6:52:ARG:N	3.07	0.52
67:O1:27:LYS:O	67:O1:30:PRO:HD2	2.26	0.52
2:S0:29:VAL:HG13	2:S0:30:GLN:N	3.57	0.52
2:S0:35:PRO:C	2:S0:37:VAL:H	2.12	0.52
2:S0:38:PHE:HB2	2:S0:49:ASN:HD22	2.61	0.52
4:S2:67:GLN:HA	4:S2:70:ASP:HB2	2.21	0.52
5:S3:59:LEU:HA	5:S3:66:ILE:HB	3.03	0.52
6:S4:126:VAL:HG22	6:S4:156:VAL:HA	2.66	0.52
7:S5:54:LYS:HE3	7:S5:131:GLN:NE2	5.53	0.52
7:S5:222:LYS:HA	7:S5:225:ARG:HH11	4.43	0.52
7:S5:64:VAL:HG22	7:S5:89:ILE:HD11	2.29	0.52
9:S7:77:LEU:O	9:S7:81:LEU:HG	2.43	0.52
36:1:2317:A:C4	36:1:2318:U:C6	2.98	0.52
36:1:2564:G:C5	36:1:2565:U:C5	2.97	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2727:A:OP2	36:1:2728:G:N2	2.40	0.52
36:1:297:G:OP2	36:1:297:G:N2	2.27	0.52
36:1:3060:C:O2	36:1:3332:U:O2'	2.19	0.52
36:1:861:C:H2'	36:1:862:U:C6	2.45	0.52
36:1:874:U:OP1	40:L3:241:LYS:HG3	2.10	0.52
1:2:1401:G:C2	1:2:1402:G:C8	2.98	0.52
1:2:639:U:O4	9:S7:100:PRO:HB3	2.10	0.52
1:2:718:C:O2'	1:2:719:C:H5''	2.10	0.52
85:5:1438:U:C2	85:5:1439:U:C5	2.98	0.52
85:5:1502:C:C4	85:5:1515:A:N1	2.78	0.52
62:N6:12:ARG:HD3	85:5:215:G:OP1	89.08	0.52
85:5:2404:A:C6	95:5:3401:PHE:CZ	2.97	0.52
40:L3:241:LYS:HG2	85:5:874:U:OP1	211.23	0.52
80:6:478:A:C2	80:6:511:A:N1	2.76	0.52
80:6:514:G:N7	80:6:537:G:N2	2.57	0.52
14:C2:54:ARG:HG3	14:C2:56:GLU:HG3	3.58	0.52
1:2:886:U:H4'	16:C4:135:ARG:NH2	2.24	0.52
19:C7:106:THR:O	19:C7:109:LEU:HB3	2.10	0.52
4:S2:230:TRP:NE1	24:D2:68:ARG:HB2	3.75	0.52
30:D8:26:THR:O	30:D8:44:VAL:HG22	2.63	0.52
40:L3:92:TYR:CE2	40:L3:101:SER:HB3	2.70	0.52
41:L4:265:GLU:OE1	41:L4:265:GLU:HA	4.01	0.52
43:L6:129:GLU:HA	92:L6:202:OHX:N4	2.24	0.52
43:L6:153:PRO:O	43:L6:154:LEU:HB2	2.10	0.52
44:L7:174:GLY:O	44:L7:176:TYR:N	2.46	0.52
44:L7:195:PHE:O	44:L7:196:LYS:C	2.90	0.52
57:N1:101:CYS:HB3	85:5:990:U:C1'	252.51	0.52
57:N1:45:ASN:H	57:N1:95:HIS:CE1	2.68	0.52
59:N3:127:PRO:HA	59:N3:130:ALA:HB3	2.66	0.52
66:O0:41:LEU:HD22	66:O0:42:ILE:H	2.91	0.52
71:O5:9:LEU:O	71:O5:11:THR:N	2.43	0.52
2:S0:129:ASP:O	2:S0:132:ALA:N	2.41	0.52
3:S1:104:ASP:OD1	3:S1:214:LYS:HD3	2.09	0.52
7:S5:68:ILE:HD13	7:S5:69:PHE:H	5.11	0.52
9:S7:67:LEU:HD11	9:S7:94:ALA:HB2	1.91	0.52
10:S8:26:LYS:HE3	80:6:396:G:O6	304.79	0.52
10:S8:62:THR:HA	10:S8:76:THR:O	2.61	0.52
11:S9:28:LEU:HD22	11:S9:31:ALA:HB3	1.90	0.52
17:C5:121:ILE:HG12	35:SM:57:ASN:ND2	2.25	0.52
34:SR:231:MET:HB3	34:SR:232:TYR:HD2	1.74	0.52
36:1:1070:U:C4	36:1:1071:U:C4	2.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3183:A:H2	36:1:3188:G:H4'	1.74	0.52
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.42	0.52
1:2:1145:C:O2	1:2:1599:G:N2	2.43	0.52
1:2:518:A:O2'	1:2:534:A:N6	2.42	0.52
1:2:885:G:H8	1:2:885:G:O5'	1.93	0.52
1:2:898:A:OP1	92:2:1971:OHX:N3	2.43	0.52
37:3:57:G:H3'	37:3:58:C:C6	2.45	0.52
85:5:1232:C:H2'	85:5:1233:G:H8	1.74	0.52
85:5:1802:C:H6	85:5:1802:C:O5'	1.92	0.52
85:5:2661:G:H2'	85:5:2662:G:C8	2.45	0.52
85:5:2846:U:C3'	85:5:2846:U:C6	2.92	0.52
85:5:3274:A:O2'	85:5:3275:U:C6	2.62	0.52
85:5:359:U:C4	85:5:360:G:C6	2.97	0.52
92:5:3670:OHX:N2	38:8:16:G:OP1	2.42	0.52
85:5:611:A:C8	85:5:612:U:C5	2.97	0.52
85:5:729:C:H6	85:5:729:C:O5'	1.92	0.52
85:5:897:U:H2'	85:5:898:U:H6	1.75	0.52
80:6:1080:U:H2'	80:6:1081:A:C8	2.44	0.52
80:6:1125:A:N7	80:6:1126:G:H1'	2.23	0.52
80:6:1268:G:H1'	80:6:1448:G:H5''	1.91	0.52
8:S6:87:ARG:HH11	80:6:159:U:H1'	321.87	0.52
38:8:6:U:H2'	38:8:7:U:C6	2.44	0.52
19:C7:27:ASP:OD2	19:C7:29:GLN:N	2.43	0.52
40:L3:102:LEU:HD23	40:L3:102:LEU:N	2.23	0.52
40:L3:250:ALA:HB3	85:5:2880:U:H1'	223.12	0.52
41:L4:206:LEU:O	41:L4:248:VAL:HA	2.10	0.52
46:L9:162:GLN:HE22	76:Q0:89:TYR:HD1	1.78	0.52
46:L9:29:GLY:HA3	46:L9:82:VAL:HG13	2.41	0.52
47:M0:89:VAL:HG13	47:M0:136:PHE:HE1	1.73	0.52
49:M3:186:ARG:NH2	85:5:767:U:H5'	154.77	0.52
49:M3:32:LYS:HA	49:M3:35:ARG:CZ	2.87	0.52
50:M4:54:PRO:O	50:M4:56:GLN:HG2	2.10	0.52
40:L3:261:MET:HG2	52:M6:64:PHE:HA	1.92	0.52
54:M8:63:SER:OG	54:M8:64:VAL:N	3.04	0.52
57:N1:90:ASN:O	57:N1:91:LEU:HD23	2.09	0.52
58:N2:99:LYS:HB2	58:N2:102:GLU:HB2	1.92	0.52
38:4:85:G:P	62:N6:113:LYS:NZ	2.83	0.52
69:O3:62:SER:OG	69:O3:63:LYS:N	2.83	0.52
71:O5:33:VAL:O	71:O5:36:LEU:HG	2.47	0.52
79:Q3:24:ARG:O	79:Q3:27:LYS:N	2.71	0.52
2:S0:12:GLU:O	2:S0:16:LEU:HG	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1274:G:OP1	4:S2:97:ARG:NH2	2.42	0.52
6:S4:52:LEU:HD13	6:S4:54:TYR:CE2	2.45	0.52
8:S6:5:ILE:HD12	8:S6:16:PHE:CD2	2.45	0.52
36:1:1104:G:H2'	36:1:1105:A:H8	1.74	0.52
36:1:1411:C:P	68:O2:98:HIS:HB3	2.50	0.52
36:1:1783:U:H2'	36:1:1784:G:C8	2.45	0.52
36:1:182:U:H2'	36:1:183:G:H8	1.74	0.52
36:1:1881:A:H2'	36:1:1882:G:H8	1.75	0.52
36:1:2206:G:H1	36:1:2237:C:H42	1.57	0.52
36:1:2507:C:H6	36:1:2507:C:OP2	1.93	0.52
36:1:2766:U:H2'	36:1:2767:U:C6	2.44	0.52
36:1:3218:A:H4'	36:1:3219:G:O5'	2.10	0.52
36:1:3358:U:H2'	36:1:3359:A:O4'	2.10	0.52
36:1:353:G:O2'	36:1:354:U:OP2	2.27	0.52
92:1:3565:OHX:N6	92:1:3578:OHX:N3	2.58	0.52
36:1:76:G:H3'	49:M3:73:ARG:HD3	1.92	0.52
1:2:1008:A:H5'	1:2:1009:A:OP1	2.10	0.52
1:2:68:A:O5'	1:2:69:G:H5''	2.10	0.52
1:2:864:A:H2'	1:2:865:U:O4'	2.10	0.52
85:5:1096:U:H4'	85:5:1097:G:C5'	2.40	0.52
85:5:1572:U:HO2'	85:5:1573:G:H8	1.56	0.52
85:5:2770:G:H1	85:5:2788:C:H42	1.57	0.52
85:5:923:C:N4	85:5:926:A:H1'	2.25	0.52
80:6:1315:U:P	80:6:1328:G:H1	2.32	0.52
80:6:1561:U:H2'	80:6:1562:G:H8	1.74	0.52
10:S8:43:ILE:O	80:6:260:U:H5	276.93	0.52
80:6:526:A:N6	80:6:527:A:C6	2.78	0.52
51:M5:60:VAL:HG21	38:8:142:C:H4'	104.17	0.52
16:C4:131:GLY:O	16:C4:134:GLY:N	2.62	0.52
1:2:899:U:H3	16:C4:41:ARG:NH2	2.08	0.52
21:C9:33:TYR:HH	21:C9:99:SER:HG	1.57	0.52
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.22	0.52
24:D2:93:LEU:O	24:D2:94:LEU:HD23	2.79	0.52
1:2:1738:A:H8	25:D3:63:GLN:HG3	1.74	0.52
25:D3:46:SER:OG	25:D3:78:LYS:NZ	3.31	0.52
26:D4:77:ASN:OD1	26:D4:77:ASN:N	3.96	0.52
27:D5:71:ILE:HG13	27:D5:73:GLY:H	8.43	0.52
1:2:1776:G:N2	28:D6:76:SER:OG	2.36	0.52
39:L2:206:PRO:HA	39:L2:212:GLY:HA3	2.39	0.52
40:L3:116:ARG:HG2	40:L3:175:LYS:HA	1.91	0.52
40:L3:332:ARG:NH1	40:L3:333:LYS:HD2	4.49	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:261:THR:O	42:L5:264:GLN:HB2	2.10	0.52
44:L7:65:ALA:HB1	44:L7:76:TYR:CE1	3.47	0.52
46:L9:103:ILE:HG22	46:L9:104:VAL:N	2.52	0.52
47:M0:141:LYS:O	47:M0:143:SER:N	2.42	0.52
47:M0:32:ARG:HG3	47:M0:32:ARG:O	2.10	0.52
49:M3:57:VAL:N	49:M3:112:ASN:OD1	2.33	0.52
55:M9:15:VAL:CG1	55:M9:52:LYS:HD2	5.22	0.52
57:N1:79:MET:HB2	57:N1:84:TYR:CE2	5.12	0.52
59:N3:27:ASP:OD2	59:N3:29:SER:OG	2.22	0.52
62:N6:56:VAL:HG22	62:N6:104:LEU:HB3	1.92	0.52
65:N9:31:SER:OG	65:N9:33:LYS:N	3.34	0.52
2:S0:175:TYR:HE1	2:S0:197:ILE:HG22	2.84	0.52
2:S0:200:ASP:N	2:S0:200:ASP:OD1	2.42	0.52
6:S4:251:GLU:HB3	6:S4:255:ARG:NH2	2.25	0.52
7:S5:84:LYS:HG2	7:S5:92:ARG:NH1	2.18	0.52
9:S7:80:GLU:HA	9:S7:83:LYS:HE2	2.22	0.52
11:S9:83:VAL:O	11:S9:107:ARG:NE	3.10	0.52
11:S9:163:PRO:HB3	11:S9:169:PRO:HA	2.30	0.52
34:SR:302:PHE:HD1	34:SR:312:VAL:HG12	1.74	0.52
36:1:1557:A:N7	36:1:1559:A:N6	2.58	0.52
36:1:1582:C:HO2'	36:1:1583:A:P	2.33	0.52
36:1:1615:C:H2'	36:1:1616:U:C6	2.45	0.52
36:1:2419:A:C2	36:1:2420:C:C4	2.98	0.52
36:1:2615:G:OP1	92:1:3705:OHX:N4	2.42	0.52
36:1:3120:C:C5	76:Q0:111:ARG:NH1	2.78	0.52
36:1:3180:A:OP1	52:M6:171:LYS:NZ	2.42	0.52
36:1:361:A:H5'	73:O7:35:SER:OG	2.09	0.52
36:1:1124:U:O4	92:1:3648:OHX:N6	2.42	0.52
1:2:102:U:O4	1:2:360:A:H2'	2.10	0.52
1:2:1490:G:H2'	1:2:1491:U:C6	2.45	0.52
1:2:488:G:OP1	1:2:488:G:H4'	2.08	0.52
38:4:121:U:O2'	38:4:122:U:H5'	2.09	0.52
85:5:106:A:C2	85:5:325:A:N3	2.78	0.52
85:5:1104:G:C2	85:5:1105:A:C8	2.98	0.52
85:5:1645:U:O4	85:5:1646:G:C6	2.63	0.52
85:5:2425:G:H2'	85:5:2426:U:O4'	2.10	0.52
85:5:2590:A:C6	85:5:2591:A:C5	2.97	0.52
85:5:3203:U:H2'	85:5:3204:C:C6	2.45	0.52
92:5:3591:OHX:N4	92:5:3705:OHX:N1	2.58	0.52
64:N8:30:GLY:HA2	85:5:40:A:C5	177.57	0.52
85:5:588:G:H21	85:5:611:A:C5'	2.22	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:514:G:C8	80:6:537:G:N2	2.77	0.52
32:E0:28:LYS:NZ	80:6:542:A:H61	427.01	0.52
80:6:55:A:N6	80:6:403:G:H1'	2.24	0.52
80:6:628:G:N1	80:6:970:A:OP2	2.22	0.52
15:C3:119:GLU:HA	15:C3:122:ILE:HD12	1.92	0.52
18:C6:99:GLU:HG2	34:SR:57:PRO:HB2	3.19	0.52
22:D0:57:ARG:HD3	22:D0:89:ARG:CD	2.36	0.52
24:D2:103:ILE:HD13	24:D2:126:LEU:HB2	1.92	0.52
32:E0:35:TYR:CE1	32:E0:39:LEU:HD13	5.32	0.52
40:L3:212:ASN:OD1	40:L3:212:ASN:N	2.56	0.52
41:L4:281:ILE:HG13	54:M8:125:ASP:CG	2.51	0.52
41:L4:295:ILE:O	41:L4:297:SER:N	2.91	0.52
36:1:338:A:OP1	41:L4:47:ARG:HA	2.09	0.52
42:L5:151:GLN:HE22	42:L5:157:ALA:HB1	1.75	0.52
47:M0:210:ILE:HG23	47:M0:217:PHE:CG	3.24	0.52
48:M1:86:VAL:HG21	48:M1:112:LEU:HB3	1.90	0.52
48:M1:151:SER:O	48:M1:152:HIS:CB	3.10	0.52
51:M5:11:GLN:HG2	51:M5:44:ARG:NH2	2.24	0.52
55:M9:92:GLN:HG2	55:M9:96:ILE:HD11	1.91	0.52
56:N0:1:MET:N	56:N0:32:SER:OG	6.71	0.52
56:N0:9:VAL:HG22	56:N0:61:ILE:HD12	1.92	0.52
61:N5:60:TYR:CE2	71:O5:26:LYS:HG3	3.51	0.52
61:N5:72:ALA:O	61:N5:76:VAL:HG23	2.10	0.52
39:L2:180:LEU:HD13	79:Q3:18:TYR:CD1	3.02	0.52
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.43	0.52
9:S7:70:PHE:O	9:S7:74:GLN:HB2	2.85	0.52
11:S9:142:ASN:O	11:S9:144:PRO:HD3	2.09	0.52
11:S9:63:ASP:O	11:S9:66:ASP:HB2	2.10	0.52
36:1:2230:C:H6	36:1:2230:C:O5'	1.92	0.52
36:1:299:G:H22	72:O6:30:LYS:HD3	1.75	0.52
36:1:551:A:O2'	36:1:552:G:O5'	2.27	0.52
1:2:1162:G:C2	1:2:1444:C:N4	2.77	0.52
1:2:1639:U:C2	1:2:1641:G:H1'	2.45	0.52
1:2:1779:C:H5	28:D6:6:ALA:HB3	1.74	0.52
1:2:314:C:C2	1:2:355:G:C2	2.98	0.52
85:5:1037:C:O2'	85:5:1038:C:H5'	2.10	0.52
85:5:1565:G:C2	85:5:1574:C:N3	2.78	0.52
85:5:1750:A:H4'	85:5:1751:G:H5'	1.92	0.52
85:5:2137:U:C6	85:5:2141:U:C4	2.98	0.52
85:5:2183:A:C5	85:5:2184:U:C5	2.98	0.52
45:L8:32:LYS:HB2	85:5:2561:A:N1	203.29	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2859:U:H4'	85:5:2860:U:O5'	2.09	0.52
76:Q0:112:LYS:HZ3	85:5:3107:U:P	305.61	0.52
80:6:1030:A:N7	80:6:1792:G:C2	2.78	0.52
8:S6:87:ARG:NH1	80:6:159:U:H1'	321.54	0.52
80:6:591:A:H2'	80:6:592:A:H8	1.68	0.52
80:6:599:A:N7	80:6:600:U:C4	2.78	0.52
80:6:771:A:OP1	92:6:1938:OHX:N4	2.43	0.52
38:8:26:U:H2'	38:8:27:U:C6	2.45	0.52
38:8:46:G:N2	38:8:58:G:C4	2.78	0.52
21:C9:135:ILE:HG22	21:C9:138:GLN:NE2	2.24	0.52
41:L4:219:LEU:C	41:L4:221:ASN:H	2.13	0.52
41:L4:229:ASN:C	41:L4:229:ASN:OD1	2.49	0.52
42:L5:108:ARG:CZ	42:L5:253:PHE:HB2	2.40	0.52
47:M0:22:TYR:HB3	85:5:2647:A:H4'	265.21	0.52
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.44	0.52
53:M7:146:ILE:HG22	53:M7:147:GLU:N	2.24	0.52
56:N0:132:THR:O	56:N0:133:ALA:HB3	2.37	0.52
59:N3:23:MET:HB2	59:N3:98:ASN:O	2.09	0.52
64:N8:61:PHE:HZ	85:5:283:G:H2'	149.14	0.52
70:O4:5:VAL:HG22	70:O4:6:THR:N	2.24	0.52
72:O6:63:ASN:O	72:O6:65:GLY:N	4.81	0.52
4:S2:98:PHE:O	4:S2:117:THR:HA	2.09	0.52
5:S3:163:PRO:O	5:S3:167:PHE:N	2.40	0.52
6:S4:140:VAL:HA	6:S4:145:ARG:O	2.10	0.52
34:SR:62:LYS:O	34:SR:92:TRP:HH2	1.93	0.52
36:1:1355:A:H4'	36:1:1356:U:C5'	2.40	0.51
36:1:1925:U:H4'	36:1:1926:C:OP2	2.10	0.51
36:1:198:A:N1	36:1:219:A:C4	2.78	0.51
36:1:3078:U:H4'	36:1:3079:U:O5'	2.09	0.51
36:1:2725:U:O3'	92:1:3662:OHX:N3	2.43	0.51
36:1:542:G:H1	36:1:549:U:H3	1.58	0.51
36:1:607:A:OP1	43:L6:24:ALA:N	2.24	0.51
36:1:668:G:H2'	36:1:669:U:H6	1.74	0.51
36:1:834:U:C5	36:1:835:G:C5	2.98	0.51
36:1:856:G:N7	36:1:857:G:C6	2.78	0.51
1:2:1482:G:C6	1:2:1483:C:N3	2.78	0.51
1:2:1792:G:H21	1:2:1801:C:H5	1.58	0.51
1:2:1807:C:H2'	1:2:1808:A:H5''	1.91	0.51
1:2:246:G:C6	1:2:247:A:C6	2.99	0.51
1:2:333:A:C6	1:2:334:G:C6	2.98	0.51
1:2:634:G:C2	1:2:949:A:C6	2.97	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:156:U:H2'	38:4:157:U:O4'	2.10	0.51
85:5:1049:C:H2'	85:5:1050:U:C6	2.45	0.51
62:N6:12:ARG:HD3	85:5:215:G:H5''	87.43	0.51
85:5:2221:G:N2	85:5:2224:A:OP2	2.32	0.51
85:5:2774:C:H2'	85:5:2775:U:H6	1.75	0.51
85:5:3154:C:C6	85:5:3156:U:H5'	2.45	0.51
85:5:3174:A:H2'	85:5:3175:U:H5'	1.91	0.51
85:5:1013:G:O6	92:5:3602:OHX:N3	2.43	0.51
19:C7:49:LYS:HA	80:6:1389:C:H4'	421.75	0.51
38:8:104:A:C8	38:8:105:A:C8	2.98	0.51
12:C0:81:ASN:ND2	12:C0:81:ASN:O	2.43	0.51
16:C4:81:VAL:HG22	16:C4:115:ILE:CG2	2.41	0.51
20:C8:28:ILE:HG13	20:C8:56:LYS:O	5.49	0.51
22:D0:71:PRO:HB3	31:D9:41:GLN:HG2	2.84	0.51
4:S2:145:GLY:HA3	24:D2:97:ARG:HH11	1.75	0.51
28:D6:85:ARG:H	80:6:1797:A:N6	340.38	0.51
14:C2:53:THR:HG21	33:E1:106:TYR:OH	2.32	0.51
1:2:1428:G:N2	33:E1:90:LYS:O	2.43	0.51
39:L2:79:ASN:O	39:L2:82:VAL:HB	2.10	0.51
42:L5:160:PHE:CD2	42:L5:179:ARG:HB3	3.04	0.51
45:L8:73:PRO:HA	45:L8:76:ALA:HB3	1.91	0.51
46:L9:45:PHE:CD2	46:L9:55:VAL:HG12	2.44	0.51
47:M0:190:VAL:HG12	47:M0:197:VAL:HG11	3.20	0.51
45:L8:140:VAL:HG21	51:M5:3:ALA:HB2	1.91	0.51
61:N5:103:TYR:O	61:N5:138:ARG:NH1	2.50	0.51
61:N5:121:LYS:HD3	61:N5:123:TYR:OH	2.93	0.51
64:N8:25:HIS:CG	64:N8:25:HIS:O	2.94	0.51
67:O1:44:MET:O	67:O1:77:ARG:NH1	2.43	0.51
69:O3:31:LYS:NZ	69:O3:32:ILE:O	3.92	0.51
71:O5:86:ARG:O	71:O5:90:ARG:HG2	2.17	0.51
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.45	0.51
9:S7:100:PRO:O	9:S7:112:ARG:HD2	2.10	0.51
10:S8:151:LYS:HE2	10:S8:157:GLU:OE1	5.48	0.51
36:1:1016:C:O2'	36:1:1028:U:H5'	2.10	0.51
36:1:1132:C:C2	36:1:1133:A:C8	2.98	0.51
36:1:118:U:C5	36:1:119:U:C4	2.98	0.51
36:1:121:A:C6	45:L8:129:PRO:HG3	2.45	0.51
36:1:1386:A:C8	41:L4:183:LYS:HB3	2.45	0.51
36:1:314:U:H2'	36:1:315:C:C6	2.45	0.51
36:1:761:A:C6	36:1:762:U:C4	2.98	0.51
1:2:1271:G:N2	1:2:1310:C:N3	2.51	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1472:U:OP2	5:S3:9:ARG:NH2	2.40	0.51
85:5:106:A:H2	85:5:325:A:N3	2.09	0.51
39:L2:174:ARG:NH2	85:5:2180:G:OP1	210.74	0.51
85:5:24:G:H2'	85:5:25:U:O4'	2.10	0.51
85:5:2772:C:H1'	85:5:2773:C:OP2	2.09	0.51
85:5:3133:C:H2'	85:5:3134:A:O4'	2.10	0.51
85:5:3316:A:C4	85:5:3389:U:C5	2.98	0.51
85:5:638:C:N4	85:5:639:G:O6	2.43	0.51
80:6:1045:C:C2	80:6:1074:G:C2	2.98	0.51
80:6:1294:G:N2	80:6:1322:A:C5	2.78	0.51
80:6:1461:C:H2'	80:6:1462:G:C8	2.46	0.51
80:6:1490:C:OP1	80:6:1514:U:H5	1.93	0.51
80:6:197:A:H2'	80:6:198:A:C8	2.44	0.51
15:C3:104:ARG:NH2	80:6:950:C:H4'	278.34	0.51
15:C3:124:ARG:O	15:C3:127:ARG:N	2.43	0.51
39:L2:48:ILE:O	39:L2:48:ILE:HG13	2.11	0.51
40:L3:37:ARG:O	40:L3:186:GLY:HA2	2.30	0.51
40:L3:371:GLN:HG3	60:N4:14:TYR:CE1	3.86	0.51
42:L5:286:VAL:O	42:L5:290:ILE:HG12	2.10	0.51
45:L8:42:PRO:HD2	45:L8:44:ARG:HH12	1.74	0.51
48:M1:28:ASP:HA	48:M1:31:THR:HG22	1.91	0.51
49:M3:165:SER:O	49:M3:166:ALA:HB3	2.10	0.51
50:M4:36:VAL:HG12	50:M4:37:GLU:N	2.25	0.51
46:L9:4:ILE:HG22	56:N0:142:GLN:OE1	2.78	0.51
63:N7:95:VAL:HG11	63:N7:113:VAL:HG21	2.38	0.51
64:N8:65:GLN:C	64:N8:67:HIS:N	2.59	0.51
65:N9:21:ILE:O	65:N9:22:LYS:HB2	4.71	0.51
68:O2:122:PRO:O	68:O2:123:LYS:HB2	4.54	0.51
70:O4:47:CYS:SG	70:O4:81:CYS:SG	3.09	0.51
72:O6:55:ARG:O	72:O6:58:ILE:HD13	2.10	0.51
79:Q3:50:GLY:O	79:Q3:51:ALA:HB3	2.23	0.51
4:S2:166:THR:HG23	4:S2:201:ASN:HB3	3.23	0.51
6:S4:173:ILE:N	6:S4:173:ILE:HD12	2.25	0.51
34:SR:131:ILE:HG23	34:SR:154:VAL:HG11	1.92	0.51
34:SR:224:ASN:O	34:SR:228:LYS:HA	2.83	0.51
19:C7:29:GLN:HB3	34:SR:85:TRP:HZ3	1.75	0.51
36:1:1346:G:C2	36:1:1359:C:C2	2.98	0.51
36:1:1508:C:OP1	53:M7:127:ARG:NH2	2.42	0.51
36:1:1621:A:C6	36:1:1622:U:O4	2.63	0.51
36:1:1786:G:H2'	36:1:1787:A:C8	2.46	0.51
36:1:2660:G:H5''	36:1:2750:U:O2'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:776:U:H5	36:1:2719:U:O2	1.93	0.51
36:1:1116:G:C4	36:1:2817:A:C2	2.99	0.51
36:1:2838:A:C2	36:1:2839:G:H1'	2.45	0.51
92:1:3537:OHX:N3	92:1:3654:OHX:N4	2.58	0.51
36:1:829:U:H2'	36:1:894:G:O6	2.10	0.51
1:2:14:C:N4	1:2:1123:G:H1	2.07	0.51
1:2:1154:A:H2'	1:2:1155:G:C8	2.45	0.51
1:2:1433:U:H2'	1:2:1434:C:H6	1.75	0.51
1:2:460:A:H3'	1:2:461:G:H8	1.75	0.51
1:2:656:G:O6	1:2:662:U:H1'	2.10	0.51
1:2:855:G:H2'	1:2:856:U:O4'	2.10	0.51
1:2:94:U:HO2'	6:S4:8:HIS:CE1	2.27	0.51
37:3:92:A:C5	37:3:93:C:H1'	2.45	0.51
38:4:11:C:H2'	38:4:12:A:H8	1.75	0.51
85:5:1096:U:H4'	85:5:1097:G:H5'	1.92	0.51
85:5:1717:U:H2'	85:5:1718:G:C8	2.45	0.51
85:5:2510:U:O2'	85:5:2511:A:H5''	2.11	0.51
46:L9:73:SER:OG	85:5:3113:A:OP1	338.02	0.51
85:5:327:A:C5	85:5:328:U:C5	2.98	0.51
92:5:3591:OHX:N6	92:5:3705:OHX:N2	2.59	0.51
85:5:651:G:H3'	92:5:3671:OHX:N6	2.25	0.51
80:6:1182:U:O2	80:6:1184:A:H8	1.92	0.51
33:E1:143:LYS:N	80:6:1253:U:H4'	449.18	0.51
80:6:1603:U:H2'	80:6:1604:U:C6	2.44	0.51
80:6:775:G:C2	80:6:786:C:N3	2.78	0.51
13:C1:36:LYS:O	13:C1:44:THR:HG21	2.10	0.51
15:C3:110:ASP:O	15:C3:113:PHE:HB3	2.32	0.51
19:C7:15:ALA:O	19:C7:19:ARG:HG2	2.09	0.51
20:C8:23:ASP:HB3	20:C8:26:ILE:CD1	5.21	0.51
21:C9:61:VAL:O	21:C9:65:ILE:HG13	2.11	0.51
24:D2:103:ILE:HG12	24:D2:104:LEU:N	2.26	0.51
26:D4:27:VAL:HG21	26:D4:40:LEU:HD11	1.93	0.51
27:D5:44:GLN:O	27:D5:47:TYR:HB3	2.41	0.51
40:L3:36:ASP:OD2	40:L3:39:LYS:HG2	2.09	0.51
41:L4:29:PRO:HB3	54:M8:25:TYR:CE2	3.92	0.51
41:L4:362:ASP:OD1	41:L4:362:ASP:N	2.57	0.51
42:L5:107:ARG:NH1	42:L5:248:ARG:NH2	4.05	0.51
44:L7:108:LEU:HD22	44:L7:114:GLY:HA2	2.64	0.51
44:L7:132:PRO:HA	44:L7:229:PHE:CD1	2.46	0.51
36:1:2898:G:OP1	46:L9:173:ARG:NH2	2.43	0.51
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:76:PRO:O	52:M6:77:SER:C	2.62	0.51
58:N2:20:SER:O	58:N2:23:THR:N	2.42	0.51
60:N4:50:ALA:HA	60:N4:55:PHE:CE1	2.45	0.51
62:N6:58:VAL:HG22	62:N6:104:LEU:CD2	2.65	0.51
38:4:23:U:H1'	62:N6:17:LYS:HG2	1.92	0.51
70:O4:46:ASP:OD1	70:O4:46:ASP:N	2.66	0.51
70:O4:5:VAL:HG21	70:O4:32:ALA:HB2	1.93	0.51
71:O5:9:LEU:C	71:O5:11:THR:H	2.14	0.51
3:S1:110:LEU:HD11	3:S1:213:ARG:HD2	2.92	0.51
6:S4:49:ARG:NH1	80:6:447:U:OP1	381.93	0.51
36:1:653:A:C2	36:1:1443:G:C4	2.98	0.51
36:1:1722:U:C4	36:1:1723:A:C8	2.98	0.51
36:1:251:G:O3'	36:1:252:U:H4'	2.09	0.51
36:1:2561:A:C2	45:L8:32:LYS:HD2	2.45	0.51
36:1:496:C:H6	36:1:496:C:O5'	1.93	0.51
36:1:835:G:HO2'	36:1:857:G:H22	1.55	0.51
36:1:926:A:H2'	36:1:927:C:C6	2.45	0.51
1:2:1205:C:H2'	1:2:1206:A:O4'	2.10	0.51
1:2:12:U:OP1	92:2:2038:OHX:N3	2.43	0.51
1:2:1612:G:H2'	1:2:1613:U:C6	2.46	0.51
1:2:685:G:C6	1:2:720:A:N6	2.78	0.51
38:4:150:G:O3'	45:L8:60:ARG:NH2	2.43	0.51
85:5:677:A:H4'	85:5:678:G:O5'	2.10	0.51
80:6:1109:G:C6	80:6:1110:G:N7	2.79	0.51
80:6:151:G:H1	80:6:163:G:H1	1.57	0.51
37:7:87:G:OP2	92:7:209:OHX:N6	2.42	0.51
12:C0:49:LEU:HB3	12:C0:55:VAL:CG1	2.82	0.51
15:C3:72:MET:HA	15:C3:75:LEU:HD12	4.83	0.51
23:D1:10:GLU:HG2	23:D1:10:GLU:O	4.90	0.51
15:C3:20:ARG:HD3	24:D2:56:HIS:CD2	5.50	0.51
27:D5:56:THR:N	27:D5:103:ARG:HH11	2.03	0.51
28:D6:71:LEU:HD13	28:D6:73:TYR:OH	3.66	0.51
31:D9:22:ARG:HG2	31:D9:38:ILE:HD13	3.92	0.51
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.74	0.51
40:L3:232:ARG:HD2	40:L3:268:GLY:O	2.10	0.51
40:L3:218:ILE:HG12	40:L3:276:THR:HG23	1.92	0.51
40:L3:171:LEU:HD21	40:L3:333:LYS:HG2	1.92	0.51
42:L5:270:LYS:O	42:L5:273:ARG:HB3	2.79	0.51
43:L6:26:ARG:HH22	85:5:607:A:P	248.91	0.51
44:L7:221:LYS:HB2	44:L7:227:GLY:HA3	1.91	0.51
49:M3:168:ARG:HG3	49:M3:172:LEU:HD12	3.34	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.91	0.51
54:M8:103:ALA:HB3	54:M8:106:PHE:CE2	3.01	0.51
56:N0:128:GLU:O	56:N0:130:GLU:N	3.09	0.51
58:N2:34:ALA:O	58:N2:38:ILE:HD12	2.10	0.51
36:1:15:C:H5''	61:N5:42:ARG:HG3	1.91	0.51
62:N6:35:LEU:HD12	62:N6:45:ILE:O	2.11	0.51
64:N8:6:THR:CG2	64:N8:8:THR:HG23	2.41	0.51
65:N9:14:ARG:CZ	65:N9:18:ARG:HD3	2.77	0.51
66:O0:15:ALA:O	66:O0:18:ILE:HG22	2.49	0.51
70:O4:29:ILE:HD11	70:O4:31:ARG:HH21	1.75	0.51
36:1:2216:G:P	72:O6:75:LYS:HZ3	2.22	0.51
74:O8:7:ASP:HB3	74:O8:10:GLN:HB3	2.85	0.51
78:Q2:12:CYS:HB3	78:Q2:17:CYS:HB3	2.17	0.51
4:S2:227:PRO:HA	4:S2:230:TRP:CG	2.46	0.51
7:S5:25:LEU:HD21	7:S5:29:ILE:HD12	3.60	0.51
8:S6:88:ARG:HG2	8:S6:91:GLU:HB2	3.84	0.51
36:1:112:U:O2'	36:1:113:C:P	2.69	0.51
36:1:1543:G:OP1	51:M5:35:VAL:HG23	2.10	0.51
36:1:1945:A:H2'	36:1:1946:A:C8	2.45	0.51
36:1:2259:A:OP2	92:1:3470:OHX:N2	2.44	0.51
36:1:2393:G:HO2'	36:1:2394:G:P	2.32	0.51
36:1:3187:A:C2	36:1:3188:G:C4	2.99	0.51
36:1:1743:G:O6	92:1:3626:OHX:N2	2.43	0.51
36:1:384:A:H2'	36:1:385:A:C8	2.45	0.51
36:1:63:A:H8	36:1:63:A:O5'	1.92	0.51
1:2:1573:G:H2'	1:2:1574:C:C6	2.44	0.51
1:2:397:A:H4'	10:S8:50:GLY:HA2	1.93	0.51
1:2:534:A:H5'	1:2:535:A:OP2	2.10	0.51
85:5:1161:G:C6	85:5:1162:U:C4	2.98	0.51
85:5:1412:G:H8	85:5:1412:G:O5'	1.93	0.51
85:5:123:A:C6	85:5:150:A:C5	2.99	0.51
85:5:2841:G:C8	85:5:2844:C:N4	2.79	0.51
85:5:2898:G:H5''	85:5:2899:C:C5'	2.41	0.51
50:M4:121:MET:HG3	85:5:3214:U:C4	281.89	0.51
85:5:597:G:C2	85:5:598:A:C8	2.99	0.51
10:S8:170:SER:OG	80:6:209:U:O3'	279.11	0.51
80:6:395:U:O4	80:6:396:G:C6	2.64	0.51
80:6:467:G:H5''	80:6:468:A:P	2.49	0.51
14:C2:45:LEU:HB2	80:6:1228:G:OP1	461.85	0.51
16:C4:126:THR:O	16:C4:126:THR:OG1	2.28	0.51
16:C4:85:ALA:HB2	16:C4:94:PRO:HA	2.39	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:78:THR:OG1	17:C5:80:MET:N	2.97	0.51
7:S5:112:ARG:HH11	18:C6:43:ILE:CD1	3.30	0.51
2:S0:63:ILE:HG12	23:D1:36:VAL:HG22	2.06	0.51
9:S7:143:LEU:O	24:D2:42:GLN:NE2	2.44	0.51
25:D3:103:LEU:N	25:D3:126:LYS:O	3.23	0.51
25:D3:137:LYS:O	25:D3:138:GLU:HB2	2.11	0.51
31:D9:24:CYS:SG	31:D9:39:CYS:SG	3.58	0.51
39:L2:181:LYS:HB2	85:5:860:G:C6	212.98	0.51
39:L2:214:GLY:O	39:L2:215:ASN:HB2	4.69	0.51
39:L2:46:LYS:O	39:L2:47:GLN:HB2	2.09	0.51
39:L2:7:ASN:O	85:5:2163:C:H4'	185.76	0.51
40:L3:200:GLU:O	40:L3:200:GLU:OE1	2.28	0.51
40:L3:317:ILE:O	40:L3:317:ILE:HG22	2.09	0.51
41:L4:215:ILE:HG23	41:L4:216:VAL:N	2.26	0.51
44:L7:126:LEU:O	44:L7:129:LEU:N	2.95	0.51
44:L7:134:VAL:O	44:L7:229:PHE:HA	2.64	0.51
45:L8:136:LEU:HD12	45:L8:162:LEU:HD22	1.91	0.51
45:L8:26:LEU:HD22	63:N7:66:THR:HG21	1.93	0.51
46:L9:86:TYR:CD2	46:L9:151:VAL:HG22	2.51	0.51
47:M0:71:CYS:SG	47:M0:72:ALA:N	3.69	0.51
48:M1:38:GLU:O	48:M1:42:GLY:N	2.41	0.51
49:M3:92:THR:HB	71:O5:114:ARG:HG2	1.92	0.51
46:L9:18:VAL:O	50:M4:5:SER:HB3	2.93	0.51
53:M7:31:GLU:CG	53:M7:60:PHE:HA	3.20	0.51
55:M9:115:ILE:HD12	55:M9:142:ILE:HD13	1.91	0.51
62:N6:35:LEU:HD23	62:N6:106:ILE:HB	2.36	0.51
62:N6:60:ARG:HB2	62:N6:103:LYS:HB3	2.14	0.51
66:O0:76:GLU:O	66:O0:80:ALA:N	2.99	0.51
68:O2:112:ALA:O	68:O2:115:LEU:N	3.37	0.51
71:O5:21:LEU:O	71:O5:22:VAL:C	2.83	0.51
73:O7:76:ASN:O	73:O7:79:GLN:HG3	2.23	0.51
85:5:2819:A:HO2'	98:P:101:8AN:C2	220.30	0.51
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.93	0.51
2:S0:53:THR:OG1	2:S0:161:PRO:HG2	2.36	0.51
2:S0:22:THR:HG22	2:S0:169:SER:HA	2.00	0.51
3:S1:181:LEU:O	3:S1:185:THR:N	2.28	0.51
3:S1:58:SER:O	3:S1:62:LYS:HG3	2.10	0.51
3:S1:99:ASN:OD1	3:S1:100:PHE:N	2.39	0.51
6:S4:172:PHE:CD2	6:S4:172:PHE:O	2.63	0.51
8:S6:167:LYS:HE2	80:6:73:U:C5	371.63	0.51
8:S6:189:HIS:NE2	8:S6:193:LEU:HD12	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:153:GLU:O	11:S9:156:ILE:HG13	2.11	0.51
11:S9:57:ARG:HG3	11:S9:97:LEU:HD21	1.93	0.51
34:SR:21:THR:OG1	34:SR:69:GLN:O	3.26	0.51
36:1:2184:U:O2	36:1:2184:U:H2'	2.09	0.51
36:1:2407:C:H1'	36:1:2818:U:O2	2.09	0.51
36:1:2947:G:C4	40:L3:250:ALA:HB1	2.44	0.51
36:1:3325:G:C4	36:1:3326:G:C8	2.99	0.51
92:1:3500:OHX:N5	92:1:3605:OHX:N5	2.58	0.51
36:1:601:U:H2'	36:1:602:A:O4'	2.09	0.51
36:1:861:C:H2'	36:1:862:U:H6	1.76	0.51
36:1:870:G:O6	92:1:3458:OHX:N4	2.44	0.51
1:2:116:U:H2'	1:2:117:U:C5	2.46	0.51
1:2:580:A:C6	1:2:583:C:C2	2.98	0.51
37:3:64:A:H3'	47:M0:204:GLY:O	2.10	0.51
85:5:1464:G:N1	85:5:1467:A:OP2	2.43	0.51
85:5:3107:U:H2'	85:5:3108:G:H8	1.76	0.51
85:5:313:A:C6	85:5:314:U:C4	2.98	0.51
92:5:3565:OHX:N6	92:5:3574:OHX:N5	2.58	0.51
80:6:45:U:C2	80:6:436:A:N6	2.78	0.51
80:6:493:U:O2	80:6:494:U:H5	1.94	0.51
48:M1:137:ARG:HG2	37:7:28:C:H5''	308.03	0.51
13:C1:98:ASN:C	13:C1:99:ARG:HG2	2.31	0.51
18:C6:5:PRO:HB2	18:C6:96:TYR:CE2	3.15	0.51
2:S0:185:ARG:CB	23:D1:45:ALA:H	2.23	0.51
26:D4:51:GLU:OE2	26:D4:53:ASP:N	2.37	0.51
26:D4:60:PHE:CD1	26:D4:71:GLY:HA3	2.49	0.51
28:D6:88:SER:OG	28:D6:91:ASP:HB2	3.49	0.51
40:L3:27:ALA:HB3	40:L3:218:ILE:HG22	2.70	0.51
41:L4:157:GLU:HG2	41:L4:209:TYR:HB2	1.93	0.51
41:L4:30:ILE:O	54:M8:25:TYR:HE2	1.93	0.51
41:L4:84:ARG:O	41:L4:87:GLN:HG3	2.11	0.51
42:L5:82:GLU:OE2	42:L5:108:ARG:NH1	2.40	0.51
42:L5:122:VAL:C	42:L5:124:GLU:H	3.47	0.51
42:L5:95:TRP:CH2	42:L5:181:PRO:HD3	5.13	0.51
42:L5:103:LEU:HG	42:L5:247:ILE:HG21	3.21	0.51
42:L5:59:ASP:CG	42:L5:60:ILE:N	3.52	0.51
44:L7:189:ILE:HG23	44:L7:190:THR:HG23	2.08	0.51
45:L8:116:VAL:HG13	45:L8:121:SER:O	2.09	0.51
49:M3:81:LYS:C	49:M3:83:ALA:N	3.05	0.51
56:N0:113:ARG:HB2	56:N0:114:HIS:CD2	2.46	0.51
64:N8:69:TRP:O	64:N8:70:LYS:HB2	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:48:ASN:HA	73:O7:54:LYS:HZ3	3.62	0.51
3:S1:180:THR:OG1	3:S1:181:LEU:N	4.14	0.51
6:S4:117:GLU:HG2	6:S4:118:GLU:H	3.29	0.51
7:S5:105:GLY:O	80:6:1609:U:O2'	375.65	0.51
9:S7:67:LEU:HD22	9:S7:71:HIS:CE1	2.46	0.51
34:SR:159:ASN:ND2	34:SR:166:SER:O	2.43	0.51
34:SR:164:ASP:C	34:SR:166:SER:H	2.13	0.51
34:SR:278:PHE:CE2	34:SR:287:PRO:HG2	2.46	0.51
36:1:1069:C:N3	36:1:1090:G:C2	2.79	0.51
36:1:118:U:N3	36:1:122:A:OP2	2.41	0.51
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.59	0.51
36:1:1458:U:O2'	36:1:1459:C:H5'	2.11	0.51
36:1:181:U:H4'	73:O7:75:LYS:HD2	1.92	0.51
36:1:2206:G:H1	36:1:2237:C:N4	2.09	0.51
36:1:2353:G:C6	36:1:2354:C:C4	2.98	0.51
36:1:2608:G:H2'	36:1:2609:A:H8	1.76	0.51
36:1:2636:A:H5''	36:1:2637:A:H5'	1.93	0.51
36:1:3375:A:O2'	36:1:3378:C:OP2	2.29	0.51
36:1:3188:G:O6	92:1:3713:OHX:N3	2.44	0.51
36:1:709:A:H8	36:1:709:A:O5'	1.93	0.51
36:1:979:U:C2	36:1:980:A:C4	2.98	0.51
1:2:1390:U:H2'	1:2:1391:G:O4'	2.10	0.51
1:2:1752:U:OP2	92:2:2027:OHX:N4	2.43	0.51
1:2:1784:U:H2'	1:2:1785:A:C8	2.46	0.51
1:2:324:U:N3	1:2:325:G:N7	2.59	0.51
1:2:48:G:C5	1:2:49:C:C5	2.98	0.51
85:5:1081:U:HO2'	85:5:1082:U:C5'	2.24	0.51
85:5:151:A:H2'	85:5:152:U:O4'	2.09	0.51
85:5:1715:A:H4'	85:5:1716:U:H3'	1.93	0.51
85:5:2440:G:O2'	85:5:2441:A:OP1	2.28	0.51
85:5:3200:G:H2'	85:5:3201:C:C6	2.46	0.51
85:5:438:A:C8	85:5:439:C:H5	2.28	0.51
54:M8:141:ARG:HH11	85:5:727:G:N2	178.00	0.51
8:S6:179:VAL:HG21	80:6:140:A:H1'	327.38	0.51
80:6:144:U:H3'	80:6:145:A:H5''	1.93	0.51
80:6:143:G:C6	80:6:173:A:N1	2.79	0.51
80:6:93:A:C6	80:6:398:G:C6	2.99	0.51
12:C0:61:TRP:O	12:C0:62:GLN:HB2	2.09	0.51
13:C1:96:LYS:HD3	13:C1:97:TYR:CE2	2.90	0.51
14:C2:33:ARG:HA	14:C2:36:LEU:HB2	1.92	0.51
14:C2:33:ARG:HG2	14:C2:36:LEU:HD12	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:74:GLN:O	19:C7:78:ARG:HD3	2.11	0.51
21:C9:31:PRO:CG	21:C9:103:LYS:HD3	2.41	0.51
23:D1:1:MET:SD	23:D1:10:GLU:HB3	2.51	0.51
26:D4:60:PHE:CG	26:D4:71:GLY:HA3	2.59	0.51
26:D4:77:ASN:O	26:D4:78:SER:HB3	2.33	0.51
33:E1:146:SER:HB3	80:6:1234:A:H4'	433.72	0.51
40:L3:192:VAL:O	40:L3:196:ARG:N	2.89	0.51
47:M0:60:LEU:HD12	47:M0:129:VAL:HG21	1.92	0.51
48:M1:138:VAL:HG12	48:M1:139:THR:HG22	1.92	0.51
51:M5:23:GLN:HG2	51:M5:122:ASN:HD21	1.76	0.51
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.23	0.51
54:M8:93:ILE:HD12	54:M8:93:ILE:H	4.48	0.51
63:N7:34:LYS:HA	63:N7:34:LYS:HE3	1.93	0.51
63:N7:11:ALA:HB1	63:N7:80:LEU:HB3	1.92	0.51
36:1:634:C:H4'	68:O2:47:ARG:HH11	1.76	0.51
69:O3:69:GLY:HA3	69:O3:85:PHE:HA	2.76	0.51
75:O9:10:LYS:HA	75:O9:13:MET:HE3	2.24	0.51
79:Q3:46:THR:HB	79:Q3:58:SER:HB3	3.39	0.51
79:Q3:8:VAL:HG23	79:Q3:9:GLY:N	2.25	0.51
4:S2:179:VAL:HG11	80:6:2:A:H3'	390.78	0.51
4:S2:170:ILE:HG12	4:S2:197:TYR:O	5.41	0.51
4:S2:99:LYS:HA	4:S2:117:THR:HA	2.22	0.51
5:S3:107:PHE:O	5:S3:111:ASN:HB2	2.32	0.51
5:S3:156:PHE:HE1	80:6:1326:A:O3'	419.66	0.51
6:S4:198:LYS:HE2	6:S4:222:LEU:HD11	1.91	0.51
9:S7:120:ALA:O	9:S7:124:LYS:HG2	2.89	0.51
35:SM:68:ARG:HD3	80:6:1460:A:OP2	333.99	0.51
34:SR:265:LEU:HA	34:SR:268:GLN:HG2	1.92	0.51
34:SR:33:LEU:HB3	34:SR:45:TRP:HB2	1.92	0.51
36:1:1362:G:O2'	44:L7:159:GLN:HA	2.11	0.51
36:1:1369:A:H2'	36:1:1370:G:O4'	2.10	0.51
36:1:1620:U:H2'	36:1:1621:A:C8	2.45	0.51
36:1:1719:G:H4'	36:1:1732:U:H4'	1.91	0.51
36:1:2655:U:C2	36:1:2656:A:N1	2.79	0.51
36:1:2771:U:H2'	36:1:2772:C:C2	2.45	0.51
36:1:2812:C:H2'	36:1:2813:A:C8	2.46	0.51
92:1:3600:OHX:N5	92:1:3648:OHX:N6	2.59	0.51
1:2:1068:G:N2	1:2:1070:A:H3'	2.26	0.51
1:2:1480:U:C4	1:2:1494:U:O2	2.64	0.51
1:2:209:U:H2'	1:2:210:A:C8	2.46	0.51
1:2:783:U:H2'	1:2:784:G:H8	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:121:U:HB3	42:L5:268:GLU:HB3	1.75	0.51
38:4:106:C:O2'	92:4:216:OHX:N4	2.43	0.51
85:5:127:G:H2'	85:5:128:G:C8	2.46	0.51
85:5:659:G:C6	85:5:1432:C:C2	2.99	0.51
85:5:2134:G:C6	85:5:2147:A:C2	2.99	0.51
85:5:2404:A:C8	85:5:2404:A:H5''	2.46	0.51
40:L3:7:GLU:HG2	85:5:2915:U:H5	256.09	0.51
40:L3:65:SER:OG	85:5:3039:C:OP1	278.15	0.51
92:5:3566:OHX:N1	92:5:3640:OHX:N2	2.59	0.51
80:6:643:G:H1	80:6:691:C:N4	2.09	0.51
17:C5:77:ARG:HB3	17:C5:102:PHE:CE1	3.17	0.51
18:C6:132:LYS:HB3	18:C6:138:PHE:HE1	2.09	0.51
18:C6:57:LEU:H	18:C6:57:LEU:HD12	3.87	0.51
18:C6:9:THR:HA	80:6:1340:U:O4	433.57	0.51
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.91	0.51
26:D4:56:SER:HB3	26:D4:74:LEU:HD12	1.92	0.51
39:L2:139:HIS:O	39:L2:140:ASN:HB2	3.76	0.51
39:L2:133:TYR:HB3	39:L2:168:VAL:HG12	2.65	0.51
39:L2:70:ARG:CZ	39:L2:72:ARG:HH21	6.81	0.51
39:L2:30:ARG:HA	39:L2:74:GLU:OE2	2.66	0.51
42:L5:270:LYS:HG3	42:L5:273:ARG:CB	5.58	0.51
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.93	0.51
42:L5:64:ILE:HB	42:L5:76:ALA:HB3	1.92	0.51
46:L9:111:PHE:CD1	46:L9:127:PRO:HA	2.45	0.51
36:1:3122:A:N1	46:L9:70:THR:HG21	2.25	0.51
51:M5:79:ALA:HB1	51:M5:81:TYR:CZ	2.46	0.51
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.93	0.51
36:1:1523:U:C6	61:N5:123:TYR:HE2	2.29	0.51
64:N8:128:ARG:O	64:N8:129:PHE:HB2	3.81	0.51
64:N8:83:PRO:O	64:N8:87:ARG:N	2.42	0.51
72:O6:45:ARG:NH2	72:O6:54:GLU:OE2	2.47	0.51
73:O7:87:SER:C	92:O7:102:OHX:N1	2.64	0.51
2:S0:167:LYS:HG2	2:S0:168:HIS:NE2	2.25	0.51
3:S1:150:VAL:HG13	80:6:1067:C:H5''	352.52	0.51
6:S4:10:LYS:HD2	80:6:382:C:P	353.31	0.51
6:S4:87:MET:O	6:S4:122:LYS:HE3	2.11	0.51
8:S6:137:ARG:HB2	8:S6:140:ASN:HB2	3.88	0.51
8:S6:147:LEU:O	8:S6:148:SER:OG	2.23	0.51
9:S7:48:GLU:OE2	9:S7:88:ARG:NH2	2.43	0.51
11:S9:65:LYS:HA	11:S9:70:LEU:HD11	2.56	0.51
5:S3:145:ALA:N	35:SM:101:ASP:OD2	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:116:ASP:OD2	34:SR:120:SER:N	2.26	0.51
34:SR:158:PRO:O	34:SR:208:GLY:HA3	2.34	0.51
36:1:108:A:HO2'	36:1:323:A:H61	1.58	0.51
36:1:1093:A:OP1	36:1:1093:A:H4'	2.10	0.51
36:1:1184:A:C2	36:1:1323:G:C4	2.98	0.51
36:1:124:U:H2'	36:1:125:C:H6	1.75	0.51
36:1:1525:G:C5	36:1:1829:G:C6	2.99	0.51
36:1:1694:U:N3	36:1:1695:U:C4	2.78	0.51
36:1:1895:A:O2'	36:1:3053:G:H4'	2.11	0.51
36:1:2712:U:H2'	36:1:2713:U:C6	2.46	0.51
36:1:345:G:O6	36:1:348:A:OP1	2.29	0.51
36:1:433:A:H2'	36:1:434:U:O4'	2.11	0.51
36:1:643:U:C4	36:1:644:G:C5	2.99	0.51
36:1:981:U:O2'	36:1:982:C:OP1	2.23	0.51
1:2:1213:A:H2'	1:2:1241:U:C5	2.40	0.51
1:2:1332:G:H2'	1:2:1333:U:C6	2.46	0.51
1:2:1519:G:N1	1:2:1521:U:C2	2.79	0.51
1:2:1768:U:O2'	1:2:1769:G:H5'	2.11	0.51
1:2:1791:G:N2	1:2:1802:C:H41	2.09	0.51
1:2:719:C:N4	1:2:720:A:H62	2.08	0.51
38:4:124:G:H3'	38:4:125:U:C5'	2.39	0.51
85:5:1843:C:H2'	85:5:1844:C:H6	1.75	0.51
85:5:286:U:H2'	85:5:287:G:H8	1.74	0.51
85:5:311:C:N4	85:5:2778:G:H1	2.08	0.51
85:5:3195:U:H4'	85:5:3196:U:OP2	2.10	0.51
85:5:589:A:N7	85:5:610:G:O2'	2.35	0.51
80:6:1171:A:H2'	80:6:1172:G:C8	2.45	0.51
31:D9:13:ARG:NH2	80:6:1554:U:OP1	412.36	0.51
80:6:456:A:N6	80:6:457:G:C6	2.79	0.51
37:7:64:A:H5'	37:7:65:G:H5''	1.92	0.51
19:C7:60:ARG:NH2	80:6:1400:A:H5'	409.81	0.51
17:C5:111:MET:HG2	20:C8:119:ILE:CG1	3.92	0.51
30:D8:12:VAL:HB	30:D8:51:ASN:H	2.78	0.51
41:L4:332:LYS:O	41:L4:336:ALA:HB2	2.11	0.51
45:L8:24:ASN:O	45:L8:26:LEU:N	3.85	0.51
36:1:3111:U:H5'	46:L9:155:SER:OG	2.11	0.51
49:M3:106:GLN:HB2	72:O6:20:MET:HG3	1.93	0.51
49:M3:27:ASP:O	49:M3:31:LYS:HB2	2.84	0.51
76:Q0:94:SER:OG	76:Q0:104:PRO:O	2.28	0.51
79:Q3:33:GLN:HG3	79:Q3:34:HIS:CD2	2.49	0.51
79:Q3:9:GLY:HA2	85:5:837:A:OP1	240.97	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:150:ASP:OD2	2:S0:165:ARG:NH2	3.56	0.51
5:S3:108:LYS:O	5:S3:113:LEU:HB2	3.09	0.51
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	1.92	0.51
8:S6:13:GLN:OE1	80:6:151:G:N2	309.90	0.51
1:2:471:A:O3'	11:S9:10:LYS:HA	2.10	0.51
35:SM:102:THR:HG23	35:SM:105:LYS:HB2	1.92	0.51
36:1:1352:A:H4'	36:1:1353:U:OP1	2.11	0.51
36:1:1346:G:N2	36:1:1359:C:C2	2.79	0.51
36:1:1408:G:O2'	36:1:1409:G:H5'	2.11	0.51
36:1:1456:A:N7	67:O1:26:LYS:HE2	2.26	0.51
36:1:1491:A:N6	36:1:1838:G:N2	2.59	0.51
36:1:2299:A:C5	36:1:2300:G:N7	2.79	0.51
36:1:837:A:OP1	79:Q3:5:THR:HG23	2.11	0.51
36:1:880:G:C6	53:M7:133:HIS:CE1	2.99	0.51
36:1:929:A:C6	36:1:930:U:C4	2.99	0.51
1:2:1219:A:C1'	33:E1:138:ARG:HH22	2.23	0.51
1:2:629:U:C4	1:2:630:A:N7	2.79	0.51
1:2:723:A:C2'	1:2:724:C:H5''	2.38	0.51
38:4:67:U:H2'	38:4:68:G:H8	1.76	0.51
85:5:1046:A:H2'	85:5:1049:C:C5	2.45	0.51
85:5:1169:A:N6	85:5:1170:A:N1	2.59	0.51
85:5:1716:U:HO2'	85:5:1717:U:P	2.34	0.51
85:5:176:G:H2'	85:5:177:U:C6	2.46	0.51
78:Q2:3:ASN:N	85:5:2655:U:OP2	238.86	0.51
64:N8:61:PHE:CE1	85:5:283:G:N9	145.49	0.51
85:5:2957:G:C6	85:5:2976:A:C2	2.99	0.51
85:5:645:A:C8	85:5:649:A:N6	2.79	0.51
80:6:52:U:H2'	80:6:53:G:H8	1.77	0.51
80:6:5:U:H2'	80:6:6:G:H8	1.76	0.51
85:5:406:G:H1'	38:8:16:G:N2	2.26	0.51
14:C2:67:THR:HG22	14:C2:68:GLU:HG3	2.23	0.51
21:C9:89:ARG:HB3	21:C9:90:PRO:HD2	1.92	0.51
22:D0:37:VAL:HG11	22:D0:112:VAL:HG11	3.91	0.51
32:E0:48:THR:OG1	32:E0:49:LEU:N	2.72	0.51
1:2:1236:U:H4'	33:E1:143:LYS:N	2.26	0.51
40:L3:114:VAL:O	40:L3:115:LYS:C	3.01	0.51
42:L5:111:GLN:HA	42:L5:116:ASP:HB2	1.93	0.51
44:L7:156:ILE:HB	44:L7:161:VAL:HG21	1.91	0.51
45:L8:244:ALA:O	45:L8:248:LYS:N	3.67	0.51
48:M1:116:TYR:HD1	48:M1:118:PRO:HD3	3.28	0.51
49:M3:153:ASP:HB2	64:N8:126:LYS:HZ3	2.88	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:173:ALA:O	52:M6:176:LYS:HB3	2.97	0.51
58:N2:90:ARG:C	58:N2:92:TRP:H	2.32	0.51
62:N6:11:ASP:HB3	62:N6:14:LYS:HB2	1.91	0.51
66:O0:42:ILE:HD11	66:O0:67:VAL:HG22	1.93	0.51
70:O4:97:GLU:O	70:O4:100:ILE:N	2.43	0.51
75:O9:27:ILE:HG23	75:O9:30:ARG:NE	2.26	0.51
4:S2:152:HIS:N	4:S2:152:HIS:CD2	3.66	0.51
8:S6:105:ASP:OD2	8:S6:105:ASP:N	2.41	0.51
8:S6:15:THR:HG23	80:6:152:U:O2'	308.27	0.51
6:S4:26:CYS:SG	11:S9:3:ARG:HG3	4.02	0.51
34:SR:201:THR:HG21	34:SR:242:SER:CA	2.81	0.51
18:C6:94:GLN:NE2	34:SR:60:SER:O	3.59	0.51
36:1:1171:G:O6	92:1:3494:OHX:N5	2.44	0.50
36:1:1574:C:N4	36:1:1575:A:C5	2.79	0.50
36:1:1637:A:H8	36:1:1637:A:O5'	1.94	0.50
36:1:2561:A:N7	36:1:2579:G:C2	2.79	0.50
36:1:359:U:C2	36:1:920:A:N6	2.79	0.50
36:1:2979:U:N3	92:1:3710:OHX:N1	2.59	0.50
1:2:1069:A:C6	1:2:1070:A:N1	2.79	0.50
1:2:1340:A:C2	1:2:1341:G:C4	2.99	0.50
1:2:1491:U:O4	92:2:1909:OHX:N5	2.43	0.50
1:2:1541:U:C6	20:C8:122:HIS:ND1	2.79	0.50
1:2:1758:U:O4	1:2:1759:A:N6	2.43	0.50
1:2:95:G:H4'	6:S4:8:HIS:CD2	2.46	0.50
1:2:986:A:H4'	1:2:987:U:C5'	2.41	0.50
85:5:1744:G:C6	85:5:1745:C:C4	3.00	0.50
85:5:2317:A:H2'	85:5:2318:U:O4'	2.11	0.50
53:M7:139:TYR:CE2	85:5:2355:G:H4'	146.75	0.50
85:5:3191:G:C5	85:5:3192:U:C4	2.99	0.50
85:5:3383:G:H2'	85:5:3384:U:H6	1.76	0.50
85:5:614:C:C4	85:5:615:U:C5	2.99	0.50
85:5:716:A:C5	85:5:720:A:C5	2.99	0.50
18:C6:12:LYS:NZ	80:6:1380:U:OP1	424.14	0.50
80:6:138:A:N6	80:6:266:A:H61	2.07	0.50
38:8:27:U:O5'	38:8:27:U:H6	1.94	0.50
12:C0:23:ALA:O	12:C0:64:TYR:HB2	2.11	0.50
13:C1:69:LYS:HG3	80:6:304:U:O2'	325.45	0.50
14:C2:142:GLN:OE1	14:C2:142:GLN:HA	2.12	0.50
16:C4:30:VAL:O	16:C4:39:ILE:HG12	2.10	0.50
17:C5:67:ALA:O	92:C5:201:OHX:N5	5.37	0.50
18:C6:47:LYS:NZ	18:C6:50:GLU:OE2	2.44	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:34:ASN:OD1	26:D4:62:THR:HG21	4.94	0.50
16:C4:115:ILE:HG21	28:D6:44:ILE:HG21	6.46	0.50
33:E1:84:VAL:HG13	33:E1:85:TYR:HD1	6.61	0.50
40:L3:375:GLU:O	40:L3:378:ALA:HB3	2.11	0.50
44:L7:92:ILE:HD11	54:M8:4:ASP:H	1.75	0.50
46:L9:117:PHE:O	46:L9:120:ASP:HB2	2.35	0.50
46:L9:166:ARG:HD2	46:L9:168:ARG:HH11	13.83	0.50
47:M0:20:SER:H	47:M0:23:ASN:HB3	2.49	0.50
47:M0:33:ILE:HD11	47:M0:36:LEU:HG	1.93	0.50
51:M5:10:LEU:HD22	51:M5:19:LEU:HD11	5.45	0.50
54:M8:86:THR:HB	54:M8:105:ARG:HG3	4.78	0.50
58:N2:36:TYR:CD2	58:N2:83:TYR:HB2	3.67	0.50
58:N2:59:ASP:O	58:N2:61:THR:N	2.44	0.50
59:N3:32:ARG:HB3	59:N3:64:LYS:O	2.11	0.50
61:N5:130:TYR:CD1	61:N5:130:TYR:N	2.78	0.50
61:N5:61:LYS:NZ	38:8:59:A:H1'	69.12	0.50
61:N5:69:SER:O	61:N5:72:ALA:N	2.91	0.50
68:O2:43:ARG:HH11	68:O2:43:ARG:HG2	1.76	0.50
68:O2:3:SER:OG	68:O2:4:LEU:N	2.44	0.50
43:L6:13:GLU:OE1	68:O2:90:LYS:HB2	2.92	0.50
72:O6:5:THR:HG23	72:O6:12:ASN:CB	2.37	0.50
39:L2:172:GLY:H	79:Q3:68:ALA:N	4.08	0.50
79:Q3:73:THR:O	79:Q3:76:ALA:N	2.80	0.50
2:S0:120:LEU:HD11	2:S0:144:ILE:HG12	3.84	0.50
3:S1:32:ILE:HB	3:S1:43:VAL:HB	2.75	0.50
4:S2:133:LYS:C	4:S2:135:SER:H	2.14	0.50
4:S2:214:ALA:O	4:S2:217:ALA:HB3	2.10	0.50
6:S4:121:TYR:CD2	6:S4:161:LYS:HE3	2.62	0.50
6:S4:200:ARG:HD3	6:S4:202:ASP:OD2	2.92	0.50
36:1:1559:A:OP1	61:N5:34:LEU:HB2	2.11	0.50
92:1:3449:OHX:N5	45:L8:54:GLU:OE1	2.44	0.50
36:1:668:G:OP1	92:1:3655:OHX:N2	2.44	0.50
36:1:848:A:H8	36:1:848:A:O5'	1.94	0.50
1:2:1085:G:P	24:D2:76:SER:OG	2.68	0.50
1:2:1366:G:H4'	22:D0:35:GLU:OE2	2.11	0.50
1:2:253:A:H2'	1:2:254:A:C8	2.45	0.50
1:2:350:U:O2	1:2:352:A:N6	2.45	0.50
1:2:545:A:O5'	32:E0:31:LYS:HE3	2.12	0.50
1:2:43:A:O2'	1:2:99:C:OP1	2.17	0.50
85:5:155:G:H5'	85:5:156:G:C8	2.46	0.50
85:5:2186:U:H2'	85:5:2187:G:O4'	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2220:A:C6	85:5:2221:G:C6	2.99	0.50
85:5:3228:C:H1'	85:5:3229:G:OP2	2.10	0.50
92:5:3576:OHX:N5	92:5:3634:OHX:N6	2.59	0.50
85:5:411:U:H2'	85:5:412:G:H8	1.75	0.50
85:5:748:U:H2'	85:5:749:C:C6	2.46	0.50
85:5:758:C:H42	85:5:773:G:H1	1.60	0.50
80:6:1186:U:H2'	80:6:1187:U:O4'	2.12	0.50
80:6:1554:U:H3'	80:6:1555:A:H8	1.76	0.50
80:6:191:C:O2'	80:6:192:U:O5'	2.29	0.50
92:6:2005:OHX:N6	92:6:2048:OHX:N4	2.58	0.50
80:6:586:G:H2'	80:6:587:C:C6	2.46	0.50
80:6:751:G:H2'	80:6:752:A:C8	2.43	0.50
80:6:820:U:O2'	80:6:821:U:H5''	2.11	0.50
13:C1:111:VAL:HG13	13:C1:111:VAL:O	2.11	0.50
18:C6:45:ARG:O	18:C6:48:VAL:HG12	2.78	0.50
21:C9:86:ARG:NH1	21:C9:90:PRO:O	2.44	0.50
23:D1:12:TYR:CZ	23:D1:14:PRO:HG3	2.46	0.50
2:S0:185:ARG:HE	23:D1:47:PRO:HG3	3.39	0.50
25:D3:84:THR:O	25:D3:120:VAL:HG13	2.12	0.50
26:D4:125:LEU:O	26:D4:128:LYS:HB2	4.02	0.50
33:E1:119:ARG:O	33:E1:132:LEU:HG	2.11	0.50
39:L2:116:VAL:HG11	39:L2:134:VAL:HG21	1.93	0.50
39:L2:224:THR:HA	39:L2:237:LEU:O	2.72	0.50
40:L3:217:ALA:HB2	40:L3:328:ILE:HD11	2.57	0.50
41:L4:36:HIS:O	41:L4:40:THR:HG23	2.11	0.50
42:L5:110:LEU:HA	42:L5:113:LEU:HB2	3.11	0.50
43:L6:42:LEU:CD2	43:L6:79:VAL:HG21	3.25	0.50
44:L7:140:SER:OG	44:L7:142:SER:N	2.44	0.50
44:L7:239:LEU:O	44:L7:242:SER:OG	2.32	0.50
45:L8:30:THR:O	45:L8:31:PRO:O	2.30	0.50
57:N1:20:ARG:O	57:N1:21:LYS:HG3	2.11	0.50
59:N3:17:LEU:O	59:N3:52:ALA:N	3.04	0.50
62:N6:23:PRO:HD2	62:N6:26:GLN:HB2	1.93	0.50
62:N6:27:ARG:CZ	62:N6:78:PHE:CE2	2.94	0.50
66:O0:13:LYS:HD3	66:O0:100:ILE:HG22	1.93	0.50
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.26	0.50
71:O5:31:LEU:HD12	71:O5:47:VAL:HG11	1.93	0.50
72:O6:4:LYS:HE2	72:O6:14:GLY:HA3	2.85	0.50
2:S0:92:HIS:CD2	2:S0:195:TRP:HH2	3.33	0.50
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.42	0.50
6:S4:43:PRO:HB3	6:S4:81:THR:O	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:36:ALA:HB1	7:S5:45:LYS:HD2	3.39	0.50
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.26	0.50
11:S9:119:ALA:O	11:S9:124:HIS:HD2	1.94	0.50
35:SM:73:SER:OG	35:SM:74:LYS:N	3.09	0.50
36:1:155:G:H5'	36:1:156:G:C8	2.46	0.50
36:1:2094:C:H2'	36:1:2095:G:H8	1.76	0.50
36:1:2229:A:H2'	36:1:2230:C:C6	2.46	0.50
36:1:2294:U:O2	36:1:2296:A:C8	2.63	0.50
36:1:2969:A:H2'	36:1:2970:C:C6	2.47	0.50
36:1:3021:A:OP1	36:1:3023:U:H1'	2.12	0.50
36:1:3049:A:N3	40:L3:55:THR:HG23	2.25	0.50
36:1:3350:C:C4	36:1:3352:U:N3	2.79	0.50
36:1:786:A:OP2	54:M8:146:SER:OG	2.18	0.50
36:1:873:C:O5'	36:1:873:C:H6	1.95	0.50
36:1:94:G:H2'	36:1:95:A:C8	2.46	0.50
1:2:1598:C:H4'	1:2:1599:G:O5'	2.11	0.50
1:2:721:G:O6	92:2:1973:OHX:N4	2.44	0.50
1:2:29:U:H2'	1:2:30:G:C8	2.46	0.50
1:2:50:C:N4	1:2:425:A:OP2	2.41	0.50
37:3:25:G:C2	37:3:26:C:C2	3.00	0.50
37:3:43:U:H4'	48:M1:140:ARG:O	2.11	0.50
38:4:85:G:C2	38:4:87:G:N2	2.79	0.50
85:5:1427:U:H2'	85:5:1428:A:C8	2.47	0.50
85:5:1631:C:O2	85:5:1811:G:N2	2.36	0.50
39:L2:217:GLN:NE2	85:5:2146:C:OP1	214.24	0.50
85:5:198:A:C5	85:5:219:A:N1	2.79	0.50
85:5:2256:A:H2'	85:5:2256:A:OP2	2.11	0.50
85:5:2762:A:H1'	85:5:2800:G:C6	2.46	0.50
85:5:2837:A:C2	85:5:2850:G:N3	2.80	0.50
85:5:3053:G:H2'	85:5:3054:U:C6	2.46	0.50
85:5:3059:G:C6	85:5:3060:C:N4	2.79	0.50
85:5:525:C:H42	85:5:567:G:H1	1.57	0.50
85:5:436:A:C2	85:5:624:G:C2	2.99	0.50
85:5:902:G:C6	85:5:903:U:C4	2.99	0.50
85:5:902:G:C5	85:5:903:U:C5	2.99	0.50
80:6:1263:G:H2'	80:6:1264:G:O4'	2.11	0.50
80:6:1537:C:O2'	80:6:1540:G:O6	2.29	0.50
80:6:187:G:H4'	80:6:188:A:OP1	2.12	0.50
80:6:131:C:OP1	92:6:1950:OHX:N5	2.44	0.50
80:6:139:C:C4	80:6:266:A:C2	2.98	0.50
80:6:289:U:H2'	80:6:290:G:O4'	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:149:ARG:HD2	80:6:765:G:O6	429.55	0.50
16:C4:122:PRO:HB3	80:6:887:A:H1'	283.14	0.50
80:6:899:G:H2'	80:6:900:A:H8	1.75	0.50
80:6:939:A:C6	80:6:940:A:C6	2.99	0.50
13:C1:75:VAL:HG22	13:C1:86:ILE:HG22	1.93	0.50
14:C2:81:ASP:O	14:C2:83:GLU:N	2.86	0.50
17:C5:30:THR:O	17:C5:34:VAL:HG13	2.11	0.50
21:C9:123:ARG:HG2	21:C9:124:ILE:N	2.26	0.50
2:S0:62:ARG:HB3	23:D1:36:VAL:HG13	1.93	0.50
26:D4:116:LYS:C	26:D4:118:ILE:H	2.51	0.50
1:2:919:G:N7	28:D6:15:ARG:NH1	2.59	0.50
40:L3:235:THR:HG22	40:L3:236:LYS:O	2.23	0.50
42:L5:88:ILE:HG12	42:L5:240:TYR:CE1	2.46	0.50
42:L5:52:VAL:HA	42:L5:147:ASP:HB3	2.03	0.50
46:L9:1:MET:SD	56:N0:138:GLN:HG2	2.51	0.50
52:M6:115:LYS:O	52:M6:117:ARG:NH1	2.44	0.50
52:M6:65:ASN:C	52:M6:65:ASN:OD1	2.49	0.50
53:M7:103:GLU:HG3	53:M7:103:GLU:O	2.63	0.50
53:M7:10:ASN:OD1	53:M7:12:ALA:N	2.42	0.50
54:M8:44:PHE:O	54:M8:48:VAL:HG23	2.12	0.50
55:M9:20:ARG:HD2	85:5:1874:A:OP2	141.33	0.50
59:N3:58:VAL:HG23	59:N3:59:MET:O	2.10	0.50
61:N5:57:LEU:HA	61:N5:61:LYS:HG2	3.33	0.50
67:O1:40:ALA:HB3	67:O1:49:VAL:HG21	1.93	0.50
69:O3:22:VAL:HG12	69:O3:22:VAL:O	2.11	0.50
71:O5:24:LEU:HA	71:O5:27:GLU:HB2	2.30	0.50
74:O8:27:ILE:HD13	74:O8:41:THR:HB	2.86	0.50
2:S0:126:PRO:HB2	2:S0:152:PRO:HG2	2.54	0.50
4:S2:75:GLY:O	4:S2:77:GLN:NE2	2.44	0.50
6:S4:52:LEU:HB3	6:S4:54:TYR:CD2	2.61	0.50
7:S5:133:VAL:O	7:S5:137:ILE:HG12	2.10	0.50
34:SR:33:LEU:HB2	34:SR:47:LEU:HD11	1.91	0.50
34:SR:90:ARG:NE	34:SR:102:ARG:HE	2.94	0.50
36:1:1120:A:C2	36:1:1139:G:C2	3.00	0.50
36:1:1421:G:C2	36:1:1422:G:N7	2.80	0.50
36:1:2689:A:C8	36:1:2702:A:C6	3.00	0.50
36:1:3383:G:C6	36:1:3384:U:C4	3.00	0.50
36:1:422:A:N1	36:1:2362:C:O2'	2.41	0.50
36:1:629:U:H2'	36:1:630:A:C8	2.46	0.50
1:2:968:G:C2	1:2:1000:U:O2	2.64	0.50
1:2:1030:G:C6	1:2:1055:C:N3	2.80	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1086:U:O2'	1:2:1087:U:H5'	2.11	0.50
1:2:1146:A:C6	1:2:1147:G:C5	3.00	0.50
1:2:1248:G:C2	1:2:1249:U:H1'	2.47	0.50
1:2:28:A:C6	1:2:599:A:N1	2.79	0.50
1:2:549:G:C2	1:2:550:A:C8	3.00	0.50
1:2:616:G:C2	1:2:622:A:N7	2.79	0.50
1:2:684:U:H3	1:2:720:A:N6	2.03	0.50
1:2:692:C:C4	1:2:693:U:H1'	2.47	0.50
85:5:1317:A:C4	85:5:1319:G:C8	2.99	0.50
85:5:1338:C:C2	85:5:1339:C:C5	2.99	0.50
85:5:1839:A:OP2	92:5:3580:OHX:N6	2.44	0.50
85:5:2951:G:O2'	85:5:2952:G:H5'	2.11	0.50
85:5:3220:G:C6	85:5:3221:C:C5	3.00	0.50
85:5:63:A:H8	85:5:63:A:O5'	1.95	0.50
80:6:1082:C:H41	80:6:1091:A:N6	2.09	0.50
80:6:1314:U:HO2'	80:6:1315:U:P	2.35	0.50
80:6:1334:U:C4	80:6:1335:U:C4	3.00	0.50
80:6:1157:A:C2	80:6:1622:G:C2	2.99	0.50
80:6:982:U:O4	80:6:983:A:N6	2.44	0.50
37:7:110:G:C6	37:7:111:U:C4	2.99	0.50
38:8:149:A:H2'	38:8:150:G:H8	1.76	0.50
21:C9:108:LEU:HD22	21:C9:113:ILE:HD12	1.93	0.50
21:C9:52:GLY:HA2	21:C9:55:TYR:CD2	2.46	0.50
21:C9:93:HIS:NE2	21:C9:95:ASP:OD1	3.34	0.50
36:1:2179:C:C2	39:L2:130:SER:O	2.64	0.50
41:L4:99:MET:HE2	41:L4:103:THR:H	3.16	0.50
41:L4:150:LEU:HD12	41:L4:247:PHE:HE1	3.00	0.50
41:L4:217:LYS:HA	41:L4:220:ARG:HG2	3.03	0.50
41:L4:50:TYR:CD2	41:L4:109:TRP:CH2	3.25	0.50
42:L5:16:PHE:CZ	85:5:2688:U:C4	292.64	0.50
43:L6:39:VAL:O	43:L6:40:LEU:HD23	2.90	0.50
44:L7:117:VAL:HG12	44:L7:118:LYS:N	2.65	0.50
45:L8:108:ARG:HG2	45:L8:112:GLU:OE2	2.11	0.50
45:L8:148:ALA:O	45:L8:149:LYS:HD3	2.11	0.50
48:M1:147:THR:HG22	48:M1:148:VAL:N	4.05	0.50
49:M3:165:SER:OG	49:M3:168:ARG:N	2.38	0.50
49:M3:188:ARG:O	49:M3:191:ALA:HB3	3.08	0.50
50:M4:113:THR:HG22	50:M4:114:ASP:N	2.44	0.50
51:M5:140:LYS:HB3	51:M5:144:ARG:HE	1.75	0.50
52:M6:93:ALA:HB3	85:5:632:G:OP1	218.86	0.50
53:M7:89:LYS:HA	53:M7:92:GLN:HG2	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:141:ARG:HD3	85:5:743:C:O2	175.06	0.50
55:M9:4:LEU:HB3	55:M9:7:GLN:CG	4.53	0.50
59:N3:127:PRO:O	59:N3:131:SER:N	2.88	0.50
40:L3:375:GLU:CD	60:N4:14:TYR:HH	2.14	0.50
92:1:3500:OHX:N4	64:N8:23:GLY:O	2.45	0.50
43:L6:171:PRO:HB2	69:O3:43:PHE:HE2	2.34	0.50
71:O5:34:GLN:OE1	71:O5:38:ARG:NH1	2.44	0.50
73:O7:12:HIS:C	73:O7:12:HIS:CD2	2.84	0.50
73:O7:32:LYS:HZ1	38:8:111:A:P	129.20	0.50
75:O9:38:ASN:C	75:O9:40:LYS:H	2.72	0.50
6:S4:136:VAL:HG11	6:S4:148:ARG:NH1	3.02	0.50
8:S6:78:THR:HG22	8:S6:79:LYS:H	3.98	0.50
11:S9:11:THR:HG23	80:6:472:U:H5''	396.60	0.50
34:SR:13:LEU:HD21	34:SR:54:PHE:HB3	1.94	0.50
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.31	0.50
36:1:1464:G:N2	36:1:1466:G:H3'	2.27	0.50
36:1:1580:A:H4'	36:1:1581:C:O5'	2.11	0.50
36:1:1633:C:H2'	36:1:1634:G:H8	1.76	0.50
36:1:2207:A:H2'	36:1:2208:A:H5'	1.92	0.50
36:1:2418:G:H4'	36:1:2419:A:OP1	2.11	0.50
36:1:2528:G:N7	92:1:3715:OHX:N3	2.59	0.50
36:1:2747:A:C6	36:1:2748:A:N6	2.80	0.50
36:1:607:A:H4'	36:1:608:A:OP2	2.11	0.50
36:1:712:G:H2'	36:1:713:U:C6	2.47	0.50
1:2:1717:U:H2'	1:2:1718:U:H6	1.75	0.50
1:2:319:U:H1'	1:2:323:A:C5	2.47	0.50
1:2:495:C:H3'	1:2:496:G:O4'	2.12	0.50
1:2:986:A:C8	1:2:988:A:N6	2.80	0.50
38:4:108:C:N3	38:4:114:G:N1	2.54	0.50
85:5:1094:U:O2'	85:5:1095:U:H3'	2.12	0.50
85:5:1498:A:H2'	85:5:1499:C:C6	2.46	0.50
85:5:1599:G:N2	85:5:1600:U:O2	2.45	0.50
85:5:258:G:H2'	85:5:259:C:C6	2.46	0.50
85:5:3154:C:O2	85:5:3154:C:H2'	2.10	0.50
85:5:3374:U:O5'	85:5:3374:U:H6	1.95	0.50
80:6:10:G:C2	80:6:11:A:C4	2.99	0.50
80:6:1263:G:C2	80:6:1264:G:H1'	2.47	0.50
80:6:1483:A:C6	80:6:1484:G:C6	3.00	0.50
80:6:90:C:N4	92:6:1944:OHX:N2	2.59	0.50
80:6:1156:C:OP1	92:6:2017:OHX:N1	2.45	0.50
92:6:2034:OHX:N3	92:6:2058:OHX:N2	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:654:C:H2'	80:6:655:G:C8	2.47	0.50
80:6:792:U:OP1	92:6:2053:OHX:N4	2.44	0.50
38:8:81:U:N3	38:8:83:C:C5	2.80	0.50
15:C3:150:VAL:O	92:C3:201:OHX:N3	2.44	0.50
22:D0:37:VAL:HG13	22:D0:107:THR:HG22	5.02	0.50
23:D1:14:PRO:HB2	23:D1:23:ILE:HG23	2.56	0.50
40:L3:288:GLY:N	40:L3:320:ASP:OD1	3.66	0.50
42:L5:233:ALA:O	42:L5:236:LEU:N	2.90	0.50
42:L5:268:GLU:C	42:L5:270:LYS:H	3.02	0.50
42:L5:290:ILE:O	42:L5:294:ALA:HB3	2.12	0.50
36:1:612:U:OP1	43:L6:21:THR:HB	2.11	0.50
44:L7:108:LEU:HD21	44:L7:114:GLY:HA2	1.94	0.50
44:L7:157:ASN:C	44:L7:159:GLN:H	4.04	0.50
44:L7:203:TRP:CD1	44:L7:204:PRO:HD2	3.04	0.50
52:M6:108:ILE:HG13	52:M6:108:ILE:O	4.57	0.50
52:M6:171:LYS:O	52:M6:175:THR:HG22	4.49	0.50
55:M9:130:ASN:ND2	55:M9:130:ASN:O	5.92	0.50
57:N1:130:ARG:NH1	85:5:1098:A:OP2	252.91	0.50
58:N2:75:TYR:O	58:N2:78:TYR:HB3	2.11	0.50
58:N2:36:TYR:CE2	58:N2:83:TYR:HB2	4.21	0.50
66:O0:53:LYS:O	66:O0:57:GLU:HG3	2.40	0.50
70:O4:25:THR:OG1	70:O4:29:ILE:HD13	2.11	0.50
74:O8:28:ASN:HD22	74:O8:42:LYS:HE3	3.47	0.50
97:1:3403:SPS:HN4	91:P:75:C:P	2.33	0.50
78:Q2:74:CYS:CB	78:Q2:77:CYS:SG	3.30	0.50
2:S0:71:GLU:O	2:S0:96:THR:N	3.19	0.50
1:2:94:U:O2'	6:S4:8:HIS:ND1	2.37	0.50
7:S5:72:HIS:HA	7:S5:107:LYS:HE2	2.08	0.50
7:S5:57:SER:OG	7:S5:58:LEU:N	2.99	0.50
8:S6:139:ASN:HA	8:S6:142:ARG:HB2	1.94	0.50
9:S7:160:GLN:NE2	9:S7:160:GLN:H	2.10	0.50
36:1:1178:G:O6	69:O3:20:LYS:HG3	2.12	0.50
36:1:1182:A:H2'	36:1:1183:C:H6	1.77	0.50
36:1:1275:C:H2'	36:1:1276:U:O4'	2.11	0.50
36:1:1376:C:O4'	36:1:1407:A:C2	2.65	0.50
36:1:2186:U:OP2	39:L2:200:ARG:NH2	2.41	0.50
36:1:3015:G:C6	36:1:3040:A:C2	3.00	0.50
36:1:3285:C:H2'	36:1:3286:G:C8	2.46	0.50
92:1:3511:OHX:N5	92:1:3690:OHX:N6	2.59	0.50
36:1:612:U:H2'	36:1:613:G:H8	1.76	0.50
1:2:1050:C:H5''	3:S1:150:VAL:CG1	2.42	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:207:U:O2	10:S8:178:ARG:NH1	2.45	0.50
1:2:544:A:H5''	1:2:545:A:OP2	2.12	0.50
1:2:822:U:O2'	1:2:823:U:H5'	2.11	0.50
85:5:207:U:H2'	85:5:208:C:C6	2.45	0.50
85:5:2431:C:C4	85:5:2432:A:N7	2.80	0.50
85:5:2987:A:H2'	85:5:2988:C:C6	2.46	0.50
92:5:3555:OHX:N3	92:5:3740:OHX:N3	2.59	0.50
80:6:1085:G:N2	80:6:1087:A:H3'	2.26	0.50
80:6:1561:U:H4'	80:6:1599:C:H4'	1.93	0.50
80:6:27:U:C2	80:6:28:A:C8	3.00	0.50
80:6:557:G:O3'	80:6:558:U:H4'	2.12	0.50
80:6:865:A:C4	80:6:866:G:C8	2.99	0.50
38:8:4:C:N4	38:8:5:U:O4	2.45	0.50
92:2:1961:OHX:N4	92:C7:201:OHX:N2	2.59	0.50
21:C9:115:GLU:O	21:C9:117:SER:N	2.45	0.50
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.47	0.50
41:L4:122:THR:O	41:L4:125:ALA:HB3	2.11	0.50
41:L4:29:PRO:HG3	41:L4:279:HIS:CD2	2.47	0.50
49:M3:60:ALA:HB3	49:M3:65:TYR:O	2.12	0.50
51:M5:101:THR:O	51:M5:101:THR:HG22	2.11	0.50
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.50	0.50
51:M5:136:ASP:OD2	51:M5:138:GLN:NE2	2.45	0.50
51:M5:186:GLY:O	51:M5:189:LYS:N	2.65	0.50
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.46	0.50
55:M9:146:LYS:O	55:M9:149:ALA:N	3.61	0.50
64:N8:126:LYS:HG2	64:N8:146:GLU:HB2	1.93	0.50
70:O4:62:TYR:O	70:O4:65:VAL:HG12	2.98	0.50
73:O7:19:CYS:SG	73:O7:22:CYS:SG	3.27	0.50
74:O8:15:THR:HG22	74:O8:45:VAL:HG11	1.94	0.50
4:S2:227:PRO:HA	4:S2:230:TRP:CD2	2.46	0.50
7:S5:151:GLY:HA3	7:S5:155:ALA:HA	4.88	0.50
8:S6:142:ARG:HH12	8:S6:153:VAL:HG22	6.50	0.50
8:S6:164:LYS:HD3	8:S6:167:LYS:HD3	1.93	0.50
9:S7:143:LEU:N	9:S7:147:ASN:O	2.34	0.50
9:S7:50:ASP:HA	9:S7:56:LYS:HG2	2.53	0.50
10:S8:138:ASN:HA	10:S8:141:ARG:HD3	4.43	0.50
1:2:1257:C:N4	35:SM:94:HIS:O	2.42	0.50
34:SR:239:GLU:O	34:SR:257:ALA:N	2.75	0.50
34:SR:319:ASN:OD1	34:SR:319:ASN:N	2.45	0.50
36:1:1274:A:H2'	36:1:1275:C:H6	1.77	0.50
36:1:1397:C:C4	36:1:1398:U:C5	3.00	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1728:G:C6	66:O0:85:PHE:CE2	3.00	0.50
36:1:2197:C:C2	36:1:2241:U:C4	3.00	0.50
36:1:2278:C:O2'	36:1:2279:A:H5''	2.12	0.50
36:1:3324:C:C4	36:1:3325:G:N7	2.79	0.50
36:1:345:G:OP1	36:1:1429:G:C2	2.63	0.50
36:1:3136:G:OP2	92:1:3631:OHX:N6	2.44	0.50
36:1:374:A:N3	36:1:376:G:H5''	2.27	0.50
36:1:668:G:H2'	36:1:669:U:C6	2.47	0.50
36:1:722:G:C6	36:1:723:U:C5	3.00	0.50
36:1:770:G:O6	92:1:3627:OHX:N4	2.45	0.50
1:2:1104:C:N4	1:2:1105:G:O6	2.44	0.50
1:2:1162:G:C6	1:2:1163:C:N3	2.80	0.50
1:2:1564:C:O2'	1:2:1565:U:H5'	2.11	0.50
1:2:1646:G:C6	1:2:1647:C:C4	3.00	0.50
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.44	0.50
1:2:604:A:OP1	92:2:1988:OHX:N1	2.45	0.50
1:2:970:G:C6	39:L2:249:SER:HB2	2.46	0.50
38:4:42:G:C6	38:4:43:A:N7	2.80	0.50
85:5:1323:G:H2'	85:5:1324:U:H5'	1.93	0.50
41:L4:191:LYS:HG2	85:5:1380:G:H5'	114.82	0.50
85:5:1400:G:C2	85:5:1401:A:C8	2.99	0.50
85:5:1462:A:C5	85:5:1463:U:C4	3.00	0.50
85:5:1495:U:H2'	85:5:1495:U:O2	2.09	0.50
85:5:1867:A:N6	85:5:1868:G:N1	2.60	0.50
85:5:3333:G:N2	85:5:3369:G:H1'	2.26	0.50
85:5:2834:G:OP1	92:5:3446:OHX:N3	2.45	0.50
92:5:3522:OHX:N3	92:5:3721:OHX:N1	2.60	0.50
92:5:3566:OHX:N5	92:5:3640:OHX:N6	2.59	0.50
49:M3:70:ARG:NH1	85:5:76:G:OP1	87.97	0.50
7:S5:81:ARG:HD2	80:6:1615:C:H2'	373.03	0.50
80:6:1696:G:N2	80:6:1704:U:H3	2.10	0.50
80:6:1754:A:H4'	80:6:1755:A:O5'	2.10	0.50
92:6:2012:OHX:N4	92:6:2030:OHX:N1	2.59	0.50
80:6:340:U:H2'	80:6:341:A:C8	2.47	0.50
80:6:491:C:H42	80:6:497:G:H21	1.60	0.50
80:6:620:A:C5	80:6:621:A:N1	2.80	0.50
12:C0:14:TYR:CZ	12:C0:18:GLU:HG3	2.46	0.50
13:C1:98:ASN:O	13:C1:99:ARG:HG2	2.12	0.50
17:C5:22:LEU:HA	17:C5:25:LEU:HD12	2.59	0.50
19:C7:45:ARG:NH2	80:6:1332:C:OP2	417.10	0.50
21:C9:14:PHE:HE2	21:C9:63:ARG:HB2	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:787:A:H2	24:D2:105:THR:HB	1.76	0.50
26:D4:59:GLY:O	26:D4:71:GLY:HA2	5.05	0.50
27:D5:59:TYR:HD2	27:D5:60:VAL:N	2.10	0.50
40:L3:219:ALA:HB2	40:L3:336:VAL:HG22	2.94	0.50
40:L3:292:ALA:HA	40:L3:303:LYS:H	1.76	0.50
37:3:121:U:H5''	42:L5:265:TYR:HE1	1.76	0.50
42:L5:59:ASP:OD1	42:L5:81:HIS:HD2	1.95	0.50
44:L7:229:PHE:CD1	44:L7:229:PHE:C	3.31	0.50
44:L7:67:ARG:O	44:L7:70:LYS:N	2.45	0.50
45:L8:238:LEU:HD23	45:L8:242:ALA:HB1	1.94	0.50
47:M0:145:LYS:HD3	47:M0:167:LEU:HD13	1.94	0.50
47:M0:91:VAL:HG21	47:M0:135:ILE:HA	1.94	0.50
50:M4:28:SER:O	50:M4:31:LYS:HB2	2.12	0.50
36:1:2991:A:N3	53:M7:69:ARG:NH2	2.60	0.50
63:N7:46:ILE:HD11	63:N7:48:ARG:C	2.32	0.50
65:N9:38:LYS:HB3	65:N9:41:ARG:NH1	4.78	0.50
36:1:1389:G:OP1	68:O2:101:SER:HB3	2.12	0.50
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	1.93	0.50
72:O6:58:ILE:O	72:O6:61:ILE:HB	2.39	0.50
2:S0:119:ARG:NH1	4:S2:241:ASP:OD2	2.64	0.50
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.89	0.50
11:S9:176:ASN:HA	11:S9:179:ARG:HG2	5.00	0.50
34:SR:44:SER:O	34:SR:58:VAL:HG13	2.11	0.50
36:1:1107:C:C2	36:1:1108:U:C5	3.00	0.50
36:1:1554:U:H4'	36:1:1555:U:H5'	1.92	0.50
36:1:2777:G:H5''	36:1:2778:G:OP1	2.11	0.50
36:1:3005:A:H5'	40:L3:98:GLY:HA3	1.93	0.50
36:1:3328:G:N2	36:1:3329:U:H1'	2.27	0.50
36:1:3346:U:H3	36:1:3359:A:N6	2.05	0.50
36:1:510:G:O6	92:1:3540:OHX:N1	2.45	0.50
36:1:828:A:H2'	36:1:829:U:C6	2.46	0.50
1:2:1026:A:C2	1:2:1059:A:C2	3.00	0.50
1:2:1525:G:H5''	21:C9:88:VAL:N	2.27	0.50
1:2:961:A:OP1	92:2:2046:OHX:N5	2.45	0.50
1:2:687:C:N4	1:2:718:C:C2	2.80	0.50
85:5:1038:C:H2'	85:5:1039:U:C6	2.46	0.50
85:5:1581:C:OP2	85:5:1581:C:H4'	2.10	0.50
85:5:1765:U:O2	85:5:1766:G:H1'	2.11	0.50
85:5:1662:G:N2	85:5:1788:C:O2	2.44	0.50
85:5:2567:C:H42	85:5:2568:C:H41	1.59	0.50
85:5:2663:G:H2'	85:5:2664:C:O4'	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2846:U:H3'	85:5:2846:U:C6	2.47	0.50
85:5:284:A:H4'	85:5:285:A:N3	2.27	0.50
85:5:2869:U:H5''	85:5:2870:C:OP2	2.12	0.50
40:L3:28:ARG:NH2	85:5:3140:G:N7	231.52	0.50
85:5:1409:G:N7	92:5:3662:OHX:N6	2.60	0.50
85:5:397:A:C6	85:5:400:G:C6	3.00	0.50
85:5:589:A:N6	85:5:610:G:O2'	2.29	0.50
19:C7:2:GLY:N	80:6:1311:U:O3'	391.77	0.50
80:6:1674:C:N4	80:6:1675:C:N4	2.60	0.50
80:6:206:A:H1'	80:6:262:U:O2	2.11	0.50
80:6:333:A:C2	80:6:334:G:C2	2.99	0.50
80:6:595:G:H2'	80:6:596:C:C6	2.46	0.50
38:8:100:U:OP2	92:8:203:OHX:N2	2.45	0.50
38:8:76:C:H2'	38:8:77:A:O4'	2.11	0.50
13:C1:71:LEU:HD13	13:C1:88:ARG:NH1	2.27	0.50
14:C2:62:LEU:HD22	14:C2:75:VAL:HG11	2.25	0.50
15:C3:34:ILE:HG13	15:C3:67:THR:HG21	1.92	0.50
22:D0:41:ILE:HG13	22:D0:103:ILE:HD11	1.93	0.50
22:D0:97:VAL:HG13	22:D0:98:GLN:H	2.50	0.50
24:D2:23:ARG:HA	24:D2:65:LEU:HD22	1.93	0.50
27:D5:71:ILE:HD11	27:D5:75:LEU:HB2	7.09	0.50
28:D6:84:VAL:HG22	80:6:1797:A:N6	337.20	0.50
40:L3:102:LEU:O	85:5:3147:G:H4'	239.87	0.50
42:L5:87:GLY:O	42:L5:88:ILE:HG13	2.11	0.50
46:L9:87:LYS:HZ3	46:L9:191:LEU:HD11	15.53	0.50
47:M0:66:GLU:OE1	47:M0:69:ARG:CZ	2.60	0.50
48:M1:40:LEU:HD13	48:M1:40:LEU:O	2.12	0.50
52:M6:80:PHE:C	52:M6:80:PHE:CD2	3.72	0.50
55:M9:24:LEU:O	55:M9:25:ASP:C	2.95	0.50
56:N0:43:TYR:CZ	56:N0:47:LYS:HE2	3.64	0.50
57:N1:83:ARG:N	57:N1:83:ARG:HD3	2.27	0.50
58:N2:38:ILE:HD11	58:N2:56:VAL:HB	2.58	0.50
59:N3:81:GLN:O	59:N3:82:ALA:HB3	2.11	0.50
61:N5:63:ILE:HD11	61:N5:84:PHE:CD1	2.81	0.50
64:N8:74:ASN:HB2	64:N8:76:ASP:HB2	1.93	0.50
67:O1:13:THR:HG22	67:O1:72:ARG:CD	2.44	0.50
68:O2:77:ALA:HB3	68:O2:81:ASP:CG	4.33	0.50
71:O5:49:LYS:O	71:O5:52:ALA:HB3	2.10	0.50
76:Q0:97:ARG:HG3	76:Q0:120:GLN:C	2.32	0.50
5:S3:223:LYS:HD3	34:SR:193:ILE:HD13	4.50	0.50
6:S4:194:THR:O	6:S4:195:ILE:HB	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:14:LYS:HD2	8:S6:123:GLY:HA3	3.15	0.50
8:S6:187:LYS:O	8:S6:191:ARG:HB2	3.56	0.50
10:S8:188:GLU:O	10:S8:191:PHE:N	3.16	0.50
11:S9:96:VAL:O	11:S9:99:LEU:HB2	3.16	0.50
34:SR:109:ASP:HB2	34:SR:127:ARG:HB2	1.94	0.50
34:SR:70:ASP:OD1	34:SR:71:CYS:N	2.45	0.50
36:1:1352:A:N3	36:1:1352:A:H2'	2.27	0.50
36:1:1833:G:OP1	75:O9:10:LYS:NZ	2.26	0.50
36:1:199:A:C4	36:1:201:A:C8	2.99	0.50
36:1:2548:C:H5''	36:1:2549:G:OP1	2.11	0.50
36:1:2832:C:H42	36:1:2856:G:H1	1.60	0.50
36:1:2874:G:N2	92:1:3710:OHX:N3	2.60	0.50
36:1:3279:A:N6	69:O3:54:ARG:HD2	2.27	0.50
36:1:3316:A:C5	36:1:3389:U:C4	2.99	0.50
36:1:3364:C:H2'	36:1:3365:U:H6	1.77	0.50
92:1:3585:OHX:N2	92:1:3694:OHX:N1	2.59	0.50
36:1:76:G:O2'	49:M3:100:ARG:HG3	2.11	0.50
36:1:996:A:C2	36:1:1054:A:C4	3.00	0.50
1:2:1377:G:O6	92:2:1974:OHX:N6	2.45	0.50
1:2:685:G:N7	92:2:2009:OHX:N2	2.59	0.50
1:2:591:A:H5''	11:S9:24:LEU:HD22	1.94	0.50
38:4:6:U:H2'	38:4:7:U:C6	2.46	0.50
38:4:91:C:H2'	38:4:92:A:H8	1.76	0.50
85:5:1199:C:H4'	85:5:1200:A:O5'	2.12	0.50
85:5:136:G:C2	85:5:137:G:C5	2.99	0.50
85:5:1554:U:H4'	85:5:1555:U:OP1	2.11	0.50
85:5:1666:G:C6	85:5:1667:A:C6	3.00	0.50
70:O4:52:GLN:HG3	85:5:1738:C:H1'	194.38	0.50
85:5:203:G:H2'	85:5:204:A:H8	1.76	0.50
85:5:2861:U:OP2	85:5:2861:U:H6	1.95	0.50
92:5:3522:OHX:N5	92:5:3721:OHX:N1	2.60	0.50
85:5:391:A:C5	85:5:392:G:C8	2.99	0.50
85:5:392:G:C4	85:5:393:U:C5	3.00	0.50
85:5:441:U:O2	85:5:492:U:N3	2.45	0.50
80:6:158:U:H2'	80:6:158:U:OP2	2.11	0.50
80:6:419:G:C6	80:6:420:A:C5	3.00	0.50
80:6:809:A:C6	80:6:810:G:C6	3.00	0.50
37:7:31:U:O2'	37:7:32:U:H5'	2.12	0.50
37:7:52:G:C2	37:7:53:U:C6	3.00	0.50
37:7:52:G:N1	37:7:53:U:C4	2.80	0.50
73:O7:70:VAL:HG11	38:8:35:C:H5'	71.16	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:43:A:N3	38:8:44:A:C8	2.80	0.50
13:C1:14:GLN:HB3	13:C1:54:ILE:HG13	4.36	0.50
13:C1:6:THR:O	13:C1:8:GLN:N	2.47	0.50
14:C2:129:GLU:O	14:C2:133:LEU:HD13	2.12	0.50
15:C3:65:VAL:CG1	15:C3:66:ILE:HG23	5.79	0.50
17:C5:96:ILE:HD13	17:C5:116:LEU:O	2.12	0.50
1:2:1516:C:H5	27:D5:77:ARG:HH21	1.59	0.50
28:D6:70:LYS:HG2	28:D6:72:HIS:CE1	5.20	0.50
33:E1:144:CYS:HB3	33:E1:147:VAL:H	1.77	0.50
39:L2:192:LYS:HB3	39:L2:193:ARG:NH2	2.26	0.50
40:L3:187:SER:O	40:L3:191:LYS:HG3	3.25	0.50
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.12	0.50
41:L4:238:LEU:O	41:L4:246:ARG:HB2	2.12	0.50
41:L4:329:PRO:C	41:L4:331:ALA:N	3.09	0.50
43:L6:134:ARG:O	43:L6:137:ASP:N	2.45	0.50
44:L7:165:ASP:OD2	44:L7:166:ASN:N	3.18	0.50
46:L9:57:VAL:HG23	46:L9:68:LEU:HG	1.96	0.50
49:M3:101:ARG:HH22	49:M3:112:ASN:HD21	2.35	0.50
49:M3:14:PHE:CZ	85:5:665:A:H1'	131.67	0.50
56:N0:107:TYR:CE1	56:N0:121:ILE:HG21	3.42	0.50
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.77	0.50
57:N1:43:LYS:HD2	85:5:992:A:H5''	256.43	0.50
62:N6:11:ASP:HB3	62:N6:14:LYS:HG3	2.43	0.50
71:O5:17:LEU:O	71:O5:20:GLN:N	2.63	0.50
71:O5:21:LEU:HG	71:O5:54:VAL:HG11	2.90	0.50
71:O5:62:GLN:O	71:O5:65:ALA:HB3	2.12	0.50
73:O7:39:TYR:CG	73:O7:40:PRO:HA	2.66	0.50
36:1:2802:A:C8	78:Q2:56:PRO:HG3	2.47	0.50
3:S1:103:MET:N	3:S1:215:VAL:HG13	3.23	0.50
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.77	0.50
5:S3:38:GLU:HG3	5:S3:49:ILE:HD13	1.92	0.50
5:S3:64:ARG:HG2	5:S3:65:ARG:H	2.56	0.50
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.93	0.50
11:S9:143:ILE:HG22	11:S9:145:SER:H	1.76	0.50
34:SR:164:ASP:O	34:SR:166:SER:N	2.47	0.50
36:1:1184:A:N3	36:1:1323:G:C2	2.79	0.49
36:1:1329:U:O2'	36:1:1330:A:P	2.69	0.49
36:1:137:G:H2'	36:1:138:U:C6	2.47	0.49
36:1:2164:A:N6	36:1:2165:G:C6	2.80	0.49
36:1:2190:U:C5	36:1:2191:U:C5	2.98	0.49
36:1:231:G:C2	36:1:232:G:C8	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2942:C:O2'	92:1:3528:OHX:N1	2.44	0.49
36:1:312:C:H1'	36:1:2778:G:N2	2.27	0.49
36:1:3215:A:C4	36:1:3259:U:C2	3.00	0.49
36:1:437:G:H22	36:1:622:A:H61	1.60	0.49
36:1:554:A:H5''	36:1:555:U:OP2	2.12	0.49
36:1:767:U:H1'	36:1:768:C:C6	2.47	0.49
1:2:1227:A:O2'	1:2:1228:G:OP1	2.30	0.49
1:2:669:C:H2'	1:2:670:G:C8	2.47	0.49
1:2:832:C:C2	1:2:833:A:C8	3.00	0.49
37:3:27:A:H1'	37:3:57:G:N2	2.27	0.49
85:5:1711:C:N4	85:5:1712:G:C6	2.80	0.49
85:5:2315:G:C2	85:5:2316:G:N7	2.80	0.49
85:5:2632:G:C6	85:5:2647:A:C6	2.99	0.49
42:L5:48:LYS:NZ	85:5:2749:G:OP1	241.39	0.49
85:5:2890:A:N1	85:5:2913:C:N3	2.60	0.49
40:L3:19:ARG:N	85:5:2990:G:OP1	221.43	0.49
85:5:3013:U:C2	85:5:3014:U:C5	3.00	0.49
85:5:303:G:N2	85:5:2778:G:C5	2.81	0.49
85:5:3327:G:H1	85:5:3379:C:H42	1.59	0.49
85:5:368:G:O6	85:5:369:A:N6	2.46	0.49
69:O3:86:ARG:NH2	85:5:497:C:O2'	213.80	0.49
80:6:1041:G:H1	80:6:1077:C:H42	1.59	0.49
19:C7:52:GLY:HA3	80:6:1389:C:O2'	421.93	0.49
80:6:477:A:C2	80:6:512:A:C2	3.00	0.49
24:D2:28:ARG:HH22	80:6:864:U:H3'	353.25	0.49
37:7:30:G:O2'	37:7:31:U:H5'	2.11	0.49
61:N5:56:ARG:NH2	38:8:135:G:OP2	81.92	0.49
12:C0:77:ARG:HD3	12:C0:84:UNK:HA	1.94	0.49
13:C1:80:MET:HB2	13:C1:83:THR:HG23	1.94	0.49
15:C3:26:PHE:CE2	15:C3:28:LEU:HB2	2.83	0.49
15:C3:33:VAL:O	15:C3:36:GLN:HB2	2.12	0.49
21:C9:64:HIS:CE1	21:C9:68:ARG:HH22	2.29	0.49
26:D4:121:THR:C	26:D4:123:LYS:H	3.31	0.49
41:L4:157:GLU:OE2	41:L4:251:THR:OG1	2.23	0.49
44:L7:110:ARG:CZ	54:M8:3:ILE:HD12	3.91	0.49
44:L7:131:GLU:HB2	44:L7:132:PRO:HD3	2.36	0.49
36:1:1158:A:C6	44:L7:93:ASN:ND2	2.80	0.49
46:L9:62:ARG:HH21	85:5:3115:C:P	329.49	0.49
47:M0:216:TYR:CG	47:M0:217:PHE:N	2.78	0.49
48:M1:97:SER:OG	48:M1:99:THR:OG1	2.99	0.49
52:M6:14:HIS:NE2	52:M6:119:VAL:HG22	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:25:TYR:HA	54:M8:28:LEU:HD12	2.84	0.49
54:M8:81:VAL:CG2	54:M8:101:VAL:HG13	2.42	0.49
56:N0:12:ARG:NH2	56:N0:57:GLU:OE1	2.92	0.49
56:N0:98:SER:O	56:N0:101:ALA:N	3.16	0.49
57:N1:9:SER:O	57:N1:11:THR:HG23	3.93	0.49
59:N3:127:PRO:O	59:N3:130:ALA:N	2.46	0.49
36:1:937:G:OP2	64:N8:26:ARG:HB3	2.12	0.49
64:N8:62:HIS:CG	64:N8:62:HIS:O	2.62	0.49
67:O1:25:PHE:O	67:O1:27:LYS:N	3.01	0.49
68:O2:87:MET:O	68:O2:88:HIS:ND1	2.45	0.49
69:O3:24:ASN:C	69:O3:24:ASN:OD1	2.50	0.49
73:O7:17:THR:HG22	73:O7:18:LEU:H	1.77	0.49
9:S7:31:SER:HA	9:S7:35:LYS:HB3	3.37	0.49
10:S8:176:SER:HB2	10:S8:178:ARG:H	3.56	0.49
35:SM:104:LYS:O	35:SM:108:GLN:HG2	2.11	0.49
5:S3:141:LYS:HA	35:SM:110:TRP:HZ2	1.77	0.49
17:C5:130:ARG:HH22	35:SM:70:ASN:HB2	2.38	0.49
35:SM:97:THR:HG22	35:SM:99:LYS:HB2	1.94	0.49
34:SR:245:PHE:O	34:SR:294:TRP:CD1	2.65	0.49
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.46	0.49
36:1:1105:A:H2'	36:1:1106:G:C8	2.47	0.49
36:1:1213:G:N3	36:1:1213:G:H2'	2.28	0.49
36:1:2314:U:O2'	36:1:2315:G:P	2.70	0.49
36:1:2655:U:O2	36:1:2656:A:N1	2.44	0.49
36:1:2732:G:C6	36:1:2733:A:C5	3.00	0.49
36:1:2958:A:O2'	36:1:2959:C:H5'	2.11	0.49
36:1:2971:A:N7	91:P:74:C:C5'	2.74	0.49
92:1:3612:OHX:N6	92:1:3684:OHX:N5	2.60	0.49
36:1:593:C:N4	36:1:594:U:O4	2.45	0.49
36:1:664:U:H2'	36:1:665:A:C8	2.47	0.49
1:2:1130:A:H2'	1:2:1131:C:C6	2.48	0.49
1:2:1407:A:H4'	4:S2:93:GLY:HA2	1.94	0.49
1:2:162:A:H2'	1:2:163:G:N3	2.27	0.49
1:2:293:U:H2'	1:2:294:C:H6	1.77	0.49
1:2:312:A:C2	1:2:314:C:H2'	2.46	0.49
1:2:51:A:C6	1:2:52:U:C2	3.00	0.49
37:3:35:C:C5	37:3:36:C:C4	3.00	0.49
38:4:7:U:O4	92:4:203:OHX:N3	2.45	0.49
85:5:1239:C:H2'	85:5:1240:A:O4'	2.11	0.49
85:5:1465:A:H5''	85:5:1466:G:OP2	2.13	0.49
85:5:1524:A:C6	85:5:1607:U:C5	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2101:C:HO2'	85:5:2102:U:P	2.34	0.49
85:5:2631:U:H2'	85:5:2632:G:H8	1.76	0.49
85:5:2653:C:HO2'	85:5:2657:A:N6	2.10	0.49
57:N1:22:HIS:ND1	85:5:2701:U:OP2	270.25	0.49
85:5:2885:C:N4	85:5:2886:U:O4	2.46	0.49
85:5:3199:G:C2	85:5:3200:G:C8	3.00	0.49
92:5:3591:OHX:N3	92:5:3705:OHX:N2	2.59	0.49
80:6:1141:G:C2	80:6:1142:A:C4	2.99	0.49
21:C9:7:ARG:HD2	80:6:1366:U:O2'	424.31	0.49
21:C9:68:ARG:NH1	80:6:1523:G:N7	411.75	0.49
80:6:1565:C:H2'	80:6:1566:U:C6	2.47	0.49
80:6:162:A:C6	80:6:163:G:C6	3.01	0.49
80:6:479:C:H2'	80:6:480:G:H8	1.77	0.49
80:6:75:U:O2'	80:6:76:A:O4'	2.30	0.49
26:D4:8:ARG:HD2	80:6:780:A:C2	437.59	0.49
38:8:83:C:C4'	38:8:85:G:H21	2.24	0.49
20:C8:102:ALA:O	20:C8:105:VAL:HG22	5.94	0.49
21:C9:28:LEU:O	21:C9:29:GLU:HB2	2.12	0.49
9:S7:141:ARG:HG2	24:D2:51:GLU:CD	2.31	0.49
14:C2:78:LEU:HD23	33:E1:114:VAL:HG11	2.94	0.49
40:L3:212:ASN:O	40:L3:281:LYS:NZ	2.32	0.49
42:L5:166:ALA:HB1	42:L5:171:LEU:HD12	1.93	0.49
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.72	0.49
36:1:1011:A:P	47:M0:40:LYS:HZ3	2.29	0.49
49:M3:85:LEU:HD22	49:M3:120:GLN:HE22	2.49	0.49
51:M5:133:ILE:HD12	51:M5:134:LEU:N	2.27	0.49
51:M5:193:ARG:O	51:M5:195:ASN:N	2.92	0.49
52:M6:73:PHE:CG	52:M6:78:ARG:HG2	2.46	0.49
53:M7:67:ILE:N	53:M7:67:ILE:HD13	3.00	0.49
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.94	0.49
55:M9:22:VAL:O	55:M9:53:LYS:HE3	4.84	0.49
56:N0:57:GLU:HB3	57:N1:136:ARG:HH22	3.34	0.49
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.47	0.49
61:N5:42:ARG:HH12	38:8:137:C:P	97.38	0.49
62:N6:32:SER:O	62:N6:101:PRO:HB2	2.22	0.49
74:O8:28:ASN:ND2	74:O8:42:LYS:HE3	3.64	0.49
74:O8:64:LYS:HG3	74:O8:65:LEU:N	4.64	0.49
6:S4:251:GLU:HB3	6:S4:255:ARG:HH22	1.77	0.49
7:S5:174:LEU:HD22	7:S5:213:LYS:HG3	2.92	0.49
8:S6:74:LYS:C	8:S6:75:LEU:HD23	3.04	0.49
36:1:1101:G:OP2	44:L7:196:LYS:HE2	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1199:C:N3	36:1:1200:A:C6	2.80	0.49
36:1:1783:U:H2'	36:1:1784:G:H8	1.76	0.49
36:1:1784:G:H2'	36:1:1785:U:C6	2.48	0.49
36:1:216:G:H4'	62:N6:19:TYR:CZ	2.48	0.49
36:1:2744:U:OP1	92:1:3609:OHX:N1	2.45	0.49
36:1:2812:C:H2'	36:1:2813:A:H8	1.77	0.49
36:1:379:C:H2'	36:1:380:U:H6	1.76	0.49
36:1:42:C:H6	36:1:42:C:O5'	1.95	0.49
1:2:1231:C:H2'	1:2:1232:U:C6	2.47	0.49
1:2:1354:A:OP1	1:2:1354:A:H2'	2.11	0.49
1:2:1636:C:C2	1:2:1731:G:C2	3.00	0.49
1:2:48:G:C2	1:2:49:C:C6	3.00	0.49
1:2:590:C:H5''	32:E0:43:ARG:NH1	2.26	0.49
85:5:118:U:C5	85:5:119:U:C5	3.00	0.49
85:5:127:G:H2'	85:5:128:G:H8	1.78	0.49
85:5:1338:C:H2'	85:5:1339:C:C6	2.45	0.49
85:5:1409:G:H2'	85:5:1410:U:O4'	2.12	0.49
85:5:1561:G:H1	85:5:1578:C:N4	2.10	0.49
85:5:1939:G:N1	85:5:2110:G:C6	2.80	0.49
85:5:2404:A:C4	95:5:3401:PHE:HZ	2.31	0.49
85:5:2555:G:C6	85:5:2556:C:C2	3.00	0.49
85:5:2999:U:O2'	85:5:3296:A:H5'	2.12	0.49
85:5:3163:A:N1	85:5:3288:G:C6	2.81	0.49
85:5:3364:C:H2'	85:5:3365:U:H6	1.76	0.49
85:5:3385:U:H2'	85:5:3386:G:C8	2.47	0.49
85:5:767:U:H1'	85:5:768:C:C6	2.46	0.49
80:6:1155:G:H2'	80:6:1155:G:N3	2.27	0.49
80:6:1650:U:H5''	80:6:1651:A:OP2	2.12	0.49
80:6:1731:A:H5''	80:6:1732:A:OP2	2.12	0.49
10:S8:137:LYS:HE3	80:6:191:C:N4	266.29	0.49
13:C1:38:ALA:O	80:6:247:A:H1'	322.57	0.49
80:6:341:A:H2'	80:6:342:C:H6	1.77	0.49
80:6:473:A:O2'	80:6:768:C:N3	2.43	0.49
37:7:36:C:H2'	37:7:37:G:H8	1.77	0.49
15:C3:87:ASP:HB3	15:C3:125:LEU:HD11	4.47	0.49
16:C4:13:VAL:CG1	16:C4:77:THR:H	2.19	0.49
18:C6:93:HIS:HA	18:C6:97:VAL:CG1	2.41	0.49
26:D4:9:THR:HB	26:D4:23:PHE:CD1	2.47	0.49
24:D2:60:LYS:NZ	29:D7:24:LEU:O	3.16	0.49
40:L3:139:GLN:OE1	40:L3:142:ALA:HB3	2.91	0.49
40:L3:339:ARG:HG2	40:L3:340:LYS:O	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:355:PHE:CZ	44:L7:70:LYS:HD3	2.56	0.49
41:L4:74:ILE:HD13	41:L4:88:GLY:HA2	1.94	0.49
42:L5:95:TRP:CZ2	42:L5:181:PRO:HD3	3.95	0.49
36:1:1353:U:O2	43:L6:10:TYR:HB2	2.11	0.49
48:M1:129:VAL:HG22	48:M1:129:VAL:O	4.87	0.49
49:M3:53:LEU:HD23	49:M3:94:GLY:C	2.32	0.49
49:M3:53:LEU:HB3	49:M3:96:ALA:HB2	2.76	0.49
36:1:2383:C:H5'	52:M6:71:PHE:HE2	1.77	0.49
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.47	0.49
54:M8:70:ALA:HB1	54:M8:73:GLN:HE21	3.53	0.49
55:M9:20:ARG:NH2	85:5:1874:A:N6	148.99	0.49
65:N9:45:HIS:ND1	85:5:1075:A:C5	197.03	0.49
68:O2:12:LYS:HD2	68:O2:57:TYR:O	2.13	0.49
36:1:135:C:N3	71:O5:94:LYS:HG3	2.28	0.49
74:O8:64:LYS:HA	74:O8:64:LYS:HE3	1.93	0.49
75:O9:21:ARG:NH1	75:O9:22:PRO:O	2.37	0.49
6:S4:127:LYS:HA	6:S4:127:LYS:HE2	4.71	0.49
6:S4:18:TRP:CZ3	6:S4:29:PRO:HD2	4.28	0.49
6:S4:3:ARG:NH1	80:6:399:A:N3	321.77	0.49
6:S4:50:ASN:HB3	6:S4:51:ARG:NH2	3.05	0.49
7:S5:68:ILE:HD13	7:S5:69:PHE:N	5.23	0.49
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.11	0.49
8:S6:58:LYS:HA	8:S6:107:ALA:HB2	3.14	0.49
8:S6:70:PRO:HA	8:S6:98:ARG:HH12	1.78	0.49
11:S9:30:LEU:HD22	11:S9:105:LEU:HD22	1.94	0.49
36:1:1260:A:H1'	36:1:1280:C:H1'	1.94	0.49
36:1:132:C:C2	36:1:137:G:C2	3.00	0.49
36:1:3374:U:H6	36:1:3374:U:O5'	1.96	0.49
36:1:986:U:H2'	36:1:987:U:H6	1.77	0.49
1:2:1034:G:O2'	1:2:1035:U:P	2.70	0.49
1:2:333:A:H2'	1:2:334:G:C8	2.46	0.49
38:4:46:G:C6	38:4:47:C:C4	3.00	0.49
38:4:62:C:O2	92:4:210:OHX:N5	2.46	0.49
55:M9:120:TYR:OH	85:5:1720:U:OP2	233.22	0.49
85:5:1731:A:C6	85:5:1732:U:N3	2.80	0.49
85:5:1731:A:C5	85:5:1732:U:C4	3.01	0.49
85:5:2888:U:C6	85:5:2911:A:N6	2.80	0.49
85:5:2997:G:C1'	85:5:3396:U:H5'	2.42	0.49
85:5:678:G:C5	85:5:679:U:C4	3.00	0.49
85:5:678:G:C5	85:5:679:U:C5	3.00	0.49
80:6:1535:U:O2'	80:6:1536:G:O5'	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:426:G:N2	80:6:427:C:C2	2.80	0.49
80:6:6:G:C2	80:6:7:G:C8	3.00	0.49
80:6:839:U:H2'	80:6:840:U:C6	2.47	0.49
37:7:55:A:OP2	37:7:56:A:OP2	2.31	0.49
38:8:19:C:C4	38:8:20:U:C4	3.00	0.49
14:C2:45:LEU:O	14:C2:49:THR:HG23	2.81	0.49
21:C9:125:SER:O	21:C9:129:GLN:HG3	2.12	0.49
21:C9:66:TYR:HE2	21:C9:129:GLN:HG3	5.05	0.49
39:L2:132:ASN:N	39:L2:132:ASN:OD1	2.45	0.49
45:L8:241:LYS:HE2	85:5:2586:G:O2'	185.49	0.49
51:M5:154:PRO:O	51:M5:157:LYS:HG3	2.54	0.49
51:M5:183:THR:O	51:M5:183:THR:HG23	2.40	0.49
51:M5:37:HIS:NE2	51:M5:63:ARG:HB3	2.27	0.49
51:M5:50:ARG:NH1	85:5:268:A:P	114.60	0.49
56:N0:12:ARG:HD2	56:N0:13:ARG:O	2.12	0.49
57:N1:157:GLU:HG2	57:N1:159:PHE:CE2	7.17	0.49
59:N3:79:VAL:HG23	59:N3:80:ARG:HG3	2.73	0.49
72:O6:75:LYS:O	72:O6:75:LYS:HG3	2.88	0.49
73:O7:52:LYS:HG3	73:O7:55:ARG:HD2	1.93	0.49
97:1:3403:SPS:H81	98:P:101:8AN:H5'A	1.85	0.49
3:S1:183:GLN:HG2	3:S1:187:LYS:HE3	1.93	0.49
7:S5:57:SER:OG	7:S5:167:ARG:NH2	2.45	0.49
8:S6:31:ARG:HB2	8:S6:34:GLN:HG3	1.94	0.49
36:1:900:G:H1'	36:1:1589:A:H62	1.75	0.49
36:1:189:G:C2	36:1:191:U:C4	3.00	0.49
36:1:2361:A:C6	36:1:2362:C:C4	3.00	0.49
36:1:2403:G:N3	36:1:2405:C:C4	2.81	0.49
36:1:2641:U:OP1	92:1:3662:OHX:N4	2.45	0.49
36:1:2674:A:C5	48:M1:124:GLY:HA3	2.48	0.49
36:1:2948:C:H2'	36:1:2949:U:O4'	2.12	0.49
36:1:945:C:H2'	36:1:946:U:H6	1.77	0.49
1:2:1503:U:H5''	21:C9:75:LYS:NZ	2.27	0.49
1:2:1631:A:H2'	1:2:1632:G:H8	1.77	0.49
37:3:17:A:N6	37:3:18:C:N4	2.61	0.49
37:3:50:U:C2'	37:3:51:A:H5'	2.41	0.49
37:3:8:G:C6	37:3:9:C:C4	3.00	0.49
85:5:1138:U:H2'	85:5:1139:G:O4'	2.12	0.49
85:5:2426:U:H2'	85:5:2427:U:C6	2.47	0.49
85:5:2774:C:O2	85:5:2787:G:N3	2.46	0.49
85:5:3041:U:C4	85:5:3042:U:O4	2.66	0.49
85:5:581:U:O4	92:5:3524:OHX:N6	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3127:A:OP2	92:5:3658:OHX:N5	2.45	0.49
85:5:716:A:C5	85:5:720:A:C6	3.00	0.49
85:5:996:A:H2'	85:5:997:A:O4'	2.12	0.49
80:6:1138:A:C4	80:6:1139:A:C8	3.01	0.49
80:6:1145:U:H3	80:6:1633:A:H61	1.60	0.49
80:6:1683:C:O2	80:6:1718:G:N2	2.33	0.49
92:6:1978:OHX:N5	92:6:2001:OHX:N3	2.61	0.49
80:6:364:G:C2	80:6:381:C:N3	2.80	0.49
80:6:407:A:H2'	80:6:408:C:C6	2.47	0.49
80:6:839:U:H2'	80:6:840:U:H6	1.77	0.49
12:C0:29:GLN:NE2	12:C0:31:LYS:O	4.99	0.49
13:C1:71:LEU:HG	13:C1:137:PHE:HE1	1.76	0.49
21:C9:85:SER:C	21:C9:87:GLY:H	2.16	0.49
1:2:1779:C:P	28:D6:5:ARG:HH12	2.36	0.49
31:D9:21:CYS:C	31:D9:23:VAL:H	2.67	0.49
31:D9:31:ILE:HG22	31:D9:36:LEU:HD11	1.93	0.49
36:1:3315:G:C5	40:L3:123:TYR:CE2	3.00	0.49
41:L4:107:ARG:HD2	41:L4:109:TRP:CZ3	2.48	0.49
44:L7:125:GLU:OE1	44:L7:128:LYS:HD2	3.53	0.49
44:L7:98:LYS:HB3	44:L7:99:PRO:HD3	2.24	0.49
45:L8:78:PHE:C	45:L8:80:TYR:N	2.64	0.49
47:M0:43:VAL:HG21	47:M0:197:VAL:HG22	2.03	0.49
47:M0:87:LEU:HA	47:M0:138:VAL:HG22	4.43	0.49
51:M5:23:GLN:NE2	51:M5:122:ASN:OD1	2.30	0.49
55:M9:127:SER:HA	55:M9:132:PHE:CD2	2.48	0.49
56:N0:133:ALA:HA	56:N0:141:LYS:HZ1	1.78	0.49
47:M0:169:LYS:HE3	57:N1:160:ILE:H	6.15	0.49
57:N1:56:PHE:C	57:N1:58:GLN:H	2.16	0.49
57:N1:78:LYS:O	57:N1:85:LEU:N	2.77	0.49
38:4:147:U:O2'	61:N5:38:LEU:HB2	2.12	0.49
61:N5:38:LEU:O	61:N5:39:LYS:HB2	4.68	0.49
61:N5:68:THR:OG1	71:O5:36:LEU:HD13	2.12	0.49
62:N6:108:LYS:NZ	71:O5:14:LYS:HD2	57.45	0.49
62:N6:82:VAL:O	62:N6:84:LYS:N	3.02	0.49
65:N9:8:THR:HG23	65:N9:10:HIS:H	1.77	0.49
68:O2:21:HIS:CE1	68:O2:24:ARG:HD2	2.69	0.49
68:O2:44:ARG:O	68:O2:45:ARG:HB2	2.11	0.49
69:O3:47:LYS:HE3	69:O3:105:SER:HA	2.46	0.49
74:O8:3:ARG:O	74:O8:52:TYR:HA	3.10	0.49
79:Q3:14:TYR:HB3	79:Q3:18:TYR:CE1	2.47	0.49
2:S0:183:ARG:HA	2:S0:188:LEU:HB2	2.80	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:22:THR:HG22	2:S0:169:SER:HB3	1.93	0.49
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.13	0.49
4:S2:49:LYS:HB3	4:S2:243:TYR:CE2	2.47	0.49
10:S8:103:GLN:HE21	10:S8:166:TYR:HE1	4.42	0.49
35:SM:133:GLU:O	35:SM:136:ALA:HB3	2.13	0.49
34:SR:172:ALA:HB1	34:SR:199:ILE:HG21	2.73	0.49
36:1:161:G:C6	36:1:162:G:C5	3.01	0.49
36:1:2652:U:OP1	78:Q2:65:THR:OG1	2.24	0.49
36:1:2683:U:H2'	36:1:2684:C:H6	1.73	0.49
36:1:3318:G:C6	36:1:3320:A:C5	3.01	0.49
36:1:348:A:H4'	36:1:367:A:H62	1.77	0.49
36:1:1599:G:OP1	92:1:3616:OHX:N6	2.46	0.49
1:2:1347:G:N2	21:C9:3:GLY:HA3	2.28	0.49
1:2:1185:A:N1	1:2:1440:C:C5	2.80	0.49
1:2:794:A:C2	1:2:841:G:H1'	2.48	0.49
85:5:1161:G:N1	85:5:1162:U:C4	2.81	0.49
85:5:1311:G:H2'	85:5:1312:C:H6	1.77	0.49
85:5:1885:U:H4'	85:5:1886:A:OP1	2.12	0.49
85:5:2943:G:H2'	85:5:2944:U:O4'	2.12	0.49
92:5:3566:OHX:N1	92:5:3640:OHX:N4	2.61	0.49
85:5:420:G:OP1	85:5:420:G:O5'	2.28	0.49
85:5:501:A:H2'	85:5:502:U:H6	1.77	0.49
85:5:824:C:H2'	85:5:825:U:C6	2.47	0.49
85:5:842:G:H2'	85:5:843:A:H8	1.77	0.49
85:5:86:G:O2'	85:5:98:G:O6	2.25	0.49
18:C6:143:ARG:HH11	80:6:1194:A:H62	347.98	0.49
26:D4:60:PHE:HB2	80:6:523:G:OP1	413.82	0.49
80:6:988:A:H2'	80:6:989:U:O4'	2.12	0.49
13:C1:129:ARG:O	13:C1:130:PRO:C	2.86	0.49
17:C5:115:TYR:HB2	17:C5:118:GLU:HG3	1.94	0.49
21:C9:57:ARG:O	21:C9:61:VAL:HG23	2.73	0.49
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.94	0.49
26:D4:94:TYR:CB	26:D4:96:LEU:HD12	3.83	0.49
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.85	0.49
40:L3:146:ARG:HA	40:L3:149:ALA:HB3	1.93	0.49
40:L3:173:GLN:O	40:L3:175:LYS:N	2.45	0.49
40:L3:74:GLU:OE1	40:L3:283:TYR:OH	2.82	0.49
41:L4:144:LYS:H	41:L4:144:LYS:HD2	4.61	0.49
43:L6:42:LEU:HD23	43:L6:84:VAL:CG1	4.97	0.49
45:L8:32:LYS:HD3	45:L8:34:PHE:CZ	2.47	0.49
47:M0:48:LEU:O	47:M0:139:ARG:HA	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:105:ASN:ND2	72:O6:17:VAL:HG21	2.93	0.49
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.88	0.49
53:M7:120:ASN:O	53:M7:145:HIS:HB2	2.12	0.49
55:M9:167:ARG:HB3	55:M9:167:ARG:HH11	3.83	0.49
56:N0:103:VAL:O	56:N0:103:VAL:HG12	2.11	0.49
56:N0:33:ASN:ND2	56:N0:36:ILE:HD12	2.27	0.49
58:N2:37:LEU:O	58:N2:41:ILE:HG13	2.28	0.49
67:O1:81:GLU:O	67:O1:82:GLU:HG2	2.13	0.49
70:O4:74:ARG:HG2	70:O4:75:ALA:O	2.13	0.49
2:S0:121:VAL:HG12	2:S0:123:VAL:HG23	1.95	0.49
6:S4:158:ASP:HB3	6:S4:173:ILE:O	2.66	0.49
10:S8:152:ILE:H	10:S8:152:ILE:HD13	4.86	0.49
34:SR:14:GLU:HB3	34:SR:309:VAL:HG22	1.94	0.49
36:1:1340:G:H2'	36:1:1341:U:H6	1.76	0.49
36:1:1602:A:H5''	55:M9:38:ARG:HG3	1.92	0.49
36:1:3018:C:C4	36:1:3019:U:C4	3.01	0.49
36:1:2910:A:O2'	36:1:3130:A:N1	2.37	0.49
36:1:3215:A:C5	36:1:3259:U:C2	3.00	0.49
36:1:3229:G:O2'	50:M4:133:LYS:HA	2.13	0.49
36:1:3269:U:H5'	36:1:3269:U:O2	2.13	0.49
36:1:600:G:H5''	36:1:600:G:H8	1.78	0.49
1:2:563:U:H4'	32:E0:17:GLN:OE1	2.13	0.49
1:2:922:A:H2'	1:2:923:A:C8	2.47	0.49
37:3:27:A:C1'	37:3:57:G:N2	2.76	0.49
37:3:57:G:OP2	37:3:58:C:N4	2.41	0.49
85:5:1027:A:N7	85:5:1029:G:C2	2.81	0.49
72:O6:27:SER:OG	85:5:156:G:OP1	90.44	0.49
85:5:2726:C:O2'	85:5:2727:A:H2'	2.13	0.49
85:5:348:A:N3	85:5:352:A:O2'	2.46	0.49
73:O7:52:LYS:NZ	85:5:353:G:O6	116.47	0.49
85:5:2578:U:P	92:5:3627:OHX:N4	2.86	0.49
85:5:513:G:C5	85:5:579:G:C6	3.01	0.49
85:5:70:A:N1	85:5:313:A:O2'	2.44	0.49
54:M8:8:LYS:NZ	85:5:971:G:OP1	197.00	0.49
80:6:1271:G:H2'	80:6:1272:U:C6	2.46	0.49
80:6:1394:G:O6	92:6:1943:OHX:N3	2.46	0.49
80:6:811:A:C4	80:6:858:G:H1'	2.48	0.49
38:8:10:A:H2'	38:8:11:C:C6	2.48	0.49
38:8:80:A:H2	38:8:83:C:H41	1.58	0.49
14:C2:68:GLU:C	14:C2:70:ASN:H	2.15	0.49
17:C5:89:MET:O	17:C5:107:ILE:HG13	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:38:LEU:C	18:C6:40:GLU:H	2.15	0.49
20:C8:17:LEU:O	20:C8:19:ASN:N	3.38	0.49
4:S2:229:LEU:HD23	23:D1:23:ILE:HD11	3.31	0.49
28:D6:44:ILE:HD12	28:D6:45:VAL:N	2.25	0.49
40:L3:139:GLN:O	40:L3:140:ASP:C	2.50	0.49
42:L5:107:ARG:NH1	42:L5:120:LYS:HA	2.28	0.49
42:L5:183:TRP:CZ2	42:L5:188:GLU:HA	2.48	0.49
42:L5:4:GLN:C	42:L5:6:ASP:H	2.89	0.49
44:L7:168:ILE:O	44:L7:172:ASN:ND2	5.04	0.49
92:1:3494:OHX:N6	44:L7:217:PRO:O	2.45	0.49
44:L7:239:LEU:O	44:L7:242:SER:N	2.61	0.49
51:M5:72:LYS:O	51:M5:73:ARG:C	2.49	0.49
51:M5:73:ARG:O	51:M5:75:VAL:N	4.04	0.49
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.94	0.49
57:N1:12:ARG:HD2	57:N1:13:TYR:CE2	3.06	0.49
58:N2:98:THR:HG23	58:N2:104:ARG:HH21	6.74	0.49
67:O1:52:ALA:O	67:O1:55:LEU:N	2.91	0.49
67:O1:13:THR:HG22	67:O1:72:ARG:HH21	5.08	0.49
73:O7:52:LYS:CD	73:O7:56:ARG:HH21	2.26	0.49
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.94	0.49
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.12	0.49
75:O9:6:SER:HB3	75:O9:9:ILE:HG12	4.07	0.49
2:S0:84:ARG:HH21	2:S0:201:LEU:HD12	3.24	0.49
6:S4:103:TYR:CE1	6:S4:109:PHE:CE1	4.64	0.49
9:S7:16:LEU:O	9:S7:20:VAL:HG23	2.32	0.49
10:S8:57:ALA:HB1	10:S8:60:ILE:HD11	2.28	0.49
36:1:1063:G:C6	36:1:1097:G:C5	3.00	0.49
36:1:112:U:O2'	36:1:113:C:H5''	2.13	0.49
36:1:185:C:H2'	36:1:186:U:C6	2.48	0.49
36:1:2726:C:P	92:1:3662:OHX:N3	2.86	0.49
36:1:2955:U:OP2	36:1:2977:G:N2	2.45	0.49
36:1:3257:C:H2'	36:1:3258:U:O4'	2.13	0.49
36:1:3087:A:C4'	36:1:3375:A:H61	2.26	0.49
92:1:3568:OHX:N2	68:O2:14:THR:O	2.45	0.49
36:1:437:G:H2'	36:1:438:A:C8	2.48	0.49
36:1:784:A:HO2'	36:1:785:G:P	2.35	0.49
36:1:842:G:C2	36:1:843:A:C8	3.00	0.49
36:1:835:G:HO2'	36:1:857:G:N2	2.09	0.49
1:2:1374:A:H2'	1:2:1375:U:C6	2.48	0.49
1:2:1730:G:H2'	1:2:1731:G:H8	1.76	0.49
1:2:196:G:O2'	1:2:197:A:H8	1.96	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:641:G:N2	1:2:676:U:O2	2.34	0.49
1:2:73:U:O2'	1:2:74:U:C4	2.66	0.49
85:5:1336:U:OP2	92:5:3703:OHX:N5	2.45	0.49
85:5:1879:A:H2'	85:5:1879:A:N3	2.28	0.49
85:5:2375:G:O2'	85:5:2377:G:OP2	2.27	0.49
85:5:1134:G:O2'	85:5:2642:A:N3	2.31	0.49
85:5:3034:C:H6	85:5:3034:C:O5'	1.95	0.49
85:5:2826:U:O4	92:5:3406:OHX:N6	2.46	0.49
92:5:3503:OHX:N6	92:7:209:OHX:N6	2.61	0.49
92:5:3633:OHX:N3	92:5:3687:OHX:N2	2.61	0.49
85:5:585:A:C4	85:5:586:C:C5	3.00	0.49
80:6:1535:U:HO2'	80:6:1536:G:P	2.36	0.49
80:6:343:C:H2'	80:6:344:A:O4'	2.13	0.49
19:C7:50:ILE:O	19:C7:54:THR:HG23	3.78	0.49
21:C9:106:GLN:HG2	21:C9:122:ARG:HH22	3.44	0.49
28:D6:3:LYS:NZ	28:D6:6:ALA:HA	2.28	0.49
28:D6:87:ARG:NH2	28:D6:91:ASP:O	3.16	0.49
1:2:854:G:O2'	29:D7:67:THR:O	2.26	0.49
39:L2:117:GLU:HB3	39:L2:119:LYS:O	2.13	0.49
39:L2:209:HIS:HD2	39:L2:210:PRO:HD2	1.75	0.49
39:L2:200:ARG:NH1	39:L2:217:GLN:OE1	2.46	0.49
39:L2:29:LEU:HA	39:L2:76:PHE:CE1	2.37	0.49
46:L9:61:GLY:O	46:L9:64:HIS:N	2.45	0.49
48:M1:110:ILE:O	48:M1:113:GLY:O	2.31	0.49
48:M1:81:GLU:O	48:M1:83:GLY:N	2.46	0.49
49:M3:106:GLN:NE2	49:M3:110:ASP:OD1	2.45	0.49
92:1:3563:OHX:N1	51:M5:170:LYS:NZ	2.61	0.49
51:M5:80:THR:O	51:M5:81:TYR:O	2.30	0.49
53:M7:27:LYS:HG2	53:M7:63:PHE:CG	2.48	0.49
54:M8:46:LYS:O	54:M8:50:LYS:HG3	5.17	0.49
55:M9:13:SER:HG	55:M9:38:ARG:HH22	1.58	0.49
56:N0:1:MET:HE1	56:N0:32:SER:N	2.26	0.49
57:N1:38:ASP:O	57:N1:64:VAL:HG12	2.70	0.49
63:N7:41:ALA:O	63:N7:43:VAL:HG13	3.41	0.49
64:N8:24:LYS:HD2	64:N8:26:ARG:NH2	2.28	0.49
2:S0:105:GLY:N	2:S0:135:GLU:OE2	3.19	0.49
2:S0:35:PRO:O	2:S0:37:VAL:N	2.45	0.49
4:S2:94:GLN:HG2	4:S2:95:ARG:H	3.44	0.49
10:S8:184:LEU:HB3	10:S8:189:LEU:HB2	1.94	0.49
34:SR:197:SER:OG	34:SR:217:ASP:OD1	3.48	0.49
34:SR:274:LEU:HD13	34:SR:313:TRP:CE3	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1240:A:H3'	36:1:1241:U:H5'	1.95	0.49
36:1:1700:G:H2'	36:1:1701:C:C6	2.48	0.49
36:1:183:G:N2	36:1:184:U:C2	2.80	0.49
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.46	0.49
36:1:1449:A:C2	36:1:2356:A:C5	3.00	0.49
36:1:2851:A:H2'	36:1:2852:C:H6	1.76	0.49
36:1:3189:G:C2	36:1:3190:C:C2	3.00	0.49
36:1:696:C:OP2	41:L4:119:ARG:NH2	2.36	0.49
36:1:895:A:N3	36:1:895:A:H2'	2.28	0.49
1:2:1300:C:O2	1:2:1383:A:H2	1.95	0.49
1:2:159:U:C6	26:D4:117:LYS:HG2	2.48	0.49
1:2:1668:G:H1	1:2:1812:C:H42	1.61	0.49
1:2:1137:G:O6	92:2:2013:OHX:N3	2.46	0.49
1:2:737:A:N1	1:2:776:A:H2'	2.28	0.49
36:1:1196:C:C2	92:3:204:OHX:N2	2.81	0.49
85:5:1254:C:N4	85:5:1263:A:C4	2.81	0.49
70:O4:9:ARG:NH2	85:5:1606:U:O4	140.11	0.49
55:M9:60:LYS:NZ	85:5:1671:C:H5''	170.57	0.49
85:5:644:G:H2'	85:5:2372:A:C5	2.48	0.49
85:5:2811:A:C2	85:5:2812:C:C5	3.01	0.49
85:5:2846:U:H6	85:5:2846:U:C4'	2.25	0.49
85:5:2954:U:O4	97:5:3403:SPS:H141	2.11	0.49
85:5:3013:U:N3	85:5:3014:U:C4	2.81	0.49
85:5:3086:A:H2'	85:5:3086:A:N3	2.28	0.49
85:5:3197:G:H2'	85:5:3198:U:H5''	1.95	0.49
92:5:3555:OHX:N1	92:5:3740:OHX:N5	2.61	0.49
85:5:544:C:HO2'	85:5:545:U:H6	1.61	0.49
85:5:884:A:C8	85:5:2139:A:C8	3.00	0.49
8:S6:87:ARG:NH2	80:6:161:U:OP2	314.25	0.49
80:6:325:G:C6	80:6:344:A:N1	2.81	0.49
11:S9:124:HIS:CD2	80:6:479:C:H5'	451.72	0.49
80:6:961:U:H2'	80:6:962:C:C6	2.47	0.49
80:6:998:A:N7	80:6:999:U:C5	2.81	0.49
17:C5:127:ARG:HG3	17:C5:130:ARG:HD3	6.94	0.49
1:2:1466:A:H4'	18:C6:72:GLY:N	2.28	0.49
21:C9:81:GLY:HA3	21:C9:93:HIS:HE1	1.78	0.49
22:D0:48:HIS:O	22:D0:48:HIS:CG	2.65	0.49
24:D2:80:ASN:OD1	80:6:747:C:O2'	356.89	0.49
26:D4:40:LEU:O	26:D4:44:LEU:HB2	2.75	0.49
27:D5:41:ILE:HG13	27:D5:42:LEU:HD12	1.95	0.49
11:S9:36:LEU:O	32:E0:33:ARG:HG3	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:97:ASN:HB2	39:L2:100:ASN:ND2	3.29	0.49
40:L3:139:GLN:OE1	40:L3:142:ALA:N	2.46	0.49
40:L3:360:ASP:OD2	40:L3:364:LYS:NZ	2.99	0.49
41:L4:115:HIS:CE1	41:L4:119:ARG:HH12	4.75	0.49
41:L4:251:THR:O	41:L4:252:GLU:C	2.72	0.49
41:L4:71:VAL:HG13	41:L4:72:ALA:O	2.13	0.49
42:L5:5:LYS:HA	42:L5:5:LYS:HZ1	5.70	0.49
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	1.95	0.49
43:L6:23:LYS:HD2	85:5:611:A:C2	238.05	0.49
45:L8:184:ALA:HA	45:L8:194:THR:HA	1.94	0.49
59:N3:28:ASN:ND2	59:N3:112:SER:OG	2.45	0.49
61:N5:73:MET:HE3	61:N5:73:MET:HA	4.45	0.49
66:O0:42:ILE:HG13	66:O0:67:VAL:HG13	1.95	0.49
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.12	0.49
3:S1:91:VAL:HG13	3:S1:96:LEU:HB3	5.28	0.49
5:S3:121:GLY:N	35:SM:123:ALA:HB1	2.28	0.49
7:S5:205:SER:C	7:S5:207:THR:H	2.34	0.49
8:S6:4:ASN:HA	8:S6:15:THR:HG22	1.94	0.49
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	1.95	0.49
34:SR:201:THR:CB	34:SR:242:SER:HA	2.42	0.49
36:1:1947:G:H1	36:1:2101:C:H42	1.61	0.49
36:1:2296:A:H2'	36:1:2297:U:H5'	1.95	0.49
36:1:3083:G:H2'	36:1:3084:C:C6	2.48	0.49
36:1:494:G:H3'	36:1:494:G:OP1	2.13	0.49
36:1:699:A:OP1	49:M3:68:LYS:HE2	2.13	0.49
1:2:1547:U:H2'	1:2:1548:C:C6	2.48	0.49
37:3:28:C:C4	37:3:29:C:C2	3.01	0.49
38:4:73:U:O2'	38:4:90:U:OP1	2.29	0.49
38:4:97:A:H2'	38:4:98:U:C6	2.48	0.49
85:5:1520:G:C2	85:5:1521:G:C4	3.01	0.49
85:5:1741:A:C6	85:5:1742:U:O2	2.66	0.49
55:M9:21:LYS:HD2	85:5:1874:A:OP2	140.29	0.49
85:5:2717:U:C2	85:5:2740:A:C2	3.00	0.49
85:5:1062:A:OP2	92:5:3727:OHX:N5	2.46	0.49
85:5:996:A:C2	85:5:997:A:H1'	2.47	0.49
80:6:1294:G:C2	80:6:1322:A:C5	3.01	0.49
8:S6:149:LYS:HD2	80:6:141:U:P	316.10	0.49
80:6:1778:G:N2	80:6:1783:C:O2	2.44	0.49
80:6:754:A:N6	80:6:793:A:H62	2.11	0.49
80:6:88:U:H2'	80:6:89:G:H8	1.77	0.49
15:C3:105:ASN:HB3	80:6:879:G:O2'	274.67	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:55:ARG:NH1	15:C3:56:ASP:OD1	4.62	0.49
15:C3:89:TYR:O	15:C3:92:ILE:N	3.24	0.49
21:C9:117:SER:HB2	21:C9:123:ARG:CB	2.42	0.49
30:D8:15:VAL:HA	30:D8:28:VAL:HG22	1.95	0.49
40:L3:296:THR:H	40:L3:299:ASP:HB3	1.78	0.49
42:L5:9:SER:OG	42:L5:10:SER:N	2.45	0.49
42:L5:86:TYR:CD1	42:L5:247:ILE:HA	2.53	0.49
42:L5:28:THR:O	85:5:2703:A:N6	280.17	0.49
42:L5:95:TRP:HZ3	42:L5:156:GLY:O	7.93	0.49
44:L7:217:PRO:HG2	44:L7:218:ARG:H	1.78	0.49
44:L7:239:LEU:HD22	44:L7:243:MET:SD	2.53	0.49
45:L8:187:GLY:O	45:L8:190:VAL:N	3.25	0.49
46:L9:17:THR:HA	50:M4:5:SER:OG	3.25	0.49
47:M0:175:ASN:O	47:M0:176:LEU:HB2	4.68	0.49
51:M5:62:TYR:O	51:M5:132:VAL:N	2.66	0.49
53:M7:32:THR:O	53:M7:35:ALA:HB3	3.63	0.49
57:N1:11:THR:HG21	57:N1:15:PHE:CE1	2.48	0.49
72:O6:26:ILE:O	72:O6:29:LYS:N	2.35	0.49
76:Q0:79:GLU:O	76:Q0:81:SER:N	2.72	0.49
2:S0:27:ARG:NE	2:S0:44:GLY:O	4.72	0.49
1:2:1050:C:H5''	3:S1:150:VAL:HG12	1.95	0.49
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.13	0.49
6:S4:103:TYR:CD1	6:S4:189:LEU:HD11	2.47	0.49
6:S4:86:PHE:CD1	6:S4:87:MET:HG2	2.47	0.49
7:S5:145:ASP:O	7:S5:159:ALA:HA	2.13	0.49
7:S5:43:PHE:HD2	7:S5:46:TRP:HD1	5.89	0.49
9:S7:80:GLU:O	9:S7:84:LYS:HB2	2.13	0.49
34:SR:267:PRO:HD2	34:SR:269:TYR:HE1	3.49	0.49
36:1:1668:G:H2'	36:1:1669:C:O4'	2.12	0.48
36:1:1763:U:H5'	36:1:1764:U:OP2	2.12	0.48
36:1:2717:U:C4	36:1:2740:A:N1	2.81	0.48
36:1:2987:A:H2'	36:1:2988:C:C6	2.48	0.48
36:1:3155:U:H3'	36:1:3156:U:C4'	2.40	0.48
36:1:3338:C:H2'	36:1:3339:A:C8	2.48	0.48
36:1:2402:A:O2'	92:1:3702:OHX:N3	2.46	0.48
36:1:651:G:C6	36:1:652:G:C6	3.00	0.48
36:1:745:C:H5''	54:M8:145:ASN:OD1	2.13	0.48
1:2:579:A:O2'	92:2:2023:OHX:N3	2.46	0.48
1:2:685:G:O6	1:2:720:A:N6	2.46	0.48
37:3:28:C:OP1	48:M1:137:ARG:NH1	2.44	0.48
85:5:1002:A:N1	85:5:1051:U:C6	2.81	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2107:A:C6	85:5:2108:C:C4	3.01	0.48
40:L3:123:TYR:CD1	85:5:3315:G:H2'	180.79	0.48
92:5:3590:OHX:N2	38:8:18:U:OP1	2.45	0.48
85:5:392:G:C6	85:5:393:U:C4	3.01	0.48
53:M7:3:ARG:NH2	85:5:398:A:C8	126.21	0.48
85:5:703:G:C5	85:5:704:U:C5	3.01	0.48
85:5:746:A:O2'	85:5:747:A:H5'	2.13	0.48
80:6:1297:G:O6	92:6:2022:OHX:N3	2.46	0.48
80:6:1357:A:H2'	80:6:1358:G:H8	1.78	0.48
80:6:492:A:H2'	80:6:493:U:H5''	1.95	0.48
80:6:647:G:O5'	80:6:647:G:H8	1.96	0.48
13:C1:93:TYR:HB2	13:C1:100:TYR:CE1	3.04	0.48
17:C5:77:ARG:HB3	17:C5:102:PHE:CD1	3.17	0.48
17:C5:95:GLY:O	17:C5:102:PHE:HB3	2.12	0.48
7:S5:74:ALA:HB2	18:C6:79:TYR:CE1	3.11	0.48
19:C7:14:LYS:O	19:C7:18:GLU:HB2	2.13	0.48
21:C9:118:PRO:O	21:C9:120:GLY:N	2.46	0.48
2:S0:56:LYS:NZ	23:D1:66:ASP:OD1	2.46	0.48
26:D4:22:GLN:HB2	26:D4:72:PHE:CE1	2.48	0.48
28:D6:20:PRO:HA	28:D6:31:PRO:HA	1.95	0.48
28:D6:70:LYS:HG2	28:D6:72:HIS:HE1	5.18	0.48
29:D7:41:LEU:H	29:D7:41:LEU:HD23	3.35	0.48
40:L3:13:HIS:ND1	40:L3:13:HIS:C	2.66	0.48
40:L3:153:LYS:HG2	40:L3:154:TYR:CE2	3.54	0.48
40:L3:153:LYS:HB3	40:L3:154:TYR:CE2	3.27	0.48
8:S6:22:HIS:CD2	40:L3:300:ARG:NH1	2.82	0.48
41:L4:324:LEU:HD12	41:L4:324:LEU:O	2.12	0.48
42:L5:187:THR:O	42:L5:189:GLU:N	2.46	0.48
42:L5:58:LYS:HD3	42:L5:93:THR:OG1	2.13	0.48
44:L7:82:LYS:O	44:L7:119:VAL:HG23	2.15	0.48
44:L7:33:ARG:NH1	85:5:596:C:OP1	236.38	0.48
47:M0:87:LEU:HD23	47:M0:138:VAL:HG23	5.39	0.48
54:M8:70:ALA:O	54:M8:73:GLN:HG3	2.13	0.48
55:M9:23:TRP:CH2	55:M9:25:ASP:HB2	2.48	0.48
56:N0:57:GLU:HB3	57:N1:136:ARG:NH2	3.71	0.48
57:N1:143:THR:OG1	57:N1:146:ASN:O	2.30	0.48
58:N2:104:ARG:HH11	58:N2:106:ALA:HB2	3.96	0.48
58:N2:64:THR:HG22	58:N2:64:THR:O	2.89	0.48
59:N3:26:ALA:HB3	59:N3:101:VAL:HG13	1.95	0.48
60:N4:4:GLU:HG2	60:N4:30:ARG:HD2	1.95	0.48
36:1:943:U:H2'	64:N8:12:ARG:HD3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:21:ILE:HG22	65:N9:22:LYS:N	3.35	0.48
70:O4:4:ARG:NE	85:5:1481:A:C2	155.70	0.48
72:O6:55:ARG:HA	72:O6:58:ILE:HD13	1.95	0.48
2:S0:106:SER:N	2:S0:135:GLU:OE2	2.52	0.48
5:S3:44:THR:HG22	5:S3:45:LYS:HG3	1.94	0.48
6:S4:200:ARG:O	6:S4:201:HIS:HB2	2.13	0.48
9:S7:117:THR:HG23	9:S7:120:ALA:H	1.78	0.48
9:S7:133:THR:HG22	9:S7:157:LYS:O	2.69	0.48
10:S8:166:TYR:O	10:S8:184:LEU:HB2	2.83	0.48
11:S9:60:LEU:HD22	11:S9:93:LEU:HD11	1.94	0.48
36:1:122:A:O2'	36:1:145:G:N2	2.44	0.48
36:1:1266:G:C2	36:1:1276:U:C2	3.01	0.48
36:1:1631:C:O2	36:1:1812:G:N2	2.46	0.48
36:1:167:U:H2'	36:1:168:U:C6	2.48	0.48
36:1:1627:U:C2	36:1:1817:G:N1	2.81	0.48
36:1:1938:U:O4	92:1:3451:OHX:N5	2.46	0.48
36:1:208:C:H2'	36:1:209:A:O4'	2.13	0.48
36:1:212:G:OP1	36:1:227:G:N2	2.46	0.48
36:1:2147:A:OP1	39:L2:199:THR:HA	2.13	0.48
36:1:2385:G:C4	36:1:3143:C:C5	3.01	0.48
36:1:2885:C:C4	36:1:2886:U:O4	2.66	0.48
36:1:2907:G:H1'	76:Q0:100:TYR:HD2	1.78	0.48
36:1:979:U:O2'	36:1:980:A:N7	2.46	0.48
1:2:1035:U:OP1	1:2:1036:G:H5''	2.13	0.48
1:2:1041:U:O2'	1:2:1043:U:OP2	2.28	0.48
1:2:1667:U:O2	1:2:1701:G:C2	2.66	0.48
37:3:17:A:C6	37:3:18:C:C4	3.01	0.48
37:3:18:C:H42	37:3:61:G:H1	1.59	0.48
37:3:36:C:O2	37:3:45:A:H1'	2.12	0.48
37:3:65:G:N2	37:3:66:A:C4	2.81	0.48
85:5:1011:A:C2	85:5:1040:A:N1	2.80	0.48
85:5:1409:G:O6	92:5:3662:OHX:N6	2.46	0.48
85:5:1673:G:C5	85:5:1775:G:C2	3.01	0.48
85:5:2114:C:H5'	85:5:2115:G:OP1	2.13	0.48
85:5:2595:A:OP1	92:5:3545:OHX:N3	2.46	0.48
51:M5:12:ARG:HG2	85:5:268:A:C4	127.69	0.48
92:5:3503:OHX:N5	92:7:209:OHX:N2	2.60	0.48
85:5:678:G:N2	85:5:702:C:O2	2.40	0.48
85:5:751:A:H2'	85:5:752:C:H6	1.78	0.48
85:5:87:U:H2'	85:5:88:A:C8	2.45	0.48
80:6:1070:C:H2'	80:6:1071:U:C6	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1202:A:H62	80:6:1456:C:H3'	1.78	0.48
80:6:1277:G:C5	80:6:1278:G:C5	3.01	0.48
34:SR:63:GLY:HA2	80:6:1341:A:OP1	449.61	0.48
80:6:154:G:H1	80:6:160:C:H42	1.60	0.48
80:6:21:U:C2	80:6:22:A:C8	3.01	0.48
80:6:562:G:H1	80:6:583:C:N4	2.09	0.48
12:C0:74:GLU:HA	12:C0:77:ARG:HG3	4.97	0.48
15:C3:87:ASP:OD1	80:6:867:G:N2	317.30	0.48
21:C9:98:GLY:O	21:C9:102:ARG:HB2	2.46	0.48
2:S0:184:LEU:HB3	23:D1:45:ALA:HB2	1.95	0.48
40:L3:46:PHE:CE2	40:L3:205:VAL:HG13	3.24	0.48
41:L4:198:ARG:NH1	62:N6:12:ARG:HH12	3.64	0.48
42:L5:120:LYS:O	42:L5:248:ARG:NH2	2.88	0.48
42:L5:36:LEU:HD23	85:5:2748:A:H1'	253.23	0.48
47:M0:48:LEU:HG	47:M0:142:ASP:HA	1.95	0.48
47:M0:171:TRP:CG	47:M0:181:TYR:CD2	3.02	0.48
47:M0:34:TYR:OH	47:M0:93:PRO:HD2	2.73	0.48
48:M1:12:LEU:HD12	48:M1:131:MET:HE2	1.95	0.48
51:M5:138:GLN:HA	51:M5:143:ARG:HH11	1.78	0.48
52:M6:84:LEU:O	52:M6:85:ARG:C	2.52	0.48
57:N1:39:ILE:CD1	57:N1:102:ARG:HD3	2.43	0.48
58:N2:101:ASN:HA	58:N2:103:TYR:CE2	3.08	0.48
58:N2:15:PHE:N	58:N2:65:VAL:O	2.65	0.48
61:N5:24:LEU:HD22	61:N5:25:LYS:H	3.81	0.48
64:N8:113:LEU:O	64:N8:115:LYS:N	4.08	0.48
54:M8:178:ARG:HD3	64:N8:50:PRO:HB2	3.37	0.48
67:O1:107:VAL:HG12	67:O1:108:VAL:N	2.98	0.48
69:O3:91:ALA:C	69:O3:93:THR:H	2.69	0.48
78:Q2:10:THR:OG1	78:Q2:11:TYR:N	2.46	0.48
2:S0:114:SER:HB2	2:S0:116:LYS:NZ	4.94	0.48
2:S0:120:LEU:HD21	2:S0:144:ILE:HD12	1.94	0.48
3:S1:70:LEU:HB2	3:S1:82:ARG:O	4.73	0.48
4:S2:212:LYS:O	4:S2:216:VAL:HG23	2.13	0.48
6:S4:231:GLN:O	6:S4:233:LYS:N	2.93	0.48
6:S4:50:ASN:O	6:S4:51:ARG:NE	3.29	0.48
9:S7:71:HIS:HD2	9:S7:74:GLN:OE1	6.65	0.48
34:SR:116:ASP:OD2	34:SR:119:ALA:N	2.86	0.48
34:SR:18:GLY:N	34:SR:39:ASP:OD2	2.37	0.48
36:1:1225:A:C2	36:1:3116:G:C4	3.01	0.48
36:1:1650:G:O6	92:1:3674:OHX:N2	2.46	0.48
36:1:1722:U:H5''	55:M9:99:LEU:HD12	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1757:A:H2'	36:1:1758:G:C8	2.48	0.48
36:1:1868:G:C5	36:1:1869:C:C4	3.01	0.48
36:1:2284:C:H3'	36:1:2285:C:C6	2.48	0.48
36:1:2299:A:C6	36:1:2300:G:N7	2.82	0.48
36:1:2660:G:O3'	36:1:2749:G:N2	2.45	0.48
36:1:3015:G:C5	36:1:3040:A:C2	3.01	0.48
36:1:3174:A:H2'	36:1:3175:U:H5'	1.95	0.48
36:1:3294:A:H2'	36:1:3295:A:O4'	2.13	0.48
36:1:353:G:O2'	36:1:354:U:P	2.72	0.48
36:1:394:G:N2	36:1:396:A:H2'	2.28	0.48
36:1:641:C:H6	36:1:641:C:H3'	1.78	0.48
36:1:67:A:OP2	92:1:3447:OHX:N6	2.46	0.48
36:1:953:G:H2'	36:1:1117:G:H5''	1.95	0.48
1:2:154:G:O6	26:D4:128:LYS:NZ	2.24	0.48
1:2:1643:A:H5'	59:N3:67:PRO:HG2	1.95	0.48
1:2:225:A:H2'	1:2:226:A:O4'	2.13	0.48
1:2:973:C:OP2	92:2:1967:OHX:N4	2.46	0.48
1:2:986:A:C4	1:2:988:A:C6	3.02	0.48
37:3:35:C:H2'	37:3:36:C:O4'	2.14	0.48
37:3:97:A:H2'	37:3:98:C:C6	2.48	0.48
85:5:101:G:N3	85:5:101:G:H3'	2.28	0.48
85:5:142:C:H2'	85:5:143:G:O4'	2.12	0.48
75:O9:41:ARG:NH1	85:5:1517:G:OP1	98.13	0.48
85:5:18:G:O6	92:5:3606:OHX:N6	2.46	0.48
85:5:189:G:C6	85:5:206:G:C5	3.02	0.48
85:5:2433:U:C4	85:5:2434:U:C4	3.01	0.48
85:5:2540:A:O2'	85:5:2541:U:H2'	2.13	0.48
85:5:2837:A:C2	85:5:2850:G:C2	3.00	0.48
85:5:3025:C:H2'	85:5:3026:G:O4'	2.13	0.48
85:5:650:C:O5'	85:5:650:C:H6	1.97	0.48
80:6:1138:A:H2'	80:6:1139:A:C8	2.44	0.48
80:6:1720:G:O6	92:6:1948:OHX:N6	2.45	0.48
4:S2:197:TYR:HB3	80:6:2:A:O2'	390.24	0.48
80:6:329:G:C4	80:6:330:G:C8	3.01	0.48
11:S9:173:ALA:N	80:6:512:A:OP2	457.50	0.48
80:6:961:U:H2'	80:6:962:C:H6	1.79	0.48
19:C7:30:THR:HG22	34:SR:127:ARG:NH2	3.03	0.48
1:2:1364:U:H4'	22:D0:59:PRO:HG3	1.94	0.48
39:L2:48:ILE:HA	39:L2:59:ALA:HA	1.94	0.48
40:L3:68:HIS:O	40:L3:69:LYS:HB2	2.21	0.48
41:L4:280:ILE:HD13	54:M8:23:ASN:ND2	2.62	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:67:ILE:HG23	45:L8:237:ILE:HD12	1.94	0.48
46:L9:31:ARG:HB3	46:L9:149:ASN:ND2	2.71	0.48
47:M0:75:TYR:CE1	47:M0:150:GLU:HG3	3.80	0.48
47:M0:78:THR:O	47:M0:79:VAL:C	4.00	0.48
48:M1:30:LEU:O	48:M1:33:ALA:N	2.46	0.48
50:M4:135:LEU:HA	50:M4:135:LEU:HD22	3.59	0.48
50:M4:99:TRP:CE2	85:5:3206:C:C6	310.69	0.48
53:M7:96:GLN:O	53:M7:99:ALA:HB3	2.13	0.48
56:N0:24:LEU:HD22	56:N0:59:VAL:HG21	2.71	0.48
57:N1:51:GLY:O	57:N1:95:HIS:CD2	2.90	0.48
62:N6:36:SER:O	62:N6:40:ARG:N	2.46	0.48
65:N9:46:ALA:O	65:N9:50:THR:HG22	2.12	0.48
74:O8:15:THR:O	74:O8:70:PRO:HG2	2.25	0.48
76:Q0:118:THR:OG1	76:Q0:119:ASN:N	2.45	0.48
78:Q2:68:VAL:O	78:Q2:84:THR:HA	2.13	0.48
3:S1:69:CYS:CB	16:C4:114:ARG:HD3	3.06	0.48
1:2:1081:U:C5	4:S2:224:PHE:HE2	2.31	0.48
6:S4:252:ARG:NH2	6:S4:252:ARG:HB3	4.77	0.48
6:S4:67:GLN:O	6:S4:68:ARG:HB2	2.55	0.48
7:S5:44:ASN:O	7:S5:45:LYS:HG2	2.13	0.48
8:S6:3:LEU:HD11	8:S6:27:PHE:HE2	1.76	0.48
10:S8:63:GLY:O	10:S8:65:PHE:CD2	3.75	0.48
19:C7:29:GLN:HB3	34:SR:85:TRP:CZ3	2.47	0.48
36:1:1117:G:OP1	65:N9:4:SER:HB2	2.12	0.48
36:1:1579:C:N4	36:1:1580:A:H62	2.12	0.48
36:1:1782:U:H2'	36:1:1783:U:O4'	2.13	0.48
36:1:2522:G:H2'	36:1:2522:G:N3	2.29	0.48
36:1:2601:A:H2'	36:1:2602:G:H8	1.77	0.48
36:1:2682:C:OP1	48:M1:48:SER:OG	2.30	0.48
36:1:2973:G:C5'	36:1:2974:U:OP2	2.61	0.48
36:1:3133:C:C2	36:1:3134:A:C8	3.02	0.48
36:1:3006:A:C2	36:1:3141:A:C4	3.02	0.48
36:1:3273:A:C2'	36:1:3274:A:H5'	2.43	0.48
36:1:2705:A:OP2	92:1:3407:OHX:N1	2.47	0.48
92:1:3600:OHX:N1	92:1:3648:OHX:N4	2.61	0.48
36:1:652:G:OP1	92:1:3467:OHX:N4	2.46	0.48
36:1:68:C:N3	36:1:69:C:C5	2.81	0.48
36:1:860:G:P	39:L2:181:LYS:HZ1	2.36	0.48
36:1:987:U:H2'	36:1:988:U:C6	2.48	0.48
1:2:1164:U:H2'	1:2:1165:U:O4'	2.13	0.48
1:2:1392:G:N1	1:2:1395:G:OP2	2.41	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:607:G:H5'	1:2:613:G:N2	2.28	0.48
1:2:912:A:N6	1:2:913:A:N1	2.61	0.48
85:5:69:C:O2'	85:5:101:G:O2'	2.08	0.48
85:5:1251:A:H2'	85:5:1252:A:O4'	2.13	0.48
85:5:1254:C:H2'	85:5:1255:C:C6	2.49	0.48
85:5:163:C:H2'	85:5:164:A:C8	2.49	0.48
85:5:1735:G:O6	92:5:3472:OHX:N5	2.47	0.48
85:5:203:G:O2'	85:5:204:A:H5'	2.13	0.48
85:5:2412:G:H2'	85:5:2413:A:C8	2.48	0.48
85:5:262:U:H2'	85:5:263:C:O4'	2.13	0.48
85:5:3197:G:C2	85:5:3199:G:C5	3.01	0.48
85:5:668:G:N7	85:5:795:G:N2	2.62	0.48
80:6:1039:A:H61	80:6:1079:U:H3	1.61	0.48
80:6:1600:A:H4'	80:6:1601:G:OP1	2.13	0.48
80:6:1672:G:H2'	80:6:1673:G:C8	2.47	0.48
80:6:313:U:C5	80:6:1118:G:N2	2.81	0.48
80:6:620:A:N7	80:6:621:A:N1	2.62	0.48
80:6:639:U:H1'	80:6:640:U:C5	2.48	0.48
80:6:779:U:O2'	80:6:780:A:OP1	2.30	0.48
80:6:909:U:H2'	80:6:910:C:H6	1.78	0.48
80:6:961:U:C2	80:6:962:C:C5	3.01	0.48
13:C1:16:GLN:HB2	13:C1:19:ILE:HG13	3.54	0.48
16:C4:18:ARG:N	16:C4:29:HIS:O	4.80	0.48
17:C5:15:HIS:O	17:C5:21:ASP:HA	2.13	0.48
18:C6:54:LEU:HD12	18:C6:108:ALA:O	2.13	0.48
20:C8:140:THR:O	20:C8:143:ARG:NH1	2.46	0.48
20:C8:18:LEU:O	20:C8:19:ASN:HB2	2.70	0.48
22:D0:22:ILE:HG13	22:D0:117:VAL:O	2.58	0.48
5:S3:15:GLY:HA3	31:D9:50:ILE:HG23	1.95	0.48
39:L2:136:ILE:HA	39:L2:148:VAL:HG12	1.96	0.48
40:L3:56:ILE:HD11	40:L3:356:LEU:HD13	3.63	0.48
41:L4:168:ALA:O	41:L4:172:VAL:HG23	5.62	0.48
45:L8:190:VAL:O	45:L8:190:VAL:HG12	3.61	0.48
47:M0:46:PHE:HB2	47:M0:139:ARG:HG3	1.96	0.48
47:M0:69:ARG:HD2	47:M0:70:ILE:N	2.28	0.48
48:M1:95:ASN:HB3	48:M1:103:GLY:O	2.79	0.48
48:M1:96:PHE:CE1	48:M1:160:VAL:HG23	4.53	0.48
49:M3:131:LYS:H	49:M3:131:LYS:HG2	1.38	0.48
50:M4:128:ARG:O	50:M4:131:VAL:N	3.63	0.48
50:M4:36:VAL:HB	50:M4:45:LEU:HD23	2.03	0.48
50:M4:85:TRP:NE1	50:M4:90:VAL:HB	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:172:ARG:HG2	51:M5:174:ILE:HD13	5.30	0.48
58:N2:15:PHE:CE2	58:N2:71:PHE:CD1	3.14	0.48
59:N3:23:MET:O	59:N3:34:LEU:N	2.69	0.48
59:N3:85:TRP:O	59:N3:92:PHE:HA	2.31	0.48
62:N6:89:LYS:HB2	62:N6:91:ASN:OD1	3.77	0.48
69:O3:89:LEU:HA	69:O3:89:LEU:HD23	1.57	0.48
70:O4:20:ILE:HD13	70:O4:20:ILE:HA	1.54	0.48
74:O8:16:ARG:NH1	74:O8:70:PRO:HG3	4.35	0.48
76:Q0:105:PRO:HD2	76:Q0:106:ARG:H	1.78	0.48
39:L2:177:LYS:HB2	79:Q3:29:LEU:HD13	2.83	0.48
4:S2:242:ILE:HG22	4:S2:243:TYR:CD1	2.65	0.48
5:S3:209:ILE:HD12	5:S3:210:GLU:H	3.14	0.48
6:S4:68:ARG:NH1	6:S4:76:VAL:HG21	2.29	0.48
7:S5:94:THR:HG22	7:S5:114:ILE:CG1	2.39	0.48
8:S6:2:LYS:O	8:S6:108:VAL:HA	2.13	0.48
10:S8:135:LYS:HB2	10:S8:136:SER:H	4.03	0.48
10:S8:39:GLY:H	10:S8:60:ILE:C	2.16	0.48
10:S8:70:GLU:HB3	10:S8:112:TRP:CH2	4.79	0.48
34:SR:177:MET:HG3	34:SR:193:ILE:HG12	1.96	0.48
36:1:2176:U:OP1	39:L2:54:ARG:NH2	2.47	0.48
36:1:2238:G:C2	36:1:2239:G:C8	3.01	0.48
36:1:2369:G:C6	36:1:2370:G:C6	3.01	0.48
36:1:2443:A:O2'	36:1:2444:C:H5'	2.12	0.48
36:1:3170:A:N6	36:1:3280:U:H3	2.12	0.48
36:1:32:U:O5'	36:1:32:U:H6	1.96	0.48
36:1:3306:U:H2'	36:1:3307:A:H5''	1.96	0.48
36:1:3037:U:O4	92:1:3607:OHX:N2	2.46	0.48
92:1:3507:OHX:N6	92:1:3691:OHX:N2	2.61	0.48
36:1:1658:G:O6	92:1:3699:OHX:N3	2.46	0.48
36:1:703:G:C5	36:1:704:U:C5	3.01	0.48
1:2:1452:A:H4'	1:2:1524:G:H4'	1.95	0.48
1:2:240:U:H4'	1:2:241:U:OP2	2.13	0.48
1:2:692:C:N4	1:2:693:U:H1'	2.29	0.48
38:4:2:A:OP2	92:4:202:OHX:N1	2.47	0.48
85:5:1093:A:OP1	85:5:1093:A:H4'	2.13	0.48
85:5:1161:G:C2	85:5:1162:U:C6	3.01	0.48
41:L4:309:ARG:HG2	85:5:1361:U:OP1	213.41	0.48
85:5:1595:U:O2	85:5:1596:C:C6	2.67	0.48
55:M9:60:LYS:HZ3	85:5:1671:C:H5''	170.51	0.48
85:5:1908:A:H2'	85:5:1909:A:O4'	2.14	0.48
85:5:2235:C:C5	85:5:2236:G:N7	2.82	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:397:A:H5''	85:5:398:A:H3'	1.95	0.48
80:6:1151:A:H4'	80:6:1766:A:N7	2.29	0.48
80:6:189:C:N3	80:6:197:A:H2	2.12	0.48
25:D3:10:ASN:HB2	80:6:633:U:OP1	337.30	0.48
80:6:658:C:N4	80:6:673:A:N1	2.61	0.48
80:6:691:C:OP1	80:6:696:C:N4	2.47	0.48
80:6:833:U:P	92:6:2018:OHX:N5	2.87	0.48
80:6:872:G:H2'	80:6:873:U:O4'	2.14	0.48
6:S4:4:GLY:HA3	80:6:93:A:O2'	329.56	0.48
17:C5:36:LEU:N	17:C5:36:LEU:HD13	4.88	0.48
1:2:1466:A:H5'	18:C6:71:GLY:HA2	1.96	0.48
21:C9:64:HIS:CE1	21:C9:68:ARG:NH2	2.95	0.48
22:D0:58:LEU:HB2	22:D0:88:LYS:O	2.13	0.48
23:D1:41:GLU:HB2	23:D1:44:ARG:NH2	5.13	0.48
23:D1:60:ARG:HG2	23:D1:65:SER:CB	3.23	0.48
24:D2:46:TYR:HB3	24:D2:69:LEU:HD22	1.95	0.48
28:D6:84:VAL:C	28:D6:85:ARG:HG2	4.90	0.48
31:D9:24:CYS:O	31:D9:26:SER:N	2.86	0.48
40:L3:158:VAL:HG23	40:L3:188:ILE:HG22	1.95	0.48
40:L3:224:HIS:HB2	40:L3:270:ARG:O	2.14	0.48
40:L3:28:ARG:HH21	40:L3:30:LYS:CE	2.26	0.48
40:L3:59:ASP:OD1	40:L3:357:LYS:HE3	2.12	0.48
42:L5:155:THR:HB	42:L5:179:ARG:HH11	1.76	0.48
42:L5:43:LYS:O	42:L5:46:THR:OG1	3.49	0.48
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.61	0.48
44:L7:160:ARG:HG3	44:L7:203:TRP:CD2	2.48	0.48
46:L9:94:TYR:HB3	46:L9:99:ILE:HG13	2.66	0.48
47:M0:200:LEU:HD13	47:M0:216:TYR:HD1	6.89	0.48
47:M0:101:LYS:O	92:M0:301:OHX:N2	2.47	0.48
53:M7:51:VAL:HA	53:M7:56:ARG:O	2.14	0.48
56:N0:12:ARG:HB3	56:N0:24:LEU:HA	1.95	0.48
52:M6:26:GLN:NE2	56:N0:163:PHE:CE2	3.19	0.48
56:N0:27:MET:HE2	56:N0:29:ILE:HD11	2.62	0.48
56:N0:33:ASN:HD21	56:N0:36:ILE:HG13	1.79	0.48
57:N1:52:MET:HA	57:N1:95:HIS:CD2	2.75	0.48
58:N2:60:GLY:O	58:N2:61:THR:HG23	4.40	0.48
67:O1:41:LYS:HD2	67:O1:47:ASP:HA	1.95	0.48
67:O1:72:ARG:NH1	67:O1:105:GLN:O	2.46	0.48
69:O3:6:ARG:HG3	69:O3:8:TYR:CE1	2.79	0.48
38:4:37:A:OP2	71:O5:86:ARG:HG3	2.13	0.48
76:Q0:110:CYS:SG	76:Q0:115:CYS:SG	3.35	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:Q0:94:SER:HA	76:Q0:123:PRO:HA	2.14	0.48
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.12	0.48
4:S2:230:TRP:NE1	24:D2:68:ARG:HB3	2.29	0.48
2:S0:140:ASN:ND2	4:S2:60:SER:HB2	3.13	0.48
4:S2:72:LEU:HD12	4:S2:72:LEU:O	3.93	0.48
7:S5:158:GLN:HG2	30:D8:66:LEU:HD11	2.28	0.48
11:S9:49:LEU:HD22	11:S9:53:ARG:HD3	4.03	0.48
34:SR:86:ASP:O	34:SR:88:THR:HG23	2.14	0.48
36:1:1299:U:H2'	36:1:1300:G:O4'	2.14	0.48
36:1:1467:A:N6	36:1:1470:U:O2	2.46	0.48
36:1:2270:A:H2'	36:1:2271:A:C8	2.49	0.48
36:1:2765:C:O3'	78:Q2:39:GLY:HA3	2.13	0.48
36:1:3094:A:C6	36:1:3095:U:C4	3.01	0.48
92:1:3537:OHX:N5	92:1:3654:OHX:N1	2.62	0.48
36:1:3288:G:C5	92:1:3668:OHX:N3	2.82	0.48
36:1:539:C:H2'	36:1:540:U:C6	2.48	0.48
36:1:976:U:OP1	54:M8:144:ARG:NH2	2.41	0.48
1:2:1145:C:C2	1:2:1599:G:N2	2.81	0.48
1:2:1335:G:H2'	1:2:1336:U:O4'	2.14	0.48
1:2:1527:U:OP1	20:C8:136:GLN:NE2	2.45	0.48
1:2:162:A:H3'	1:2:163:G:N2	2.28	0.48
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.96	0.48
1:2:215:A:OP1	92:2:1985:OHX:N5	2.47	0.48
1:2:473:A:H2'	1:2:474:A:O4'	2.14	0.48
1:2:477:A:OP1	32:E0:31:LYS:N	2.36	0.48
1:2:848:A:C5	1:2:849:G:N7	2.82	0.48
1:2:93:A:H4'	1:2:94:U:OP2	2.13	0.48
37:3:17:A:C6	37:3:18:C:N4	2.81	0.48
37:3:93:C:O2'	37:3:94:C:H5'	2.13	0.48
85:5:1556:C:H2'	85:5:2169:G:N2	2.29	0.48
85:5:3295:A:H2'	85:5:3296:A:C8	2.48	0.48
85:5:835:G:HO2'	85:5:857:G:H22	1.61	0.48
80:6:1110:G:C6	80:6:1136:U:O2	2.66	0.48
80:6:1294:G:N2	80:6:1322:A:C4	2.81	0.48
80:6:879:G:C2	80:6:950:C:C2	3.02	0.48
80:6:868:G:H1	80:6:960:U:H3	1.61	0.48
38:8:1:A:C2	38:8:2:A:C8	3.02	0.48
12:C0:88:UNK:O	12:C0:90:UNK:N	2.46	0.48
14:C2:70:ASN:HA	14:C2:73:LYS:HG2	4.85	0.48
1:2:850:G:P	15:C3:3:ARG:HH11	2.37	0.48
16:C4:50:ALA:O	16:C4:52:ARG:HG2	4.60	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:86:VAL:O	17:C5:89:MET:HG2	2.13	0.48
21:C9:125:SER:OG	21:C9:126:GLU:OE2	2.30	0.48
1:2:1503:U:OP2	21:C9:75:LYS:HE2	2.13	0.48
22:D0:20:ILE:HD13	22:D0:22:ILE:HD13	1.95	0.48
22:D0:70:THR:HB	22:D0:72:ASN:O	5.05	0.48
40:L3:212:ASN:HD22	40:L3:353:GLU:HG2	2.61	0.48
42:L5:119:TYR:CE1	42:L5:134:ALA:HA	3.05	0.48
43:L6:176:PHE:HA	50:M4:114:ASP:HB2	3.12	0.48
46:L9:90:MET:CE	46:L9:181:VAL:HG22	3.70	0.48
46:L9:68:LEU:O	46:L9:69:ARG:C	2.93	0.48
47:M0:50:VAL:HG22	47:M0:167:LEU:HA	1.96	0.48
49:M3:11:LYS:O	49:M3:13:HIS:ND1	2.71	0.48
49:M3:151:ALA:O	49:M3:153:ASP:N	4.21	0.48
49:M3:59:ARG:HA	49:M3:69:VAL:HG23	2.43	0.48
51:M5:150:TRP:CZ2	51:M5:151:ILE:HG12	2.49	0.48
56:N0:96:ASP:OD1	56:N0:97:VAL:N	2.43	0.48
61:N5:72:ALA:HA	61:N5:75:LYS:HG3	2.47	0.48
62:N6:111:LEU:HD23	62:N6:116:LYS:HG2	5.51	0.48
66:O0:40:LYS:HB3	66:O0:101:LEU:CD1	2.40	0.48
70:O4:58:ARG:CG	70:O4:59:PRO:HD2	3.72	0.48
72:O6:51:SER:OG	72:O6:54:GLU:HB2	3.67	0.48
76:Q0:107:ALA:O	76:Q0:121:LEU:HD12	4.05	0.48
76:Q0:96:CYS:SG	76:Q0:115:CYS:SG	3.02	0.48
2:S0:120:LEU:HD12	2:S0:142:PRO:O	2.13	0.48
5:S3:103:GLU:OE1	5:S3:173:ARG:NE	2.44	0.48
5:S3:34:TYR:HE2	5:S3:37:VAL:HG13	2.05	0.48
6:S4:194:THR:OG1	6:S4:211:LYS:O	2.27	0.48
6:S4:220:THR:HB	6:S4:221:ARG:H	1.53	0.48
8:S6:12:SER:OG	8:S6:124:LEU:HA	3.41	0.48
10:S8:183:ILE:O	10:S8:185:GLU:HG3	5.64	0.48
10:S8:36:THR:HA	10:S8:58:LEU:O	5.37	0.48
11:S9:85:VAL:HG12	11:S9:99:LEU:HD11	1.94	0.48
34:SR:217:ASP:OD1	34:SR:217:ASP:N	2.74	0.48
34:SR:225:LEU:O	34:SR:228:LYS:HG3	2.28	0.48
34:SR:90:ARG:NH2	80:6:1341:A:H4'	455.52	0.48
36:1:1103:A:OP2	36:1:1103:A:H4'	2.14	0.48
36:1:1660:C:H2'	36:1:1661:G:C8	2.49	0.48
36:1:199:A:H4'	36:1:200:C:OP1	2.12	0.48
36:1:2186:U:H2'	36:1:2187:G:O4'	2.14	0.48
36:1:288:C:H2'	36:1:289:A:H8	1.78	0.48
36:1:361:A:H4'	73:O7:45:ARG:HH12	1.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:1:3585:OHX:N5	92:1:3694:OHX:N1	2.62	0.48
92:1:3565:OHX:N2	92:1:3729:OHX:N4	2.61	0.48
1:2:1028:C:C2	1:2:1057:G:C2	3.00	0.48
1:2:1186:A:OP2	92:2:1989:OHX:N5	2.47	0.48
1:2:1358:A:H2'	1:2:1359:C:O4'	2.13	0.48
1:2:1466:A:C2	1:2:1590:G:H1'	2.48	0.48
1:2:1593:G:P	18:C6:75:VAL:HG21	2.53	0.48
1:2:516:G:OP2	92:2:1949:OHX:N6	2.46	0.48
1:2:52:U:H2'	1:2:53:G:H8	1.77	0.48
1:2:734:G:H2'	1:2:735:A:C8	2.49	0.48
1:2:802:G:O6	1:2:836:G:C6	2.67	0.48
37:3:7:G:C2	37:3:115:G:C5	3.02	0.48
85:5:1119:C:H2'	85:5:1120:A:C8	2.48	0.48
85:5:1598:G:H2'	85:5:1599:G:C8	2.47	0.48
85:5:1952:G:H1	85:5:2094:C:H42	1.60	0.48
85:5:2257:C:H2'	85:5:2258:U:H6	1.77	0.48
85:5:2374:C:N4	85:5:2941:A:C4	2.82	0.48
85:5:244:G:H2'	85:5:245:U:H6	1.78	0.48
85:5:2647:A:H2'	85:5:2648:G:O5'	2.13	0.48
64:N8:55:LYS:NZ	85:5:2765:C:OP1	165.98	0.48
85:5:2871:G:C5'	85:5:2872:A:H5'	2.44	0.48
85:5:2999:U:H2'	85:5:3000:A:H8	1.78	0.48
77:Q1:23:ARG:O	92:5:3505:OHX:N2	264.17	0.48
85:5:538:G:C6	85:5:539:C:C4	3.02	0.48
80:6:1111:G:C6	80:6:1112:G:C4	3.02	0.48
80:6:562:G:OP2	92:6:2048:OHX:N1	2.46	0.48
80:6:482:U:H2'	80:6:483:A:C8	2.48	0.48
26:D4:11:LYS:NZ	80:6:775:G:O6	414.06	0.48
80:6:780:A:H3'	80:6:781:U:H5'	1.96	0.48
80:6:845:G:O6	92:6:1920:OHX:N1	2.47	0.48
71:O5:83:LYS:HA	38:8:38:U:H5	66.01	0.48
12:C0:11:ILE:HD11	12:C0:42:VAL:HG22	1.96	0.48
13:C1:13:PHE:HE2	13:C1:15:LYS:HB3	1.77	0.48
16:C4:12:GLN:OE1	16:C4:111:ARG:HG3	2.50	0.48
17:C5:75:PRO:HA	17:C5:93:VAL:HB	1.95	0.48
18:C6:40:GLU:HB2	18:C6:45:ARG:HH21	1.78	0.48
20:C8:99:HIS:O	20:C8:101:LEU:HG	2.13	0.48
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.62	0.48
21:C9:28:LEU:HD13	21:C9:30:VAL:HG22	1.96	0.48
24:D2:22:LYS:O	24:D2:23:ARG:HD3	2.13	0.48
29:D7:19:HIS:NE2	29:D7:21:LEU:HD12	4.75	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:2:GLY:HA2	39:L2:207:VAL:HG23	2.49	0.48
40:L3:142:ALA:O	40:L3:143:GLY:C	2.79	0.48
40:L3:37:ARG:HG2	40:L3:187:SER:N	2.19	0.48
41:L4:146:PRO:O	92:L4:401:OHX:N3	2.47	0.48
43:L6:145:LEU:O	43:L6:148:GLU:N	2.42	0.48
44:L7:229:PHE:HD1	44:L7:229:PHE:C	2.94	0.48
45:L8:159:PRO:HB2	45:L8:161:GLU:OE2	3.97	0.48
45:L8:82:LEU:HD22	45:L8:178:ALA:HB1	1.96	0.48
46:L9:171:ASP:C	46:L9:173:ARG:H	2.94	0.48
47:M0:145:LYS:C	47:M0:147:VAL:H	2.38	0.48
47:M0:51:HIS:NE2	47:M0:168:SER:HB3	3.43	0.48
48:M1:133:ARG:HB2	48:M1:152:HIS:NE2	2.29	0.48
49:M3:93:ILE:HD12	49:M3:93:ILE:HG23	1.42	0.48
50:M4:108:ARG:NH2	52:M6:197:LEU:HA	2.29	0.48
50:M4:108:ARG:O	50:M4:109:ARG:C	2.53	0.48
50:M4:118:PHE:O	50:M4:121:MET:HB3	2.41	0.48
50:M4:55:ARG:HD3	56:N0:70:THR:HB	1.95	0.48
55:M9:68:GLN:O	55:M9:72:GLU:HG3	3.27	0.48
56:N0:90:MET:HE2	56:N0:114:HIS:CE1	2.48	0.48
38:4:137:C:P	61:N5:42:ARG:HH12	2.37	0.48
63:N7:85:TYR:HE2	63:N7:129:TRP:CE2	4.29	0.48
63:N7:83:THR:HG23	63:N7:85:TYR:H	2.15	0.48
69:O3:52:VAL:HG21	69:O3:99:ARG:NH1	2.97	0.48
70:O4:41:ARG:O	70:O4:43:LYS:HE3	4.87	0.48
70:O4:4:ARG:HD2	85:5:1485:G:N2	151.22	0.48
73:O7:49:TRP:O	73:O7:49:TRP:HE3	3.43	0.48
85:5:2819:A:O2'	98:P:101:8AN:N1	221.51	0.48
79:Q3:14:TYR:HB3	79:Q3:18:TYR:HE1	1.79	0.48
7:S5:113:ILE:HG23	7:S5:191:ALA:HB2	1.94	0.48
7:S5:184:PHE:CE1	7:S5:185:ARG:HG3	2.59	0.48
9:S7:39:ARG:H	9:S7:40:PRO:HD2	1.78	0.48
36:1:1063:G:O2'	36:1:1097:G:N2	2.47	0.48
36:1:1722:U:H2'	36:1:1723:A:O4'	2.14	0.48
36:1:41:G:H4'	36:1:2410:U:H2'	1.96	0.48
36:1:2898:G:H5''	36:1:2899:C:H5'	1.94	0.48
36:1:342:A:N1	36:1:349:A:O2'	2.30	0.48
36:1:271:C:OP2	92:1:3563:OHX:N5	2.46	0.48
1:2:1182:G:H1	31:D9:31:ILE:HG12	1.78	0.48
1:2:1611:U:H2'	1:2:1612:G:H8	1.77	0.48
1:2:1619:C:H4'	1:2:1620:C:H3'	1.95	0.48
1:2:181:A:H2'	1:2:182:A:O4'	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:992:U:H2'	1:2:993:C:C6	2.48	0.48
37:3:110:G:C6	37:3:111:U:C4	3.01	0.48
38:4:91:C:H2'	38:4:92:A:C8	2.49	0.48
85:5:1013:G:H2'	85:5:1014:U:O4'	2.14	0.48
85:5:1125:U:H3	85:5:1133:A:H2	1.60	0.48
85:5:2660:G:H2'	85:5:2661:G:C8	2.48	0.48
85:5:3041:U:H2'	85:5:3042:U:C6	2.49	0.48
85:5:538:G:C5	85:5:539:C:C5	3.02	0.48
85:5:5:G:C6	38:8:155:A:N1	2.81	0.48
85:5:907:G:OP1	85:5:909:G:O2'	2.28	0.48
80:6:1255:G:O2'	80:6:1256:A:O5'	2.32	0.48
80:6:168:A:C6	80:6:169:A:N6	2.82	0.48
80:6:761:G:N2	80:6:762:A:N6	2.61	0.48
80:6:745:U:C2	80:6:807:A:C2	3.02	0.48
37:7:52:G:C4	37:7:53:U:C5	3.02	0.48
17:C5:22:LEU:HD21	17:C5:109:PRO:HB3	1.95	0.48
19:C7:30:THR:HG22	34:SR:127:ARG:HH22	2.34	0.48
20:C8:117:LYS:HE2	20:C8:128:PHE:HB2	2.58	0.48
20:C8:33:THR:HA	20:C8:38:VAL:HG23	5.51	0.48
20:C8:57:ARG:N	20:C8:60:GLU:OE1	2.33	0.48
22:D0:69:LYS:O	31:D9:44:ARG:NH2	2.74	0.48
23:D1:60:ARG:HG2	23:D1:65:SER:OG	2.95	0.48
23:D1:69:LEU:HD23	23:D1:69:LEU:HA	2.03	0.48
25:D3:141:GLU:OE1	25:D3:144:ARG:NH1	14.06	0.48
1:2:1611:U:OP1	28:D6:88:SER:HA	2.14	0.48
40:L3:336:VAL:HG12	40:L3:337:THR:N	2.27	0.48
41:L4:334:PHE:HA	41:L4:339:LEU:HG	1.95	0.48
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.47	0.48
43:L6:52:VAL:HG13	43:L6:65:ILE:HG23	4.66	0.48
44:L7:173:LEU:O	44:L7:178:ILE:HB	2.51	0.48
49:M3:92:THR:O	49:M3:93:ILE:HD13	2.13	0.48
52:M6:89:SER:O	52:M6:91:LYS:N	2.64	0.48
53:M7:57:ALA:HB2	53:M7:83:TRP:NE1	3.22	0.48
36:1:3205:G:C5	56:N0:171:PHE:CZ	3.01	0.48
56:N0:52:LYS:O	56:N0:53:LYS:C	2.52	0.48
57:N1:38:ASP:N	57:N1:38:ASP:OD1	2.41	0.48
58:N2:42:LYS:HB2	85:5:1687:U:C5	174.66	0.48
62:N6:100:HIS:O	62:N6:103:LYS:N	2.37	0.48
62:N6:5:SER:C	62:N6:7:ASP:H	2.97	0.48
66:O0:73:GLY:H	66:O0:76:GLU:HG3	1.79	0.48
66:O0:76:GLU:O	66:O0:79:THR:HB	3.68	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.96	0.48
67:O1:64:VAL:HG22	85:5:1456:A:C6	163.80	0.48
70:O4:58:ARG:O	70:O4:61:GLN:N	2.45	0.48
72:O6:95:ALA:O	72:O6:99:ARG:HB2	2.13	0.48
78:Q2:37:ALA:O	78:Q2:40:LYS:N	2.42	0.48
3:S1:137:ILE:HG12	3:S1:172:LEU:HD13	3.84	0.48
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.78	0.48
3:S1:66:VAL:HA	16:C4:34:SER:HA	1.95	0.48
4:S2:99:LYS:HB2	4:S2:117:THR:HB	2.59	0.48
10:S8:34:ALA:HB2	10:S8:56:ARG:HD3	1.99	0.48
10:S8:98:LYS:HB3	80:6:329:G:H5'	273.71	0.48
34:SR:95:ALA:O	34:SR:97:GLY:N	4.87	0.48
36:1:1020:G:H5'	36:1:1021:G:OP2	2.14	0.48
36:1:1439:U:H2'	36:1:1440:G:C8	2.49	0.48
36:1:1665:C:H6	36:1:1665:C:O5'	1.97	0.48
36:1:1685:C:C2	36:1:1686:U:C6	3.02	0.48
36:1:1689:U:H2'	36:1:1690:C:C6	2.48	0.48
36:1:1743:G:N3	36:1:1744:G:C8	2.82	0.48
36:1:2181:C:H2'	36:1:2182:A:O4'	2.14	0.48
36:1:2419:A:H2'	36:1:2420:C:C6	2.48	0.48
36:1:2957:G:OP2	92:1:3414:OHX:N1	2.47	0.48
36:1:3043:C:H2'	36:1:3044:G:O4'	2.13	0.48
36:1:3226:A:C2	36:1:3260:G:N1	2.82	0.48
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.39	0.48
1:2:1365:A:H1'	22:D0:57:ARG:HG2	1.96	0.48
1:2:1466:A:H2'	1:2:1467:G:C8	2.48	0.48
1:2:1776:G:H1'	1:2:1777:A:H2'	1.96	0.48
1:2:472:U:P	11:S9:10:LYS:HA	2.53	0.48
1:2:674:C:H2'	1:2:675:C:C6	2.49	0.48
1:2:694:U:H1'	1:2:695:G:H5'	1.96	0.48
1:2:690:A:N6	1:2:713:G:H22	2.12	0.48
1:2:964:U:O2'	1:2:965:U:H5'	2.14	0.48
37:3:14:U:H5'	42:L5:24:ARG:NH1	2.28	0.48
65:N9:27:TYR:HA	85:5:1065:A:N1	209.88	0.48
39:L2:187:HIS:NE2	85:5:1794:G:C6	198.50	0.48
85:5:2707:C:H2'	85:5:2708:C:H6	1.79	0.48
85:5:30:G:N2	85:5:55:G:C4	2.82	0.48
85:5:3199:G:O2'	85:5:3200:G:H5'	2.14	0.48
44:L7:217:PRO:O	92:5:3506:OHX:N6	258.98	0.48
85:5:939:U:C4	85:5:940:G:N7	2.82	0.48
85:5:985:U:H2'	85:5:986:U:C6	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:986:U:OP2	92:5:3646:OHX:N2	2.47	0.48
80:6:1274:C:H4'	80:6:1275:A:O5'	2.13	0.48
80:6:1395:G:N1	80:6:1396:U:C2	2.82	0.48
28:D6:79:ILE:HD11	80:6:1795:U:C5'	334.82	0.48
80:6:477:A:C4	80:6:538:A:N6	2.82	0.48
11:S9:146:PHE:HZ	80:6:765:G:C2	429.15	0.48
80:6:978:A:H2'	80:6:979:A:O4'	2.13	0.48
17:C5:16:SER:HA	17:C5:20:VAL:O	2.14	0.48
17:C5:65:LEU:C	17:C5:67:ALA:H	2.16	0.48
20:C8:100:THR:HG21	20:C8:108:LYS:HG2	1.96	0.48
21:C9:31:PRO:HB3	21:C9:103:LYS:HD3	2.03	0.48
24:D2:105:THR:HG23	24:D2:126:LEU:HD11	1.95	0.48
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.40	0.48
27:D5:102:THR:HG22	27:D5:103:ARG:H	4.03	0.48
27:D5:61:SER:HA	27:D5:80:LEU:HD11	1.96	0.48
36:1:2163:C:H4'	39:L2:7:ASN:O	2.13	0.48
41:L4:107:ARG:HG2	41:L4:108:LYS:N	2.46	0.48
41:L4:180:LYS:HB3	41:L4:180:LYS:HE2	3.70	0.48
41:L4:182:LEU:O	41:L4:184:SER:N	2.47	0.48
46:L9:141:LYS:HE2	46:L9:142:ASP:OD1	2.13	0.48
47:M0:85:PHE:CA	47:M0:140:THR:HG22	2.68	0.48
47:M0:49:CYS:HB3	47:M0:168:SER:HG	3.21	0.48
50:M4:94:TRP:CZ2	50:M4:100:ALA:HB2	2.49	0.48
50:M4:17:VAL:HG11	50:M4:74:ARG:HA	2.09	0.48
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	1.95	0.48
52:M6:127:LEU:HD21	56:N0:168:PRO:HB2	2.79	0.48
52:M6:142:SER:O	52:M6:145:VAL:HG22	2.84	0.48
52:M6:67:THR:HG23	52:M6:67:THR:O	2.82	0.48
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.21	0.48
55:M9:98:ARG:NH1	55:M9:130:ASN:OD1	5.66	0.48
56:N0:36:ILE:O	56:N0:40:ARG:HG2	2.78	0.48
56:N0:42:TRP:CD1	56:N0:53:LYS:HB2	2.48	0.48
57:N1:34:TYR:CE1	57:N1:98:HIS:CE1	4.18	0.48
58:N2:15:PHE:O	58:N2:65:VAL:N	2.77	0.48
62:N6:57:LEU:O	62:N6:105:VAL:HG12	2.18	0.48
67:O1:88:PRO:HG2	67:O1:89:LEU:CD1	2.44	0.48
71:O5:102:GLU:HG3	71:O5:106:LYS:HE3	4.31	0.48
78:Q2:12:CYS:SG	78:Q2:17:CYS:HB3	2.73	0.48
2:S0:69:ASN:HB3	2:S0:71:GLU:OE1	2.14	0.48
3:S1:184:LEU:O	3:S1:188:LEU:HG	2.48	0.48
6:S4:248:ILE:CA	6:S4:251:GLU:HB2	3.90	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:7:TYR:HE1	8:S6:125:THR:HA	3.23	0.48
10:S8:4:SER:HB3	10:S8:6:ASP:OD2	4.52	0.48
36:1:1014:U:H2'	36:1:1015:U:H5''	1.96	0.48
36:1:1125:U:H5''	47:M0:15:LYS:NZ	2.28	0.48
36:1:1489:A:N1	36:1:1854:C:N4	2.62	0.48
36:1:1940:G:H2'	36:1:1941:C:O4'	2.14	0.48
36:1:2746:A:H2'	36:1:2747:A:O4'	2.14	0.48
36:1:2945:G:O2'	36:1:2948:C:OP2	2.32	0.48
36:1:2999:U:O2'	36:1:3296:A:H5'	2.13	0.48
36:1:3313:U:H4'	40:L3:173:GLN:OE1	2.14	0.48
36:1:437:G:O2'	36:1:438:A:H5'	2.13	0.48
36:1:571:U:O2'	36:1:572:A:H5'	2.14	0.48
1:2:955:G:O2'	36:1:847:A:N1	2.39	0.48
1:2:186:C:H42	1:2:199:G:H1	1.61	0.48
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.47	0.48
1:2:454:U:H2'	1:2:455:C:C5	2.49	0.48
85:5:1764:U:C4	85:5:1765:U:C6	3.02	0.48
85:5:2400:G:H5'	85:5:2401:A:OP2	2.14	0.48
85:5:2651:G:N3	85:5:2796:G:C6	2.82	0.48
85:5:353:G:O2'	85:5:354:U:P	2.72	0.48
92:5:3555:OHX:N4	92:5:3740:OHX:N6	2.62	0.48
85:5:572:A:C5	85:5:573:C:C5	3.02	0.48
85:5:703:G:C6	85:5:704:U:C4	3.02	0.48
85:5:812:G:C5	85:5:813:G:C8	3.02	0.48
14:C2:73:LYS:HZ2	33:E1:108:VAL:HB	1.77	0.48
17:C5:80:MET:SD	17:C5:83:MET:HE2	2.53	0.48
18:C6:30:LYS:HD3	80:6:1366:U:OP1	423.63	0.48
19:C7:84:TYR:O	19:C7:85:VAL:HG13	2.13	0.48
21:C9:86:ARG:HG3	21:C9:90:PRO:O	3.27	0.48
25:D3:111:GLY:O	25:D3:121:ARG:NH1	8.57	0.48
26:D4:124:ARG:HA	26:D4:127:LYS:HG2	1.96	0.48
26:D4:64:PHE:HA	80:6:531:C:O3'	423.87	0.48
26:D4:8:ARG:CZ	26:D4:28:LEU:HD11	3.17	0.48
39:L2:230:VAL:O	39:L2:233:GLN:HB2	2.14	0.48
39:L2:36:GLU:HG2	39:L2:90:ALA:O	2.14	0.48
40:L3:113:GLU:HB3	40:L3:176:ALA:HB2	1.95	0.48
40:L3:315:GLY:HA2	85:5:3379:C:H4'	213.29	0.48
36:1:1079:A:H4'	42:L5:141:PRO:O	2.14	0.48
43:L6:76:LEU:HD13	43:L6:101:PHE:HE1	3.13	0.48
45:L8:132:VAL:HG23	45:L8:199:ALA:O	2.13	0.48
46:L9:180:TYR:CD2	46:L9:180:TYR:N	2.82	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:188:GLY:O	47:M0:190:VAL:N	2.47	0.48
51:M5:114:ARG:HG2	51:M5:137:PRO:HG3	2.31	0.48
51:M5:89:VAL:C	51:M5:92:LEU:HD13	3.39	0.48
52:M6:106:GLU:H	52:M6:106:GLU:HG2	1.90	0.48
36:1:1949:G:OP2	55:M9:135:LYS:HE2	2.14	0.48
56:N0:45:LEU:HD12	56:N0:51:VAL:HG21	1.94	0.48
59:N3:89:ASP:OD1	59:N3:91:VAL:HG12	4.55	0.48
63:N7:46:ILE:HG12	63:N7:49:TYR:CZ	3.65	0.48
64:N8:56:VAL:HG22	64:N8:57:GLY:H	1.77	0.48
64:N8:77:LYS:O	64:N8:79:TRP:N	2.69	0.48
66:O0:27:TYR:HD1	66:O0:52:ARG:HD3	1.75	0.48
69:O3:73:ARG:HG3	69:O3:82:ARG:HG3	1.96	0.48
71:O5:77:PRO:O	71:O5:81:ARG:HD3	4.46	0.48
72:O6:74:LYS:HD3	72:O6:80:PHE:HD2	3.61	0.48
75:O9:24:PRO:HD2	75:O9:27:ILE:HD12	2.47	0.48
2:S0:110:TYR:HE2	4:S2:64:LYS:HB3	1.79	0.48
2:S0:134:LYS:HG2	2:S0:138:TYR:HE2	1.78	0.48
3:S1:28:GLU:O	3:S1:29:TRP:CD1	4.46	0.48
5:S3:99:VAL:HG13	5:S3:173:ARG:NH2	2.83	0.48
7:S5:144:GLU:HG3	7:S5:221:ALA:HB3	2.86	0.48
9:S7:104:ARG:O	9:S7:107:ARG:NH2	10.96	0.48
9:S7:105:THR:O	9:S7:107:ARG:N	4.35	0.48
9:S7:39:ARG:HG3	9:S7:40:PRO:HD3	1.96	0.48
10:S8:107:THR:HG22	85:5:3354:U:H5	241.45	0.48
11:S9:151:ASP:O	11:S9:154:LYS:NZ	3.69	0.48
36:1:1029:G:H2'	36:1:1030:A:C8	2.49	0.47
36:1:1134:G:C2	36:1:1135:A:N7	2.82	0.47
36:1:1144:U:OP1	36:1:1367:G:O2'	2.29	0.47
36:1:1438:U:C2	36:1:1439:U:C5	3.01	0.47
36:1:1481:A:H2'	36:1:1481:A:N3	2.29	0.47
36:1:1674:G:OP2	92:1:3484:OHX:N2	2.46	0.47
36:1:1838:G:H4'	36:1:1839:A:N3	2.29	0.47
36:1:1841:A:C2	36:1:1848:G:C5	3.01	0.47
36:1:201:A:H2'	36:1:202:G:C8	2.49	0.47
36:1:1895:A:C6	36:1:2335:G:C8	3.01	0.47
36:1:2438:A:H2'	36:1:2439:A:C8	2.49	0.47
36:1:161:G:C2	36:1:261:U:O2	2.67	0.47
36:1:3105:U:C2	36:1:3129:A:C6	3.02	0.47
92:1:3585:OHX:N5	92:1:3694:OHX:N3	2.62	0.47
36:1:613:G:C6	36:1:614:C:C4	3.02	0.47
36:1:645:A:H1'	36:1:647:A:OP2	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:75:G:OP1	49:M3:58:VAL:HG22	2.14	0.47
1:2:1102:G:H1	1:2:1111:C:H42	1.62	0.47
1:2:1385:G:H2'	1:2:1386:C:C6	2.49	0.47
1:2:1470:A:H2'	1:2:1471:G:C8	2.46	0.47
37:3:113:C:H2'	37:3:114:U:O4'	2.14	0.47
37:3:16:U:C2'	37:3:17:A:H5'	2.44	0.47
37:3:6:C:O3'	42:L5:50:ARG:NH2	2.44	0.47
85:5:1008:U:C2	85:5:1043:C:C2	3.02	0.47
85:5:1440:G:C4	85:5:1441:G:C8	3.02	0.47
85:5:1632:A:H2'	85:5:1633:C:C6	2.49	0.47
85:5:2523:A:O2'	85:5:2587:U:H1'	2.14	0.47
85:5:159:A:C2	85:5:263:C:O2	2.67	0.47
85:5:2716:U:O4	85:5:2752:U:N3	2.47	0.47
85:5:2762:A:H1'	85:5:2800:G:O6	2.14	0.47
85:5:3096:C:H2'	85:5:3097:C:H6	1.79	0.47
85:5:3191:G:C6	85:5:3192:U:N3	2.82	0.47
85:5:2700:G:N7	92:5:3435:OHX:N3	2.62	0.47
85:5:502:U:C4	85:5:503:C:C5	3.02	0.47
85:5:636:C:O2	85:5:2377:G:O2'	2.30	0.47
85:5:686:G:H2'	85:5:687:U:O4'	2.14	0.47
85:5:759:U:O4	85:5:760:G:C6	2.67	0.47
80:6:1312:A:OP1	80:6:1312:A:H8	1.97	0.47
80:6:1442:U:C4	80:6:1443:U:C4	3.02	0.47
80:6:168:A:C6	80:6:169:A:C6	3.01	0.47
80:6:189:C:O5'	80:6:189:C:H6	1.97	0.47
80:6:213:A:C2	80:6:253:A:C2	3.02	0.47
80:6:234:G:H2'	80:6:235:G:O4'	2.14	0.47
80:6:45:U:O2	80:6:434:G:H1'	2.14	0.47
80:6:860:U:H2'	80:6:861:U:O4'	2.14	0.47
21:C9:14:PHE:HD2	21:C9:15:ILE:HG13	1.79	0.47
26:D4:37:LYS:O	26:D4:40:LEU:N	2.47	0.47
26:D4:57:VAL:HG22	26:D4:72:PHE:O	2.13	0.47
30:D8:38:ARG:NH1	30:D8:60:GLU:OE2	2.30	0.47
33:E1:127:GLY:O	33:E1:129:GLY:N	2.48	0.47
39:L2:242:ARG:HH12	39:L2:246:LEU:HD12	6.72	0.47
40:L3:335:ILE:HG13	40:L3:335:ILE:O	2.15	0.47
40:L3:361:THR:HG22	40:L3:371:GLN:HB3	1.95	0.47
44:L7:211:SER:N	44:L7:242:SER:HB2	2.15	0.47
46:L9:105:GLU:O	46:L9:105:GLU:HG3	4.21	0.47
51:M5:18:VAL:HG13	51:M5:19:LEU:H	1.79	0.47
51:M5:56:LYS:O	51:M5:57:GLN:C	2.52	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:166:GLU:O	52:M6:169:ALA:N	2.47	0.47
52:M6:12:LYS:HD3	52:M6:37:ARG:NH2	2.30	0.47
55:M9:32:ILE:C	55:M9:34:GLN:N	3.18	0.47
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.55	0.47
63:N7:66:THR:O	63:N7:68:ILE:HG13	2.66	0.47
66:O0:43:ILE:HD11	66:O0:92:ILE:HD11	2.51	0.47
68:O2:100:ILE:HG22	68:O2:105:ARG:HG2	3.39	0.47
51:M5:15:GLN:HB3	72:O6:52:PRO:HD2	1.96	0.47
74:O8:11:PHE:CZ	74:O8:43:PHE:HB3	2.49	0.47
2:S0:30:GLN:HB3	2:S0:149:LEU:O	4.92	0.47
2:S0:81:PHE:HB3	2:S0:170:ILE:HD12	3.71	0.47
3:S1:101:HIS:C	3:S1:217:LEU:HD13	2.34	0.47
4:S2:53:ILE:HG23	4:S2:56:ILE:HD12	1.96	0.47
5:S3:62:ASN:O	5:S3:62:ASN:ND2	4.47	0.47
6:S4:246:LEU:HB2	6:S4:251:GLU:CG	2.44	0.47
6:S4:71:LYS:HG3	6:S4:91:THR:HB	1.95	0.47
8:S6:77:LEU:HA	8:S6:77:LEU:HD23	2.20	0.47
10:S8:105:ASP:O	10:S8:106:ALA:HB3	2.13	0.47
1:2:392:G:OP2	10:S8:24:LYS:HD2	2.14	0.47
11:S9:45:ILE:HG21	11:S9:105:LEU:HD12	1.95	0.47
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.98	0.47
36:1:1617:G:O2'	36:1:1618:G:H5'	2.13	0.47
36:1:2398:A:O5'	36:1:2398:A:H8	1.97	0.47
36:1:2893:C:H2'	36:1:2894:C:O4'	2.14	0.47
36:1:3001:C:H2'	36:1:3002:C:H6	1.79	0.47
36:1:3279:A:C6	69:O3:54:ARG:NE	2.82	0.47
36:1:824:C:H2'	36:1:825:U:C6	2.41	0.47
1:2:1295:A:C2	1:2:1397:U:C5	3.02	0.47
1:2:1612:G:C5	1:2:1613:U:C4	3.01	0.47
1:2:975:A:O2'	1:2:1768:U:O2	2.32	0.47
1:2:196:G:O2'	1:2:197:A:OP2	2.30	0.47
1:2:494:U:O2'	1:2:495:C:O5'	2.30	0.47
1:2:616:G:N2	1:2:622:A:C8	2.82	0.47
1:2:823:U:O2'	1:2:824:U:H5''	2.14	0.47
37:3:93:C:H2'	37:3:94:C:H6	1.78	0.47
36:1:18:G:N2	38:4:142:C:C2	2.82	0.47
85:5:1811:G:C6	85:5:1812:G:N7	2.82	0.47
85:5:2897:A:H2'	85:5:2899:C:H5''	1.95	0.47
85:5:2956:A:H62	85:5:2977:G:N2	2.11	0.47
85:5:3323:A:N6	85:5:3324:C:C4	2.82	0.47
85:5:400:G:H4'	85:5:401:U:O5'	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1208:A:N1	80:6:1455:G:N2	2.62	0.47
92:6:1914:OHX:N2	92:6:1998:OHX:N4	2.62	0.47
80:6:210:A:H2'	80:6:211:U:C6	2.50	0.47
80:6:281:G:C6	80:6:282:C:C4	3.01	0.47
80:6:58:U:O2'	80:6:451:A:N3	2.43	0.47
80:6:555:A:H2'	80:6:556:A:C8	2.49	0.47
80:6:813:U:O2	80:6:813:U:H2'	2.14	0.47
80:6:219:A:N6	80:6:843:U:C2	2.82	0.47
37:7:59:U:OP2	92:7:202:OHX:N6	2.47	0.47
25:D3:3:LYS:O	25:D3:5:LYS:N	3.26	0.47
1:2:763:A:C8	26:D4:8:ARG:HB3	2.49	0.47
30:D8:42:ARG:NH2	30:D8:56:LEU:HB3	4.60	0.47
39:L2:173:GLY:O	79:Q3:69:TYR:HE2	1.97	0.47
36:1:2941:A:N7	40:L3:255:TRP:CE2	2.83	0.47
40:L3:4:ARG:HD3	40:L3:7:GLU:HA	1.95	0.47
42:L5:110:LEU:HD13	42:L5:171:LEU:HD23	3.07	0.47
47:M0:58:GLU:OE1	47:M0:160:PRO:O	2.32	0.47
48:M1:7:ASN:OD1	48:M1:10:ARG:HD2	2.14	0.47
52:M6:148:LYS:HB2	52:M6:149:TYR:CE2	2.49	0.47
50:M4:105:GLN:NE2	52:M6:198:GLY:O	3.48	0.47
54:M8:176:ARG:HG2	54:M8:177:GLY:N	3.03	0.47
55:M9:115:ILE:HD11	55:M9:120:TYR:HB2	4.02	0.47
59:N3:101:VAL:HG23	59:N3:101:VAL:O	2.39	0.47
61:N5:137:ASN:HB3	61:N5:142:ILE:HG12	1.95	0.47
64:N8:90:TYR:HA	64:N8:93:SER:HB3	3.42	0.47
69:O3:51:TYR:HB2	69:O3:98:VAL:HG23	2.90	0.47
70:O4:39:ALA:HB2	70:O4:58:ARG:HD3	1.97	0.47
70:O4:5:VAL:CG2	70:O4:32:ALA:HB2	2.44	0.47
71:O5:118:ILE:O	71:O5:119:LYS:HB2	2.22	0.47
72:O6:15:LYS:HD2	72:O6:15:LYS:HA	2.41	0.47
2:S0:115:PHE:CE1	4:S2:39:THR:HG22	3.34	0.47
3:S1:89:ASP:HB3	3:S1:223:PHE:CE2	2.49	0.47
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.49	0.47
6:S4:187:ARG:HH11	6:S4:245:LYS:HZ2	1.61	0.47
6:S4:42:LEU:HD23	6:S4:46:VAL:HB	1.96	0.47
8:S6:2:LYS:HB3	8:S6:108:VAL:HG22	1.95	0.47
9:S7:46:ILE:HG23	9:S7:59:ALA:C	4.82	0.47
10:S8:48:THR:OG1	10:S8:52:ASN:HB2	4.39	0.47
11:S9:159:ALA:O	11:S9:165:GLY:HA3	2.59	0.47
36:1:1350:A:O2'	36:1:1351:U:H5'	2.14	0.47
36:1:1509:A:H8	36:1:1509:A:O5'	1.98	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1569:U:H5'	36:1:1570:U:O5'	2.14	0.47
36:1:1729:A:N6	79:Q3:42:CYS:HA	2.30	0.47
36:1:1757:A:H2'	36:1:1758:G:H8	1.79	0.47
36:1:1778:G:C2	36:1:1780:G:N7	2.83	0.47
36:1:2180:G:H2'	36:1:2181:C:C6	2.49	0.47
36:1:249:U:H1'	36:1:250:U:C2	2.49	0.47
36:1:2594:C:H6	36:1:2594:C:O5'	1.97	0.47
36:1:3314:A:N1	36:1:3315:G:C6	2.82	0.47
97:1:3403:SPS:C8	98:P:101:8AN:C5'	2.70	0.47
36:1:35:A:O2'	36:1:36:C:H5'	2.15	0.47
36:1:993:G:C5	36:1:2637:A:C2	3.02	0.47
1:2:1042:U:O2'	1:2:1043:U:N3	2.47	0.47
1:2:1248:G:N2	1:2:1249:U:H1'	2.28	0.47
1:2:1374:A:H2'	1:2:1375:U:H6	1.79	0.47
1:2:145:A:O2'	1:2:146:U:O5'	2.25	0.47
1:2:1487:G:C6	1:2:1488:A:C6	3.02	0.47
1:2:1130:A:O2'	1:2:1618:A:H2'	2.14	0.47
1:2:201:G:C2	1:2:202:A:C4	3.02	0.47
85:5:1011:A:C2	85:5:1040:A:C2	3.02	0.47
85:5:1103:A:H3'	85:5:1104:G:C5'	2.44	0.47
85:5:189:G:C6	85:5:206:G:C6	3.02	0.47
85:5:204:A:C6	85:5:205:C:C4	3.01	0.47
85:5:2404:A:C2	95:5:3401:PHE:CZ	3.02	0.47
45:L8:241:LYS:HB2	85:5:2586:G:C5	184.21	0.47
85:5:2674:A:C2	85:5:2675:C:C2	3.02	0.47
85:5:3331:U:H2'	85:5:3332:U:C6	2.49	0.47
85:5:359:U:C2	85:5:920:A:C6	3.02	0.47
85:5:425:G:C2	85:5:426:G:C8	3.02	0.47
80:6:1176:G:C6	80:6:1464:G:C6	3.02	0.47
26:D4:124:ARG:NH2	80:6:151:G:O6	318.58	0.47
80:6:1673:G:H2'	80:6:1674:C:H6	1.79	0.47
80:6:702:G:N7	92:6:1953:OHX:N4	2.62	0.47
80:6:196:G:O2'	80:6:197:A:O4'	2.32	0.47
80:6:273:G:H2'	80:6:274:G:O4'	2.13	0.47
80:6:319:U:H1'	80:6:323:A:C4	2.49	0.47
80:6:66:U:H1'	80:6:67:A:OP1	2.13	0.47
29:D7:50:ALA:C	29:D7:52:THR:H	2.18	0.47
29:D7:73:LEU:HD12	29:D7:73:LEU:H	2.06	0.47
30:D8:17:GLY:N	30:D8:27:GLN:HE21	6.71	0.47
31:D9:39:CYS:O	31:D9:43:PHE:N	2.58	0.47
33:E1:108:VAL:HG22	33:E1:114:VAL:HG22	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:129:ALA:O	39:L2:131:GLY:N	2.48	0.47
42:L5:110:LEU:O	42:L5:116:ASP:HB3	4.27	0.47
42:L5:196:ARG:O	42:L5:197:SER:C	2.94	0.47
44:L7:92:ILE:HD12	44:L7:92:ILE:HA	1.58	0.47
46:L9:101:VAL:HG12	46:L9:136:PHE:CE1	2.50	0.47
46:L9:105:GLU:OE2	46:L9:108:GLY:HA2	2.13	0.47
46:L9:65:VAL:O	46:L9:66:ALA:C	2.53	0.47
48:M1:155:THR:O	48:M1:159:THR:HG23	5.23	0.47
49:M3:107:GLU:H	49:M3:107:GLU:HG2	1.38	0.47
58:N2:82:LYS:O	58:N2:85:LYS:N	2.86	0.47
62:N6:60:ARG:HG3	62:N6:103:LYS:HD2	1.96	0.47
64:N8:116:GLY:O	64:N8:117:ARG:HB2	2.14	0.47
64:N8:119:PRO:O	64:N8:121:VAL:N	2.44	0.47
68:O2:31:ASN:N	68:O2:31:ASN:OD1	2.60	0.47
78:Q2:5:PRO:HB2	78:Q2:7:THR:O	2.14	0.47
2:S0:20:ALA:O	2:S0:21:ASN:HB2	2.14	0.47
3:S1:120:LEU:HD21	3:S1:140:ILE:HD11	2.62	0.47
3:S1:72:ASP:OD2	28:D6:59:TYR:OH	2.45	0.47
4:S2:164:SER:OG	4:S2:165:VAL:N	3.42	0.47
2:S0:115:PHE:HE1	4:S2:39:THR:HG22	2.81	0.47
6:S4:210:ILE:HG21	6:S4:218:PHE:CZ	2.85	0.47
6:S4:88:ASP:HA	6:S4:122:LYS:NZ	2.28	0.47
6:S4:73:ASP:HA	6:S4:89:VAL:HB	1.95	0.47
9:S7:148:LYS:NZ	80:6:640:U:O2'	382.89	0.47
9:S7:15:GLU:O	9:S7:19:GLN:HG3	2.23	0.47
10:S8:44:HIS:O	10:S8:56:ARG:N	2.79	0.47
36:1:1103:A:C1'	36:1:1104:G:OP1	2.61	0.47
36:1:1352:A:H1'	36:1:1353:U:O5'	2.14	0.47
36:1:1565:G:H1'	36:1:1575:A:C2	2.49	0.47
36:1:2184:U:C2	36:1:2185:G:C8	3.02	0.47
36:1:2213:A:H2'	36:1:2214:A:C8	2.49	0.47
36:1:2294:U:O2	36:1:2296:A:H8	1.96	0.47
36:1:2536:A:H2'	36:1:2537:U:C5	2.50	0.47
36:1:2767:U:H2'	36:1:2768:U:H6	1.78	0.47
36:1:503:C:N4	36:1:611:A:N6	2.62	0.47
36:1:638:C:H2'	36:1:639:G:H8	1.78	0.47
1:2:361:C:H2'	1:2:362:G:H8	1.77	0.47
1:2:364:G:N1	1:2:381:C:C4	2.81	0.47
1:2:460:A:N3	1:2:460:A:H2'	2.29	0.47
1:2:859:G:C6	1:2:919:G:C6	3.03	0.47
1:2:852:A:C2	1:2:943:U:C2	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:955:G:O6	1:2:956:A:N6	2.47	0.47
85:5:643:U:O2'	85:5:1153:A:N1	2.32	0.47
85:5:1616:U:H2'	85:5:1617:G:C8	2.49	0.47
53:M7:139:TYR:CE1	85:5:2355:G:H5'	142.64	0.47
85:5:2568:C:N4	85:5:2574:G:C6	2.82	0.47
85:5:2861:U:C4	85:5:2862:U:C4	3.02	0.47
85:5:3245:A:H2	85:5:3246:G:C2	2.33	0.47
92:5:3524:OHX:N4	92:5:3721:OHX:N1	2.63	0.47
85:5:645:A:C5	85:5:649:A:C5	3.02	0.47
51:M5:176:LYS:HE2	85:5:66:A:N3	96.30	0.47
85:5:747:A:H2'	85:5:748:U:O4'	2.14	0.47
77:Q1:15:ARG:NH1	80:6:1126:G:OP1	281.12	0.47
80:6:1540:G:C6	80:6:1541:G:C4	3.03	0.47
18:C6:127:LYS:NZ	80:6:1605:G:N7	388.31	0.47
80:6:1620:C:O2'	80:6:1621:U:OP1	2.31	0.47
80:6:188:A:N7	80:6:189:C:C2	2.82	0.47
80:6:213:A:C4	80:6:253:A:C2	3.02	0.47
80:6:629:U:H2'	80:6:630:A:H8	1.80	0.47
80:6:653:C:N4	80:6:677:G:H1	2.13	0.47
80:6:89:G:C5	80:6:90:C:C5	3.02	0.47
42:L5:33:ARG:NH2	37:7:7:G:O3'	270.31	0.47
38:8:44:A:H2'	38:8:45:C:H6	1.77	0.47
38:8:46:G:C2	38:8:58:G:C2	3.02	0.47
16:C4:112:ILE:HG22	16:C4:113:GLY:N	2.99	0.47
19:C7:17:ILE:HG13	19:C7:54:THR:HG22	1.96	0.47
21:C9:13:ASP:OD2	21:C9:13:ASP:N	2.31	0.47
21:C9:35:ASP:OD2	21:C9:36:ILE:HG23	3.37	0.47
21:C9:23:GLN:HG2	21:C9:55:TYR:CZ	2.49	0.47
26:D4:110:GLN:HB3	26:D4:114:ARG:NH1	2.50	0.47
33:E1:118:ARG:NE	80:6:1252:C:OP1	449.32	0.47
33:E1:133:ALA:O	33:E1:139:LEU:HA	2.15	0.47
40:L3:28:ARG:HH21	40:L3:30:LYS:HE2	1.79	0.47
40:L3:33:PRO:O	40:L3:34:LYS:C	2.92	0.47
41:L4:98:ARG:HG2	41:L4:99:MET:N	2.30	0.47
44:L7:125:GLU:OE2	44:L7:128:LYS:NZ	2.47	0.47
44:L7:157:ASN:O	44:L7:159:GLN:HG3	3.80	0.47
44:L7:56:GLU:C	44:L7:58:ALA:N	2.67	0.47
48:M1:12:LEU:HD12	48:M1:162:TRP:CD1	4.56	0.47
51:M5:35:VAL:HG13	51:M5:65:ARG:HB3	1.96	0.47
51:M5:98:LEU:HD13	85:5:290:G:H5''	138.30	0.47
52:M6:109:PRO:O	52:M6:110:PRO:C	2.75	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:26:PHE:CG	53:M7:121:GLN:HG2	3.26	0.47
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.63	0.47
54:M8:44:PHE:CE1	54:M8:137:THR:HG21	2.50	0.47
36:1:1874:A:N7	55:M9:20:ARG:NH1	2.63	0.47
63:N7:39:GLY:O	63:N7:77:TYR:N	2.73	0.47
64:N8:71:PRO:HB2	64:N8:109:TYR:HD2	1.79	0.47
66:O0:81:VAL:O	66:O0:83:LYS:HD2	2.14	0.47
66:O0:99:ASP:N	66:O0:99:ASP:OD2	2.86	0.47
67:O1:62:ARG:NH2	67:O1:68:GLU:OE2	3.71	0.47
68:O2:101:SER:O	68:O2:102:ALA:C	2.98	0.47
71:O5:13:SER:OG	71:O5:16:GLN:N	2.48	0.47
71:O5:86:ARG:HA	71:O5:89:ARG:NH2	2.30	0.47
78:Q2:61:LYS:HZ3	78:Q2:61:LYS:HB3	1.76	0.47
79:Q3:17:ARG:C	79:Q3:19:GLY:H	2.37	0.47
2:S0:175:TYR:OH	2:S0:197:ILE:O	2.61	0.47
2:S0:9:LEU:HD13	2:S0:11:PRO:N	3.89	0.47
3:S1:144:ARG:HB3	3:S1:208:GLN:CB	2.52	0.47
3:S1:205:PHE:CD1	3:S1:206:PRO:HD2	3.00	0.47
4:S2:146:THR:HG23	4:S2:148:LEU:HB2	1.97	0.47
4:S2:37:PRO:HG2	4:S2:43:ARG:HG2	1.97	0.47
6:S4:123:LEU:HA	6:S4:160:VAL:O	2.14	0.47
6:S4:94:ALA:C	6:S4:96:ASN:H	2.18	0.47
7:S5:100:ASN:O	7:S5:102:ARG:N	2.55	0.47
7:S5:43:PHE:CG	7:S5:44:ASN:N	3.02	0.47
6:S4:149:TYR:HB3	8:S6:208:TYR:CD2	2.49	0.47
9:S7:143:LEU:HD21	9:S7:149:ILE:HD12	2.69	0.47
1:2:751:C:H1'	11:S9:143:ILE:HG21	1.96	0.47
36:1:1355:A:H4'	36:1:1356:U:H5''	1.97	0.47
36:1:1658:G:C5	36:1:1796:G:C6	3.02	0.47
36:1:1714:A:N1	36:1:1728:G:C2	2.83	0.47
36:1:198:A:C2	36:1:219:A:C4	3.03	0.47
36:1:274:G:H2'	36:1:275:U:O4'	2.14	0.47
36:1:3065:G:C6	36:1:3066:U:C4	3.02	0.47
36:1:3249:C:C4	36:1:3250:U:C4	3.02	0.47
36:1:715:A:H4'	36:1:716:A:OP1	2.15	0.47
1:2:1094:G:C6	1:2:1095:G:C4	3.02	0.47
1:2:1517:G:OP2	27:D5:74:SER:OG	2.27	0.47
1:2:249:U:H3'	1:2:250:C:H5'	1.97	0.47
1:2:969:G:H2'	1:2:970:G:O4'	2.15	0.47
37:3:71:G:C4	37:3:72:A:N7	2.82	0.47
38:4:120:C:H2'	38:4:121:U:C6	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1036:A:H2'	85:5:1037:C:O4'	2.15	0.47
85:5:1250:G:H2'	85:5:1251:A:H8	1.79	0.47
85:5:1686:U:O2	85:5:1688:U:H1'	2.13	0.47
85:5:2183:A:N6	85:5:2184:U:O4	2.48	0.47
85:5:2380:U:C2	85:5:2381:G:C8	3.02	0.47
85:5:2656:A:C4	85:5:2658:G:N7	2.83	0.47
85:5:652:G:H8	85:5:652:G:O5'	1.98	0.47
68:O2:27:ARG:HD3	85:5:655:C:P	161.07	0.47
80:6:1354:G:H5'	80:6:1355:C:OP2	2.14	0.47
80:6:1624:C:H2'	80:6:1625:C:C6	2.49	0.47
80:6:1711:C:H2'	80:6:1712:A:H5''	1.96	0.47
80:6:381:C:H2'	80:6:382:C:C6	2.50	0.47
80:6:6:G:C2	80:6:7:G:C5	3.03	0.47
80:6:985:G:C2	80:6:986:G:H1'	2.49	0.47
37:7:36:C:H2'	37:7:37:G:C8	2.49	0.47
12:C0:8:ARG:HD2	12:C0:12:HIS:CE1	2.49	0.47
16:C4:86:THR:HG21	16:C4:90:ARG:NH2	2.27	0.47
18:C6:87:LYS:HG2	18:C6:117:LEU:HA	1.97	0.47
19:C7:23:LYS:O	19:C7:24:LEU:HB2	2.14	0.47
20:C8:63:GLN:HA	20:C8:66:LEU:HD12	1.95	0.47
21:C9:126:GLU:O	21:C9:130:ARG:HB2	2.15	0.47
25:D3:96:VAL:HG23	25:D3:97:ASP:N	2.27	0.47
27:D5:70:LYS:HG3	27:D5:71:ILE:H	1.78	0.47
7:S5:164:PRO:HG3	30:D8:52:ASP:HB2	3.99	0.47
41:L4:338:LYS:O	41:L4:339:LEU:CB	3.74	0.47
41:L4:355:PHE:CE2	44:L7:70:LYS:HD3	2.49	0.47
41:L4:3:ARG:O	41:L4:5:GLN:HG2	2.72	0.47
41:L4:44:LYS:O	41:L4:47:ARG:HD3	2.46	0.47
41:L4:61:SER:OG	41:L4:61:SER:O	2.24	0.47
42:L5:54:ARG:HH12	42:L5:148:ILE:C	2.17	0.47
42:L5:151:GLN:HE21	42:L5:159:VAL:HB	1.77	0.47
43:L6:30:LEU:HD13	43:L6:34:LEU:CD1	2.45	0.47
46:L9:23:ARG:C	46:L9:24:ILE:HD13	4.72	0.47
47:M0:128:ARG:HG2	47:M0:128:ARG:NH1	2.30	0.47
48:M1:16:LYS:HG3	48:M1:130:VAL:HG13	5.64	0.47
48:M1:160:VAL:O	48:M1:161:SER:C	2.82	0.47
49:M3:92:THR:HG21	71:O5:111:PHE:O	2.88	0.47
51:M5:113:LEU:HD13	51:M5:136:ASP:HA	1.95	0.47
51:M5:144:ARG:O	51:M5:145:ASP:HB3	2.15	0.47
54:M8:178:ARG:HA	54:M8:178:ARG:HD2	2.83	0.47
62:N6:39:LEU:HD12	62:N6:106:ILE:O	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:20:GLY:O	65:N9:21:ILE:CB	3.02	0.47
68:O2:96:ILE:N	68:O2:121:ASN:HD21	2.82	0.47
79:Q3:42:CYS:SG	79:Q3:60:CYS:SG	3.20	0.47
2:S0:28:ASN:O	2:S0:150:ASP:HB3	6.52	0.47
3:S1:27:LYS:HA	3:S1:27:LYS:HD3	1.76	0.47
4:S2:174:ARG:HH12	11:S9:94:ASP:HB3	1.79	0.47
4:S2:54:GLU:H	4:S2:54:GLU:HG2	1.36	0.47
6:S4:251:GLU:HG2	6:S4:255:ARG:HH21	3.49	0.47
7:S5:178:GLY:HA3	7:S5:209:TYR:CG	2.49	0.47
7:S5:45:LYS:HD3	7:S5:45:LYS:HA	2.40	0.47
7:S5:84:LYS:HD3	7:S5:92:ARG:NH1	3.57	0.47
8:S6:114:VAL:O	8:S6:115:LYS:HD3	2.15	0.47
9:S7:13:PRO:HB3	9:S7:14:THR:HB	2.09	0.47
11:S9:143:ILE:HD13	80:6:767:U:C5	421.72	0.47
11:S9:30:LEU:HA	11:S9:33:GLU:HG2	5.11	0.47
11:S9:68:LYS:O	11:S9:72:GLU:HB2	3.01	0.47
34:SR:14:GLU:HG2	34:SR:309:VAL:HG12	5.57	0.47
36:1:1110:U:H2'	36:1:1111:U:C6	2.50	0.47
36:1:128:G:H2'	36:1:129:U:O4'	2.15	0.47
36:1:1602:A:OP2	55:M9:38:ARG:HG3	2.14	0.47
36:1:831:G:O2'	36:1:1864:A:N3	2.43	0.47
36:1:2178:A:H3'	39:L2:132:ASN:ND2	2.30	0.47
36:1:2376:G:O2'	36:1:2377:G:H5'	2.15	0.47
36:1:2444:C:H2'	36:1:2445:A:C8	2.49	0.47
36:1:2442:G:H22	36:1:2505:U:H3	1.62	0.47
36:1:2778:G:C2'	36:1:2779:A:H5'	2.44	0.47
36:1:2900:A:C6	36:1:2901:G:C5	3.02	0.47
36:1:3159:C:C4	36:1:3160:U:C4	3.03	0.47
36:1:517:G:P	44:L7:60:ARG:HH22	2.38	0.47
36:1:537:A:H1'	36:1:557:A:O2'	2.15	0.47
36:1:661:G:C5	36:1:802:C:C6	3.03	0.47
36:1:995:U:C2	36:1:2637:A:C8	3.02	0.47
1:2:1067:A:H2'	1:2:1068:G:C8	2.49	0.47
1:2:1260:G:O3'	5:S3:183:GLY:HA3	2.15	0.47
1:2:1371:A:C5	1:2:1394:A:C6	3.02	0.47
1:2:1662:G:N2	1:2:1706:U:C4	2.83	0.47
38:4:120:C:H2'	38:4:121:U:H6	1.80	0.47
85:5:1063:G:O6	85:5:1097:G:C8	2.67	0.47
85:5:1150:A:OP1	85:5:1151:U:O4	2.32	0.47
85:5:1256:G:H2'	85:5:1257:C:C6	2.48	0.47
85:5:1495:U:C2'	85:5:1495:U:O2	2.61	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1565:G:N2	85:5:1566:A:H1'	2.29	0.47
85:5:1604:G:H3'	85:5:1604:G:N3	2.29	0.47
85:5:2249:G:O2'	85:5:2250:G:OP1	2.32	0.47
85:5:2702:A:H4'	85:5:2704:A:O4'	2.14	0.47
85:5:2988:C:O2'	85:5:2989:U:H5'	2.14	0.47
85:5:3048:A:C8	85:5:3090:U:O4	2.67	0.47
85:5:3107:U:H6	85:5:3107:U:O5'	1.98	0.47
85:5:3218:A:H5''	85:5:3219:G:C5	2.49	0.47
85:5:3218:A:H5''	85:5:3219:G:N7	2.29	0.47
92:5:3555:OHX:N5	92:5:3703:OHX:N2	2.62	0.47
85:5:917:A:C5	85:5:918:C:C4	3.03	0.47
80:6:10:G:H21	80:6:11:A:H1'	1.77	0.47
80:6:1146:G:C6	80:6:1147:A:C6	3.02	0.47
80:6:1486:G:C2	80:6:1487:A:C4	3.03	0.47
80:6:1740:A:C6	80:6:1741:U:C4	3.02	0.47
80:6:271:A:N3	80:6:285:G:C2	2.83	0.47
80:6:456:A:C6	80:6:457:G:C6	3.02	0.47
80:6:610:G:H5''	80:6:611:U:OP1	2.13	0.47
80:6:822:U:C4	80:6:823:G:N2	2.83	0.47
80:6:905:A:H2'	80:6:906:A:O4'	2.15	0.47
16:C4:52:ARG:N	80:6:906:A:OP2	292.38	0.47
37:7:47:C:H2'	37:7:48:U:C6	2.50	0.47
15:C3:86:GLU:HG2	15:C3:90:TYR:CE1	6.20	0.47
17:C5:127:ARG:O	17:C5:128:HIS:HB2	4.51	0.47
20:C8:41:ARG:HE	21:C9:46:PRO:HG3	3.30	0.47
22:D0:63:LEU:HB3	31:D9:34:TYR:CE2	2.49	0.47
23:D1:34:ILE:O	23:D1:52:THR:HA	2.48	0.47
25:D3:27:ASN:O	25:D3:30:LYS:N	2.90	0.47
25:D3:69:ARG:HG3	25:D3:117:ILE:HG12	1.96	0.47
39:L2:226:SER:O	39:L2:227:ARG:C	3.03	0.47
40:L3:27:ALA:CB	40:L3:218:ILE:HG22	3.33	0.47
40:L3:62:ARG:O	40:L3:68:HIS:HB2	2.44	0.47
40:L3:92:TYR:HH	85:5:3003:G:HO2'	239.99	0.47
41:L4:104:LYS:HD3	41:L4:104:LYS:HA	1.93	0.47
41:L4:205:PRO:HB3	41:L4:247:PHE:HD2	1.80	0.47
41:L4:338:LYS:O	41:L4:339:LEU:HB2	3.48	0.47
42:L5:40:HIS:ND1	42:L5:42:ALA:HB3	2.51	0.47
44:L7:98:LYS:O	44:L7:102:VAL:HG23	2.87	0.47
45:L8:237:ILE:HG22	45:L8:238:LEU:N	2.29	0.47
45:L8:75:ILE:HG22	45:L8:76:ALA:N	2.27	0.47
49:M3:109:PHE:O	49:M3:113:VAL:HG23	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:99:HIS:H	49:M3:99:HIS:CD2	2.32	0.47
50:M4:22:LEU:HB3	50:M4:64:VAL:HG13	2.80	0.47
52:M6:41:LEU:HD21	52:M6:80:PHE:CD1	3.07	0.47
36:1:1095:U:N3	57:N1:127:GLN:OE1	2.45	0.47
57:N1:11:THR:HG22	57:N1:14:MET:HB3	1.95	0.47
59:N3:17:LEU:HD21	59:N3:98:ASN:OD1	2.15	0.47
36:1:2111:G:H5''	60:N4:48:ARG:NH2	2.28	0.47
62:N6:103:LYS:HE2	85:5:221:A:H62	79.38	0.47
62:N6:58:VAL:HA	62:N6:104:LEU:HD23	1.97	0.47
63:N7:27:LYS:HD2	63:N7:27:LYS:HA	2.44	0.47
63:N7:36:HIS:HB3	63:N7:38:PHE:CZ	2.50	0.47
64:N8:13:GLY:HA2	85:5:943:U:H3'	163.39	0.47
67:O1:57:GLN:O	67:O1:61:LYS:N	3.02	0.47
67:O1:88:PRO:C	67:O1:89:LEU:HD12	2.35	0.47
67:O1:75:ILE:HG12	67:O1:93:VAL:HG13	3.08	0.47
74:O8:11:PHE:O	74:O8:14:LEU:N	2.47	0.47
74:O8:8:ILE:HD12	74:O8:8:ILE:H	1.80	0.47
4:S2:67:GLN:HA	4:S2:70:ASP:HB3	1.96	0.47
6:S4:146:THR:HG21	80:6:123:G:N2	339.21	0.47
7:S5:109:LYS:HD3	7:S5:113:ILE:HD11	1.96	0.47
9:S7:129:LEU:HD22	9:S7:169:PHE:CD1	3.38	0.47
11:S9:163:PRO:HD3	11:S9:169:PRO:O	2.15	0.47
35:SM:57:ASN:OD1	35:SM:57:ASN:N	2.48	0.47
35:SM:59:GLY:O	35:SM:63:ASP:HB2	2.15	0.47
36:1:1236:G:N2	36:1:1244:A:H4'	2.30	0.47
36:1:161:G:N2	36:1:261:U:H1'	2.29	0.47
36:1:1710:C:H2'	36:1:1711:C:H6	1.79	0.47
36:1:2539:C:H5'	36:1:2541:U:O4	2.15	0.47
36:1:2544:U:H2'	36:1:2545:C:C6	2.50	0.47
36:1:2766:U:C4	36:1:2767:U:C4	3.02	0.47
36:1:299:G:H2'	36:1:300:G:O4'	2.14	0.47
36:1:3312:U:O5'	36:1:3312:U:H6	1.97	0.47
36:1:821:U:OP2	92:1:3515:OHX:N3	2.48	0.47
1:2:1175:C:C4	1:2:1176:A:C5	3.03	0.47
1:2:1241:U:O4	1:2:1242:U:N3	2.48	0.47
1:2:1482:G:C2	1:2:1483:C:C2	3.03	0.47
1:2:1612:G:H2'	1:2:1613:U:H6	1.80	0.47
1:2:334:G:H2'	1:2:335:U:C6	2.50	0.47
1:2:372:G:H1'	1:2:612:U:O2	2.14	0.47
1:2:624:G:N1	1:2:625:C:C2	2.83	0.47
85:5:1157:G:C6	85:5:1158:A:C4	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1595:U:HO2'	85:5:1596:C:H6	1.63	0.47
85:5:1662:G:H1	85:5:1787:A:N6	2.09	0.47
85:5:2101:C:O2'	85:5:2102:U:OP1	2.31	0.47
85:5:2359:C:O2'	85:5:2360:C:H5'	2.15	0.47
85:5:2608:G:N3	85:5:2609:A:C8	2.83	0.47
85:5:2818:U:C6	85:5:2818:U:H5'	2.38	0.47
59:N3:92:PHE:CE1	85:5:3051:U:H1'	245.08	0.47
85:5:3362:A:H2'	85:5:3363:U:O4'	2.15	0.47
85:5:585:A:C5	85:5:586:C:N4	2.82	0.47
85:5:816:A:C8	85:5:906:A:C6	3.03	0.47
80:6:108:A:H2'	80:6:109:G:C8	2.50	0.47
80:6:1174:C:C4	80:6:1175:U:C4	3.03	0.47
80:6:1478:G:C4	80:6:1479:A:C8	3.03	0.47
13:C1:79:LYS:CB	80:6:346:G:H5'	281.77	0.47
80:6:828:U:H2'	80:6:829:A:H5''	1.97	0.47
38:8:65:A:C5	38:8:66:A:C8	3.03	0.47
13:C1:16:GLN:OE1	13:C1:34:TRP:HB3	2.67	0.47
18:C6:47:LYS:NZ	18:C6:114:ARG:HG2	2.30	0.47
21:C9:38:LYS:O	21:C9:39:THR:OG1	2.85	0.47
26:D4:49:LYS:HD2	80:6:782:U:O4	435.16	0.47
28:D6:60:PRO:C	28:D6:62:TYR:H	2.18	0.47
1:2:1780:A:C5	28:D6:87:ARG:NH1	2.83	0.47
30:D8:11:LYS:O	30:D8:30:VAL:HA	2.14	0.47
36:1:860:G:O5'	39:L2:181:LYS:NZ	2.48	0.47
36:1:2967:A:H5''	39:L2:213:GLY:HA3	1.97	0.47
39:L2:83:HIS:O	39:L2:84:THR:C	2.72	0.47
41:L4:30:ILE:HA	41:L4:124:SER:HB3	1.97	0.47
41:L4:10:SER:OG	41:L4:13:GLY:O	2.23	0.47
41:L4:16:THR:CG2	41:L4:18:ASN:H	2.26	0.47
41:L4:271:LYS:HB2	41:L4:274:TYR:HB3	2.66	0.47
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.33	0.47
42:L5:21:ARG:C	42:L5:23:ARG:H	2.18	0.47
44:L7:121:LYS:HE2	44:L7:125:GLU:OE2	2.15	0.47
47:M0:84:ALA:O	47:M0:140:THR:HG22	2.14	0.47
48:M1:139:THR:HG22	48:M1:147:THR:HA	1.97	0.47
48:M1:17:LEU:HB3	48:M1:76:ALA:HB1	1.97	0.47
50:M4:109:ARG:O	50:M4:111:ALA:N	3.47	0.47
50:M4:14:LEU:HA	50:M4:14:LEU:HD23	2.49	0.47
51:M5:19:LEU:O	51:M5:23:GLN:N	2.69	0.47
52:M6:113:ASP:OD2	52:M6:113:ASP:N	2.33	0.47
58:N2:22:PRO:HG2	58:N2:28:PHE:CD2	3.10	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:77:ILE:HD13	59:N3:126:TRP:CE2	2.93	0.47
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.97	0.47
62:N6:100:HIS:CD2	62:N6:101:PRO:HD2	2.61	0.47
62:N6:76:LEU:HD12	75:O9:31:THR:HG21	3.13	0.47
67:O1:7:VAL:HG12	67:O1:7:VAL:O	2.15	0.47
68:O2:87:MET:C	68:O2:88:HIS:CG	2.87	0.47
75:O9:17:LYS:O	75:O9:18:LYS:C	2.79	0.47
77:Q1:21:ARG:HH11	80:6:1654:G:P	281.51	0.47
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.96	0.47
6:S4:159:THR:HG22	6:S4:173:ILE:HB	1.97	0.47
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	1.97	0.47
9:S7:124:LYS:HA	9:S7:127:GLU:HB2	2.56	0.47
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.96	0.47
11:S9:122:VAL:HG23	11:S9:123:HIS:CD2	2.50	0.47
36:1:1349:G:H5'	41:L4:291:ASN:OD1	2.14	0.47
36:1:1435:A:N7	36:1:1437:C:C2	2.83	0.47
36:1:1578:C:H3'	36:1:1579:C:C6	2.50	0.47
36:1:1695:U:C2	36:1:1749:A:C2	3.02	0.47
36:1:3003:G:C4	36:1:3146:G:N1	2.82	0.47
36:1:495:G:H2'	36:1:496:C:O4'	2.15	0.47
36:1:553:U:H2'	36:1:554:A:O4'	2.14	0.47
36:1:643:U:C4	36:1:644:G:C6	3.03	0.47
36:1:848:A:C5	36:1:849:C:H1'	2.49	0.47
36:1:899:U:OP2	92:1:3515:OHX:N1	2.48	0.47
1:2:179:A:N6	1:2:180:A:C6	2.82	0.47
92:2:1970:OHX:N4	92:2:1985:OHX:N3	2.62	0.47
1:2:385:A:H5''	10:S8:22:ARG:HB2	1.96	0.47
1:2:63:G:N2	1:2:64:U:H1'	2.29	0.47
37:3:35:C:C4	37:3:36:C:C2	3.03	0.47
37:3:65:G:C2	37:3:66:A:C5	3.03	0.47
85:5:1250:G:O2'	85:5:1251:A:H5'	2.14	0.47
85:5:160:G:H2'	85:5:161:G:O4'	2.14	0.47
85:5:1757:A:N3	85:5:1769:G:C2	2.83	0.47
85:5:196:G:N7	92:5:3447:OHX:N3	2.63	0.47
85:5:239:G:H5''	85:5:240:U:OP1	2.14	0.47
85:5:2815:G:H5''	85:5:2816:G:OP2	2.15	0.47
85:5:3065:G:H2'	85:5:3066:U:O4'	2.14	0.47
85:5:270:U:O2	85:5:318:A:H2	1.98	0.47
85:5:325:A:H5''	85:5:326:U:OP2	2.15	0.47
85:5:358:G:N2	85:5:362:U:C2	2.83	0.47
85:5:378:A:C2	85:5:379:C:H1'	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:818:C:N3	85:5:920:A:H5'	2.30	0.47
80:6:1203:A:C6	80:6:1555:A:C6	3.03	0.47
80:6:1701:A:H3'	80:6:1702:A:H5''	1.96	0.47
80:6:1727:G:O6	92:6:1914:OHX:N6	2.48	0.47
92:6:1978:OHX:N2	92:6:2001:OHX:N4	2.63	0.47
80:6:395:U:C4	80:6:396:G:C6	3.02	0.47
80:6:545:A:H4'	80:6:546:U:OP1	2.15	0.47
80:6:595:G:C6	80:6:596:C:N4	2.83	0.47
37:7:111:U:O2'	92:7:205:OHX:N2	2.47	0.47
38:8:72:A:C6	38:8:73:U:C4	3.03	0.47
17:C5:20:VAL:HG12	17:C5:24:LYS:HB2	1.96	0.47
17:C5:21:ASP:O	17:C5:25:LEU:N	3.39	0.47
21:C9:135:ILE:HG13	21:C9:135:ILE:H	1.47	0.47
2:S0:3:LEU:HA	23:D1:39:VAL:HG21	7.61	0.47
25:D3:116:ASP:O	25:D3:118:PRO:HD3	2.15	0.47
13:C1:99:ARG:HH12	25:D3:7:ARG:HG3	1.80	0.47
26:D4:112:LYS:HE3	26:D4:113:ASN:OD1	2.14	0.47
27:D5:73:GLY:O	27:D5:77:ARG:HG3	2.14	0.47
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.13	0.47
33:E1:140:TYR:HE1	33:E1:146:SER:HA	1.79	0.47
39:L2:21:ARG:NH2	39:L2:22:LEU:HD11	2.29	0.47
40:L3:107:ALA:HA	40:L3:199:PHE:CD2	2.54	0.47
41:L4:23:PRO:O	41:L4:25:VAL:N	2.71	0.47
42:L5:57:ASN:HA	42:L5:58:LYS:HZ2	1.80	0.47
43:L6:136:GLU:O	43:L6:137:ASP:C	3.01	0.47
44:L7:228:SER:O	44:L7:229:PHE:HB3	4.15	0.47
45:L8:101:THR:HG22	45:L8:104:GLU:HG3	1.96	0.47
46:L9:140:VAL:CG2	46:L9:143:GLU:HB2	2.84	0.47
47:M0:116:ARG:HH12	85:5:2622:C:H42	231.09	0.47
36:1:1044:U:O2'	47:M0:92:HIS:HB2	2.15	0.47
51:M5:142:ILE:O	51:M5:144:ARG:O	2.33	0.47
36:1:412:G:OP1	53:M7:62:ARG:NH1	2.47	0.47
55:M9:142:ILE:HA	55:M9:145:ALA:HB3	1.96	0.47
56:N0:157:GLN:O	56:N0:158:LYS:C	3.16	0.47
56:N0:170:THR:OG1	85:5:3185:U:O2'	304.00	0.47
58:N2:58:GLU:C	58:N2:60:GLY:H	2.18	0.47
59:N3:13:ILE:HG12	59:N3:53:SER:HB2	2.87	0.47
60:N4:35:LYS:N	85:5:3085:G:OP1	228.33	0.47
63:N7:87:LEU:HD12	63:N7:88:ASP:N	2.27	0.47
67:O1:11:GLU:HG3	67:O1:109:VAL:CG2	3.09	0.47
67:O1:88:PRO:HG2	67:O1:89:LEU:HD13	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:98:VAL:CG2	67:O1:99:ALA:N	2.78	0.47
69:O3:91:ALA:C	69:O3:93:THR:N	3.03	0.47
78:Q2:10:THR:HG23	78:Q2:11:TYR:N	2.29	0.47
2:S0:49:ASN:OD1	2:S0:52:LYS:HG3	4.10	0.47
2:S0:54:TRP:O	2:S0:58:VAL:HG23	2.24	0.47
1:2:867:A:H5''	3:S1:136:ARG:CZ	2.45	0.47
92:2:1911:OHX:N6	3:S1:160:HIS:NE2	2.63	0.47
3:S1:48:VAL:HG11	3:S1:57:ALA:HB1	1.95	0.47
3:S1:30:PHE:HB3	3:S1:96:LEU:HD22	3.62	0.47
4:S2:152:HIS:CG	4:S2:174:ARG:HG3	2.49	0.47
4:S2:243:TYR:HB3	4:S2:246:GLU:HB2	1.97	0.47
6:S4:42:LEU:CD2	6:S4:46:VAL:HB	2.45	0.47
7:S5:144:GLU:OE2	30:D8:57:MET:HB2	2.41	0.47
9:S7:71:HIS:CG	9:S7:131:PHE:CZ	3.02	0.47
14:C2:125:ASN:HA	35:SM:169:UNK:O	2.15	0.47
36:1:1619:A:C2	36:1:1826:C:C2	3.03	0.47
36:1:1668:G:C6	36:1:1669:C:C4	3.03	0.47
36:1:1719:G:OP1	55:M9:110:ARG:NH2	2.47	0.47
36:1:1821:U:C4	70:O4:67:LYS:HD2	2.49	0.47
36:1:1841:A:C6	36:1:1848:G:C6	3.03	0.47
36:1:2662:G:H2'	36:1:2663:G:O4'	2.15	0.47
36:1:3067:C:H5''	55:M9:58:HIS:HD2	1.79	0.47
36:1:3268:A:C8	43:L6:130:ILE:HD11	2.50	0.47
36:1:299:G:N7	92:1:3684:OHX:N5	2.62	0.47
36:1:748:U:C4	36:1:749:C:N4	2.83	0.47
1:2:1022:A:N6	1:2:1074:A:C2	2.83	0.47
1:2:1124:G:C2	1:2:1125:A:C5	3.03	0.47
1:2:1132:G:H5''	1:2:1133:G:OP1	2.15	0.47
1:2:1140:A:H2'	1:2:1143:A:N7	2.30	0.47
1:2:1181:G:C2	1:2:1183:G:O6	2.68	0.47
1:2:1190:C:N4	1:2:1439:C:H41	2.03	0.47
1:2:1593:G:OP1	7:S5:72:HIS:NE2	2.42	0.47
1:2:514:G:O2'	1:2:515:A:H5'	2.14	0.47
85:5:1081:U:H4'	85:5:1082:U:O5'	2.15	0.47
55:M9:43:LYS:HE2	85:5:1765:U:H5'	92.72	0.47
85:5:2370:G:C6	85:5:2371:G:C5	3.03	0.47
85:5:2953:U:H2'	85:5:2954:U:O2	2.15	0.47
85:5:3161:C:C2	85:5:3290:G:N2	2.83	0.47
85:5:3163:A:C2'	85:5:3164:C:H5'	2.44	0.47
85:5:3275:U:O2'	85:5:3276:G:N1	2.48	0.47
85:5:3312:U:OP1	92:5:3521:OHX:N4	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:5:3565:OHX:N4	92:5:3574:OHX:N1	2.62	0.47
85:5:824:C:H2'	85:5:825:U:H6	1.79	0.47
80:6:1127:G:C6	80:6:1128:C:C4	3.03	0.47
80:6:1507:G:H2'	80:6:1508:U:C6	2.50	0.47
80:6:1732:A:H2'	80:6:1733:C:H6	1.80	0.47
80:6:314:C:C2	80:6:355:G:C2	3.03	0.47
80:6:512:A:H2'	80:6:513:U:C6	2.50	0.47
38:8:83:C:H4'	38:8:85:G:C2	2.49	0.47
13:C1:94:ILE:HG22	13:C1:97:TYR:H	2.42	0.47
15:C3:97:SER:O	15:C3:100:LYS:HB2	4.86	0.47
18:C6:55:VAL:HG21	18:C6:89:LEU:HD21	2.84	0.47
24:D2:23:ARG:HD2	24:D2:65:LEU:O	2.13	0.47
28:D6:79:ILE:HA	28:D6:84:VAL:HG21	1.97	0.47
39:L2:209:HIS:CD2	39:L2:210:PRO:N	2.83	0.47
36:1:2202:C:O2'	39:L2:240:ALA:O	2.20	0.47
39:L2:58:LEU:HD23	39:L2:77:ILE:HA	1.97	0.47
39:L2:82:VAL:HA	39:L2:86:GLN:OE1	2.72	0.47
40:L3:114:VAL:HG22	40:L3:163:HIS:CD2	2.50	0.47
41:L4:50:TYR:CE2	41:L4:109:TRP:CH2	3.47	0.47
42:L5:152:ARG:CG	42:L5:152:ARG:HH11	3.23	0.47
42:L5:163:LEU:HD21	42:L5:175:HIS:CD2	3.73	0.47
42:L5:163:LEU:HD21	42:L5:175:HIS:CG	3.04	0.47
44:L7:184:LEU:O	44:L7:187:GLU:N	2.47	0.47
44:L7:240:VAL:O	44:L7:244:ASN:N	2.70	0.47
45:L8:103:ALA:HA	45:L8:106:LYS:HB2	3.25	0.47
36:1:121:A:N3	45:L8:108:ARG:NH1	2.63	0.47
45:L8:161:GLU:HA	45:L8:164:VAL:HG22	2.09	0.47
47:M0:86:HIS:O	47:M0:138:VAL:HA	2.15	0.47
50:M4:21:VAL:HG22	50:M4:63:VAL:HG22	1.96	0.47
52:M6:108:ILE:HG22	52:M6:113:ASP:HB3	1.97	0.47
56:N0:13:ARG:HG2	56:N0:51:VAL:HG11	1.96	0.47
36:1:992:A:H5''	57:N1:43:LYS:HD3	1.97	0.47
59:N3:33:ASN:ND2	59:N3:63:LYS:HB2	2.30	0.47
60:N4:25:ASP:OD2	60:N4:25:ASP:N	4.01	0.47
8:S6:160:ARG:HG3	60:N4:84:GLY:HA3	1.96	0.47
64:N8:59:ARG:NH1	85:5:90:C:OP1	151.38	0.47
67:O1:70:ARG:HD2	67:O1:102:LYS:HE2	3.99	0.47
69:O3:70:LYS:O	69:O3:70:LYS:HG2	2.12	0.47
70:O4:51:LEU:HA	70:O4:51:LEU:HD23	3.71	0.47
71:O5:54:VAL:HG12	71:O5:58:ILE:HD11	2.98	0.47
72:O6:81:THR:HA	72:O6:84:LYS:NZ	4.99	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:87:SER:C	92:O7:102:OHX:N3	2.65	0.47
5:S3:29:LEU:HD21	5:S3:69:LEU:HD21	3.12	0.47
9:S7:10:SER:HB3	9:S7:43:PHE:O	2.15	0.47
9:S7:165:LYS:O	9:S7:168:SER:HB2	3.98	0.47
10:S8:98:LYS:HG2	10:S8:99:ALA:N	2.30	0.47
11:S9:129:ILE:HG12	11:S9:134:ILE:HD11	1.96	0.47
34:SR:170:ILE:HG21	34:SR:211:ILE:HD13	2.61	0.47
34:SR:44:SER:HG	34:SR:61:PHE:HE2	1.61	0.47
36:1:121:A:C2	45:L8:129:PRO:HB3	2.50	0.47
36:1:1310:G:O6	92:1:3560:OHX:N1	2.48	0.47
36:1:3156:U:O2'	36:1:3157:U:H5''	2.15	0.47
36:1:499:G:C6	36:1:500:C:C4	3.03	0.47
36:1:437:G:H1	36:1:622:A:N6	2.13	0.47
36:1:688:G:N2	36:1:690:A:O4'	2.47	0.47
1:2:1204:A:H61	1:2:1245:U:H3	1.63	0.47
1:2:1458:A:H2'	1:2:1459:C:O4'	2.15	0.47
1:2:1770:C:OP2	16:C4:132:ARG:HG2	2.15	0.47
1:2:55:A:OP1	26:D4:112:LYS:NZ	2.28	0.47
1:2:219:A:N6	1:2:826:U:O2	2.48	0.47
37:3:64:A:OP1	47:M0:206:LEU:HB3	2.14	0.47
85:5:1196:C:OP1	92:5:3742:OHX:N6	2.48	0.47
85:5:1599:G:C2	85:5:1600:U:C2	3.03	0.47
85:5:2318:U:C4	85:5:2319:U:C4	3.03	0.47
85:5:2588:U:C4	85:5:2589:G:N7	2.82	0.47
85:5:2628:A:H1'	85:5:2798:C:C2	2.49	0.47
64:N8:60:TYR:CE2	85:5:2777:G:C2	139.43	0.47
85:5:2774:C:C2	85:5:2787:G:C2	3.03	0.47
85:5:591:G:O5'	85:5:591:G:H8	1.98	0.47
85:5:897:U:H2'	85:5:898:U:C6	2.49	0.47
33:E1:134:ASN:H	80:6:1251:U:H4'	441.42	0.47
80:6:1489:U:C4	80:6:1513:G:C6	3.03	0.47
80:6:1545:A:C2	80:6:1567:U:C2	3.03	0.47
10:S8:141:ARG:NH2	80:6:196:G:N7	279.47	0.47
80:6:804:A:O2'	80:6:805:U:H5'	2.15	0.47
80:6:846:G:H2'	80:6:847:A:C8	2.50	0.47
37:7:95:A:C6	37:7:96:U:C4	3.03	0.47
15:C3:8:GLY:O	15:C3:9:LYS:HD3	3.28	0.47
16:C4:26:THR:HG21	16:C4:97:GLY:HA3	1.97	0.47
16:C4:37:GLU:HA	80:6:895:G:O2'	258.89	0.47
16:C4:87:GLY:O	16:C4:90:ARG:HB2	2.15	0.47
19:C7:27:ASP:O	19:C7:31:ASN:OD1	2.32	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:24:GLY:O	20:C8:26:ILE:HG23	2.15	0.47
20:C8:86:LEU:HA	20:C8:99:HIS:ND1	2.73	0.47
21:C9:11:ALA:HB2	21:C9:63:ARG:NH2	2.30	0.47
20:C8:40:ARG:NH2	21:C9:44:GLU:OE2	3.04	0.47
21:C9:14:PHE:CE2	21:C9:63:ARG:HB2	2.49	0.47
23:D1:3:ASN:OD1	23:D1:7:GLN:HB3	2.14	0.47
24:D2:6:VAL:HG12	24:D2:34:ILE:HD11	1.97	0.47
26:D4:116:LYS:O	26:D4:118:ILE:N	2.81	0.47
26:D4:42:GLU:OE2	26:D4:52:LYS:NZ	5.04	0.47
28:D6:85:ARG:O	28:D6:86:VAL:HB	2.15	0.47
40:L3:332:ARG:HG2	40:L3:333:LYS:HD3	1.97	0.47
40:L3:374:ALA:O	40:L3:377:HIS:N	2.48	0.47
40:L3:6:TYR:O	40:L3:7:GLU:C	2.52	0.47
40:L3:80:ASP:C	40:L3:80:ASP:OD1	2.99	0.47
41:L4:141:ARG:H	41:L4:141:ARG:HG2	1.38	0.47
41:L4:179:LEU:O	41:L4:180:LYS:C	2.68	0.47
41:L4:204:GLY:N	41:L4:224:GLY:O	2.85	0.47
41:L4:234:ASN:HD21	41:L4:236:LEU:HD12	1.79	0.47
43:L6:163:PHE:CZ	43:L6:165:LEU:HD23	2.96	0.47
46:L9:88:TYR:CZ	46:L9:155:SER:HB3	2.95	0.47
46:L9:88:TYR:CE2	46:L9:184:LYS:HD3	2.98	0.47
46:L9:53:ILE:HD13	50:M4:7:VAL:HG21	2.03	0.47
46:L9:69:ARG:O	46:L9:72:LYS:HB3	2.14	0.47
47:M0:157:TYR:OH	85:5:1206:G:OP1	311.22	0.47
47:M0:205:SER:CB	47:M0:208:ASN:HD21	2.90	0.47
47:M0:214:PRO:HD2	47:M0:215:GLU:OE1	8.00	0.47
49:M3:87:ALA:O	49:M3:90:ALA:N	2.48	0.47
50:M4:59:ASN:OD1	50:M4:60:LEU:N	2.47	0.47
58:N2:84:LEU:O	58:N2:89:LEU:N	2.46	0.47
64:N8:95:SER:OG	64:N8:98:THR:O	3.27	0.47
67:O1:28:ARG:O	67:O1:29:ALA:C	3.22	0.47
69:O3:35:VAL:HG13	69:O3:40:ASP:HB3	2.24	0.47
3:S1:36:SER:HB3	3:S1:231:LEU:HB3	1.97	0.47
6:S4:121:TYR:HB2	6:S4:162:ILE:O	2.49	0.47
6:S4:122:LYS:HG2	6:S4:164:LEU:HD21	1.97	0.47
1:2:398:G:O2'	6:S4:3:ARG:O	2.22	0.47
6:S4:72:VAL:HG22	6:S4:90:ILE:HG12	3.00	0.47
8:S6:63:MET:HA	8:S6:98:ARG:O	2.61	0.47
11:S9:108:ARG:HH22	11:S9:126:ARG:HH21	2.97	0.47
35:SM:34:LYS:NZ	36:1:2692:A:O3'	2.46	0.47
36:1:1000:C:H2'	36:1:1000:C:H6	1.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1209:G:C6	36:1:1210:U:N3	2.83	0.47
36:1:1237:G:H2'	36:1:1237:G:N3	2.30	0.47
36:1:1340:G:H2'	36:1:1341:U:C6	2.50	0.47
36:1:1345:G:C2	36:1:1360:C:C2	3.03	0.47
36:1:1354:G:H1'	43:L6:8:LYS:HD3	1.96	0.47
36:1:1700:G:H1	36:1:1745:C:H42	1.63	0.47
36:1:1794:G:H4'	39:L2:191:LEU:HD13	1.96	0.47
36:1:1841:A:N1	36:1:1848:G:C6	2.83	0.47
36:1:2211:U:C5	36:1:2212:C:C4	3.03	0.47
36:1:2374:C:N4	36:1:2941:A:C4	2.83	0.47
36:1:240:U:OP2	71:O5:94:LYS:NZ	2.42	0.47
36:1:3121:U:H4'	36:1:3122:A:OP1	2.15	0.47
36:1:527:A:C5	36:1:528:U:C5	3.03	0.47
36:1:901:G:O2'	36:1:902:G:H5'	2.15	0.47
1:2:1051:C:H2'	1:2:1052:A:H8	1.80	0.47
1:2:1123:G:H2'	1:2:1124:G:H8	1.80	0.47
1:2:1477:C:H2'	1:2:1478:C:C6	2.40	0.47
1:2:994:G:OP2	92:2:1967:OHX:N6	2.48	0.47
1:2:334:G:H2'	1:2:335:U:H6	1.79	0.47
1:2:577:G:H3'	1:2:577:G:C8	2.50	0.47
1:2:582:U:H3'	1:2:583:C:C6	2.49	0.47
37:3:79:A:OP2	92:3:203:OHX:N6	2.48	0.47
37:3:8:G:O6	42:L5:21:ARG:NH2	2.37	0.47
45:L8:162:LEU:HD11	85:5:147:U:O2	122.43	0.47
85:5:1815:U:O2'	85:5:1816:A:P	2.73	0.47
85:5:197:G:H2'	85:5:198:A:O4'	2.14	0.47
85:5:206:G:H1	85:5:223:U:H3	1.61	0.47
85:5:2652:U:C4	85:5:2759:U:O2	2.68	0.47
85:5:2846:U:C4'	85:5:2846:U:C6	2.98	0.47
85:5:327:A:C6	85:5:328:U:C4	3.03	0.47
85:5:3364:C:H2'	85:5:3365:U:C6	2.50	0.47
80:6:1226:A:O2'	80:6:1256:A:N6	2.42	0.47
80:6:1390:U:H6	80:6:1412:G:H1'	1.80	0.47
80:6:48:G:C2	80:6:49:C:C5	3.03	0.47
80:6:846:G:H2'	80:6:847:A:H8	1.79	0.47
37:7:30:G:C5	37:7:31:U:C5	3.03	0.47
37:7:57:G:C8	37:7:58:C:C6	3.03	0.47
38:8:108:C:H2'	38:8:109:A:O4'	2.15	0.47
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.14	0.47
17:C5:82:ASN:N	17:C5:82:ASN:OD1	2.45	0.47
19:C7:66:VAL:O	19:C7:69:ILE:HG12	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:40:ASP:N	23:D1:46:ILE:HD11	3.58	0.47
24:D2:11:LEU:HD22	24:D2:72:CYS:HB2	1.97	0.47
24:D2:9:ASP:N	24:D2:9:ASP:OD1	2.98	0.47
27:D5:41:ILE:HD12	27:D5:41:ILE:HA	1.78	0.47
28:D6:84:VAL:HG22	80:6:1797:A:C6	337.42	0.47
40:L3:123:TYR:CE2	40:L3:124:LYS:HG3	2.49	0.47
40:L3:188:ILE:O	40:L3:192:VAL:HG12	2.15	0.47
40:L3:2:SER:O	40:L3:3:HIS:CB	2.84	0.47
41:L4:138:ARG:HE	41:L4:240:PRO:HD2	1.79	0.47
41:L4:156:LEU:C	41:L4:158:SER:H	2.42	0.47
41:L4:219:LEU:C	41:L4:221:ASN:N	2.67	0.47
41:L4:77:VAL:HG12	41:L4:78:GLY:N	2.75	0.47
42:L5:61:ILE:HA	42:L5:79:TYR:CD1	3.17	0.47
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.50	0.47
45:L8:238:LEU:HD12	45:L8:238:LEU:H	3.26	0.47
46:L9:20:ILE:HD12	46:L9:45:PHE:CD1	2.50	0.47
48:M1:91:LEU:O	48:M1:171:VAL:HA	5.23	0.47
49:M3:168:ARG:HG3	49:M3:172:LEU:CD1	3.48	0.47
49:M3:49:ARG:NH2	71:O5:113:GLN:OE1	4.22	0.47
50:M4:120:VAL:HG22	52:M6:197:LEU:HD13	2.65	0.47
50:M4:20:VAL:O	50:M4:66:THR:HG23	2.86	0.47
53:M7:70:THR:OG1	53:M7:71:ALA:N	2.48	0.47
54:M8:111:ARG:HA	54:M8:121:CYS:SG	3.19	0.47
54:M8:133:LYS:HB2	54:M8:135:GLN:NE2	2.43	0.47
54:M8:131:ALA:HB1	54:M8:135:GLN:H	2.00	0.47
54:M8:67:ILE:HG12	54:M8:81:VAL:HG21	1.96	0.47
56:N0:109:ASP:OD1	56:N0:113:ARG:HD2	2.14	0.47
57:N1:68:THR:HG22	57:N1:71:SER:OG	3.35	0.47
58:N2:105:LEU:HD12	58:N2:105:LEU:HA	2.46	0.47
58:N2:85:LYS:HD3	58:N2:90:ARG:HG3	2.96	0.47
59:N3:11:PHE:HB2	59:N3:88:ARG:CZ	3.12	0.47
63:N7:81:LEU:HD22	63:N7:81:LEU:HA	2.74	0.47
64:N8:61:PHE:CE1	85:5:283:G:C8	144.50	0.47
68:O2:98:HIS:HA	85:5:1412:G:OP1	144.48	0.47
70:O4:56:THR:HG21	85:5:1739:U:O2'	181.23	0.47
70:O4:8:ARG:NH2	70:O4:31:ARG:HD2	2.41	0.47
71:O5:4:VAL:HB	71:O5:50:SER:HB3	1.98	0.47
74:O8:32:ASN:OD1	74:O8:36:LYS:N	3.49	0.47
2:S0:41:ARG:NH1	2:S0:45:VAL:HG21	2.19	0.47
4:S2:169:LEU:HD11	4:S2:188:LEU:HD21	1.96	0.47
11:S9:38:ASN:HB2	11:S9:41:GLU:H	1.80	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1003:A:C5	36:1:1004:U:C5	3.03	0.46
36:1:1015:U:O4	36:1:1035:G:N2	2.46	0.46
36:1:1123:U:C2	36:1:1136:A:C2	3.02	0.46
36:1:112:U:O2'	36:1:113:C:OP2	2.31	0.46
36:1:1257:C:H42	36:1:1261:G:H22	1.62	0.46
36:1:1541:G:H1'	36:1:1557:A:C4	2.50	0.46
36:1:1636:U:H5''	63:N7:73:LYS:HZ3	1.80	0.46
36:1:1869:C:H4'	36:1:3077:A:O2'	2.14	0.46
36:1:188:U:O2	36:1:208:C:H1'	2.15	0.46
36:1:3199:G:H5''	50:M4:6:ILE:HG21	1.96	0.46
36:1:3351:U:HO2'	36:1:3352:U:P	2.38	0.46
36:1:536:U:H5'	36:1:559:A:C2	2.50	0.46
36:1:712:G:N2	36:1:754:G:O3'	2.48	0.46
1:2:1077:G:C6	1:2:1078:U:C4	3.03	0.46
1:2:1123:G:OP2	92:2:1944:OHX:N6	2.48	0.46
1:2:1518:U:H5	7:S5:186:ASN:HA	1.79	0.46
1:2:314:C:N3	1:2:355:G:C6	2.83	0.46
1:2:223:U:H3	1:2:821:G:H1	1.63	0.46
1:2:81:G:C6	1:2:82:U:C2	3.03	0.46
1:2:869:U:O2	16:C4:123:SER:N	2.43	0.46
38:4:81:U:H1'	38:4:82:U:H5'	1.95	0.46
85:5:999:G:C6	85:5:1000:C:N4	2.83	0.46
85:5:1087:G:C2	85:5:1088:U:C6	3.03	0.46
85:5:129:U:H2'	85:5:130:A:C8	2.50	0.46
85:5:187:A:C2	85:5:211:A:C5	3.04	0.46
85:5:2435:G:H1	85:5:2512:C:H42	1.63	0.46
85:5:2885:C:N3	85:5:2886:U:C4	2.83	0.46
85:5:2374:C:N4	85:5:2941:A:N3	2.62	0.46
85:5:959:C:N4	85:5:2801:A:C8	2.83	0.46
85:5:979:U:O2	85:5:980:A:N3	2.48	0.46
24:D2:71:LYS:HD3	80:6:1098:U:O2'	379.39	0.46
80:6:1515:A:O2'	80:6:1517:U:OP2	2.28	0.46
80:6:1643:U:O2	80:6:1780:G:N2	2.48	0.46
80:6:208:U:H2'	80:6:209:U:C6	2.50	0.46
80:6:484:C:H42	80:6:503:G:N2	2.13	0.46
80:6:538:A:C8	80:6:543:C:N4	2.62	0.46
80:6:971:A:N6	85:5:846:A:N6	2.62	0.46
37:7:52:G:C6	37:7:53:U:C4	3.03	0.46
15:C3:15:ALA:O	80:6:959:U:H5''	350.06	0.46
19:C7:53:TYR:O	19:C7:57:LEU:HG	2.16	0.46
24:D2:25:VAL:HG12	24:D2:63:VAL:HB	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:43:LYS:HB2	26:D4:43:LYS:HE3	5.11	0.46
28:D6:24:VAL:HG12	28:D6:72:HIS:O	2.15	0.46
40:L3:50:LYS:HD3	40:L3:330:GLY:O	2.15	0.46
37:3:49:G:N7	42:L5:58:LYS:HG3	2.30	0.46
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	2.33	0.46
45:L8:187:GLY:HA2	45:L8:195:SER:HB2	2.10	0.46
45:L8:246:MET:CE	45:L8:249:ARG:HH21	2.28	0.46
46:L9:41:ILE:HD13	46:L9:41:ILE:O	2.15	0.46
47:M0:193:ASP:O	47:M0:196:PHE:O	2.32	0.46
48:M1:152:HIS:CD2	48:M1:153:LYS:H	5.14	0.46
49:M3:162:ASN:OD1	49:M3:164:GLU:N	3.35	0.46
49:M3:5:LYS:HZ3	49:M3:5:LYS:HG3	1.58	0.46
52:M6:35:VAL:HB	52:M6:104:VAL:HG13	2.57	0.46
53:M7:138:LYS:HG3	53:M7:138:LYS:O	3.04	0.46
53:M7:51:VAL:O	53:M7:54:HIS:N	2.44	0.46
55:M9:32:ILE:O	55:M9:34:GLN:N	3.34	0.46
56:N0:131:LYS:HB2	56:N0:134:ASP:OD2	2.16	0.46
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.16	0.46
60:N4:47:ARG:H	60:N4:47:ARG:HD2	1.81	0.46
62:N6:56:VAL:CG1	62:N6:104:LEU:HD13	2.85	0.46
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.45	0.46
63:N7:92:PHE:HA	63:N7:95:VAL:HG23	2.22	0.46
64:N8:70:LYS:HG2	64:N8:70:LYS:O	2.15	0.46
66:O0:24:THR:HG22	66:O0:91:SER:HB3	1.96	0.46
67:O1:46:THR:HG23	67:O1:47:ASP:N	3.71	0.46
67:O1:68:GLU:HG3	67:O1:69:TYR:H	1.80	0.46
69:O3:73:ARG:CZ	69:O3:82:ARG:NH2	2.78	0.46
71:O5:22:VAL:H	71:O5:22:VAL:HG23	1.42	0.46
2:S0:162:CYS:HB3	2:S0:173:ILE:HG13	1.97	0.46
2:S0:25:GLY:O	2:S0:46:HIS:HB2	5.92	0.46
3:S1:196:GLU:HA	3:S1:199:ASN:ND2	2.30	0.46
5:S3:7:LYS:HA	5:S3:10:LYS:HB3	1.97	0.46
5:S3:16:VAL:HG11	31:D9:22:ARG:NH1	3.49	0.46
5:S3:90:ARG:HH22	5:S3:94:ARG:HE	10.08	0.46
8:S6:163:THR:HG22	8:S6:168:THR:HG22	2.24	0.46
9:S7:14:THR:H	9:S7:17:GLU:HB2	1.80	0.46
36:1:1396:C:H6	36:1:1396:C:O5'	1.98	0.46
36:1:2157:G:N2	36:1:2178:A:OP2	2.33	0.46
36:1:3011:A:N3	36:1:3012:A:H1'	2.29	0.46
36:1:3291:G:H2'	36:1:3292:A:H8	1.79	0.46
1:2:1197:U:OP1	1:2:1229:C:H1'	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1469:G:N1	1:2:1505:U:H5	2.13	0.46
1:2:1102:G:O6	92:2:2029:OHX:N1	2.48	0.46
1:2:432:G:C5	1:2:433:C:C4	3.03	0.46
1:2:647:G:H22	1:2:670:G:N2	2.13	0.46
1:2:688:U:OP1	1:2:688:U:H4'	2.15	0.46
1:2:802:G:O2'	1:2:804:U:OP2	2.20	0.46
85:5:1561:G:C2	85:5:1562:C:C2	3.02	0.46
85:5:1661:G:H2'	85:5:1662:G:C8	2.50	0.46
85:5:1934:G:C6	85:5:1935:G:C8	3.03	0.46
85:5:210:U:C2	85:5:230:U:H4'	2.50	0.46
85:5:2124:G:C2	85:5:2125:A:C8	3.03	0.46
85:5:2300:G:H1'	85:5:2328:U:O2'	2.16	0.46
85:5:2708:C:H2'	85:5:2709:C:O4'	2.14	0.46
54:M8:181:SER:HB3	85:5:2790:A:OP2	181.97	0.46
85:5:2948:C:H2'	85:5:2949:U:O4'	2.15	0.46
85:5:2117:A:C8	85:5:3064:U:H1'	2.50	0.46
85:5:3279:A:N6	85:5:3280:U:C4	2.83	0.46
85:5:420:G:O6	92:5:3437:OHX:N3	2.47	0.46
85:5:3317:U:H6	92:5:3637:OHX:N6	2.12	0.46
85:5:3127:A:P	92:5:3658:OHX:N5	2.88	0.46
44:L7:60:ARG:NH2	85:5:516:A:O3'	303.84	0.46
85:5:560:G:C2	85:5:561:C:C2	3.03	0.46
80:6:1244:A:N3	80:6:1244:A:H2'	2.31	0.46
80:6:1350:U:H2'	80:6:1351:G:H8	1.79	0.46
80:6:15:U:C4	80:6:16:G:C5	3.03	0.46
80:6:333:A:N1	80:6:334:G:C2	2.83	0.46
80:6:560:U:O2'	80:6:561:G:H5'	2.15	0.46
80:6:641:G:N1	80:6:642:G:C5	2.83	0.46
80:6:708:C:H2'	80:6:709:C:O4'	2.15	0.46
37:7:26:C:H2'	37:7:27:A:O4'	2.15	0.46
17:C5:123:TYR:OH	20:C8:122:HIS:NE2	2.37	0.46
24:D2:73:GLY:O	24:D2:128:PHE:N	3.01	0.46
26:D4:121:THR:C	26:D4:123:LYS:N	3.75	0.46
26:D4:28:LEU:H	26:D4:28:LEU:HD12	3.78	0.46
27:D5:93:SER:HG	27:D5:94:LYS:H	1.59	0.46
29:D7:49:HIS:HD2	80:6:957:G:O2'	339.89	0.46
7:S5:57:SER:HB3	30:D8:53:ILE:HB	1.97	0.46
39:L2:58:LEU:HA	39:L2:58:LEU:HD23	2.18	0.46
39:L2:66:PRO:HB2	39:L2:67:TYR:CZ	2.50	0.46
41:L4:103:THR:HG22	41:L4:107:ARG:HH22	2.62	0.46
41:L4:144:LYS:HG2	41:L4:145:ILE:N	5.39	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:22:LEU:HD22	41:L4:23:PRO:HD2	1.96	0.46
42:L5:115:LEU:O	42:L5:118:THR:O	2.33	0.46
42:L5:198:TYR:CE1	42:L5:203:HIS:CG	3.62	0.46
42:L5:200:PHE:O	42:L5:240:TYR:HD2	2.36	0.46
42:L5:254:LYS:HG2	42:L5:255:PRO:O	2.16	0.46
36:1:591:G:H21	43:L6:19:LYS:H	1.62	0.46
44:L7:33:ARG:O	44:L7:36:ALA:N	2.42	0.46
44:L7:81:HIS:ND1	44:L7:81:HIS:N	2.63	0.46
44:L7:89:ILE:HA	44:L7:89:ILE:HD13	1.53	0.46
45:L8:181:LYS:HD2	38:8:155:A:OP1	152.16	0.46
45:L8:29:SER:O	45:L8:29:SER:OG	3.46	0.46
45:L8:57:ARG:HB3	45:L8:61:GLN:OE1	2.15	0.46
46:L9:67:ALA:HA	46:L9:70:THR:CG2	2.46	0.46
47:M0:24:ARG:O	47:M0:25:ALA:HB3	4.75	0.46
47:M0:29:SER:O	47:M0:31:ILE:N	2.47	0.46
48:M1:83:GLY:O	48:M1:86:VAL:N	2.83	0.46
49:M3:25:HIS:CE1	51:M5:198:SER:HB2	2.51	0.46
50:M4:100:ALA:O	50:M4:103:ILE:HB	2.63	0.46
50:M4:78:THR:O	50:M4:81:VAL:HB	2.49	0.46
51:M5:150:TRP:O	51:M5:151:ILE:C	2.53	0.46
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.31	0.46
56:N0:117:ARG:HG2	56:N0:117:ARG:H	1.84	0.46
57:N1:104:GLU:OE1	57:N1:108:ARG:NH1	2.48	0.46
66:O0:10:ILE:HD12	66:O0:10:ILE:O	2.14	0.46
68:O2:19:ARG:HG2	68:O2:20:HIS:N	2.30	0.46
70:O4:65:VAL:HG22	70:O4:66:SER:H	2.75	0.46
71:O5:41:LEU:O	71:O5:44:ILE:HG22	2.50	0.46
73:O7:84:SER:O	73:O7:85:LYS:HB3	4.01	0.46
2:S0:110:TYR:HA	2:S0:115:PHE:CD2	2.49	0.46
3:S1:128:LYS:HG3	3:S1:133:TYR:O	4.63	0.46
3:S1:176:VAL:HG13	3:S1:184:LEU:HD22	4.36	0.46
3:S1:214:LYS:HE3	80:6:886:U:OP1	287.43	0.46
3:S1:81:PHE:CD2	3:S1:81:PHE:N	3.24	0.46
4:S2:90:THR:HG23	4:S2:92:ALA:H	1.80	0.46
5:S3:63:GLY:O	5:S3:67:ASN:ND2	5.59	0.46
6:S4:187:ARG:NH1	6:S4:245:LYS:NZ	2.62	0.46
7:S5:116:HIS:O	7:S5:120:ILE:HG13	2.27	0.46
8:S6:5:ILE:HD12	8:S6:16:PHE:CE2	2.50	0.46
8:S6:64:LYS:O	8:S6:65:GLN:C	2.53	0.46
10:S8:101:ILE:HD13	10:S8:168:CYS:HB2	2.72	0.46
11:S9:109:LEU:HB2	11:S9:146:PHE:CB	2.39	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:132:ARG:HB3	11:S9:140:ILE:HD13	3.29	0.46
36:1:1070:U:C5	36:1:1071:U:C4	3.03	0.46
36:1:1294:A:N3	36:1:1295:G:C8	2.83	0.46
36:1:1343:A:C2	36:1:1362:G:C6	3.03	0.46
36:1:1362:G:H4'	44:L7:159:GLN:O	2.15	0.46
36:1:1371:G:O5'	36:1:1371:G:H8	1.99	0.46
36:1:1505:C:OP1	53:M7:23:ARG:NH2	2.48	0.46
36:1:2206:G:C2	36:1:2207:A:C8	3.04	0.46
36:1:2573:G:OP2	36:1:2573:G:C8	2.68	0.46
36:1:2590:A:H2'	36:1:2591:A:H8	1.79	0.46
36:1:572:A:H2'	36:1:573:C:O4'	2.15	0.46
36:1:846:A:H2'	36:1:847:A:O4'	2.15	0.46
36:1:821:U:O2'	36:1:912:G:OP1	2.28	0.46
1:2:1130:A:H2'	1:2:1131:C:H6	1.80	0.46
1:2:1314:A:H8	1:2:1314:A:O5'	1.99	0.46
1:2:1495:G:C6	1:2:1496:G:C6	3.04	0.46
1:2:386:G:C6	1:2:387:A:N6	2.83	0.46
85:5:1465:A:N6	85:5:1466:G:C2	2.83	0.46
85:5:1757:A:C2	85:5:1769:G:C2	3.04	0.46
85:5:176:G:H2'	85:5:177:U:H6	1.80	0.46
85:5:1875:G:C6	85:5:1876:U:C4	3.04	0.46
85:5:2300:G:O2'	85:5:2328:U:H1'	2.16	0.46
85:5:2858:U:O2'	85:5:2887:A:N6	2.48	0.46
51:M5:172:ARG:NH1	85:5:30:G:OP1	107.36	0.46
85:5:3294:A:H2'	85:5:3295:A:O4'	2.16	0.46
97:5:3403:SPS:O1	97:5:3403:SPS:H91	2.14	0.46
85:5:384:A:H2'	85:5:385:A:C8	2.50	0.46
85:5:5:G:N1	38:8:155:A:C2	2.84	0.46
85:5:993:G:C5	85:5:2637:A:C2	3.03	0.46
80:6:109:G:H2'	80:6:110:U:O4'	2.14	0.46
18:C6:10:PHE:CZ	80:6:1379:C:H5'	429.87	0.46
80:6:1590:G:H2'	80:6:1591:C:H6	1.79	0.46
80:6:189:C:C2'	80:6:190:C:H5'	2.45	0.46
80:6:784:C:H2'	80:6:785:U:C6	2.51	0.46
80:6:877:G:H5'	80:6:937:C:H1'	1.98	0.46
80:6:950:C:H2'	80:6:951:A:C8	2.50	0.46
80:6:976:G:C6	80:6:1023:A:C4	3.03	0.46
38:8:1:A:N3	38:8:2:A:C8	2.83	0.46
12:C0:24:LYS:HA	12:C0:63:TYR:HA	1.97	0.46
12:C0:76:LEU:HD22	12:C0:79:TYR:HB3	7.04	0.46
14:C2:126:TRP:HD1	14:C2:128:ALA:H	3.09	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:90:ILE:HD13	17:C5:109:PRO:HA	2.12	0.46
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	2.14	0.46
17:C5:118:GLU:O	20:C8:122:HIS:N	3.04	0.46
26:D4:41:ARG:NE	26:D4:55:VAL:O	2.79	0.46
27:D5:68:ARG:HD3	27:D5:68:ARG:HA	1.60	0.46
28:D6:4:LYS:HZ1	28:D6:92:ARG:NH1	2.95	0.46
39:L2:113:VAL:HG23	39:L2:166:ILE:HA	2.57	0.46
39:L2:174:ARG:O	79:Q3:69:TYR:OH	2.60	0.46
39:L2:50:HIS:CE1	39:L2:51:ASP:O	2.69	0.46
40:L3:344:THR:O	40:L3:344:THR:HG22	4.68	0.46
40:L3:92:TYR:CE1	40:L3:159:ARG:HD2	2.61	0.46
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.51	0.46
41:L4:42:VAL:O	41:L4:45:ASN:N	3.26	0.46
42:L5:21:ARG:C	42:L5:23:ARG:N	2.69	0.46
45:L8:95:ASN:OD1	45:L8:98:ARG:NE	2.48	0.46
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	2.14	0.46
46:L9:17:THR:HG21	50:M4:3:THR:HB	1.97	0.46
49:M3:159:VAL:HG11	64:N8:142:GLY:O	2.15	0.46
50:M4:49:PRO:O	50:M4:51:ALA:N	3.22	0.46
51:M5:145:ASP:C	51:M5:147:ARG:H	2.18	0.46
51:M5:16:SER:O	51:M5:20:ARG:HG3	2.15	0.46
51:M5:178:HIS:C	51:M5:180:PHE:N	2.68	0.46
51:M5:80:THR:O	51:M5:81:TYR:C	2.78	0.46
54:M8:38:ARG:NH2	85:5:1347:U:H3'	188.95	0.46
54:M8:34:THR:HG23	54:M8:49:LEU:HD21	1.96	0.46
55:M9:105:LEU:HD21	55:M9:139:VAL:HG12	6.84	0.46
57:N1:129:LYS:HB2	85:5:1098:A:C5'	252.05	0.46
57:N1:68:THR:HG23	57:N1:69:LYS:N	2.66	0.46
59:N3:10:LYS:O	59:N3:10:LYS:HG2	2.28	0.46
61:N5:73:MET:CE	61:N5:73:MET:HA	4.07	0.46
64:N8:118:ILE:HB	64:N8:119:PRO:HD2	2.66	0.46
66:O0:40:LYS:HD3	66:O0:93:LEU:O	2.15	0.46
67:O1:26:LYS:HE2	67:O1:64:VAL:HG21	3.07	0.46
78:Q2:22:GLN:O	78:Q2:74:CYS:HA	2.15	0.46
2:S0:184:LEU:HA	2:S0:184:LEU:HD13	4.06	0.46
3:S1:125:VAL:HG12	3:S1:137:ILE:HG23	5.45	0.46
3:S1:128:LYS:NZ	3:S1:132:ASP:HB3	2.29	0.46
3:S1:157:GLN:HB2	3:S1:160:HIS:ND1	2.31	0.46
4:S2:80:VAL:HA	4:S2:102:VAL:HG22	1.97	0.46
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.98	0.46
35:SM:35:ALA:HB1	35:SM:37:VAL:HG23	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:220:ILE:N	34:SR:234:LEU:O	2.97	0.46
34:SR:82:SER:OG	34:SR:92:TRP:NE1	2.57	0.46
36:1:1212:A:C4	36:1:1213:G:C8	3.04	0.46
36:1:132:C:C2'	36:1:133:U:H5''	2.43	0.46
36:1:13:A:H5'	36:1:14:U:OP2	2.15	0.46
36:1:157:A:C8	72:O6:26:ILE:HG12	2.50	0.46
36:1:1629:U:O4	63:N7:111:LYS:HD2	2.15	0.46
36:1:1635:G:N2	36:1:1638:A:OP2	2.40	0.46
36:1:1722:U:C4	36:1:1723:A:N7	2.84	0.46
36:1:1728:G:C6	66:O0:85:PHE:CZ	3.04	0.46
36:1:180:C:H6	36:1:180:C:O5'	1.99	0.46
36:1:2209:U:P	36:1:2209:U:H6	2.39	0.46
36:1:2358:A:H2'	36:1:2359:C:O4'	2.14	0.46
36:1:2376:G:C6	36:1:2377:G:C6	3.03	0.46
36:1:2837:A:N3	36:1:2850:G:C2	2.83	0.46
36:1:2907:G:H1'	76:Q0:100:TYR:CD2	2.50	0.46
36:1:650:C:O2'	36:1:651:G:H5'	2.15	0.46
36:1:810:A:C6	36:1:811:U:C4	3.03	0.46
1:2:1647:C:N4	1:2:1720:G:H1	2.12	0.46
1:2:1783:U:H1'	1:2:1811:G:N2	2.29	0.46
1:2:388:G:OP1	1:2:402:C:H5	1.98	0.46
85:5:1238:C:H2'	85:5:1239:C:O4'	2.15	0.46
85:5:1349:G:H2'	85:5:1350:A:C8	2.49	0.46
85:5:1447:G:O2'	85:5:1448:U:P	2.74	0.46
85:5:1700:G:C6	85:5:1701:C:C4	3.04	0.46
85:5:1817:G:P	92:5:3683:OHX:N2	2.88	0.46
85:5:2113:A:N7	85:5:2114:C:C4	2.83	0.46
85:5:2117:A:N7	85:5:3064:U:O2'	2.32	0.46
85:5:217:U:C2'	85:5:218:G:OP1	2.64	0.46
85:5:198:A:C6	85:5:219:A:C6	3.03	0.46
85:5:2207:A:H2'	85:5:2208:A:C4'	2.45	0.46
85:5:2220:A:N6	85:5:2221:G:C6	2.84	0.46
85:5:3181:C:H2'	85:5:3182:G:C8	2.50	0.46
85:5:337:G:N1	85:5:339:C:C4	2.84	0.46
85:5:1734:G:O6	92:5:3472:OHX:N5	2.48	0.46
85:5:408:A:H2'	85:5:409:A:O4'	2.16	0.46
85:5:434:U:H2'	85:5:435:C:C6	2.50	0.46
85:5:498:A:C2	85:5:499:G:C5	3.04	0.46
85:5:513:G:C6	85:5:579:G:C6	3.04	0.46
85:5:58:G:HO2'	85:5:61:A:H5'	1.81	0.46
80:6:1051:G:H5''	80:6:1052:U:OP2	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1381:U:O2'	80:6:1382:A:H5'	2.15	0.46
80:6:1451:C:H2'	80:6:1452:U:C6	2.51	0.46
8:S6:94:ARG:HH21	80:6:407:A:P	290.98	0.46
80:6:565:C:H5''	80:6:566:C:C5	2.51	0.46
28:D6:70:LYS:HD3	80:6:930:A:H5''	313.49	0.46
56:N0:40:ARG:NH1	37:7:97:A:OP1	289.45	0.46
38:8:57:C:O2'	38:8:58:G:H5'	2.16	0.46
15:C3:118:ILE:O	15:C3:122:ILE:HG13	2.14	0.46
3:S1:83:LYS:NZ	16:C4:116:GLU:OE2	2.27	0.46
17:C5:122:THR:HG21	80:6:1455:G:OP1	369.68	0.46
17:C5:33:PHE:CD2	17:C5:86:VAL:HG23	2.50	0.46
21:C9:76:LEU:HB3	21:C9:80:TYR:HE2	1.80	0.46
25:D3:23:ARG:HD2	25:D3:26:GLU:OE2	2.15	0.46
40:L3:307:PRO:O	40:L3:310:GLY:N	2.48	0.46
41:L4:150:LEU:HD13	41:L4:249:ILE:HG23	1.96	0.46
42:L5:15:ARG:NH1	85:5:1003:A:H1'	289.13	0.46
43:L6:170:LYS:O	43:L6:171:PRO:C	2.53	0.46
44:L7:211:SER:O	44:L7:211:SER:OG	2.25	0.46
46:L9:25:VAL:HG12	46:L9:26:LYS:N	2.30	0.46
47:M0:194:GLY:CA	85:5:1010:G:H21	337.39	0.46
48:M1:150:ASN:O	48:M1:152:HIS:N	2.47	0.46
48:M1:91:LEU:HA	48:M1:91:LEU:HD23	1.69	0.46
49:M3:46:ILE:HG12	49:M3:49:ARG:NE	6.36	0.46
51:M5:68:ARG:HD2	51:M5:128:LYS:HG3	3.24	0.46
52:M6:12:LYS:HG2	52:M6:40:GLU:HB3	3.89	0.46
53:M7:107:LEU:HA	53:M7:107:LEU:HD12	1.74	0.46
56:N0:12:ARG:HB3	56:N0:24:LEU:CD2	2.78	0.46
57:N1:88:ARG:NH2	65:N9:31:SER:HG	2.13	0.46
58:N2:17:VAL:HG22	58:N2:103:TYR:HB2	1.97	0.46
68:O2:47:ARG:HD2	85:5:634:C:O2'	213.90	0.46
69:O3:9:VAL:HG23	69:O3:100:ILE:HB	4.36	0.46
69:O3:58:GLU:HB2	69:O3:63:LYS:HZ3	1.79	0.46
63:N7:81:LEU:HD12	70:O4:93:PHE:CD2	3.56	0.46
73:O7:88:ALA:N	92:O7:102:OHX:N1	2.64	0.46
2:S0:74:VAL:HG22	2:S0:96:THR:HG23	2.14	0.46
2:S0:9:LEU:HD11	2:S0:14:ALA:HB2	1.97	0.46
3:S1:148:ASN:OD1	3:S1:148:ASN:N	4.35	0.46
3:S1:32:ILE:HD11	3:S1:45:LYS:O	3.57	0.46
5:S3:136:VAL:HG22	5:S3:186:VAL:HG22	3.09	0.46
6:S4:34:GLY:HA3	6:S4:35:PRO:HD3	1.86	0.46
6:S4:38:LEU:HG	6:S4:39:ARG:N	4.85	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:44:ASN:HB2	7:S5:46:TRP:CZ3	2.50	0.46
10:S8:156:VAL:O	10:S8:159:GLN:HB2	3.25	0.46
11:S9:122:VAL:O	11:S9:125:ALA:N	3.25	0.46
35:SM:83:LYS:HB3	35:SM:84:LYS:H	2.36	0.46
36:1:1082:U:H5'	36:1:1083:G:OP2	2.15	0.46
36:1:1093:A:N3	36:1:1096:U:N3	2.63	0.46
36:1:1182:A:H2'	36:1:1183:C:C6	2.50	0.46
36:1:1288:U:H2'	36:1:1289:G:C8	2.48	0.46
36:1:1495:U:H5	36:1:1835:A:N1	2.13	0.46
36:1:1514:G:O6	36:1:1841:A:H2'	2.16	0.46
36:1:1748:G:OP2	74:O8:42:LYS:NZ	2.44	0.46
36:1:1489:A:C6	36:1:1854:C:N4	2.83	0.46
36:1:2207:A:N6	36:1:2208:A:H62	2.12	0.46
36:1:2557:A:C2	45:L8:38:GLN:HA	2.50	0.46
36:1:2973:G:N2	36:1:2974:U:H1'	2.30	0.46
36:1:342:A:N1	36:1:349:A:C8	2.84	0.46
36:1:688:G:C6	36:1:690:A:C5	3.04	0.46
36:1:830:A:OP1	92:1:3543:OHX:N3	2.48	0.46
1:2:1293:U:O2	1:2:1299:G:C2	2.69	0.46
1:2:1348:C:N4	1:2:1349:U:C4	2.83	0.46
1:2:263:C:O2'	1:2:292:U:O4'	2.28	0.46
1:2:330:G:H2'	1:2:331:A:C8	2.51	0.46
1:2:552:G:H2'	1:2:553:G:C8	2.51	0.46
85:5:1745:C:H2'	85:5:1746:U:C6	2.51	0.46
85:5:1813:A:H2'	85:5:1814:A:H5''	1.97	0.46
85:5:1820:U:O2'	85:5:1821:U:OP1	2.27	0.46
85:5:2724:U:C4	85:5:2725:U:C4	3.04	0.46
85:5:282:G:H3'	85:5:282:G:C8	2.50	0.46
85:5:2916:U:C4	85:5:2935:U:C2	3.04	0.46
85:5:2956:A:N6	85:5:2977:G:H21	2.13	0.46
67:O1:25:PHE:CD1	85:5:3056:U:C4	183.08	0.46
85:5:731:U:H2'	85:5:732:C:H6	1.80	0.46
85:5:94:G:H2'	85:5:95:A:H8	1.80	0.46
80:6:1636:C:C4	80:6:1765:A:N1	2.83	0.46
80:6:274:G:H1	80:6:282:C:H42	1.62	0.46
80:6:774:A:C4	80:6:775:G:H1'	2.50	0.46
14:C2:54:ARG:O	14:C2:56:GLU:N	2.43	0.46
15:C3:76:LYS:HA	15:C3:81:ALA:HB2	1.97	0.46
1:2:1166:A:N1	17:C5:99:GLY:HA3	2.31	0.46
18:C6:47:LYS:O	18:C6:50:GLU:HB2	2.16	0.46
1:2:1372:C:OP2	19:C7:45:ARG:HG2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:75:GLU:O	19:C7:79:GLU:HG2	2.16	0.46
2:S0:88:LYS:HE3	19:C7:82:ASP:OD2	2.14	0.46
20:C8:120:ARG:HD2	35:SM:58:GLU:OE1	2.47	0.46
22:D0:23:ARG:HB2	22:D0:92:ASP:OD1	2.16	0.46
23:D1:36:VAL:O	23:D1:51:VAL:N	2.72	0.46
25:D3:103:LEU:HD22	25:D3:104:LEU:N	2.31	0.46
25:D3:23:ARG:O	25:D3:26:GLU:HB2	2.46	0.46
31:D9:31:ILE:HA	31:D9:31:ILE:HD13	1.81	0.46
39:L2:24:GLN:H	39:L2:24:GLN:HG2	2.41	0.46
40:L3:216:ASP:OD2	40:L3:341:SER:HA	2.44	0.46
40:L3:361:THR:HG23	40:L3:371:GLN:O	2.83	0.46
41:L4:10:SER:C	41:L4:12:THR:H	2.20	0.46
41:L4:198:ARG:NH1	62:N6:12:ARG:NH1	3.16	0.46
41:L4:311:HIS:NE2	41:L4:314:LYS:HA	2.40	0.46
46:L9:48:VAL:HG22	46:L9:52:LEU:O	5.34	0.46
47:M0:62:SER:OG	47:M0:63:GLU:OE2	2.63	0.46
47:M0:69:ARG:O	47:M0:73:ASN:N	2.82	0.46
49:M3:189:GLU:O	49:M3:192:GLU:HG2	2.15	0.46
50:M4:21:VAL:HG23	50:M4:65:LEU:HD23	1.98	0.46
55:M9:6:THR:O	55:M9:10:LEU:HB2	2.15	0.46
56:N0:81:TYR:CE1	56:N0:90:MET:HE3	2.51	0.46
57:N1:124:VAL:HG12	57:N1:125:ALA:O	5.40	0.46
56:N0:57:GLU:CD	57:N1:139:ARG:HE	3.90	0.46
61:N5:88:MET:SD	61:N5:118:GLY:O	3.48	0.46
61:N5:24:LEU:HD22	61:N5:25:LYS:N	4.37	0.46
67:O1:48:ASP:O	67:O1:48:ASP:CG	4.15	0.46
68:O2:102:ALA:O	68:O2:105:ARG:HB2	2.16	0.46
74:O8:39:ARG:O	74:O8:41:THR:HG22	4.03	0.46
36:1:3107:U:P	76:Q0:114:LYS:NZ	2.89	0.46
3:S1:194:ASN:OD1	3:S1:194:ASN:N	2.61	0.46
4:S2:42:GLY:HA2	4:S2:68:ILE:HD11	1.97	0.46
6:S4:104:ASP:HB2	6:S4:108:ARG:H	2.43	0.46
6:S4:191:ARG:HD3	6:S4:245:LYS:CB	2.45	0.46
1:2:271:A:N6	8:S6:185:GLN:OE1	2.37	0.46
8:S6:185:GLN:HA	8:S6:188:ARG:NH1	2.30	0.46
9:S7:141:ARG:HH22	9:S7:143:LEU:HD11	1.81	0.46
9:S7:173:TYR:CD1	9:S7:181:ILE:HD11	4.69	0.46
10:S8:33:PRO:HA	80:6:331:A:H5'	276.33	0.46
35:SM:57:ASN:HA	35:SM:60:ALA:HB3	1.98	0.46
36:1:1374:G:C5	36:1:1375:G:C8	3.03	0.46
36:1:1573:G:N1	36:1:1574:C:H1'	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2220:A:N6	36:1:2221:G:C6	2.84	0.46
36:1:2611:U:H2'	36:1:2612:U:C6	2.50	0.46
36:1:3049:A:C4	40:L3:75:ALA:HB2	2.50	0.46
36:1:306:A:C2	36:1:307:A:C8	3.04	0.46
1:2:1323:U:O4	18:C6:9:THR:HA	2.15	0.46
1:2:288:A:H2'	1:2:289:U:C6	2.51	0.46
1:2:762:U:OP2	1:2:763:A:H2	1.98	0.46
1:2:71:A:N3	1:2:81:G:C2	2.84	0.46
1:2:884:G:N2	16:C4:54:GLU:OE1	2.47	0.46
38:4:103:G:OP2	38:4:105:A:O2'	2.33	0.46
85:5:1561:G:H1	85:5:1578:C:H42	1.63	0.46
85:5:1632:A:H2'	85:5:1633:C:H6	1.81	0.46
85:5:1745:C:H2'	85:5:1746:U:H6	1.81	0.46
57:N1:49:GLN:HG2	85:5:2756:C:O4'	246.76	0.46
85:5:281:G:C6	85:5:282:G:C6	3.03	0.46
57:N1:14:MET:HG3	85:5:993:G:H5''	252.49	0.46
80:6:1196:A:H4'	80:6:1197:C:C5'	2.45	0.46
80:6:1236:A:H2'	80:6:1237:G:C8	2.50	0.46
80:6:1334:U:H2'	80:6:1335:U:O4'	2.15	0.46
80:6:1152:A:C2	80:6:1627:U:C2	3.03	0.46
80:6:1729:C:N4	80:6:1730:A:C4	2.84	0.46
80:6:518:A:O2'	80:6:534:A:N6	2.47	0.46
80:6:581:U:H6	80:6:581:U:H3'	1.80	0.46
80:6:826:U:H2'	80:6:827:C:C6	2.50	0.46
14:C2:89:ILE:O	14:C2:89:ILE:HD13	5.37	0.46
17:C5:122:THR:HG1	80:6:1455:G:P	369.29	0.46
18:C6:38:LEU:O	18:C6:40:GLU:N	2.41	0.46
19:C7:28:PHE:HA	19:C7:55:THR:HG21	3.50	0.46
20:C8:127:HIS:NE2	20:C8:133:VAL:HG21	2.31	0.46
20:C8:140:THR:OG1	20:C8:141:THR:HG23	2.51	0.46
20:C8:140:THR:HA	20:C8:143:ARG:NH1	2.67	0.46
1:2:150:U:P	26:D4:123:LYS:HZ3	2.39	0.46
33:E1:136:LYS:O	33:E1:138:ARG:N	2.97	0.46
40:L3:292:ALA:O	40:L3:293:ASN:C	2.93	0.46
40:L3:50:LYS:HG2	40:L3:332:ARG:HA	1.98	0.46
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.31	0.46
41:L4:42:VAL:C	41:L4:44:LYS:H	2.51	0.46
41:L4:69:ARG:O	41:L4:71:VAL:HG23	4.89	0.46
41:L4:94:CYS:O	41:L4:95:ARG:C	2.52	0.46
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.56	0.46
42:L5:163:LEU:O	42:L5:164:LYS:C	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:342:LYS:NZ	44:L7:56:GLU:OE2	2.33	0.46
45:L8:122:LYS:C	45:L8:124:ASP:H	2.72	0.46
45:L8:142:LEU:O	45:L8:143:ILE:C	2.53	0.46
46:L9:67:ALA:HA	46:L9:70:THR:HG23	1.97	0.46
47:M0:74:LYS:C	47:M0:76:MET:H	3.67	0.46
47:M0:77:THR:C	47:M0:79:VAL:H	2.19	0.46
47:M0:98:ARG:NE	47:M0:119:TRP:CZ3	2.83	0.46
51:M5:191:TRP:O	51:M5:192:LYS:C	2.53	0.46
51:M5:193:ARG:C	51:M5:195:ASN:N	2.98	0.46
51:M5:38:ARG:HA	51:M5:62:TYR:CD1	2.66	0.46
52:M6:14:HIS:O	52:M6:41:LEU:HD12	2.36	0.46
53:M7:27:LYS:O	53:M7:30:ARG:HB3	3.01	0.46
54:M8:12:ARG:HA	85:5:1342:C:O3'	190.97	0.46
54:M8:161:LYS:O	54:M8:162:ALA:CB	2.58	0.46
54:M8:98:LYS:HE2	54:M8:119:GLY:HA2	3.64	0.46
55:M9:159:ALA:HB1	55:M9:163:ARG:HH12	9.01	0.46
55:M9:81:ARG:HG2	55:M9:88:ARG:CZ	2.46	0.46
59:N3:86:ARG:HD2	59:N3:92:PHE:CZ	2.50	0.46
61:N5:53:HIS:ND1	61:N5:54:TYR:O	2.83	0.46
62:N6:103:LYS:HE2	85:5:221:A:H61	78.90	0.46
63:N7:80:LEU:HD23	63:N7:80:LEU:HA	2.19	0.46
54:M8:170:ARG:NH1	64:N8:56:VAL:O	3.62	0.46
64:N8:96:LYS:O	64:N8:98:THR:N	2.49	0.46
66:O0:54:SER:HA	66:O0:57:GLU:OE2	3.46	0.46
36:1:3059:G:H5'	67:O1:17:HIS:CE1	2.50	0.46
68:O2:77:ALA:HB3	68:O2:81:ASP:OD2	3.16	0.46
72:O6:79:SER:CB	72:O6:82:ARG:HG3	3.32	0.46
85:5:2405:C:O2'	98:P:101:8AN:N3'	211.73	0.46
92:Q2:502:OHX:N2	85:5:45:A:OP1	156.71	0.46
2:S0:179:ARG:HH11	2:S0:183:ARG:CZ	2.48	0.46
2:S0:203:PHE:HB3	2:S0:204:TYR:H	2.19	0.46
2:S0:66:ALA:HB2	23:D1:37:ALA:HB2	2.62	0.46
3:S1:131:ASP:O	3:S1:133:TYR:N	2.49	0.46
4:S2:69:ILE:HD11	4:S2:133:LYS:HB3	1.97	0.46
5:S3:173:ARG:HB2	5:S3:184:ILE:HB	2.45	0.46
5:S3:168:ILE:HD12	5:S3:187:LYS:HD3	6.43	0.46
5:S3:191:ASP:OD2	5:S3:194:LYS:HE3	6.32	0.46
6:S4:195:ILE:HG22	6:S4:196:VAL:H	3.39	0.46
9:S7:142:TYR:O	24:D2:49:GLU:HB2	3.63	0.46
11:S9:51:LYS:O	11:S9:54:ARG:HB3	2.15	0.46
36:1:1105:A:C2	36:1:1106:G:C4	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1787:A:C5	36:1:1788:C:C6	3.03	0.46
36:1:2254:U:H2'	36:1:2261:G:N2	2.30	0.46
36:1:3009:G:C5	36:1:3010:U:C5	3.03	0.46
92:1:3603:OHX:N1	92:1:3714:OHX:N2	2.64	0.46
36:1:439:C:C5	36:1:440:A:C6	3.03	0.46
36:1:590:G:C2	36:1:610:G:H2'	2.50	0.46
36:1:829:U:H3	36:1:895:A:H62	1.62	0.46
1:2:1383:A:C6	1:2:1384:A:C6	3.04	0.46
1:2:243:G:N3	1:2:251:A:C2	2.84	0.46
1:2:362:G:C6	1:2:383:G:C6	3.04	0.46
1:2:38:C:H2'	1:2:39:A:H5'	1.96	0.46
1:2:399:A:C6	1:2:401:A:C6	3.04	0.46
1:2:61:A:H8	1:2:269:G:HO2'	1.64	0.46
1:2:889:A:C6	1:2:890:A:C6	3.04	0.46
37:3:28:C:N4	37:3:29:C:C2	2.84	0.46
92:4:217:OHX:N6	92:4:218:OHX:N2	2.63	0.46
85:5:1107:C:H2'	85:5:1108:U:H6	1.81	0.46
85:5:1491:A:H2'	85:5:1492:G:O4'	2.16	0.46
85:5:207:U:H2'	85:5:208:C:H6	1.80	0.46
85:5:2278:C:H2'	85:5:2279:A:H5''	1.97	0.46
85:5:251:G:C6	85:5:253:A:N6	2.84	0.46
85:5:2611:U:H2'	85:5:2612:U:C6	2.51	0.46
85:5:301:G:H2'	85:5:302:U:H6	1.80	0.46
85:5:3163:A:O2'	85:5:3164:C:H5'	2.15	0.46
85:5:659:G:N1	85:5:1432:C:O2	2.49	0.46
64:N8:55:LYS:HE3	85:5:93:C:C2	162.26	0.46
35:SM:83:LYS:NZ	80:6:1190:C:N3	341.52	0.46
10:S8:138:ASN:HD22	80:6:197:A:N6	278.55	0.46
80:6:700:C:H2'	80:6:701:U:C6	2.51	0.46
80:6:709:C:O2	80:6:730:G:C2	2.69	0.46
80:6:720:G:H4'	80:6:721:U:O5'	2.16	0.46
12:C0:34:GLU:O	12:C0:35:ILE:HB	4.70	0.46
14:C2:60:VAL:HG22	14:C2:122:VAL:HG22	2.64	0.46
18:C6:82:ARG:NH2	18:C6:116:LEU:HD21	2.30	0.46
20:C8:49:LYS:HE3	20:C8:80:LYS:O	4.67	0.46
23:D1:12:TYR:CE2	23:D1:14:PRO:HG3	2.51	0.46
23:D1:72:LEU:HD23	23:D1:72:LEU:HA	1.79	0.46
24:D2:89:TRP:O	24:D2:93:LEU:HD22	2.15	0.46
25:D3:33:LEU:HD23	25:D3:33:LEU:HA	1.47	0.46
28:D6:34:LYS:HB3	28:D6:35:ALA:H	3.57	0.46
1:2:1182:G:P	31:D9:40:ARG:HH21	2.39	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:187:HIS:ND1	39:L2:190:ARG:NH1	4.66	0.46
40:L3:183:LEU:HD12	40:L3:183:LEU:HA	1.72	0.46
40:L3:221:THR:HG22	40:L3:222:LYS:O	2.16	0.46
40:L3:358:TRP:CH2	40:L3:360:ASP:HB2	2.65	0.46
41:L4:10:SER:O	41:L4:12:THR:N	2.64	0.46
41:L4:209:TYR:C	41:L4:254:ALA:HB2	3.01	0.46
41:L4:208:VAL:HG12	41:L4:230:VAL:HG13	2.39	0.46
41:L4:301:PRO:O	41:L4:302:ALA:HB3	4.64	0.46
41:L4:361:HIS:O	56:N0:28:ARG:NH2	2.44	0.46
42:L5:233:ALA:O	42:L5:236:LEU:HB2	2.95	0.46
42:L5:56:THR:OG1	42:L5:59:ASP:N	2.48	0.46
42:L5:86:TYR:CD1	42:L5:247:ILE:HG12	3.23	0.46
44:L7:47:ARG:O	44:L7:50:ALA:N	2.48	0.46
36:1:2836:C:H6	47:M0:158:LYS:HZ3	1.60	0.46
47:M0:45:GLU:HG2	47:M0:46:PHE:CE1	2.51	0.46
48:M1:110:ILE:HG22	48:M1:115:LYS:O	2.15	0.46
48:M1:91:LEU:HD12	48:M1:163:PHE:CZ	2.50	0.46
50:M4:21:VAL:HG21	50:M4:65:LEU:HD23	1.96	0.46
52:M6:55:HIS:O	52:M6:58:LEU:N	2.46	0.46
53:M7:29:THR:HA	53:M7:32:THR:CG2	2.33	0.46
53:M7:69:ARG:HD3	85:5:3308:C:O2	185.38	0.46
55:M9:42:ARG:HB2	55:M9:42:ARG:HE	1.55	0.46
58:N2:50:LEU:N	58:N2:50:LEU:HD23	2.31	0.46
59:N3:45:ARG:HG3	59:N3:46:LEU:N	3.27	0.46
62:N6:100:HIS:O	62:N6:101:PRO:C	2.54	0.46
62:N6:50:ILE:CD1	62:N6:70:ILE:HG13	4.38	0.46
63:N7:15:ARG:O	63:N7:19:ALA:HB2	2.15	0.46
67:O1:10:ARG:HH12	67:O1:44:MET:CG	4.37	0.46
67:O1:11:GLU:HG2	67:O1:74:ARG:HB2	1.97	0.46
67:O1:14:ILE:HD13	67:O1:14:ILE:HG21	2.27	0.46
68:O2:17:PHE:CD1	68:O2:53:PRO:HD3	2.51	0.46
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	1.96	0.46
75:O9:49:MET:O	75:O9:50:ASN:HB2	2.22	0.46
79:Q3:45:LYS:HE3	79:Q3:45:LYS:HB2	1.71	0.46
2:S0:140:ASN:HD21	4:S2:60:SER:HB2	2.73	0.46
2:S0:30:GLN:NE2	2:S0:32:HIS:HB2	7.13	0.46
3:S1:55:LYS:HD3	3:S1:55:LYS:HA	2.26	0.46
5:S3:209:ILE:HA	5:S3:209:ILE:HD12	1.87	0.46
6:S4:206:ASP:HB2	6:S4:222:LEU:HD12	1.97	0.46
7:S5:61:TYR:CE2	7:S5:164:PRO:HG2	3.49	0.46
9:S7:49:ILE:HD12	9:S7:172:VAL:HA	2.12	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:171:SER:OG	10:S8:180:ASP:N	2.49	0.46
14:C2:55:GLY:N	35:SM:172:UNK:O	2.33	0.46
35:SM:31:SER:HA	36:1:2666:C:H4'	1.97	0.46
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.34	0.46
34:SR:43:ILE:HD13	34:SR:60:SER:HA	2.26	0.46
34:SR:78:ALA:O	34:SR:94:VAL:HG23	2.55	0.46
36:1:1409:G:N7	92:1:3599:OHX:N3	2.64	0.46
36:1:1596:C:H2'	36:1:1597:C:C6	2.50	0.46
36:1:2515:A:H61	36:1:2594:C:N4	2.13	0.46
36:1:2601:A:H2'	36:1:2602:G:C8	2.51	0.46
36:1:2729:U:H2'	36:1:2730:G:O4'	2.16	0.46
36:1:2743:A:H2'	36:1:2744:U:O4'	2.15	0.46
36:1:286:U:H2'	36:1:287:G:C8	2.51	0.46
36:1:3049:A:H2'	36:1:3050:U:O4'	2.16	0.46
36:1:3099:C:O2'	36:1:3100:U:H5'	2.16	0.46
36:1:3248:C:O5'	36:1:3248:C:H6	1.98	0.46
36:1:371:G:H4'	36:1:396:A:N1	2.31	0.46
36:1:527:A:N3	36:1:566:G:C2	2.83	0.46
36:1:956:U:H6	36:1:956:U:O5'	1.98	0.46
1:2:1141:C:N4	1:2:1146:A:H61	2.12	0.46
1:2:1219:A:H2'	1:2:1220:G:H8	1.80	0.46
1:2:1612:G:C6	1:2:1613:U:C4	3.04	0.46
1:2:1639:U:H5''	1:2:1640:U:O5'	2.15	0.46
1:2:142:G:C5	1:2:266:A:C6	3.03	0.46
1:2:342:C:N4	1:2:343:C:N4	2.64	0.46
1:2:325:G:C6	1:2:344:A:C6	3.03	0.46
1:2:375:U:H2'	1:2:376:C:H6	1.81	0.46
1:2:453:U:C6	1:2:453:U:O5'	2.68	0.46
1:2:528:U:H2'	1:2:529:A:C8	2.51	0.46
1:2:514:G:N1	1:2:543:C:H5	2.12	0.46
1:2:592:A:O2'	1:2:596:C:OP1	2.29	0.46
1:2:727:U:N3	1:2:791:U:O2	2.49	0.46
1:2:901:U:O3'	16:C4:18:ARG:NH1	2.49	0.46
37:3:61:G:H2'	37:3:62:U:C6	2.49	0.46
36:1:407:A:C4	38:4:17:A:H1'	2.50	0.46
36:1:346:C:H1'	38:4:26:U:OP1	2.15	0.46
38:4:89:A:H8	38:4:89:A:O5'	1.99	0.46
85:5:1611:G:H2'	85:5:1612:A:H8	1.81	0.46
85:5:166:C:H2'	85:5:167:U:H6	1.81	0.46
85:5:2215:A:H8	85:5:2215:A:O5'	1.98	0.46
85:5:2429:G:C2	85:5:2601:A:C2	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2590:A:N1	85:5:2591:A:C5	2.84	0.46
85:5:2694:A:C6	85:5:2695:A:C6	3.04	0.46
64:N8:60:TYR:CZ	85:5:2777:G:N3	137.24	0.46
85:5:2962:U:OP1	92:5:3702:OHX:N1	2.47	0.46
85:5:3059:G:C6	85:5:3060:C:C4	3.04	0.46
85:5:3320:A:H2'	85:5:3321:C:C6	2.51	0.46
85:5:712:G:H2'	85:5:713:U:H6	1.74	0.46
85:5:737:G:C2	85:5:738:A:C5	3.04	0.46
80:6:1001:A:C6	80:6:1002:G:C6	3.03	0.46
80:6:1081:A:H1'	80:6:1082:C:H5	1.81	0.46
80:6:381:C:H2'	80:6:382:C:H6	1.81	0.46
80:6:389:G:C6	80:6:390:G:C5	3.04	0.46
37:7:61:G:H2'	37:7:62:U:C6	2.50	0.46
12:C0:8:ARG:HG2	12:C0:79:TYR:OH	2.16	0.46
13:C1:17:PRO:HB2	13:C1:18:HIS:HD2	6.17	0.46
14:C2:59:LEU:HD23	14:C2:60:VAL:N	2.31	0.46
17:C5:69:GLU:OE1	17:C5:70:ASN:N	4.91	0.46
17:C5:92:SER:HB2	17:C5:107:ILE:HD11	5.83	0.46
19:C7:84:TYR:C	19:C7:85:VAL:HG13	2.36	0.46
22:D0:72:ASN:HA	80:6:1198:G:O2'	386.13	0.46
26:D4:53:ASP:O	26:D4:79:VAL:HG22	2.72	0.46
26:D4:20:ARG:HD2	26:D4:74:LEU:HD22	2.35	0.46
32:E0:38:LEU:HD23	32:E0:42:ARG:HG3	1.98	0.46
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.96	0.46
40:L3:75:ALA:HB2	85:5:3049:A:C2	244.82	0.46
41:L4:141:ARG:CD	41:L4:141:ARG:N	2.75	0.46
41:L4:6:VAL:O	41:L4:20:LEU:N	2.47	0.46
42:L5:76:ALA:CB	42:L5:109:THR:HG22	2.45	0.46
43:L6:157:GLN:O	43:L6:160:SER:N	2.39	0.46
43:L6:30:LEU:HD13	43:L6:34:LEU:HD13	1.98	0.46
51:M5:166:ALA:O	51:M5:169:LYS:N	2.49	0.46
51:M5:8:GLU:HG2	51:M5:9:GLU:N	2.31	0.46
53:M7:4:TYR:HA	53:M7:18:ARG:NH2	2.31	0.46
54:M8:110:ALA:O	54:M8:114:ILE:HG13	3.01	0.46
54:M8:62:VAL:HB	54:M8:83:VAL:HG11	2.61	0.46
36:1:1874:A:H5''	55:M9:18:GLY:HA3	1.96	0.46
56:N0:106:LEU:HD22	56:N0:123:ILE:HD11	1.97	0.46
56:N0:16:THR:O	56:N0:19:VAL:N	3.56	0.46
59:N3:28:ASN:OD1	59:N3:28:ASN:N	2.80	0.46
60:N4:31:PHE:HZ	60:N4:40:PHE:CD1	2.44	0.46
61:N5:64:GLU:OE1	61:N5:85:GLN:NE2	3.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:50:ILE:HD11	62:N6:70:ILE:HG13	4.18	0.46
63:N7:46:ILE:CD1	63:N7:68:ILE:HG23	2.42	0.46
63:N7:88:ASP:HB3	63:N7:121:ARG:HH21	1.80	0.46
67:O1:12:TYR:O	67:O1:72:ARG:HD2	2.16	0.46
69:O3:39:GLN:O	69:O3:41:ALA:N	2.49	0.46
69:O3:93:THR:O	69:O3:96:ALA:CB	3.00	0.46
2:S0:131:GLN:O	2:S0:135:GLU:HB2	2.15	0.46
2:S0:75:ALA:HB1	2:S0:86:VAL:HG12	1.98	0.46
3:S1:231:LEU:HD13	3:S1:232:HIS:N	6.21	0.46
6:S4:250:GLU:HA	6:S4:253:ASP:OD2	3.68	0.46
7:S5:93:LEU:HD23	7:S5:172:ILE:HG23	2.68	0.46
8:S6:31:ARG:HA	8:S6:100:ALA:O	2.76	0.46
10:S8:87:ASN:OD1	10:S8:88:ASN:N	2.49	0.46
10:S8:89:GLU:HA	10:S8:92:ARG:CZ	4.84	0.46
34:SR:249:ARG:HD3	34:SR:251:TRP:CE2	2.51	0.46
36:1:2167:A:C6	36:1:2168:A:C6	3.04	0.46
36:1:246:U:H2'	36:1:247:C:C6	2.50	0.46
36:1:3071:U:C4	36:1:3072:C:C4	3.04	0.46
36:1:3216:G:O6	36:1:3259:U:H2'	2.16	0.46
36:1:3298:C:C2	36:1:3299:A:C8	3.03	0.46
36:1:535:G:O2'	36:1:554:A:N1	2.34	0.46
1:2:960:A:C2	1:2:1008:A:C2	3.04	0.46
1:2:1099:A:C2'	1:2:1100:U:H5'	2.45	0.46
1:2:1348:C:C4	1:2:1349:U:C5	3.04	0.46
1:2:86:A:N3	1:2:147:A:H2	2.14	0.46
1:2:472:U:H2'	1:2:473:A:C8	2.50	0.46
1:2:957:A:C2	1:2:958:C:C2	3.03	0.46
37:3:121:U:OP2	42:L5:265:TYR:OH	2.13	0.46
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.16	0.46
37:3:57:G:C8	37:3:58:C:C6	3.04	0.46
38:4:152:G:H2'	38:4:153:U:O4'	2.16	0.46
85:5:1106:G:H2'	85:5:1107:C:O4'	2.16	0.46
52:M6:60:LYS:NZ	85:5:1307:G:N3	249.16	0.46
85:5:1348:U:H5'	85:5:1349:G:OP1	2.16	0.46
85:5:172:G:H2'	85:5:172:G:N3	2.31	0.46
85:5:2294:U:O2	85:5:2296:A:C8	2.69	0.46
85:5:2533:G:C5	92:5:3541:OHX:N2	2.84	0.46
85:5:2582:C:OP1	92:5:3627:OHX:N3	2.49	0.46
85:5:995:U:H1'	85:5:2637:A:H5'	1.97	0.46
78:Q2:19:LYS:HA	85:5:2741:C:H4'	208.09	0.46
85:5:3016:A:H2'	85:5:3017:A:H8	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3385:U:H2'	85:5:3386:G:H8	1.81	0.46
92:5:3576:OHX:N1	92:5:3634:OHX:N4	2.63	0.46
85:5:752:C:C2	85:5:753:C:C5	3.04	0.46
80:6:1040:G:N2	80:6:1078:C:O2	2.29	0.46
80:6:1392:U:H2'	80:6:1393:C:C6	2.51	0.46
80:6:1584:G:O2'	80:6:1610:G:O6	2.29	0.46
80:6:168:A:N1	80:6:169:A:C6	2.84	0.46
92:6:1978:OHX:N6	92:6:2001:OHX:N4	2.64	0.46
80:6:42:G:O6	92:6:2052:OHX:N5	2.48	0.46
80:6:422:G:O2'	80:6:423:G:H5'	2.16	0.46
80:6:687:G:C2	80:6:688:G:C8	3.04	0.46
80:6:817:A:H2'	80:6:818:C:O4'	2.15	0.46
80:6:869:A:H2'	80:6:870:C:O4'	2.15	0.46
80:6:956:C:N4	80:6:957:G:O6	2.49	0.46
12:C0:46:LEU:HB3	12:C0:66:TYR:CE1	2.50	0.46
1:2:346:G:H5'	13:C1:79:LYS:HE2	1.98	0.46
13:C1:99:ARG:HD3	25:D3:8:GLY:O	2.68	0.46
14:C2:54:ARG:HD3	14:C2:56:GLU:CD	2.36	0.46
17:C5:10:ARG:O	17:C5:12:PHE:HB2	5.16	0.46
22:D0:69:LYS:HE3	22:D0:80:GLU:HG3	4.97	0.46
24:D2:86:ILE:HG13	24:D2:86:ILE:H	1.48	0.46
25:D3:30:LYS:O	25:D3:34:LEU:HG	2.16	0.46
26:D4:15:ASN:HD22	26:D4:22:GLN:NE2	3.19	0.46
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.81	0.46
28:D6:10:ARG:CZ	28:D6:35:ALA:O	2.64	0.46
25:D3:90:ASP:OD2	32:E0:12:GLY:HA2	2.15	0.46
33:E1:134:ASN:HA	33:E1:138:ARG:O	2.15	0.46
39:L2:132:ASN:HD22	39:L2:151:PRO:HB3	1.79	0.46
41:L4:198:ARG:CZ	62:N6:12:ARG:HH12	3.72	0.46
44:L7:129:LEU:HD23	44:L7:129:LEU:O	2.16	0.46
44:L7:158:LYS:HG2	44:L7:159:GLN:N	2.30	0.46
44:L7:203:TRP:CG	44:L7:204:PRO:HD2	2.71	0.46
45:L8:147:LYS:HE2	45:L8:147:LYS:HB3	1.83	0.46
45:L8:73:PRO:HD3	45:L8:233:TRP:CE2	2.51	0.46
46:L9:166:ARG:O	46:L9:167:VAL:C	3.56	0.46
47:M0:51:HIS:HB3	47:M0:134:ILE:HG23	1.97	0.46
48:M1:108:GLU:HA	48:M1:122:ILE:CG2	2.46	0.46
48:M1:59:ILE:HD12	48:M1:65:ILE:HD11	1.98	0.46
51:M5:24:ARG:NH1	51:M5:24:ARG:HG2	4.27	0.46
52:M6:65:ASN:C	52:M6:67:THR:H	2.26	0.46
53:M7:87:SER:O	53:M7:88:VAL:C	2.65	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:175:ALA:O	54:M8:176:ARG:C	2.52	0.46
55:M9:84:THR:O	55:M9:88:ARG:HG2	4.06	0.46
55:M9:92:GLN:HG3	85:5:856:G:OP2	220.61	0.46
62:N6:111:LEU:HD23	62:N6:111:LEU:HA	1.65	0.46
62:N6:57:LEU:HD23	62:N6:66:GLN:O	2.31	0.46
63:N7:33:SER:HB2	63:N7:40:HIS:CE1	2.51	0.46
63:N7:54:THR:HG23	63:N7:57:HIS:H	1.81	0.46
68:O2:5:PRO:O	68:O2:6:HIS:ND1	5.76	0.46
69:O3:39:GLN:C	69:O3:41:ALA:H	2.20	0.46
78:Q2:38:GLN:O	78:Q2:39:GLY:C	2.54	0.46
78:Q2:40:LYS:HG3	78:Q2:44:ASP:OD2	3.01	0.46
5:S3:137:VAL:HG22	5:S3:151:LYS:HE2	1.98	0.46
6:S4:252:ARG:HA	6:S4:255:ARG:HG2	6.91	0.46
8:S6:139:ASN:O	8:S6:143:LYS:N	2.48	0.46
8:S6:56:ASN:H	8:S6:108:VAL:HG23	4.94	0.46
9:S7:67:LEU:HD23	9:S7:67:LEU:HA	1.66	0.46
11:S9:168:ARG:NH1	11:S9:171:ARG:HD3	5.70	0.46
11:S9:7:THR:OG1	11:S9:8:TYR:N	3.54	0.46
34:SR:214:ALA:HB2	34:SR:220:ILE:HG12	1.98	0.46
34:SR:49:GLY:HA2	34:SR:54:PHE:HA	1.97	0.46
34:SR:7:LEU:HD11	34:SR:251:TRP:CZ3	2.51	0.46
36:1:1020:G:O6	36:1:1032:C:N4	2.32	0.46
36:1:1047:A:C6	36:1:1048:A:C6	3.03	0.46
36:1:1508:C:C6	36:1:1880:U:H1'	2.51	0.46
36:1:1643:A:H2'	36:1:1644:C:C2	2.50	0.46
36:1:198:A:C2	36:1:219:A:C2	3.04	0.46
36:1:2186:U:H5'	36:1:2314:U:OP2	2.16	0.46
36:1:2249:G:H3'	36:1:2249:G:C8	2.51	0.46
36:1:2631:U:O4	36:1:2648:G:C6	2.69	0.46
36:1:2940:A:N6	36:1:2943:G:C5	2.84	0.46
36:1:3176:G:N2	36:1:3213:A:H1'	2.31	0.46
36:1:3269:U:H4'	36:1:3270:U:O5'	2.16	0.46
92:1:3590:OHX:N5	92:3:204:OHX:N6	2.64	0.46
36:1:728:G:OP1	92:1:3635:OHX:N5	2.49	0.46
36:1:507:U:H2'	36:1:508:U:C6	2.51	0.46
36:1:551:A:C2	36:1:552:G:C4	3.04	0.46
36:1:646:A:H2'	36:1:647:A:O4'	2.16	0.46
36:1:761:A:C5	36:1:762:U:C5	3.04	0.46
36:1:77:A:H5'	49:M3:100:ARG:NH1	2.31	0.46
36:1:867:G:C6	36:1:868:C:C4	3.04	0.46
1:2:1061:C:H2'	1:2:1062:U:C6	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1181:G:C2	1:2:1183:G:C6	3.04	0.46
1:2:187:G:OP2	10:S8:142:LYS:NZ	2.45	0.46
36:1:406:G:N2	38:4:16:G:C4	2.84	0.46
85:5:100:A:O2'	85:5:101:G:H5'	2.16	0.46
85:5:1252:A:C5	85:5:1253:U:C5	3.04	0.46
85:5:2101:C:O2'	85:5:2102:U:P	2.74	0.46
85:5:2228:A:H2'	85:5:2229:A:C8	2.51	0.46
40:L3:260:VAL:HG12	85:5:2394:G:C4	212.12	0.46
85:5:2647:A:C2'	85:5:2648:G:O5'	2.62	0.46
85:5:2655:U:H4'	85:5:2656:A:O4'	2.15	0.46
39:L2:215:ASN:HB2	85:5:2968:G:N7	216.39	0.46
85:5:3189:G:H2'	85:5:3190:C:H6	1.81	0.46
85:5:3207:U:H3'	85:5:3209:A:C2	2.48	0.46
85:5:3299:A:N6	85:5:3315:G:H1	2.11	0.46
92:5:3555:OHX:N3	92:5:3703:OHX:N4	2.65	0.46
85:5:556:U:C5	85:5:560:G:O6	2.69	0.46
85:5:765:C:H4'	85:5:766:U:OP2	2.16	0.46
80:6:1196:A:H1'	80:6:1602:C:O2'	2.15	0.46
80:6:149:C:H2'	80:6:150:U:C6	2.51	0.46
80:6:1533:C:H4'	80:6:1539:G:C6	2.51	0.46
10:S8:59:ARG:NH2	80:6:1678:A:OP1	253.27	0.46
80:6:992:A:OP1	92:6:1908:OHX:N5	2.48	0.46
80:6:289:U:C2	80:6:290:G:C8	3.04	0.46
80:6:489:C:O2'	80:6:490:C:O4'	2.31	0.46
37:7:23:A:H2'	37:7:24:A:C8	2.51	0.46
15:C3:64:ARG:HG3	15:C3:70:LYS:HD2	5.28	0.46
25:D3:65:ASN:ND2	80:6:575:C:H41	364.07	0.46
29:D7:64:CYS:HB2	29:D7:71:ALA:HB1	1.97	0.46
40:L3:116:ARG:NH1	40:L3:122:TRP:CD1	3.04	0.46
41:L4:302:ALA:HB2	54:M8:39:ARG:NH1	2.29	0.46
41:L4:309:ARG:HH22	41:L4:312:VAL:HB	1.80	0.46
42:L5:240:TYR:O	42:L5:243:ALA:N	2.77	0.46
44:L7:77:VAL:HG23	44:L7:77:VAL:O	2.15	0.46
45:L8:94:PHE:HE1	45:L8:150:LEU:HD12	2.40	0.46
46:L9:109:ALA:O	46:L9:110:LYS:HB2	2.41	0.46
47:M0:148:VAL:O	47:M0:149:VAL:C	2.69	0.46
50:M4:17:VAL:HG12	50:M4:72:LEU:HB3	1.97	0.46
51:M5:101:THR:HG22	51:M5:105:ARG:HE	2.82	0.46
51:M5:168:GLY:O	51:M5:171:SER:N	3.23	0.46
52:M6:136:THR:HG22	52:M6:137:THR:N	2.60	0.46
52:M6:41:LEU:HD23	52:M6:138:LEU:HD22	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:46:GLU:O	52:M6:47:PHE:C	2.68	0.46
53:M7:47:TYR:HD1	53:M7:56:ARG:NH2	2.14	0.46
54:M8:13:SER:O	54:M8:15:HIS:N	3.51	0.46
57:N1:136:ARG:HG2	57:N1:136:ARG:H	1.50	0.46
59:N3:80:ARG:NE	59:N3:97:ASP:OD2	2.37	0.46
60:N4:54:LEU:HD13	60:N4:54:LEU:HA	4.03	0.46
61:N5:105:VAL:CG1	61:N5:126:LEU:HD22	2.37	0.46
63:N7:135:ARG:HH11	85:5:1807:G:H5'	194.17	0.46
63:N7:48:ARG:HB3	63:N7:69:LYS:HB3	1.98	0.46
68:O2:115:LEU:HA	68:O2:115:LEU:HD23	2.33	0.46
69:O3:39:GLN:C	69:O3:41:ALA:N	2.68	0.46
74:O8:31:LEU:HD23	74:O8:31:LEU:H	1.80	0.46
75:O9:43:ASN:OD1	75:O9:44:TRP:N	2.49	0.46
78:Q2:44:ASP:O	78:Q2:45:ARG:C	2.55	0.46
79:Q3:89:MET:O	79:Q3:91:GLU:N	4.72	0.46
7:S5:109:LYS:HG3	27:D5:97:LYS:NZ	6.99	0.46
7:S5:72:HIS:CD2	7:S5:107:LYS:HD3	3.33	0.46
9:S7:173:TYR:CE2	9:S7:177:THR:HG21	2.50	0.46
34:SR:146:GLY:HA3	34:SR:181:TRP:HH2	1.80	0.46
34:SR:297:ASP:O	34:SR:299:GLN:N	2.75	0.46
36:1:1439:U:H2'	36:1:1440:G:H8	1.81	0.45
36:1:1660:C:H2'	36:1:1661:G:H8	1.81	0.45
36:1:1706:C:H41	36:1:1738:C:H42	1.63	0.45
36:1:183:G:C2	36:1:184:U:C2	3.04	0.45
36:1:2223:A:C6	36:1:2224:A:C6	3.05	0.45
36:1:2707:C:H2'	36:1:2708:C:H6	1.81	0.45
36:1:39:A:C8	36:1:41:G:OP1	2.69	0.45
36:1:438:A:H2'	36:1:439:C:O4'	2.16	0.45
36:1:915:A:H2'	36:1:915:A:N3	2.30	0.45
1:2:1029:G:OP1	3:S1:157:GLN:NE2	2.47	0.45
1:2:1162:G:C5	1:2:1163:C:C4	3.04	0.45
1:2:1456:U:O4	7:S5:97:LEU:O	2.34	0.45
1:2:1458:A:H2'	1:2:1459:C:C6	2.51	0.45
1:2:1477:C:O2'	1:2:1478:C:H5'	2.17	0.45
1:2:1625:G:O3'	77:Q1:9:ARG:NH2	2.49	0.45
1:2:836:G:N7	55:M9:173:ARG:NH2	2.64	0.45
1:2:900:U:HO2'	16:C4:29:HIS:CE1	2.31	0.45
37:3:19:C:H2'	37:3:20:A:H8	1.81	0.45
85:5:118:U:H2'	85:5:119:U:H5'	1.99	0.45
85:5:1939:G:C6	85:5:2110:G:O6	2.69	0.45
85:5:2420:C:C4	85:5:2421:U:C4	3.03	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2527:G:N2	85:5:2584:G:C4	2.84	0.45
85:5:1901:A:O3'	85:5:2918:G:H5'	2.16	0.45
85:5:3282:U:H5'	85:5:3283:U:OP2	2.16	0.45
80:6:1297:G:N2	80:6:1300:A:OP2	2.44	0.45
80:6:1151:A:H4'	80:6:1766:A:C5	2.51	0.45
80:6:225:A:N1	80:6:226:A:N6	2.63	0.45
80:6:838:G:C6	80:6:839:U:C4	3.04	0.45
80:6:634:G:C4	80:6:966:A:C2	3.04	0.45
37:7:33:U:H6	37:7:33:U:O5'	1.99	0.45
38:8:120:C:H2'	38:8:121:U:H6	1.81	0.45
38:8:1:A:C4	38:8:2:A:C8	3.05	0.45
13:C1:127:GLN:HB2	13:C1:137:PHE:CE1	3.23	0.45
13:C1:5:LEU:O	13:C1:7:VAL:N	2.38	0.45
15:C3:12:SER:HG	80:6:956:C:H5	331.74	0.45
19:C7:31:ASN:H	19:C7:31:ASN:ND2	3.89	0.45
20:C8:14:ILE:HA	20:C8:22:VAL:O	2.15	0.45
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.98	0.45
7:S5:187:ILE:HG22	27:D5:63:SER:HB3	1.96	0.45
39:L2:213:GLY:HA3	85:5:2967:A:H5''	204.87	0.45
39:L2:226:SER:O	39:L2:229:ALA:N	2.98	0.45
40:L3:107:ALA:HA	40:L3:199:PHE:HD2	2.14	0.45
41:L4:156:LEU:O	41:L4:158:SER:N	2.92	0.45
37:3:11:A:N6	42:L5:13:SER:O	2.44	0.45
37:3:10:C:N3	42:L5:20:PHE:HB3	2.32	0.45
42:L5:292:ALA:O	42:L5:294:ALA:N	2.48	0.45
43:L6:155:LEU:HA	43:L6:155:LEU:HD23	1.58	0.45
44:L7:200:ASN:OD1	44:L7:200:ASN:O	2.34	0.45
45:L8:108:ARG:NH1	85:5:121:A:C5	95.99	0.45
45:L8:175:VAL:HG13	45:L8:176:PRO:HD2	1.98	0.45
45:L8:42:PRO:HG2	45:L8:44:ARG:NE	4.23	0.45
47:M0:68:ALA:HA	47:M0:158:LYS:HG3	1.98	0.45
48:M1:19:LEU:HA	48:M1:126:ASP:O	2.35	0.45
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.97	0.45
48:M1:85:LYS:HE3	48:M1:85:LYS:HB2	1.74	0.45
50:M4:58:ILE:O	50:M4:58:ILE:HG23	2.16	0.45
51:M5:122:ASN:O	51:M5:129:TYR:HB2	2.57	0.45
51:M5:160:GLU:HG2	51:M5:161:ALA:N	2.30	0.45
51:M5:38:ARG:HG3	51:M5:39:ALA:N	4.69	0.45
51:M5:96:ARG:CG	51:M5:96:ARG:HH11	3.81	0.45
53:M7:62:ARG:O	53:M7:64:ASN:N	2.57	0.45
57:N1:42:ILE:HD12	57:N1:60:LYS:O	3.10	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:39:ASP:OD2	58:N2:39:ASP:N	2.49	0.45
59:N3:74:MET:HE2	59:N3:74:MET:HB3	4.53	0.45
59:N3:84:SER:HA	59:N3:94:TYR:HB3	2.12	0.45
63:N7:87:LEU:HD13	63:N7:127:ASN:CG	2.37	0.45
64:N8:28:HIS:CE1	64:N8:32:ARG:CZ	2.99	0.45
36:1:1076:C:O3'	65:N9:38:LYS:NZ	2.49	0.45
67:O1:11:GLU:HG3	67:O1:109:VAL:HG21	2.59	0.45
69:O3:85:PHE:O	92:O3:201:OHX:N2	3.86	0.45
51:M5:2:GLY:N	72:O6:36:ARG:HH22	3.88	0.45
76:Q0:101:ALA:O	76:Q0:103:LEU:HG	2.60	0.45
76:Q0:99:CYS:HB2	76:Q0:114:LYS:HD3	1.97	0.45
2:S0:163:ASN:O	2:S0:165:ARG:HD3	6.42	0.45
2:S0:185:ARG:HG2	23:D1:45:ALA:O	5.24	0.45
3:S1:214:LYS:HG2	3:S1:215:VAL:N	3.48	0.45
6:S4:139:VAL:HB	6:S4:150:PRO:HG3	1.97	0.45
7:S5:148:ARG:HD2	7:S5:155:ALA:HB1	1.98	0.45
8:S6:154:ARG:HD2	8:S6:178:LEU:HD21	1.97	0.45
1:2:786:A:C2	9:S7:104:ARG:HG3	2.51	0.45
34:SR:256:THR:N	34:SR:259:GLY:O	2.80	0.45
36:1:1158:A:C8	36:1:1158:A:O5'	2.68	0.45
36:1:1461:A:H2'	36:1:1462:A:C8	2.52	0.45
36:1:158:G:H1	36:1:263:C:N4	2.13	0.45
36:1:161:G:C5	36:1:162:G:N7	2.84	0.45
36:1:2292:U:N3	36:1:2293:C:N4	2.64	0.45
36:1:2445:A:N6	36:1:2502:A:H2	2.13	0.45
36:1:43:A:N6	36:1:2803:A:C5	2.84	0.45
36:1:348:A:N3	36:1:352:A:O2'	2.50	0.45
36:1:364:G:OP1	41:L4:60:THR:HG23	2.16	0.45
36:1:604:G:C2	36:1:605:U:C2	3.04	0.45
1:2:1023:G:C2	1:2:1024:G:C4	3.04	0.45
1:2:1655:G:N2	1:2:1656:G:C2	2.83	0.45
1:2:549:G:C6	1:2:550:A:N7	2.84	0.45
1:2:615:A:N3	1:2:616:G:C8	2.85	0.45
1:2:625:C:H2'	1:2:626:U:C6	2.52	0.45
37:3:113:C:C4	37:3:114:U:C4	3.04	0.45
85:5:1088:U:C2	85:5:1089:G:C8	3.05	0.45
85:5:1171:G:C6	92:5:3506:OHX:N1	2.84	0.45
85:5:1696:A:H61	85:5:1748:G:H2'	1.81	0.45
85:5:2180:G:C6	85:5:2181:C:N4	2.84	0.45
64:N8:60:TYR:CZ	85:5:2777:G:C4	137.11	0.45
85:5:2903:A:H2'	85:5:2904:U:O4'	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2999:U:H2'	85:5:3000:A:C8	2.51	0.45
92:5:3578:OHX:N4	92:5:3718:OHX:N2	2.65	0.45
85:5:725:G:H1	85:5:745:C:H42	1.64	0.45
24:D2:9:ASP:HB3	80:6:1036:A:O2'	361.20	0.45
80:6:1079:U:H2'	80:6:1080:U:C6	2.51	0.45
80:6:1481:C:H4'	80:6:1482:C:OP1	2.16	0.45
80:6:1653:C:N4	80:6:1654:G:C6	2.84	0.45
80:6:1699:G:C2'	80:6:1700:C:H5'	2.46	0.45
80:6:63:G:H4'	80:6:170:U:C5	2.52	0.45
80:6:1734:U:N3	80:6:1735:U:C5	2.84	0.45
80:6:25:C:H4'	80:6:25:C:OP2	2.15	0.45
80:6:104:A:OP2	80:6:308:C:N4	2.50	0.45
80:6:417:A:H4'	80:6:418:G:O5'	2.15	0.45
80:6:626:U:H2'	80:6:627:C:H6	1.80	0.45
11:S9:54:ARG:NH2	80:6:761:G:OP1	393.34	0.45
80:6:775:G:N2	80:6:786:C:C2	2.84	0.45
37:7:1:G:C2	37:7:2:G:C5	3.05	0.45
38:8:59:A:C2	38:8:61:A:C2	3.04	0.45
38:8:79:A:H2'	38:8:80:A:O4'	2.16	0.45
12:C0:23:ALA:O	12:C0:24:LYS:HB3	4.54	0.45
15:C3:64:ARG:O	15:C3:68:GLY:HA2	2.16	0.45
16:C4:114:ARG:HE	28:D6:62:TYR:HE1	1.64	0.45
20:C8:45:LEU:HD21	20:C8:81:ILE:HG12	1.98	0.45
24:D2:44:HIS:CE1	24:D2:101:TYR:CZ	3.49	0.45
30:D8:9:LEU:HB3	30:D8:33:LEU:HG	6.81	0.45
33:E1:144:CYS:HB3	33:E1:147:VAL:N	2.31	0.45
39:L2:128:ARG:HA	39:L2:169:ILE:CD1	2.47	0.45
39:L2:87:PHE:O	39:L2:88:ILE:HD12	2.16	0.45
40:L3:316:GLU:O	40:L3:317:ILE:HB	2.16	0.45
40:L3:356:LEU:H	40:L3:356:LEU:HG	2.04	0.45
41:L4:308:LYS:HG2	41:L4:309:ARG:N	2.91	0.45
42:L5:195:LEU:O	42:L5:195:LEU:HD12	2.95	0.45
42:L5:61:ILE:HA	42:L5:79:TYR:HD1	2.79	0.45
46:L9:112:ILE:HG21	46:L9:161:LEU:HD11	1.98	0.45
46:L9:94:TYR:CD2	46:L9:98:PRO:HA	2.90	0.45
48:M1:94:ARG:C	48:M1:96:PHE:H	2.18	0.45
51:M5:178:HIS:C	51:M5:180:PHE:H	2.20	0.45
51:M5:46:ASP:O	51:M5:50:ARG:CZ	2.64	0.45
51:M5:36:ILE:HG12	51:M5:64:VAL:HG23	2.56	0.45
53:M7:108:ASP:O	53:M7:109:ALA:C	2.86	0.45
55:M9:168:ALA:O	55:M9:172:ARG:HB2	2.74	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:155:ARG:HB3	56:N0:155:ARG:HH21	3.08	0.45
57:N1:7:TYR:CE2	57:N1:54:HIS:HD2	2.34	0.45
59:N3:38:ALA:O	59:N3:58:VAL:HB	2.17	0.45
60:N4:47:ARG:HE	60:N4:54:LEU:HD23	1.81	0.45
73:O7:66:TYR:O	73:O7:68:LYS:N	3.40	0.45
73:O7:8:PHE:O	73:O7:11:ARG:HG3	2.15	0.45
77:Q1:3:ALA:O	77:Q1:7:LYS:N	2.42	0.45
78:Q2:77:CYS:SG	78:Q2:79:THR:CG2	3.04	0.45
2:S0:179:ARG:HB3	2:S0:180:GLU:OE1	5.27	0.45
1:2:1128:U:O2'	4:S2:89:GLN:O	2.28	0.45
6:S4:170:THR:OG1	6:S4:171:ASP:N	2.48	0.45
6:S4:28:ALA:C	80:6:448:C:H5'	367.75	0.45
6:S4:73:ASP:OD1	6:S4:89:VAL:N	2.49	0.45
8:S6:49:VAL:HB	8:S6:115:LYS:HG2	4.66	0.45
8:S6:69:LEU:N	8:S6:101:ILE:HD12	2.69	0.45
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.16	0.45
10:S8:31:ARG:HE	80:6:332:U:H5''	291.93	0.45
11:S9:25:ASP:O	11:S9:28:LEU:N	2.86	0.45
11:S9:81:VAL:HG23	11:S9:86:LEU:HD23	1.99	0.45
34:SR:152:SER:O	34:SR:153:GLN:NE2	2.44	0.45
36:1:1056:U:H2'	36:1:1057:A:O4'	2.16	0.45
36:1:1635:G:O6	63:N7:17:ARG:HB2	2.17	0.45
36:1:1904:C:H2'	36:1:1905:G:H5'	1.98	0.45
36:1:2201:G:C6	36:1:2202:C:N3	2.84	0.45
36:1:2319:U:O2'	36:1:2320:A:C8	2.69	0.45
36:1:2419:A:N1	36:1:2420:C:C4	2.84	0.45
36:1:2652:U:C5	36:1:2653:C:C4	3.04	0.45
36:1:2772:C:H4'	36:1:2773:C:O5'	2.17	0.45
36:1:2838:A:N6	36:1:2850:G:H1'	2.31	0.45
36:1:3152:U:O2	92:1:3679:OHX:N4	2.49	0.45
36:1:3179:U:H3'	36:1:3180:A:H5'	1.99	0.45
36:1:3182:G:C6	36:1:3183:A:C5	3.05	0.45
36:1:3350:C:H2'	36:1:3351:U:H3'	1.99	0.45
36:1:795:G:O6	92:1:3431:OHX:N3	2.49	0.45
36:1:3:U:C2	36:1:4:U:C6	3.04	0.45
36:1:725:G:C2	36:1:746:A:C2	3.04	0.45
1:2:1134:A:H4'	1:2:1749:A:N7	2.32	0.45
1:2:1224:G:H5'	17:C5:102:PHE:CZ	2.51	0.45
1:2:1514:G:H5'	27:D5:81:ARG:NH2	2.32	0.45
1:2:416:A:H4'	1:2:417:A:OP2	2.16	0.45
1:2:523:G:H5''	26:D4:59:GLY:O	2.15	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:703:G:H1'	1:2:704:U:H5''	1.98	0.45
1:2:73:U:O2'	1:2:74:U:C5	2.70	0.45
1:2:74:U:O2'	1:2:75:U:H5'	2.16	0.45
1:2:832:C:N3	1:2:833:A:C8	2.84	0.45
1:2:992:U:H2'	1:2:993:C:H6	1.82	0.45
1:2:995:U:C4	1:2:996:A:N7	2.84	0.45
85:5:1146:C:H2'	85:5:1147:G:C8	2.51	0.45
85:5:1225:A:C5	85:5:1226:G:N7	2.85	0.45
85:5:1783:U:H2'	85:5:1784:G:H8	1.81	0.45
85:5:1796:G:O6	92:5:3732:OHX:N5	2.49	0.45
75:O9:45:ARG:NH1	85:5:1841:A:O2'	130.73	0.45
85:5:1556:C:H2'	85:5:2169:G:C2	2.50	0.45
78:Q2:63:LYS:NZ	85:5:2761:G:N7	211.29	0.45
85:5:2405:C:O2	85:5:2819:A:N1	2.49	0.45
85:5:2819:A:HO2'	85:5:2820:A:H5'	1.82	0.45
85:5:2962:U:O4	85:5:2963:C:N4	2.49	0.45
76:Q0:112:LYS:NZ	85:5:3107:U:P	304.74	0.45
85:5:3155:U:C6	92:5:3730:OHX:N4	2.84	0.45
85:5:597:G:H2'	85:5:598:A:C8	2.49	0.45
85:5:807:A:C2	85:5:808:A:C8	3.04	0.45
85:5:965:A:C6	85:5:966:U:C4	3.04	0.45
85:5:981:U:C6	85:5:981:U:H3'	2.50	0.45
80:6:1011:G:H8	80:6:1011:G:O5'	1.99	0.45
80:6:1449:U:H2'	80:6:1450:U:C6	2.52	0.45
17:C5:128:HIS:HB3	80:6:1460:A:C8	328.35	0.45
80:6:17:C:C2	80:6:18:C:C5	3.04	0.45
92:6:1978:OHX:N5	92:6:2001:OHX:N1	2.65	0.45
80:6:453:U:O2	80:6:453:U:H2'	2.16	0.45
9:S7:96:ARG:HB3	80:6:856:A:C6	364.02	0.45
1:2:882:G:H4'	16:C4:46:MET:HG2	1.97	0.45
18:C6:100:GLN:O	18:C6:104:GLU:HG3	2.50	0.45
20:C8:123:ARG:HG3	20:C8:133:VAL:HG22	4.26	0.45
1:2:1085:G:P	24:D2:76:SER:HG	2.39	0.45
20:C8:5:VAL:O	27:D5:42:LEU:HB2	3.66	0.45
27:D5:71:ILE:HG23	27:D5:73:GLY:N	6.53	0.45
30:D8:58:GLU:HB3	30:D8:61:ARG:HG3	7.72	0.45
32:E0:28:LYS:HG2	32:E0:29:LYS:O	3.25	0.45
39:L2:225:ILE:HD12	39:L2:225:ILE:N	2.46	0.45
39:L2:70:ARG:NH2	85:5:2522:G:O6	176.49	0.45
41:L4:182:LEU:C	41:L4:184:SER:H	2.19	0.45
41:L4:237:GLN:O	41:L4:246:ARG:NE	2.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:116:ASP:OD2	42:L5:117:GLU:N	4.50	0.45
42:L5:296:GLN:C	42:L5:297:GLN:OE1	5.44	0.45
42:L5:40:HIS:HE1	42:L5:42:ALA:HB3	2.18	0.45
43:L6:132:ALA:O	43:L6:136:GLU:HG2	2.16	0.45
43:L6:172:HIS:CD2	69:O3:40:ASP:HB3	2.51	0.45
44:L7:202:LEU:HD23	44:L7:202:LEU:HA	1.64	0.45
44:L7:80:GLN:HB2	57:N1:135:PRO:HB2	1.97	0.45
45:L8:139:VAL:HG21	45:L8:197:VAL:CG2	2.47	0.45
45:L8:156:ASP:OD1	45:L8:183:LYS:HG2	2.16	0.45
45:L8:53:PRO:HD2	45:L8:56:VAL:HG21	1.98	0.45
46:L9:57:VAL:HG13	46:L9:64:HIS:CE1	2.64	0.45
47:M0:135:ILE:HG21	47:M0:159:PHE:CE2	2.51	0.45
48:M1:171:VAL:HG13	48:M1:172:LEU:H	1.82	0.45
36:1:412:G:O2'	53:M7:119:VAL:O	2.24	0.45
44:L7:100:ARG:CZ	54:M8:4:ASP:OD1	2.65	0.45
64:N8:105:LEU:O	64:N8:108:GLY:N	2.45	0.45
68:O2:124:GLY:O	68:O2:126:LEU:HB2	4.06	0.45
53:M7:169:THR:N	69:O3:60:ARG:HH11	2.08	0.45
70:O4:30:LEU:HA	70:O4:30:LEU:HD23	1.51	0.45
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	2.12	0.45
73:O7:17:THR:HG23	75:O9:51:ILE:CD1	2.45	0.45
73:O7:67:LEU:O	73:O7:67:LEU:HD22	3.27	0.45
75:O9:9:ILE:HD12	75:O9:51:ILE:HG12	1.98	0.45
2:S0:101:ARG:HG3	2:S0:102:PHE:N	2.28	0.45
2:S0:105:GLY:O	2:S0:108:THR:O	2.58	0.45
2:S0:29:VAL:HG13	2:S0:30:GLN:H	3.88	0.45
2:S0:80:THR:HA	2:S0:83:GLN:HE21	4.77	0.45
3:S1:28:GLU:HG3	3:S1:50:LYS:HG3	6.85	0.45
3:S1:70:LEU:HD13	3:S1:79:HIS:ND1	5.15	0.45
5:S3:30:ALA:C	5:S3:32:GLU:H	2.19	0.45
6:S4:105:VAL:HG22	6:S4:105:VAL:O	2.45	0.45
7:S5:30:PRO:HD2	7:S5:33:VAL:HG11	1.98	0.45
7:S5:76:ARG:HD2	18:C6:122:ARG:NE	2.31	0.45
9:S7:136:VAL:O	9:S7:136:VAL:HG12	2.17	0.45
36:1:1278:A:HO2'	36:1:1279:C:C5'	2.27	0.45
36:1:1496:C:H6	36:1:1496:C:O5'	2.00	0.45
36:1:1945:A:H2'	36:1:1946:A:H8	1.81	0.45
36:1:198:A:C2	36:1:219:A:N3	2.84	0.45
36:1:23:A:H2'	36:1:24:G:C8	2.49	0.45
36:1:3191:G:H2'	36:1:3192:U:O4'	2.17	0.45
36:1:3356:G:O2'	36:1:3357:U:H5'	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:535:G:C4	36:1:554:A:C6	3.04	0.45
36:1:521:A:C6	36:1:572:A:C2	3.04	0.45
36:1:72:C:C2	36:1:74:G:H1'	2.51	0.45
1:2:1181:G:C6	1:2:1183:G:N1	2.84	0.45
1:2:1388:G:C2	1:2:1389:A:C5	3.04	0.45
1:2:357:G:OP2	92:2:1938:OHX:N6	2.49	0.45
1:2:545:A:H4'	1:2:546:U:OP1	2.16	0.45
85:5:1127:G:N2	85:5:1130:A:OP2	2.48	0.45
85:5:1190:A:C5	85:5:1193:A:H1'	2.51	0.45
85:5:1217:A:C2	85:5:1289:G:C5	3.05	0.45
85:5:1317:A:C2	85:5:1319:G:C5	3.04	0.45
85:5:199:A:C4	85:5:201:A:C8	3.04	0.45
85:5:3189:G:H2'	85:5:3190:C:O4'	2.17	0.45
85:5:3289:G:C6	92:5:3600:OHX:N5	2.85	0.45
85:5:637:C:C2	85:5:638:C:C5	3.04	0.45
85:5:764:U:H2'	85:5:765:C:H2'	1.98	0.45
85:5:983:A:C2	85:5:985:U:O4	2.69	0.45
80:6:1068:C:C2	80:6:1069:A:C8	3.04	0.45
80:6:11:A:C2'	80:6:12:U:H5'	2.46	0.45
80:6:121:U:H2'	80:6:122:U:O4'	2.16	0.45
80:6:1639:C:OP1	92:6:2007:OHX:N5	2.50	0.45
80:6:217:A:C8	80:6:218:A:C8	3.05	0.45
80:6:326:G:C2	80:6:343:C:O2	2.69	0.45
80:6:760:A:H2'	80:6:761:G:O4'	2.16	0.45
80:6:778:G:C6	80:6:783:G:C6	3.04	0.45
80:6:824:G:N1	80:6:825:U:O4	2.50	0.45
80:6:95:G:H5'	80:6:96:G:OP2	2.16	0.45
42:L5:72:ASP:OD1	37:7:7:G:O2'	270.69	0.45
12:C0:4:PRO:O	12:C0:8:ARG:HB2	3.61	0.45
13:C1:109:VAL:HG11	13:C1:125:VAL:HG21	2.60	0.45
15:C3:94:LYS:O	15:C3:97:SER:HB3	3.30	0.45
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.62	0.45
21:C9:106:GLN:HE21	80:6:1500:C:P	417.62	0.45
21:C9:52:GLY:HA2	21:C9:55:TYR:CE2	2.51	0.45
24:D2:23:ARG:HG3	24:D2:65:LEU:O	4.38	0.45
25:D3:97:ASP:N	25:D3:100:ASP:OD2	4.22	0.45
28:D6:12:LYS:HD2	28:D6:16:GLY:H	4.98	0.45
28:D6:87:ARG:CZ	28:D6:92:ARG:HA	2.98	0.45
29:D7:34:ASP:O	29:D7:79:PHE:HA	2.50	0.45
39:L2:188:LYS:O	39:L2:192:LYS:HG3	2.17	0.45
39:L2:221:LYS:O	85:5:2245:C:H4'	218.63	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:L1:2550:U:C5	39:L2:40:TYR:CE1	3.05	0.45
40:L3:113:GLU:OE2	40:L3:167:ARG:HG2	2.18	0.45
40:L3:300:ARG:NH1	40:L3:300:ARG:HB3	5.10	0.45
41:L4:138:ARG:HH11	41:L4:138:ARG:HD3	1.65	0.45
41:L4:174:ALA:O	41:L4:175:HIS:C	2.55	0.45
41:L4:289:ILE:O	41:L4:292:SER:N	2.44	0.45
42:L5:53:VAL:CG1	42:L5:159:VAL:HG23	3.41	0.45
42:L5:30:TYR:O	42:L5:31:TYR:C	2.53	0.45
43:L6:10:TYR:CG	68:O2:88:HIS:CE1	3.19	0.45
45:L8:123:GLN:O	45:L8:125:ALA:N	4.12	0.45
46:L9:174:LYS:O	46:L9:176:LEU:HG	2.17	0.45
48:M1:37:LEU:HD23	48:M1:37:LEU:HA	2.07	0.45
49:M3:143:ALA:O	49:M3:146:PRO:HD3	2.16	0.45
49:M3:67:ARG:H	49:M3:67:ARG:HG3	1.37	0.45
50:M4:101:LYS:O	50:M4:104:ALA:N	2.99	0.45
50:M4:72:LEU:HD23	50:M4:73:PRO:HD2	1.98	0.45
51:M5:149:ASN:O	51:M5:150:TRP:C	2.53	0.45
52:M6:62:THR:O	52:M6:63:ALA:C	2.77	0.45
53:M7:27:LYS:HG2	53:M7:63:PHE:CD2	2.52	0.45
53:M7:48:LEU:O	53:M7:49:GLU:C	2.54	0.45
54:M8:84:VAL:C	54:M8:104:LEU:HD12	2.37	0.45
54:M8:170:ARG:C	54:M8:172:PHE:H	2.32	0.45
56:N0:100:VAL:HG12	56:N0:101:ALA:N	2.80	0.45
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.79	0.45
58:N2:95:PHE:C	58:N2:95:PHE:CD2	2.90	0.45
61:N5:35:PRO:O	61:N5:36:LYS:C	2.89	0.45
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.16	0.45
73:O7:72:ARG:O	73:O7:75:LYS:N	2.48	0.45
73:O7:18:LEU:HD21	75:O9:51:ILE:HG23	1.98	0.45
76:Q0:96:CYS:HA	76:Q0:121:LEU:HD23	1.98	0.45
79:Q3:56:THR:HG22	79:Q3:63:THR:CG2	2.47	0.45
4:S2:106:ASP:O	4:S2:107:SER:OG	2.60	0.45
4:S2:203:LYS:O	4:S2:206:THR:OG1	2.26	0.45
5:S3:124:ARG:O	5:S3:128:GLU:HB2	2.16	0.45
5:S3:151:LYS:HE3	5:S3:151:LYS:HB2	1.79	0.45
6:S4:186:GLY:HA3	80:6:753:A:OP1	368.12	0.45
6:S4:50:ASN:HB3	6:S4:51:ARG:HH21	3.07	0.45
7:S5:63:GLN:HG3	7:S5:88:PRO:HA	1.98	0.45
10:S8:166:TYR:O	10:S8:183:ILE:HD12	6.61	0.45
11:S9:172:VAL:HG13	11:S9:175:ARG:HH21	1.80	0.45
34:SR:176:LYS:HG2	34:SR:197:SER:O	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:264:SER:HB2	34:SR:271:VAL:HG23	1.97	0.45
36:1:1520:G:C2	36:1:1521:G:C4	3.04	0.45
36:1:1597:C:H2'	36:1:1598:G:H8	1.81	0.45
36:1:1636:U:H5''	63:N7:73:LYS:HZ2	1.80	0.45
36:1:198:A:O4'	36:1:218:G:C2	2.70	0.45
36:1:22:G:C6	36:1:23:A:C5	3.04	0.45
36:1:250:U:C5	36:1:251:G:C8	3.05	0.45
36:1:2881:C:H2'	36:1:2882:U:H6	1.80	0.45
36:1:3017:A:C2	36:1:3038:U:N3	2.84	0.45
36:1:3277:U:C5	53:M7:175:ARG:NH1	2.85	0.45
36:1:1009:A:OP2	92:1:3624:OHX:N1	2.49	0.45
36:1:386:A:H2'	36:1:387:A:O4'	2.16	0.45
36:1:407:A:C2	38:4:17:A:H1'	2.51	0.45
36:1:411:U:H2'	36:1:412:G:H8	1.82	0.45
1:2:1111:C:H2'	1:2:1112:U:O4'	2.17	0.45
1:2:1810:A:H8	1:2:1810:A:O5'	2.00	0.45
1:2:346:G:N7	92:2:2005:OHX:N1	2.64	0.45
1:2:749:U:H3'	1:2:751:C:OP2	2.17	0.45
1:2:812:A:H2	1:2:813:U:H3	1.64	0.45
1:2:986:A:H4'	1:2:987:U:O5'	2.16	0.45
38:4:52:A:H61	75:O9:35:ILE:HD12	1.82	0.45
85:5:1341:U:H2'	85:5:1342:C:C6	2.52	0.45
63:N7:67:LYS:NZ	85:5:1630:U:OP1	197.70	0.45
85:5:1856:C:H2'	85:5:1857:C:H6	1.81	0.45
85:5:71:A:C2	85:5:2778:G:H1'	2.51	0.45
85:5:3200:G:C6	85:5:3201:C:C4	3.04	0.45
85:5:3010:U:OP2	92:5:3653:OHX:N4	2.49	0.45
85:5:438:A:C8	85:5:439:C:C5	3.05	0.45
85:5:525:C:H2'	85:5:526:C:H6	1.82	0.45
85:5:537:A:H1'	85:5:557:A:O2'	2.15	0.45
80:6:1398:U:H3'	80:6:1399:C:H4'	1.97	0.45
80:6:1716:C:O2'	80:6:1717:G:OP2	2.29	0.45
80:6:189:C:H2'	80:6:190:C:H5'	1.99	0.45
92:6:1970:OHX:N5	92:6:2031:OHX:N3	2.64	0.45
80:6:158:U:O4	80:6:420:A:H4'	2.17	0.45
80:6:453:U:O2	80:6:453:U:C2'	2.64	0.45
80:6:615:A:C2	80:6:616:G:C8	3.05	0.45
11:S9:78:ARG:NH1	80:6:764:U:OP2	418.62	0.45
80:6:808:U:H2'	80:6:809:A:C8	2.52	0.45
85:5:998:A:O2'	37:7:103:A:N3	2.47	0.45
14:C2:89:ILE:HG12	14:C2:90:LYS:H	1.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:46:LEU:HD23	19:C7:46:LEU:HA	2.01	0.45
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.41	0.45
20:C8:42:TYR:CE2	20:C8:73:MET:HG3	4.50	0.45
20:C8:83:ALA:O	20:C8:86:LEU:HB2	3.29	0.45
21:C9:23:GLN:HG2	21:C9:55:TYR:CE2	2.51	0.45
21:C9:5:SER:HG	21:C9:66:TYR:HH	1.59	0.45
6:S4:59:ARG:NH1	26:D4:87:PRO:HG3	2.32	0.45
27:D5:88:ILE:HG22	27:D5:89:ILE:HG23	2.08	0.45
29:D7:82:LYS:HB2	29:D7:82:LYS:HE3	4.33	0.45
41:L4:325:LEU:HD23	41:L4:325:LEU:HA	1.54	0.45
42:L5:148:ILE:HD11	42:L5:159:VAL:CG1	2.87	0.45
42:L5:277:LEU:HA	42:L5:277:LEU:HD12	1.77	0.45
42:L5:280:GLU:CD	42:L5:280:GLU:H	2.20	0.45
42:L5:68:THR:O	42:L5:69:ILE:C	2.78	0.45
44:L7:228:SER:HA	44:L7:232:ARG:HH21	2.64	0.45
45:L8:244:ALA:O	45:L8:248:LYS:HB2	2.90	0.45
46:L9:112:ILE:HB	46:L9:126:VAL:HB	2.16	0.45
46:L9:49:ASN:C	46:L9:51:GLN:H	2.15	0.45
48:M1:46:VAL:HG13	48:M1:68:HIS:CE1	2.52	0.45
49:M3:168:ARG:O	49:M3:168:ARG:HG3	3.19	0.45
50:M4:16:GLU:OE1	50:M4:19:ARG:NH1	2.45	0.45
51:M5:49:ARG:HA	51:M5:53:TYR:HB3	1.98	0.45
53:M7:95:LEU:HD23	53:M7:95:LEU:HA	1.96	0.45
55:M9:18:GLY:HA3	85:5:1874:A:H5'	135.78	0.45
50:M4:41:GLN:HG2	56:N0:143:PHE:HZ	1.80	0.45
58:N2:36:TYR:CD1	58:N2:40:HIS:CE1	3.50	0.45
59:N3:11:PHE:HB2	59:N3:88:ARG:NH1	2.32	0.45
67:O1:46:THR:HG21	67:O1:91:SER:OG	2.16	0.45
1:2:867:A:H4'	3:S1:124:ASN:ND2	2.31	0.45
3:S1:41:ARG:HH22	3:S1:232:HIS:CD2	3.61	0.45
6:S4:230:GLU:O	6:S4:233:LYS:N	2.50	0.45
11:S9:102:GLU:O	11:S9:105:LEU:N	3.40	0.45
34:SR:278:PHE:CE1	34:SR:287:PRO:HD2	2.52	0.45
34:SR:52:GLN:HG2	34:SR:53:LYS:H	2.02	0.45
36:1:1026:A:C6	36:1:1027:A:C6	3.04	0.45
36:1:1045:C:O2'	36:1:1046:A:H5'	2.17	0.45
36:1:1132:C:N3	36:1:1133:A:N7	2.65	0.45
36:1:1547:G:C2	36:1:1548:C:C4	3.04	0.45
36:1:1742:U:C2	36:1:1743:G:C8	3.05	0.45
36:1:1752:A:H2'	36:1:1753:G:O4'	2.16	0.45
36:1:200:C:H4'	36:1:201:A:OP2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2145:A:C2	36:1:2146:C:C5	3.04	0.45
36:1:2197:C:H4'	36:1:2198:A:H8	1.82	0.45
36:1:2624:G:C2	36:1:2644:C:N4	2.85	0.45
36:1:3005:A:C2	36:1:3140:G:N3	2.85	0.45
36:1:3164:C:H1'	36:1:3165:A:H5'	1.99	0.45
1:2:1117:C:H2'	1:2:1118:U:O4'	2.15	0.45
1:2:1513:C:H2'	1:2:1514:G:O4'	2.17	0.45
1:2:1750:G:OP1	1:2:1753:U:H4'	2.17	0.45
1:2:1189:U:OP1	92:2:1940:OHX:N6	2.50	0.45
1:2:448:C:H2'	1:2:449:C:H6	1.82	0.45
1:2:453:U:H2'	1:2:454:U:H5''	1.99	0.45
1:2:765:U:H4'	1:2:766:G:OP2	2.17	0.45
1:2:839:A:N6	9:S7:96:ARG:HB3	2.31	0.45
1:2:957:A:N3	1:2:957:A:H2'	2.31	0.45
37:3:67:G:O5'	37:3:67:G:H8	2.00	0.45
85:5:1000:C:C2	85:5:1045:C:N4	2.85	0.45
85:5:1062:A:H5''	85:5:1063:G:H5'	1.97	0.45
85:5:1105:A:N1	85:5:1106:G:C4	2.85	0.45
85:5:1289:G:H2'	85:5:1290:A:C8	2.51	0.45
85:5:1666:G:C6	85:5:1667:A:C5	3.05	0.45
85:5:1646:G:C2	85:5:1808:G:C4	3.05	0.45
85:5:1514:G:C6	85:5:1841:A:C5	3.05	0.45
85:5:2194:G:C6	85:5:2195:C:C4	3.05	0.45
85:5:2213:A:H2'	85:5:2214:A:C8	2.51	0.45
47:M0:157:TYR:HB3	85:5:2836:C:H1'	307.36	0.45
85:5:2997:G:N7	92:5:3686:OHX:N4	2.64	0.45
54:M8:93:ILE:HG23	85:5:784:A:C6	150.19	0.45
85:5:855:U:C4	85:5:856:G:C6	3.05	0.45
85:5:945:C:H2'	85:5:946:U:C6	2.51	0.45
85:5:970:A:O5'	85:5:970:A:C8	2.65	0.45
85:5:998:A:O2'	85:5:999:G:H5'	2.16	0.45
80:6:1107:G:C6	80:6:1108:G:C6	3.05	0.45
33:E1:97:LYS:HD3	80:6:1232:U:H5	434.67	0.45
31:D9:45:GLU:CD	80:6:1433:G:H22	409.98	0.45
80:6:165:G:H2'	80:6:166:C:H5''	1.99	0.45
80:6:426:G:C2	80:6:427:C:C2	3.04	0.45
80:6:710:U:H1'	80:6:729:G:H22	1.82	0.45
80:6:776:G:N2	80:6:785:U:O2	2.50	0.45
38:8:31:G:H2'	38:8:32:C:C6	2.52	0.45
14:C2:62:LEU:HA	14:C2:120:VAL:HA	1.98	0.45
16:C4:17:ALA:O	16:C4:81:VAL:HA	4.92	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:121:ILE:HD13	17:C5:123:TYR:H	5.18	0.45
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.98	0.45
18:C6:95:LYS:HE3	18:C6:96:TYR:OH	2.16	0.45
18:C6:93:HIS:HA	18:C6:97:VAL:HG12	1.97	0.45
26:D4:18:LEU:HD13	26:D4:20:ARG:NH1	3.65	0.45
26:D4:27:VAL:HG12	26:D4:29:HIS:HD2	2.27	0.45
27:D5:43:ASP:HB2	27:D5:46:LYS:CD	2.47	0.45
31:D9:19:ARG:HD2	31:D9:32:ARG:HD2	1.97	0.45
32:E0:28:LYS:HZ1	80:6:542:A:H61	426.39	0.45
32:E0:30:PRO:HB2	32:E0:34:ALA:HB3	1.98	0.45
33:E1:143:LYS:O	33:E1:145:HIS:N	2.50	0.45
39:L2:241:ARG:O	39:L2:242:ARG:HB3	2.35	0.45
41:L4:138:ARG:NE	41:L4:240:PRO:HD2	2.30	0.45
41:L4:188:ARG:NH2	41:L4:197:ARG:HB3	2.74	0.45
36:1:1383:G:H4'	41:L4:240:PRO:HB2	1.99	0.45
44:L7:102:VAL:HG12	44:L7:130:ILE:HD11	3.65	0.45
44:L7:173:LEU:HB3	44:L7:178:ILE:HB	2.61	0.45
44:L7:56:GLU:O	44:L7:57:THR:C	2.50	0.45
44:L7:83:LEU:HD11	44:L7:116:PHE:CD1	2.52	0.45
45:L8:136:LEU:O	45:L8:137:ASN:C	2.55	0.45
45:L8:67:ILE:HG22	45:L8:237:ILE:HB	1.97	0.45
45:L8:53:PRO:O	45:L8:56:VAL:HB	2.16	0.45
46:L9:85:GLY:O	46:L9:186:PHE:HA	2.40	0.45
48:M1:133:ARG:NH2	48:M1:158:ASP:OD2	2.50	0.45
48:M1:36:VAL:HG12	48:M1:37:LEU:HD23	1.98	0.45
48:M1:99:THR:O	48:M1:154:THR:OG1	2.34	0.45
50:M4:38:ILE:O	56:N0:95:ARG:NH2	3.38	0.45
36:1:268:A:N7	51:M5:12:ARG:NH1	2.65	0.45
51:M5:194:GLN:H	51:M5:194:GLN:HG2	1.83	0.45
52:M6:116:LYS:HG3	52:M6:117:ARG:N	2.31	0.45
52:M6:23:VAL:O	52:M6:27:LEU:HG	2.17	0.45
53:M7:18:ARG:NH2	53:M7:147:GLU:OE1	2.49	0.45
55:M9:23:TRP:CH2	55:M9:25:ASP:HA	3.57	0.45
56:N0:43:TYR:OH	56:N0:47:LYS:HE2	3.36	0.45
56:N0:13:ARG:HE	56:N0:51:VAL:HG13	2.23	0.45
60:N4:23:ARG:NH2	60:N4:25:ASP:OD2	2.50	0.45
45:L8:45:ASN:OD1	61:N5:26:VAL:HA	2.16	0.45
61:N5:65:GLN:O	61:N5:85:GLN:N	2.77	0.45
61:N5:67:ILE:CD1	61:N5:115:ARG:HH21	2.28	0.45
62:N6:5:SER:C	62:N6:7:ASP:N	3.43	0.45
63:N7:55:LYS:NZ	92:5:3696:OHX:N3	196.13	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:87:ARG:O	64:N8:91:LEU:HD22	2.16	0.45
67:O1:55:LEU:C	67:O1:55:LEU:HD13	2.37	0.45
67:O1:74:ARG:HH12	67:O1:109:VAL:HG11	1.80	0.45
64:N8:14:HIS:CE1	68:O2:36:LYS:HE2	2.52	0.45
72:O6:80:PHE:O	72:O6:84:LYS:HG3	2.98	0.45
2:S0:56:LYS:HD2	2:S0:158:VAL:HG23	1.97	0.45
3:S1:71:ALA:HB3	16:C4:114:ARG:NH1	2.32	0.45
4:S2:141:ARG:H	4:S2:141:ARG:HG2	1.80	0.45
4:S2:90:THR:HG22	4:S2:93:GLY:O	2.16	0.45
5:S3:115:ILE:HD11	5:S3:138:VAL:HG21	1.99	0.45
5:S3:162:GLN:CD	5:S3:165:ASN:HD22	2.20	0.45
5:S3:20:GLU:OE2	5:S3:76:ARG:NH2	3.64	0.45
7:S5:48:PHE:CG	7:S5:67:PRO:HB3	2.52	0.45
9:S7:63:PRO:HD2	9:S7:66:SER:OG	2.16	0.45
10:S8:165:LEU:HD23	10:S8:165:LEU:HA	2.11	0.45
10:S8:26:LYS:O	10:S8:26:LYS:HG2	3.96	0.45
10:S8:9:HIS:ND1	10:S8:10:LYS:N	2.65	0.45
11:S9:23:ARG:HH11	11:S9:27:GLU:CD	2.64	0.45
36:1:1583:A:H3'	36:1:1584:U:C6	2.50	0.45
36:1:1885:U:H4'	36:1:1886:A:OP1	2.17	0.45
36:1:2208:A:C2	92:1:3577:OHX:N4	2.84	0.45
36:1:2208:A:H4'	36:1:2209:U:OP1	2.17	0.45
36:1:2326:A:H2'	36:1:2326:A:N3	2.32	0.45
36:1:2836:C:H5	36:1:2852:C:N4	2.12	0.45
36:1:2837:A:N3	36:1:2850:G:N2	2.63	0.45
36:1:3392:U:H2'	36:1:3393:U:H6	1.82	0.45
36:1:527:A:C2	36:1:566:G:C2	3.05	0.45
36:1:594:U:H3	41:L4:304:GLN:HE22	1.65	0.45
1:2:1156:C:H2'	1:2:1157:C:C6	2.51	0.45
1:2:1244:G:H2'	1:2:1245:U:C6	2.51	0.45
1:2:1293:U:C2	1:2:1299:G:C2	3.05	0.45
1:2:1389:A:C6	1:2:1390:U:C4	3.05	0.45
1:2:1768:U:H2'	1:2:1769:G:H8	1.82	0.45
1:2:330:G:C2	1:2:331:A:C4	3.05	0.45
1:2:613:G:H4'	1:2:614:C:OP1	2.16	0.45
1:2:810:C:H2'	1:2:811:U:O4'	2.15	0.45
1:2:935:A:OP1	15:C3:94:LYS:HG3	2.16	0.45
1:2:960:A:C6	1:2:1008:A:C4	3.05	0.45
85:5:1265:U:O2	85:5:1277:C:H1'	2.17	0.45
85:5:345:G:P	85:5:1429:G:H22	2.39	0.45
85:5:1632:A:C2	85:5:1633:C:C4	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1867:A:N6	85:5:1868:G:C6	2.85	0.45
85:5:2279:A:C2	85:5:2288:G:C2	3.05	0.45
85:5:2396:G:OP1	85:5:2397:A:O2'	2.32	0.45
85:5:178:U:H1'	85:5:241:G:N1	2.32	0.45
85:5:2528:G:N2	85:5:2583:C:C2	2.84	0.45
67:O1:25:PHE:CE1	85:5:3056:U:C5	185.66	0.45
85:5:3231:U:H2'	85:5:3232:G:H8	1.82	0.45
40:L3:21:ARG:NH2	85:5:3309:G:O6	198.47	0.45
85:5:852:U:H2'	85:5:853:G:H8	1.82	0.45
80:6:1071:U:H2'	80:6:1072:C:C6	2.51	0.45
80:6:1133:A:H2'	80:6:1134:C:O4'	2.17	0.45
80:6:1429:G:H2'	80:6:1430:U:C6	2.52	0.45
33:E1:87:THR:O	80:6:1445:G:N1	377.45	0.45
80:6:1600:A:H1'	80:6:1601:G:H5''	1.97	0.45
80:6:228:G:H1	80:6:236:A:H61	1.62	0.45
80:6:292:U:H2'	80:6:293:U:C6	2.52	0.45
80:6:341:A:C5	80:6:342:C:C5	3.05	0.45
80:6:483:A:H61	80:6:504:U:H3	1.65	0.45
80:6:599:A:C5	80:6:600:U:C4	3.04	0.45
37:7:54:U:H4'	37:7:55:A:O5'	2.15	0.45
12:C0:55:VAL:HA	12:C0:69:THR:HG23	2.26	0.45
13:C1:125:VAL:HG13	13:C1:137:PHE:HB3	1.99	0.45
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	1.97	0.45
16:C4:84:ARG:HG3	16:C4:119:THR:HA	1.98	0.45
22:D0:101:LYS:O	22:D0:104:THR:OG1	3.34	0.45
24:D2:6:VAL:CG1	24:D2:29:PRO:HD2	2.40	0.45
25:D3:54:LEU:HA	25:D3:54:LEU:HD23	2.07	0.45
28:D6:74:CYS:SG	28:D6:77:CYS:SG	3.14	0.45
29:D7:75:GLU:HB3	29:D7:76:GLY:H	1.73	0.45
39:L2:168:VAL:HG23	39:L2:168:VAL:O	2.87	0.45
39:L2:216:HIS:O	39:L2:218:HIS:N	2.51	0.45
39:L2:64:ARG:HH22	45:L8:38:GLN:HA	2.74	0.45
44:L7:110:ARG:NH1	54:M8:3:ILE:HD12	3.43	0.45
47:M0:56:GLU:N	47:M0:131:ILE:HG12	2.30	0.45
49:M3:156:ALA:HB1	64:N8:99:ALA:N	2.32	0.45
51:M5:27:VAL:HB	51:M5:122:ASN:HD21	2.26	0.45
57:N1:57:TYR:CD1	57:N1:76:ILE:HG21	2.88	0.45
58:N2:50:LEU:CB	58:N2:54:VAL:HG23	2.46	0.45
65:N9:36:ASP:O	65:N9:37:PRO:C	2.90	0.45
68:O2:43:ARG:HG2	68:O2:43:ARG:O	2.17	0.45
72:O6:53:TYR:HA	72:O6:56:ARG:HB2	3.23	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:86:LYS:HD3	72:O6:86:LYS:HA	2.37	0.45
72:O6:89:GLU:O	72:O6:93:ILE:HG12	2.17	0.45
79:Q3:3:LYS:HB3	79:Q3:3:LYS:HE2	1.72	0.45
79:Q3:56:THR:OG1	79:Q3:57:CYS:N	3.26	0.45
79:Q3:75:ALA:O	79:Q3:79:VAL:HG23	2.16	0.45
79:Q3:77:ALA:HA	79:Q3:80:ARG:NH2	2.30	0.45
2:S0:102:PHE:CZ	2:S0:106:SER:HB2	2.52	0.45
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.50	0.45
3:S1:117:TRP:N	80:6:932:U:OP2	325.04	0.45
3:S1:62:LYS:HD2	3:S1:91:VAL:HB	1.98	0.45
4:S2:113:LEU:C	4:S2:113:LEU:HD22	2.37	0.45
4:S2:55:GLU:OE2	4:S2:239:PRO:HG3	3.50	0.45
6:S4:126:VAL:CG2	6:S4:156:VAL:HA	3.52	0.45
6:S4:241:GLY:O	6:S4:244:ILE:HG12	2.16	0.45
7:S5:120:ILE:HG12	27:D5:100:ILE:HD11	1.98	0.45
7:S5:25:LEU:N	7:S5:25:LEU:HD22	2.31	0.45
9:S7:143:LEU:CD2	9:S7:149:ILE:HD12	3.52	0.45
36:1:1012:G:C2	36:1:1013:G:C4	3.05	0.45
36:1:116:A:OP1	72:O6:36:ARG:NH1	2.50	0.45
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.17	0.45
36:1:1643:A:H3'	36:1:1644:C:C6	2.52	0.45
36:1:2208:A:O3'	36:1:2209:U:H6	2.00	0.45
36:1:2962:U:OP1	92:1:3418:OHX:N4	2.50	0.45
36:1:3208:G:C5	36:1:3210:A:C2	3.05	0.45
36:1:3226:A:N3	36:1:3260:G:C2	2.85	0.45
36:1:3315:G:C6	40:L3:123:TYR:CE2	3.04	0.45
36:1:390:G:H2'	36:1:391:A:O4'	2.16	0.45
36:1:497:C:H2'	36:1:498:A:O4'	2.17	0.45
36:1:945:C:H2'	36:1:946:U:C6	2.51	0.45
1:2:1089:U:H2'	1:2:1090:G:H8	1.81	0.45
1:2:1162:G:C6	1:2:1163:C:C4	3.05	0.45
1:2:1332:G:H2'	1:2:1333:U:H6	1.82	0.45
1:2:1577:G:N2	1:2:1586:U:O2	2.50	0.45
1:2:54:C:O2'	1:2:459:G:N7	2.40	0.45
37:3:64:A:N7	47:M0:209:ASN:ND2	2.65	0.45
38:4:67:U:H2'	38:4:68:G:C8	2.52	0.45
85:5:1573:G:C5	85:5:1574:C:H1'	2.52	0.45
85:5:1573:G:H2'	85:5:1574:C:O4'	2.17	0.45
85:5:1599:G:N2	85:5:1600:U:C2	2.84	0.45
85:5:1622:U:H2'	85:5:1623:G:H8	1.82	0.45
85:5:1709:C:H2'	85:5:1710:C:H6	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:28:LYS:HE2	85:5:1713:G:O6	236.71	0.45
85:5:1716:U:O2'	85:5:1717:U:O5'	2.29	0.45
85:5:1646:G:N3	85:5:1808:G:C2	2.84	0.45
85:5:1851:G:C8	85:5:1851:G:O5'	2.67	0.45
85:5:409:A:H5''	85:5:410:U:OP2	2.17	0.45
80:6:1227:A:H4'	80:6:1228:G:C5'	2.42	0.45
80:6:1453:G:H2'	80:6:1454:G:C8	2.52	0.45
80:6:1484:G:H2'	80:6:1485:C:C6	2.52	0.45
80:6:1620:C:H2'	80:6:1621:U:C6	2.46	0.45
80:6:1733:C:H2'	80:6:1734:U:C6	2.52	0.45
10:S8:16:ALA:HB2	80:6:354:C:H5''	297.24	0.45
80:6:536:C:N4	80:6:537:G:C6	2.84	0.45
38:8:11:C:H2'	38:8:12:A:O4'	2.17	0.45
38:8:155:A:H2'	38:8:156:U:O4'	2.17	0.45
1:2:336:G:H5'	13:C1:130:PRO:O	2.17	0.45
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.47	0.45
17:C5:79:HIS:O	17:C5:81:ARG:N	2.82	0.45
18:C6:122:ARG:O	18:C6:123:ARG:NE	2.49	0.45
18:C6:9:THR:HG21	18:C6:88:GLY:HA2	1.98	0.45
19:C7:10:LYS:HD3	19:C7:53:TYR:CZ	3.81	0.45
19:C7:27:ASP:OD2	19:C7:30:THR:HG23	2.16	0.45
20:C8:82:PRO:O	20:C8:83:ALA:HB3	2.16	0.45
5:S3:10:LYS:NZ	22:D0:113:ASP:OD2	2.49	0.45
22:D0:71:PRO:O	31:D9:40:ARG:NH2	2.47	0.45
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.98	0.45
15:C3:18:TYR:OH	24:D2:54:ASP:OD2	4.58	0.45
15:C3:18:TYR:CZ	24:D2:56:HIS:CE1	3.47	0.45
7:S5:160:VAL:HG12	30:D8:43:ASN:HB3	2.63	0.45
33:E1:84:VAL:HG13	33:E1:85:TYR:CD1	6.91	0.45
39:L2:33:ASP:O	39:L2:37:ARG:HG2	2.15	0.45
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.22	0.45
40:L3:198:HIS:O	40:L3:199:PHE:C	2.75	0.45
42:L5:105:ILE:HG23	42:L5:106:ALA:N	3.26	0.45
42:L5:287:ALA:O	42:L5:290:ILE:HG13	2.17	0.45
42:L5:60:ILE:HD13	42:L5:60:ILE:HG21	1.94	0.45
44:L7:131:GLU:O	44:L7:229:PHE:CD1	2.70	0.45
44:L7:136:TYR:O	44:L7:231:ASN:HA	2.17	0.45
45:L8:26:LEU:HD21	63:N7:123:GLN:CD	2.37	0.45
45:L8:79:GLN:HG2	45:L8:80:TYR:N	2.50	0.45
45:L8:97:TYR:OH	45:L8:204:ARG:N	2.49	0.45
46:L9:117:PHE:CE1	46:L9:165:CYS:HB3	2.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:142:ASP:C	47:M0:144:ASN:H	2.18	0.45
51:M5:115:VAL:HG22	51:M5:134:LEU:HG	2.73	0.45
45:L8:136:LEU:HD13	51:M5:3:ALA:CB	2.65	0.45
52:M6:23:VAL:HG11	52:M6:84:LEU:HD11	1.98	0.45
55:M9:104:ARG:HH21	55:M9:108:LYS:NZ	2.15	0.45
56:N0:52:LYS:O	56:N0:55:SER:N	2.40	0.45
57:N1:96:ILE:HA	57:N1:96:ILE:HD13	3.49	0.45
58:N2:24:GLU:HG2	58:N2:24:GLU:H	2.36	0.45
59:N3:70:ARG:O	59:N3:72:LYS:HG2	6.00	0.45
40:L3:358:TRP:CH2	60:N4:15:PRO:HD2	2.52	0.45
62:N6:86:THR:HG22	62:N6:96:PRO:HA	2.13	0.45
62:N6:89:LYS:HZ3	85:5:375:A:P	77.09	0.45
63:N7:60:LYS:O	63:N7:63:ALA:N	2.50	0.45
64:N8:135:GLU:HG2	64:N8:145:VAL:HG21	1.99	0.45
72:O6:75:LYS:HE2	85:5:2216:G:OP1	166.84	0.45
77:Q1:24:SER:O	77:Q1:25:LYS:O	3.45	0.45
6:S4:114:ILE:HG22	6:S4:237:SER:OG	2.63	0.45
6:S4:129:VAL:O	6:S4:129:VAL:HG13	2.71	0.45
11:S9:102:GLU:OE2	11:S9:102:GLU:N	2.39	0.45
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.17	0.45
36:1:1317:A:C5	36:1:1319:G:C8	3.05	0.45
36:1:2261:G:H21	36:1:2262:A:N6	2.15	0.45
36:1:2280:A:H5''	36:1:2281:A:P	2.57	0.45
36:1:230:U:C4	36:1:231:G:N7	2.84	0.45
36:1:2961:G:C6	36:1:2962:U:C4	3.05	0.45
36:1:3021:A:O4'	36:1:3023:U:C6	2.70	0.45
36:1:3177:G:C2	36:1:3179:U:C5	3.05	0.45
36:1:3182:G:H2'	36:1:3183:A:O4'	2.17	0.45
36:1:3210:A:H2'	36:1:3211:C:O4'	2.17	0.45
36:1:3252:G:H2'	36:1:3253:G:C8	2.51	0.45
36:1:3084:C:O2'	36:1:3332:U:OP1	2.23	0.45
36:1:3343:G:H2'	36:1:3361:G:H21	1.82	0.45
36:1:381:U:H2'	36:1:382:U:C6	2.51	0.45
36:1:394:G:N2	36:1:396:A:H3'	2.32	0.45
36:1:613:G:H2'	36:1:614:C:H6	1.82	0.45
36:1:936:A:H5''	36:1:937:G:OP1	2.16	0.45
1:2:1254:G:C5	1:2:1255:U:C4	3.05	0.45
1:2:1515:U:O4	1:2:1516:C:N4	2.50	0.45
1:2:1519:G:C2	1:2:1521:U:C2	3.05	0.45
1:2:564:G:N1	1:2:578:U:O4'	2.50	0.45
1:2:685:G:O2'	1:2:686:G:H8	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:836:G:O6	55:M9:173:ARG:NH2	2.50	0.45
1:2:852:A:H2'	1:2:853:C:O4'	2.17	0.45
37:3:5:G:OP1	48:M1:143:ARG:NH2	2.43	0.45
85:5:1146:C:H2'	85:5:1147:G:H8	1.81	0.45
85:5:1273:A:H3'	85:5:1274:A:C8	2.50	0.45
85:5:1611:G:H2'	85:5:1612:A:C8	2.52	0.45
85:5:1807:G:C6	85:5:1808:G:C6	3.05	0.45
85:5:241:G:H2'	85:5:242:C:O4'	2.17	0.45
85:5:3263:G:C2	85:5:3264:G:C8	3.05	0.45
85:5:497:C:N4	85:5:616:G:H1	2.14	0.45
85:5:957:C:N3	85:5:958:C:C5	2.85	0.45
80:6:1491:U:H5'	80:6:1492:A:OP1	2.16	0.45
8:S6:65:GLN:HG3	80:6:1681:A:H8	278.20	0.45
80:6:1616:G:N7	92:6:1994:OHX:N5	2.65	0.45
80:6:323:A:C6	80:6:324:U:O4	2.70	0.45
25:D3:66:SER:HB3	80:6:565:C:O2	360.71	0.45
80:6:643:G:N2	80:6:692:C:C2	2.85	0.45
80:6:722:G:H1'	80:6:723:G:C8	2.52	0.45
37:7:106:U:C2	37:7:107:C:C6	3.05	0.45
56:N0:50:LYS:HD3	37:7:77:G:O5'	300.92	0.45
12:C0:8:ARG:HD2	12:C0:12:HIS:HE1	1.82	0.45
15:C3:102:LEU:HD23	15:C3:102:LEU:HA	1.54	0.45
1:2:902:A:H4'	16:C4:35:GLY:HA3	1.99	0.45
17:C5:31:GLU:HA	17:C5:34:VAL:HG22	2.09	0.45
18:C6:40:GLU:OE2	18:C6:42:GLU:HB2	2.17	0.45
19:C7:108:ASP:N	19:C7:108:ASP:OD1	3.38	0.45
20:C8:3:LEU:HD23	20:C8:5:VAL:HG23	5.66	0.45
21:C9:74:GLY:O	21:C9:77:ASN:N	3.61	0.45
22:D0:24:ILE:HG21	22:D0:41:ILE:HD13	7.65	0.45
28:D6:72:HIS:N	28:D6:72:HIS:ND1	3.93	0.45
24:D2:62:VAL:HG13	29:D7:7:LEU:HD12	3.20	0.45
32:E0:46:ASN:OD1	32:E0:47:VAL:N	3.16	0.45
39:L2:15:ILE:HD12	39:L2:15:ILE:HA	4.65	0.45
41:L4:99:MET:CE	41:L4:102:PRO:HA	2.58	0.45
41:L4:252:GLU:O	41:L4:253:ALA:C	2.53	0.45
41:L4:338:LYS:HD2	41:L4:338:LYS:HA	1.48	0.45
41:L4:361:HIS:CG	41:L4:362:ASP:N	2.85	0.45
42:L5:184:ASP:HB3	42:L5:187:THR:O	2.16	0.45
42:L5:20:PHE:CD2	37:7:10:C:C4	278.09	0.45
42:L5:259:LYS:O	42:L5:260:PHE:HB2	2.17	0.45
44:L7:175:LYS:HE2	44:L7:175:LYS:HB2	1.60	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:90:MET:HE3	46:L9:181:VAL:HG22	3.43	0.45
47:M0:141:LYS:O	47:M0:142:ASP:C	2.56	0.45
48:M1:21:ILE:HG12	48:M1:125:MET:HB3	4.94	0.45
49:M3:119:TYR:HD1	49:M3:145:PHE:CE2	2.34	0.45
50:M4:18:GLY:O	50:M4:69:THR:HG22	2.16	0.45
51:M5:106:VAL:C	51:M5:109:ARG:H	2.20	0.45
49:M3:28:GLN:OE1	51:M5:201:ARG:NH1	3.11	0.45
51:M5:24:ARG:HA	51:M5:27:VAL:HG12	1.97	0.45
52:M6:65:ASN:OD1	52:M6:67:THR:HB	2.16	0.45
53:M7:151:THR:HG22	53:M7:152:GLU:N	2.30	0.45
46:L9:4:ILE:HD11	56:N0:150:PHE:CD2	2.52	0.45
57:N1:109:VAL:HA	57:N1:112:ASN:HD22	2.82	0.45
44:L7:73:GLY:O	57:N1:143:THR:HB	3.70	0.45
36:1:2629:U:O4	57:N1:2:GLY:N	2.50	0.45
59:N3:104:ASN:O	59:N3:107:GLY:N	2.53	0.45
63:N7:15:ARG:HD2	63:N7:79:HIS:CD2	3.95	0.45
64:N8:128:ARG:CB	72:O6:8:ALA:HB2	3.23	0.45
65:N9:58:LYS:HA	65:N9:58:LYS:HD2	1.58	0.45
67:O1:36:ILE:O	67:O1:39:PHE:HB3	2.17	0.45
70:O4:106:LYS:O	70:O4:110:GLU:HG3	2.61	0.45
71:O5:31:LEU:HA	71:O5:31:LEU:HD23	1.75	0.45
72:O6:52:PRO:O	72:O6:56:ARG:N	3.21	0.45
74:O8:26:LYS:O	74:O8:27:ILE:HD13	2.16	0.45
78:Q2:101:GLY:C	78:Q2:102:GLN:HE21	6.39	0.45
78:Q2:46:LYS:O	92:Q2:502:OHX:N3	3.38	0.45
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.82	0.45
2:S0:3:LEU:HA	2:S0:4:PRO:HD2	2.73	0.45
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.43	0.45
4:S2:148:LEU:HD22	4:S2:148:LEU:HA	1.76	0.45
4:S2:44:LEU:HD11	4:S2:247:ALA:HB2	1.99	0.45
5:S3:69:LEU:O	5:S3:73:VAL:HG23	2.17	0.45
7:S5:216:GLU:O	7:S5:220:VAL:HG23	2.27	0.45
8:S6:22:HIS:HA	8:S6:25:ARG:HH11	1.82	0.45
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.97	0.45
9:S7:155:ASP:OD2	9:S7:156:SER:N	2.45	0.45
10:S8:82:VAL:HG13	10:S8:101:ILE:HG22	6.63	0.45
11:S9:109:LEU:HD13	11:S9:129:ILE:CD1	2.64	0.45
34:SR:238:ASP:OD2	34:SR:258:THR:HG23	2.17	0.45
36:1:1284:C:C4	36:1:1285:G:N1	2.84	0.45
36:1:1294:A:C2	36:1:1295:G:N7	2.85	0.45
36:1:1307:G:C2	36:1:1308:A:C2	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1412:G:H2'	36:1:1413:G:O4'	2.17	0.45
36:1:1428:A:OP2	64:N8:2:PRO:HB2	2.17	0.45
36:1:1654:A:N6	36:1:1655:G:C6	2.85	0.45
36:1:168:U:H6	36:1:168:U:O5'	2.00	0.45
36:1:1921:A:N6	36:1:1929:G:H2'	2.32	0.45
36:1:2209:U:OP2	36:1:2209:U:C6	2.70	0.45
36:1:2244:A:H2'	36:1:2245:C:H6	1.82	0.45
36:1:422:A:C2	36:1:2363:A:H4'	2.52	0.45
36:1:2380:U:N3	36:1:2381:G:C8	2.85	0.45
36:1:2946:A:C2	36:1:2982:A:C4	3.05	0.45
36:1:2808:A:N7	36:1:2955:U:H4'	2.32	0.45
36:1:3060:C:OP2	92:1:3572:OHX:N6	2.50	0.45
36:1:551:A:O2'	36:1:552:G:H8	2.00	0.45
92:2:1961:OHX:N6	92:C7:201:OHX:N2	2.64	0.45
1:2:381:C:H1'	1:2:739:A:C2	2.51	0.45
1:2:361:C:C2	1:2:384:G:N2	2.85	0.45
1:2:432:G:C2	1:2:433:C:C2	3.05	0.45
1:2:513:U:H2'	1:2:514:G:C8	2.52	0.45
1:2:5:U:O2	1:2:20:G:C2	2.70	0.45
1:2:867:A:H2'	1:2:868:G:C8	2.52	0.45
37:3:42:A:C5	37:3:43:U:C5	3.04	0.45
37:3:67:G:H2'	37:3:68:C:O4'	2.16	0.45
52:M6:60:LYS:HE2	85:5:1307:G:H5''	250.80	0.45
85:5:1311:G:H2'	85:5:1312:C:C6	2.52	0.45
68:O2:125:ARG:NH2	85:5:1393:A:OP1	131.26	0.45
85:5:1475:A:C2	85:5:1476:G:C4	3.05	0.45
85:5:1487:G:C6	85:5:1488:G:C8	3.05	0.45
85:5:1561:G:N2	85:5:1562:C:H1'	2.31	0.45
85:5:1760:A:C2	85:5:1766:G:C2	3.05	0.45
85:5:1757:A:C2	85:5:1769:G:C4	3.05	0.45
85:5:2852:C:N4	85:5:2853:A:C5	2.85	0.45
85:5:3100:U:O2	85:5:3101:G:C8	2.70	0.45
85:5:3253:G:C4	85:5:3254:G:C8	3.05	0.45
85:5:3258:U:O2'	85:5:3260:G:OP1	2.32	0.45
85:5:340:C:H2'	85:5:341:G:C8	2.52	0.45
85:5:67:A:H2'	85:5:68:C:OP1	2.16	0.45
85:5:872:U:H2'	85:5:873:C:H6	1.83	0.45
53:M7:131:ARG:HH21	85:5:879:U:H2'	164.24	0.45
80:6:1003:A:H4'	80:6:1004:U:O5'	2.16	0.45
80:6:1405:G:H2'	80:6:1406:A:C8	2.52	0.45
80:6:1670:G:O5'	80:6:1670:G:H8	2.00	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1776:A:H2'	80:6:1777:G:C8	2.52	0.45
80:6:281:G:C6	80:6:282:C:N4	2.85	0.45
80:6:386:G:N1	80:6:387:A:C6	2.85	0.45
80:6:616:G:C2	80:6:622:A:N7	2.85	0.45
11:S9:79:ARG:NH1	80:6:762:A:OP1	407.88	0.45
80:6:998:A:C5	80:6:999:U:C5	3.05	0.45
15:C3:16:ILE:HA	15:C3:16:ILE:HD12	4.40	0.45
16:C4:131:GLY:O	16:C4:133:ARG:N	2.78	0.45
5:S3:203:PRO:HA	19:C7:42:GLN:HG3	1.99	0.45
20:C8:11:PHE:HB2	20:C8:60:GLU:HA	1.99	0.45
22:D0:23:ARG:HB3	22:D0:117:VAL:HB	4.58	0.45
1:2:1082:U:H5''	24:D2:71:LYS:NZ	2.32	0.45
27:D5:71:ILE:HG12	27:D5:76:ALA:HB2	4.66	0.45
28:D6:11:ASN:O	28:D6:33:ASP:HB2	2.16	0.45
32:E0:43:ARG:O	32:E0:44:PHE:CD1	2.70	0.45
39:L2:113:VAL:HG22	39:L2:166:ILE:HA	1.99	0.45
40:L3:4:ARG:HH11	40:L3:4:ARG:HG3	3.44	0.45
41:L4:16:THR:HG23	41:L4:18:ASN:H	2.08	0.45
41:L4:203:ARG:NH2	41:L4:240:PRO:HB3	2.32	0.45
42:L5:140:ARG:O	85:5:1079:A:H4'	235.37	0.45
44:L7:205:PHE:CD2	44:L7:205:PHE:N	3.21	0.45
44:L7:89:ILE:HG23	44:L7:89:ILE:HD12	1.56	0.45
47:M0:205:SER:HB3	47:M0:208:ASN:HD21	2.02	0.45
47:M0:69:ARG:O	47:M0:72:ALA:HB3	3.63	0.45
47:M0:90:ARG:HD2	47:M0:90:ARG:HH11	1.85	0.45
48:M1:63:GLU:O	48:M1:64:LYS:HB2	2.17	0.45
49:M3:6:ASN:OD1	54:M8:164:ARG:NH1	4.71	0.45
51:M5:197:LEU:HD12	51:M5:197:LEU:HA	2.47	0.45
53:M7:67:ILE:N	53:M7:67:ILE:HD12	2.32	0.45
56:N0:46:GLN:HG2	56:N0:51:VAL:O	2.16	0.45
57:N1:74:VAL:O	57:N1:89:LEU:HB2	2.17	0.45
58:N2:90:ARG:O	58:N2:91:ASP:HB2	2.17	0.45
59:N3:13:ILE:HD11	59:N3:53:SER:HB2	1.98	0.45
59:N3:27:ASP:OD1	59:N3:29:SER:HB3	4.33	0.45
61:N5:106:ASP:HB2	61:N5:130:TYR:HE1	2.49	0.45
61:N5:40:LEU:HA	61:N5:40:LEU:HD13	2.48	0.45
63:N7:46:ILE:HG12	63:N7:49:TYR:CD1	3.15	0.45
49:M3:64:LYS:HE3	64:N8:69:TRP:HD1	1.81	0.45
57:N1:88:ARG:HD3	65:N9:33:LYS:HZ1	7.21	0.45
67:O1:14:ILE:HG13	67:O1:39:PHE:CE1	4.18	0.45
71:O5:66:VAL:HG12	71:O5:70:TYR:HD2	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:O8:60:GLY:O	74:O8:61:LYS:C	2.54	0.45
2:S0:188:LEU:HD21	2:S0:195:TRP:NE1	2.32	0.45
6:S4:36:HIS:CE1	6:S4:85:GLY:HA3	3.58	0.45
6:S4:95:THR:HG22	26:D4:16:PRO:HD2	1.99	0.45
7:S5:151:GLY:HA3	7:S5:156:ARG:N	5.12	0.45
10:S8:184:LEU:HD23	10:S8:189:LEU:HA	1.99	0.45
36:1:1108:U:C2	36:1:1109:U:C5	3.05	0.44
36:1:951:A:C4	36:1:1369:A:C2	3.05	0.44
36:1:1504:A:C6	36:1:1505:C:C4	3.05	0.44
36:1:1661:G:H2'	36:1:1662:G:C8	2.52	0.44
36:1:1902:G:H3'	36:1:1903:U:C6	2.52	0.44
36:1:2145:A:C2	36:1:2146:C:C6	3.05	0.44
36:1:2226:U:O3'	78:Q2:32:LYS:NZ	2.48	0.44
36:1:2392:C:H5''	36:1:2393:G:OP2	2.16	0.44
36:1:242:C:HO2'	36:1:243:G:H8	1.63	0.44
36:1:2557:A:C5'	63:N7:135:ARG:HH11	2.30	0.44
36:1:2593:A:H4'	36:1:2594:C:O5'	2.17	0.44
36:1:2762:A:H1'	36:1:2800:G:C6	2.52	0.44
36:1:2819:A:O2'	36:1:2820:A:H5'	2.17	0.44
36:1:3039:C:OP1	40:L3:65:SER:OG	2.30	0.44
36:1:67:A:C2	36:1:317:A:C8	3.05	0.44
36:1:3347:A:C2	36:1:3359:A:C2	3.05	0.44
36:1:370:U:C4	36:1:371:G:C6	3.04	0.44
36:1:426:G:C5	36:1:427:C:C5	3.05	0.44
36:1:540:U:H2'	36:1:541:U:O4'	2.17	0.44
1:2:1227:A:HO2'	1:2:1228:G:P	2.39	0.44
1:2:1795:G:H2'	1:2:1796:C:H5''	1.99	0.44
1:2:301:A:H8	1:2:301:A:O5'	1.99	0.44
1:2:328:A:H2'	1:2:329:G:O4'	2.17	0.44
1:2:413:U:H2'	1:2:414:C:C6	2.52	0.44
1:2:586:G:H2'	1:2:587:C:C6	2.52	0.44
1:2:875:A:C6	1:2:876:U:C4	3.06	0.44
1:2:912:A:O4'	16:C4:124:ASP:HB3	2.17	0.44
85:5:1234:G:O5'	85:5:1235:U:H5''	2.17	0.44
85:5:1363:A:O5'	85:5:1363:A:H8	2.01	0.44
85:5:1375:G:N3	85:5:1407:A:H2	2.15	0.44
85:5:1387:G:N1	85:5:1388:U:C4	2.86	0.44
85:5:1595:U:O2	85:5:1596:C:N1	2.50	0.44
85:5:1661:G:N2	85:5:1789:G:N3	2.65	0.44
85:5:1811:G:C6	85:5:1812:G:C8	3.06	0.44
85:5:1906:G:N2	85:5:1909:A:N1	2.61	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:204:A:C2	85:5:205:C:C2	3.05	0.44
85:5:2157:G:N1	85:5:2178:A:OP2	2.48	0.44
85:5:2218:G:O2'	85:5:2219:A:H5'	2.16	0.44
85:5:2271:A:N7	85:5:2272:G:C6	2.85	0.44
85:5:228:U:H6	85:5:228:U:O5'	1.99	0.44
85:5:2541:U:H4'	85:5:2542:U:OP1	2.18	0.44
85:5:2581:U:H2'	85:5:2582:C:C6	2.47	0.44
85:5:2882:U:H2'	85:5:2883:U:C6	2.52	0.44
85:5:3288:G:O2'	85:5:3289:G:H8	2.00	0.44
85:5:365:A:C4	85:5:366:A:C8	3.05	0.44
85:5:525:C:H2'	85:5:526:C:C6	2.52	0.44
85:5:798:G:C6	85:5:799:G:C5	3.05	0.44
80:6:1087:A:H5'	80:6:1298:U:C5	2.52	0.44
80:6:1511:U:H2'	80:6:1512:G:C8	2.53	0.44
80:6:1777:G:H2'	80:6:1778:G:H8	1.81	0.44
92:6:1921:OHX:N6	92:6:1929:OHX:N2	2.65	0.44
80:6:293:U:H2'	80:6:294:C:C6	2.51	0.44
6:S4:187:ARG:NH1	80:6:753:A:N7	373.60	0.44
37:7:62:U:O4	37:7:63:A:N6	2.50	0.44
13:C1:94:ILE:O	13:C1:95:PRO:C	2.91	0.44
16:C4:71:CYS:O	16:C4:75:GLY:N	3.21	0.44
7:S5:27:THR:HG23	18:C6:28:LEU:HB2	2.65	0.44
18:C6:40:GLU:OE2	18:C6:45:ARG:NH2	3.42	0.44
20:C8:8:GLN:HB3	20:C8:9:GLY:H	3.19	0.44
22:D0:118:VAL:HB	22:D0:119:ALA:H	3.75	0.44
25:D3:107:PHE:CD2	25:D3:114:LYS:HB3	3.80	0.44
33:E1:86:THR:O	33:E1:87:THR:OG1	2.57	0.44
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.14	0.44
41:L4:82:THR:O	41:L4:82:THR:OG1	2.35	0.44
42:L5:102:GLY:O	42:L5:105:ILE:HG22	2.74	0.44
42:L5:122:VAL:HG13	42:L5:123:GLU:N	2.66	0.44
42:L5:150:LEU:HD23	42:L5:150:LEU:HA	1.77	0.44
43:L6:149:ILE:HG23	43:L6:155:LEU:HD13	1.97	0.44
43:L6:26:ARG:HB3	43:L6:27:PRO:HD2	2.31	0.44
44:L7:130:ILE:HG22	44:L7:134:VAL:HG22	6.29	0.44
46:L9:4:ILE:HG21	46:L9:4:ILE:HD13	1.89	0.44
47:M0:160:PRO:HB3	85:5:2854:U:O3'	289.36	0.44
47:M0:29:SER:O	47:M0:30:LYS:C	2.54	0.44
47:M0:63:GLU:H	47:M0:63:GLU:CD	2.17	0.44
49:M3:112:ASN:O	49:M3:116:LEU:N	2.49	0.44
51:M5:105:ARG:NH1	85:5:1547:G:OP2	132.19	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:110:ASN:HB2	51:M5:201:ARG:O	2.56	0.44
53:M7:113:TYR:C	53:M7:113:TYR:CD1	3.80	0.44
53:M7:67:ILE:HG21	53:M7:80:LYS:HB3	1.98	0.44
54:M8:53:PHE:N	54:M8:53:PHE:CD1	2.83	0.44
55:M9:180:LYS:HG3	55:M9:184:LEU:HD12	4.25	0.44
36:1:534:U:O2	56:N0:146:LYS:HA	2.18	0.44
50:M4:43:LYS:HE3	56:N0:96:ASP:OD2	2.17	0.44
56:N0:89:ASN:OD1	57:N1:156:TYR:HB3	2.17	0.44
61:N5:57:LEU:HD13	61:N5:94:GLN:HE22	6.97	0.44
64:N8:19:LYS:HB3	64:N8:25:HIS:HB2	2.37	0.44
64:N8:75:LEU:HG	64:N8:114:GLY:HA2	1.98	0.44
57:N1:88:ARG:HH21	65:N9:33:LYS:HB3	1.82	0.44
68:O2:103:LYS:O	68:O2:105:ARG:N	2.50	0.44
68:O2:26:HIS:O	68:O2:28:VAL:N	2.50	0.44
70:O4:44:CYS:SG	70:O4:81:CYS:SG	3.37	0.44
36:1:1485:G:H22	70:O4:4:ARG:HD2	1.81	0.44
73:O7:70:VAL:HA	73:O7:73:ARG:HB2	2.88	0.44
78:Q2:79:THR:OG1	78:Q2:80:ARG:N	2.49	0.44
79:Q3:81:SER:OG	79:Q3:82:THR:N	3.71	0.44
2:S0:69:ASN:HB3	2:S0:71:GLU:OE2	2.26	0.44
7:S5:111:VAL:O	7:S5:114:ILE:HB	2.17	0.44
1:2:395:U:O4'	8:S6:90:GLY:HA3	2.17	0.44
11:S9:146:PHE:HZ	11:S9:149:ARG:CZ	2.30	0.44
11:S9:30:LEU:HD22	11:S9:105:LEU:CD2	2.47	0.44
36:1:1182:A:H2'	36:1:1183:C:O4'	2.17	0.44
36:1:120:G:N2	45:L8:123:GLN:O	2.50	0.44
36:1:1701:C:H2'	36:1:1702:U:O4'	2.16	0.44
36:1:1778:G:N2	36:1:1780:G:C8	2.84	0.44
36:1:2275:A:H2'	36:1:2276:G:O4'	2.17	0.44
36:1:2421:U:H2'	36:1:2422:C:O4'	2.18	0.44
36:1:3030:G:C8	36:1:3031:G:C8	3.06	0.44
36:1:313:A:H2'	36:1:314:U:O4'	2.17	0.44
36:1:800:G:H2'	36:1:801:A:C8	2.52	0.44
1:2:1132:G:H1'	1:2:1748:A:C4	2.51	0.44
1:2:25:C:H4'	1:2:26:A:O5'	2.17	0.44
1:2:407:A:H2'	1:2:408:C:C6	2.53	0.44
1:2:552:G:C6	1:2:553:G:C6	3.05	0.44
1:2:743:A:H2'	1:2:744:G:O4'	2.17	0.44
37:3:28:C:H5''	48:M1:137:ARG:HG2	1.98	0.44
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.49	0.44
85:5:1329:U:O2'	85:5:1330:A:P	2.72	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:77:LYS:NZ	85:5:1679:A:OP2	138.60	0.44
70:O4:41:ARG:NH1	85:5:1739:U:H1'	189.23	0.44
85:5:1741:A:C5	85:5:1742:U:C2	3.05	0.44
85:5:1746:U:H2'	85:5:1747:G:H8	1.83	0.44
85:5:2189:U:C5	85:5:2190:U:C5	3.05	0.44
85:5:2631:U:C2	85:5:2632:G:N7	2.86	0.44
85:5:2902:A:OP1	85:5:3032:A:H1'	2.17	0.44
85:5:359:U:O4	85:5:360:G:C6	2.70	0.44
92:5:3625:OHX:N6	92:5:3643:OHX:N2	2.66	0.44
92:5:3692:OHX:N3	92:5:3694:OHX:N4	2.65	0.44
85:5:430:U:H2'	85:5:431:U:O4'	2.17	0.44
85:5:812:G:C2	85:5:929:A:C2	3.06	0.44
80:6:1279:C:H2'	80:6:1280:C:O4'	2.17	0.44
5:S3:27:ARG:NH2	80:6:1436:A:OP2	421.09	0.44
80:6:1489:U:O2'	80:6:1490:C:OP2	2.33	0.44
80:6:1562:G:C6	80:6:1563:C:C4	3.06	0.44
92:6:2005:OHX:N2	92:6:2048:OHX:N1	2.66	0.44
80:6:43:A:N3	80:6:378:A:C5	2.85	0.44
80:6:906:A:N6	80:6:907:A:C6	2.85	0.44
12:C0:2:LEU:HD22	80:6:1258:U:H4'	432.65	0.44
13:C1:55:ASP:OD2	13:C1:58:CYS:N	2.50	0.44
15:C3:64:ARG:HA	15:C3:67:THR:O	2.17	0.44
16:C4:87:GLY:HA3	16:C4:120:PRO:HG2	2.64	0.44
19:C7:31:ASN:H	19:C7:31:ASN:HD22	4.39	0.44
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.81	0.44
20:C8:112:ASP:O	20:C8:115:ARG:N	2.78	0.44
20:C8:50:ALA:HB2	20:C8:72:ILE:HD12	2.51	0.44
21:C9:34:VAL:O	21:C9:36:ILE:HG23	2.16	0.44
22:D0:69:LYS:HE2	22:D0:80:GLU:HB2	2.00	0.44
23:D1:34:ILE:HA	23:D1:34:ILE:HD13	1.90	0.44
9:S7:143:LEU:HD13	24:D2:49:GLU:OE2	2.27	0.44
25:D3:23:ARG:HB2	25:D3:29:TYR:CE1	3.31	0.44
30:D8:32:PHE:HZ	30:D8:38:ARG:HE	1.62	0.44
39:L2:32:LEU:HD23	39:L2:163:ARG:HD3	1.99	0.44
39:L2:206:PRO:HG3	39:L2:213:GLY:HA3	1.99	0.44
39:L2:21:ARG:HD2	39:L2:21:ARG:HH11	1.84	0.44
39:L2:70:ARG:NH1	39:L2:72:ARG:NH2	7.20	0.44
40:L3:275:ARG:HD3	40:L3:275:ARG:HA	1.67	0.44
40:L3:60:LEU:HD23	40:L3:67:PHE:O	3.10	0.44
40:L3:93:VAL:O	40:L3:99:LEU:HA	2.62	0.44
41:L4:24:ALA:O	41:L4:26:PHE:N	3.30	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:88:ARG:NE	44:L7:103:LEU:HD13	2.32	0.44
45:L8:133:LYS:HB2	45:L8:199:ALA:O	3.51	0.44
46:L9:134:ILE:O	46:L9:134:ILE:HG22	2.17	0.44
53:M7:9:THR:HG23	53:M7:10:ASN:N	2.42	0.44
53:M7:85:ALA:O	53:M7:86:LYS:C	2.80	0.44
58:N2:29:ASP:OD2	58:N2:32:SER:N	5.21	0.44
59:N3:2:SER:OG	59:N3:3:GLY:N	4.27	0.44
60:N4:47:ARG:HD3	60:N4:58:HIS:HD2	7.73	0.44
61:N5:82:LEU:N	61:N5:124:VAL:O	2.90	0.44
62:N6:5:SER:O	62:N6:7:ASP:N	3.93	0.44
63:N7:76:ASN:HB3	63:N7:79:HIS:ND1	2.32	0.44
65:N9:57:ALA:O	65:N9:59:LYS:HE2	6.71	0.44
68:O2:73:THR:OG1	68:O2:74:PHE:N	2.48	0.44
69:O3:85:PHE:CE1	69:O3:89:LEU:HD11	2.52	0.44
36:1:3173:G:O6	69:O3:92:LYS:HG2	2.17	0.44
75:O9:15:LYS:HE3	75:O9:19:GLN:HE22	1.82	0.44
78:Q2:14:GLY:O	78:Q2:17:CYS:O	5.40	0.44
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.22	0.44
3:S1:119:THR:HG22	3:S1:120:LEU:H	1.82	0.44
3:S1:183:GLN:O	3:S1:187:LYS:HG3	2.23	0.44
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	2.27	0.44
4:S2:165:VAL:HA	4:S2:201:ASN:O	2.40	0.44
4:S2:230:TRP:HZ2	24:D2:46:TYR:CE1	2.35	0.44
6:S4:28:ALA:O	80:6:448:C:H4'	364.93	0.44
6:S4:9:LEU:HB2	6:S4:30:ARG:HB2	2.69	0.44
11:S9:115:LYS:HD2	11:S9:115:LYS:HA	1.58	0.44
11:S9:78:ARG:HG3	11:S9:79:ARG:N	2.64	0.44
34:SR:171:SER:OG	34:SR:181:TRP:NE1	2.94	0.44
34:SR:250:TYR:HD2	34:SR:266:ASP:HB3	4.48	0.44
34:SR:10:ARG:NH1	34:SR:51:ASP:OD1	6.34	0.44
36:1:1390:A:H4'	36:1:1391:C:H5''	1.99	0.44
36:1:1392:G:O2'	36:1:1417:G:N2	2.40	0.44
36:1:1587:A:OP1	92:1:3479:OHX:N6	2.51	0.44
36:1:2628:A:H1'	36:1:2798:C:C2	2.52	0.44
36:1:2842:U:C5	36:1:2843:U:C5	3.05	0.44
36:1:3018:C:H2'	36:1:3019:U:O4'	2.18	0.44
36:1:3327:G:C2	36:1:3328:G:C8	3.06	0.44
36:1:3393:U:H2'	36:1:3394:U:H6	1.82	0.44
36:1:1246:G:OP2	92:1:3638:OHX:N3	2.51	0.44
36:1:816:A:H5'	36:1:906:A:H61	1.82	0.44
1:2:1791:G:H21	1:2:1802:C:H41	1.64	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:103:A:C4	1:2:309:C:N4	2.85	0.44
1:2:93:A:H2'	1:2:398:G:N2	2.33	0.44
37:3:27:A:O4'	37:3:57:G:N2	2.50	0.44
38:4:45:C:H2'	38:4:46:G:O4'	2.17	0.44
85:5:1170:A:OP2	92:5:3506:OHX:N3	2.51	0.44
85:5:20:A:O2'	85:5:21:G:H5'	2.17	0.44
85:5:3006:A:H2'	85:5:3007:U:O4'	2.17	0.44
85:5:706:A:H2'	85:5:707:U:O4'	2.17	0.44
54:M8:146:SER:OG	85:5:786:A:OP1	156.99	0.44
80:6:370:A:N6	80:6:371:G:C2	2.86	0.44
24:D2:82:LYS:HZ2	80:6:794:U:H1'	359.13	0.44
12:C0:58:GLN:O	12:C0:65:TYR:N	2.49	0.44
1:2:249:U:H5	13:C1:34:TRP:CE2	2.35	0.44
14:C2:138:GLU:OE2	14:C2:142:GLN:HB3	3.58	0.44
15:C3:123:HIS:CE1	15:C3:141:TYR:HD2	2.64	0.44
20:C8:119:ILE:HA	20:C8:119:ILE:HD12	2.54	0.44
20:C8:120:ARG:NH2	35:SM:61:ILE:HD11	2.32	0.44
22:D0:30:LYS:HD3	22:D0:33:GLN:NE2	2.31	0.44
22:D0:52:LYS:HB3	22:D0:93:LEU:HD23	2.00	0.44
24:D2:71:LYS:NZ	80:6:1099:U:H5''	373.04	0.44
39:L2:212:GLY:O	39:L2:213:GLY:C	3.85	0.44
39:L2:86:GLN:HG2	39:L2:88:ILE:CD1	2.67	0.44
36:1:3370:A:H5'	40:L3:384:LYS:HD2	2.00	0.44
41:L4:300:ARG:CG	41:L4:301:PRO:HD2	4.14	0.44
43:L6:105:TYR:CE1	43:L6:134:ARG:HD2	2.50	0.44
47:M0:31:ILE:HB	47:M0:66:GLU:HB2	1.99	0.44
49:M3:21:ARG:HB3	51:M5:196:THR:OG1	2.18	0.44
59:N3:86:ARG:HG2	59:N3:86:ARG:NH1	3.00	0.44
60:N4:49:ILE:HA	60:N4:49:ILE:HD13	2.42	0.44
61:N5:71:THR:O	61:N5:75:LYS:HG3	2.38	0.44
62:N6:62:SER:C	62:N6:64:LYS:H	2.20	0.44
63:N7:77:TYR:C	63:N7:79:HIS:H	2.21	0.44
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.51	0.44
49:M3:176:GLU:HG2	72:O6:11:LEU:HD23	3.16	0.44
79:Q3:13:LYS:HD2	79:Q3:14:TYR:CE1	2.52	0.44
79:Q3:84:ARG:O	79:Q3:85:ARG:C	2.56	0.44
2:S0:172:LEU:HD22	2:S0:176:LEU:HG	3.06	0.44
2:S0:177:LEU:O	2:S0:181:VAL:HG22	2.94	0.44
3:S1:167:VAL:O	3:S1:171:ILE:HG13	2.47	0.44
6:S4:208:VAL:HG21	6:S4:225:VAL:HG21	1.98	0.44
7:S5:20:PHE:O	7:S5:21:THR:OG1	2.31	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:62:VAL:HG13	9:S7:66:SER:OG	2.47	0.44
11:S9:135:ALA:HB1	11:S9:139:GLN:O	2.17	0.44
11:S9:53:ARG:O	11:S9:57:ARG:HB2	3.24	0.44
35:SM:24:GLU:C	35:SM:25:ILE:HD12	2.37	0.44
35:SM:32:SER:OG	35:SM:32:SER:O	2.30	0.44
35:SM:84:LYS:HG2	35:SM:86:ASN:H	1.82	0.44
36:1:1346:G:C2	36:1:1359:C:O2	2.70	0.44
36:1:1415:U:H2'	36:1:1416:C:O4'	2.17	0.44
36:1:1462:A:C6	36:1:1463:U:C4	3.05	0.44
36:1:1672:U:O2'	36:1:1673:G:H5'	2.17	0.44
36:1:1774:C:H2'	36:1:1775:G:O4'	2.17	0.44
36:1:2507:C:H2'	36:1:2508:U:C6	2.51	0.44
36:1:2534:G:H2'	36:1:2535:A:H8	1.83	0.44
36:1:2558:U:O2'	36:1:2559:U:H5'	2.17	0.44
36:1:2590:A:C5	36:1:2591:A:N7	2.85	0.44
36:1:2870:C:H6	36:1:2870:C:H2'	1.62	0.44
36:1:642:U:O5'	36:1:642:U:H6	2.01	0.44
36:1:66:A:O4'	51:M5:176:LYS:NZ	2.43	0.44
1:2:1436:G:H2'	1:2:1437:G:H8	1.82	0.44
1:2:1618:A:H8	1:2:1618:A:O5'	2.00	0.44
1:2:1736:A:C6	1:2:1737:A:C6	3.06	0.44
1:2:1742:C:H2'	1:2:1743:G:O4'	2.18	0.44
1:2:753:A:OP2	92:2:2020:OHX:N6	2.50	0.44
1:2:72:A:N7	8:S6:169:TYR:HE2	2.16	0.44
39:L2:187:HIS:CD2	85:5:1794:G:C5	199.78	0.44
85:5:1867:A:C6	85:5:1868:G:C6	3.06	0.44
85:5:1913:A:N3	85:5:2120:A:H2'	2.32	0.44
85:5:2278:C:N3	85:5:2307:G:C2	2.86	0.44
85:5:2516:U:H3	85:5:2591:A:H2	1.65	0.44
85:5:2656:A:C2	85:5:2658:G:C5	3.05	0.44
85:5:2950:G:C4	85:5:2979:U:C4	3.06	0.44
85:5:3275:U:O4'	85:5:3275:U:OP1	2.35	0.44
85:5:662:U:H2'	85:5:663:C:C6	2.51	0.44
41:L4:31:ARG:NH2	85:5:674:G:OP1	140.30	0.44
85:5:764:U:C2'	85:5:765:C:H2'	2.46	0.44
85:5:856:G:O6	85:5:857:G:N1	2.50	0.44
85:5:956:U:H2'	85:5:957:C:H6	1.81	0.44
80:6:1395:G:C6	80:6:1396:U:C2	3.06	0.44
21:C9:47:PRO:HA	80:6:1477:G:O2'	373.97	0.44
80:6:296:U:C4	80:6:297:U:C4	3.05	0.44
80:6:40:A:C2	80:6:469:C:C6	3.06	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:514:G:O2'	80:6:515:A:H8	2.00	0.44
80:6:516:G:H2'	80:6:516:G:N3	2.32	0.44
80:6:813:U:H3'	80:6:814:A:H4'	1.99	0.44
80:6:998:A:C5	80:6:999:U:C4	3.05	0.44
38:8:72:A:N3	38:8:88:A:O2'	2.46	0.44
38:8:80:A:H8	38:8:80:A:OP2	2.00	0.44
15:C3:33:VAL:O	15:C3:36:GLN:N	2.69	0.44
15:C3:30:SER:N	15:C3:66:ILE:HD11	2.32	0.44
17:C5:13:LYS:HA	17:C5:13:LYS:HD2	1.75	0.44
18:C6:83:GLN:OE1	18:C6:119:ALA:HA	2.18	0.44
19:C7:44:LYS:HG2	19:C7:48:ASN:HD21	1.82	0.44
23:D1:60:ARG:HG2	23:D1:65:SER:HB2	2.63	0.44
27:D5:46:LYS:HE3	27:D5:46:LYS:HB2	4.45	0.44
28:D6:95:ARG:NH1	80:6:1796:C:O2'	341.00	0.44
30:D8:12:VAL:HG11	30:D8:50:GLU:HA	3.08	0.44
30:D8:12:VAL:CG1	30:D8:50:GLU:HA	3.39	0.44
40:L3:166:ILE:O	40:L3:169:THR:HG22	3.68	0.44
41:L4:101:ALA:O	41:L4:102:PRO:C	2.53	0.44
36:1:2747:A:P	42:L5:176:SER:HG	2.40	0.44
42:L5:95:TRP:HZ3	42:L5:156:GLY:C	8.83	0.44
44:L7:145:ARG:HA	44:L7:185:ILE:HD11	2.00	0.44
45:L8:57:ARG:O	45:L8:61:GLN:HG3	2.63	0.44
46:L9:68:LEU:O	46:L9:70:THR:N	3.47	0.44
46:L9:90:MET:HE2	46:L9:90:MET:HB3	1.41	0.44
48:M1:109:HIS:HD2	48:M1:123:PHE:H	1.63	0.44
49:M3:5:LYS:HE2	85:5:1112:A:P	170.29	0.44
36:1:68:C:O3'	51:M5:177:GLY:HA2	2.16	0.44
51:M5:74:PRO:O	51:M5:75:VAL:O	2.35	0.44
52:M6:121:PRO:O	52:M6:124:LEU:HB2	3.47	0.44
52:M6:193:GLN:O	52:M6:196:ALA:HB3	2.16	0.44
53:M7:100:ALA:O	53:M7:103:GLU:HB3	2.17	0.44
53:M7:32:THR:HG21	53:M7:87:SER:HB3	2.05	0.44
54:M8:18:ALA:HA	54:M8:53:PHE:CE1	2.96	0.44
54:M8:30:VAL:O	54:M8:32:LEU:N	2.51	0.44
41:L4:302:ALA:N	54:M8:39:ARG:NH1	2.65	0.44
57:N1:102:ARG:CG	57:N1:102:ARG:HH11	2.25	0.44
57:N1:68:THR:HG22	57:N1:71:SER:O	2.33	0.44
57:N1:91:LEU:HD12	57:N1:96:ILE:HD13	2.00	0.44
40:L3:358:TRP:CZ2	60:N4:14:TYR:HD1	5.49	0.44
63:N7:121:ARG:HH11	63:N7:126:LYS:HB3	1.83	0.44
68:O2:105:ARG:HH11	68:O2:105:ARG:HD2	1.74	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:50:ILE:H	68:O2:50:ILE:HG23	1.45	0.44
63:N7:136:PHE:CE1	70:O4:89:ILE:HG12	2.92	0.44
72:O6:98:ARG:HD2	72:O6:98:ARG:N	2.25	0.44
79:Q3:23:ARG:HD2	79:Q3:23:ARG:HH11	1.45	0.44
79:Q3:49:ARG:HD3	79:Q3:51:ALA:C	3.45	0.44
3:S1:92:GLN:HG3	3:S1:92:GLN:O	2.16	0.44
5:S3:7:LYS:HB2	80:6:1515:A:OP2	441.92	0.44
6:S4:118:GLU:HG3	6:S4:121:TYR:CE1	2.52	0.44
1:2:736:A:OP1	6:S4:220:THR:HG22	2.17	0.44
7:S5:159:ALA:HB3	30:D8:61:ARG:HH12	3.70	0.44
11:S9:163:PRO:HG2	11:S9:164:PHE:CD2	2.53	0.44
11:S9:171:ARG:HA	11:S9:174:ARG:HB2	3.34	0.44
34:SR:288:HIS:CE1	34:SR:306:THR:HG21	2.51	0.44
36:1:1066:G:C6	36:1:1067:U:O4	2.71	0.44
36:1:1339:C:H2'	36:1:1340:G:O4'	2.18	0.44
36:1:2123:G:O2'	36:1:2124:G:H5'	2.18	0.44
36:1:1466:G:O6	92:1:3415:OHX:N2	2.50	0.44
92:1:3565:OHX:N5	92:1:3578:OHX:N1	2.65	0.44
36:1:613:G:C2	36:1:614:C:C2	3.05	0.44
36:1:668:G:C8	36:1:795:G:N2	2.86	0.44
36:1:702:C:C4	36:1:703:G:N7	2.86	0.44
36:1:735:A:H2'	36:1:736:A:H8	1.81	0.44
1:2:1469:G:C6	1:2:1505:U:H5	2.35	0.44
1:2:1710:G:H2'	1:2:1711:A:C8	2.53	0.44
1:2:1779:C:OP1	28:D6:87:ARG:NH1	2.51	0.44
1:2:267:U:H6	1:2:267:U:O5'	2.01	0.44
1:2:283:U:H5''	8:S6:188:ARG:HD3	1.99	0.44
1:2:361:C:C2	1:2:384:G:C2	3.06	0.44
1:2:417:A:H8	1:2:417:A:O5'	2.01	0.44
1:2:53:G:C2	1:2:428:A:C2	3.05	0.44
1:2:832:C:N3	1:2:833:A:N7	2.65	0.44
1:2:903:U:H2'	1:2:904:U:O4'	2.18	0.44
1:2:917:C:C5	28:D6:95:ARG:CZ	3.01	0.44
37:3:26:C:H5''	37:3:27:A:OP2	2.17	0.44
38:4:127:U:C2'	38:4:128:U:H5'	2.48	0.44
38:4:85:G:H3'	38:4:85:G:H8	1.80	0.44
85:5:1225:A:C4	85:5:1226:G:C8	3.06	0.44
85:5:1638:A:H5''	85:5:1639:C:OP2	2.17	0.44
85:5:1634:G:N2	85:5:1640:G:C4	2.86	0.44
85:5:1723:A:N1	85:5:1788:C:O2'	2.25	0.44
85:5:1846:C:C5'	85:5:1849:C:N4	2.78	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2289:U:O5'	85:5:2289:U:H6	2.01	0.44
85:5:2381:G:C2'	85:5:2382:G:H5'	2.48	0.44
85:5:2406:C:H2'	85:5:2407:C:C6	2.53	0.44
85:5:2962:U:N3	85:5:2963:C:C5	2.86	0.44
85:5:3008:A:C6	85:5:3139:A:N1	2.86	0.44
85:5:3359:A:C2	85:5:3360:C:C2	3.05	0.44
85:5:3362:A:C2	85:5:3363:U:N3	2.86	0.44
85:5:2605:G:O6	92:5:3518:OHX:N4	2.50	0.44
73:O7:35:SER:HG	85:5:361:A:H5'	126.55	0.44
85:5:2310:U:P	92:5:3702:OHX:N4	2.89	0.44
85:5:433:A:C2	85:5:627:U:O2	2.71	0.44
85:5:793:C:C4	85:5:794:U:C4	3.06	0.44
80:6:772:G:C5	80:6:773:C:C5	3.06	0.44
80:6:773:C:H4'	80:6:774:A:OP1	2.17	0.44
13:C1:28:SER:OG	80:6:839:U:OP1	286.54	0.44
16:C4:54:GLU:OE1	80:6:901:G:N2	281.70	0.44
21:C9:10:ALA:HB3	21:C9:13:ASP:OD2	2.17	0.44
21:C9:28:LEU:HB3	21:C9:29:GLU:H	3.77	0.44
2:S0:185:ARG:CZ	23:D1:47:PRO:HG3	2.48	0.44
25:D3:56:LYS:HE3	25:D3:96:VAL:HG23	1.99	0.44
26:D4:6:THR:O	26:D4:28:LEU:HD12	5.22	0.44
27:D5:57:TYR:HB3	27:D5:60:VAL:HG13	1.99	0.44
29:D7:30:SER:HB2	29:D7:48:SER:OG	2.68	0.44
39:L2:195:SER:O	39:L2:198:LYS:HE3	2.17	0.44
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.32	0.44
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.23	0.44
41:L4:172:VAL:H	41:L4:172:VAL:HG23	4.15	0.44
41:L4:216:VAL:HG13	41:L4:227:THR:OG1	5.67	0.44
41:L4:59:GLN:OE1	73:O7:55:ARG:NH2	2.76	0.44
41:L4:94:CYS:HB3	85:5:1438:U:H4'	140.15	0.44
42:L5:222:LEU:HA	42:L5:222:LEU:HD23	4.34	0.44
44:L7:91:GLY:N	44:L7:111:ILE:HD12	3.34	0.44
45:L8:189:LEU:O	45:L8:189:LEU:HG	3.40	0.44
46:L9:49:ASN:ND2	46:L9:51:GLN:HB2	4.72	0.44
47:M0:68:ALA:HB2	47:M0:158:LYS:HB2	2.00	0.44
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.17	0.44
47:M0:7:ARG:HD2	47:M0:7:ARG:HH11	1.67	0.44
48:M1:33:ALA:HB2	48:M1:123:PHE:CZ	3.60	0.44
48:M1:124:GLY:O	85:5:2674:A:N6	322.30	0.44
48:M1:125:MET:HG3	48:M1:127:PHE:HE1	3.91	0.44
49:M3:116:LEU:HA	49:M3:116:LEU:HD23	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2780:A:O3'	49:M3:181:GLY:HA3	2.18	0.44
50:M4:114:ASP:HA	50:M4:117:ARG:CZ	2.47	0.44
50:M4:38:ILE:HG21	50:M4:38:ILE:HD13	1.55	0.44
50:M4:94:TRP:O	50:M4:95:ALA:C	2.94	0.44
53:M7:102:ALA:O	53:M7:107:LEU:HB2	2.18	0.44
41:L4:30:ILE:N	54:M8:25:TYR:OH	2.64	0.44
54:M8:29:LEU:HA	54:M8:29:LEU:HD23	2.92	0.44
55:M9:176:ARG:HA	55:M9:176:ARG:HD3	1.84	0.44
55:M9:17:VAL:HG12	55:M9:18:GLY:H	1.81	0.44
36:1:1186:G:N3	56:N0:112:ALA:HB1	2.33	0.44
62:N6:112:ASP:H	62:N6:115:ARG:HB2	2.19	0.44
62:N6:36:SER:CB	62:N6:39:LEU:HB2	2.43	0.44
62:N6:5:SER:HG	62:N6:7:ASP:H	1.61	0.44
63:N7:35:SER:O	63:N7:36:HIS:CB	4.19	0.44
64:N8:79:TRP:CE3	64:N8:82:ILE:HD12	2.52	0.44
64:N8:7:LYS:HD3	64:N8:7:LYS:HA	1.49	0.44
68:O2:55:ILE:HD12	68:O2:55:ILE:HA	2.23	0.44
71:O5:6:ALA:O	71:O5:10:ARG:HG3	4.22	0.44
75:O9:20:ASN:ND2	75:O9:20:ASN:O	2.51	0.44
2:S0:110:TYR:HA	2:S0:115:PHE:CE2	2.52	0.44
4:S2:90:THR:HG22	4:S2:93:GLY:C	2.38	0.44
5:S3:18:TYR:CE1	5:S3:37:VAL:HG23	2.53	0.44
6:S4:129:VAL:HB	6:S4:139:VAL:HG23	1.98	0.44
6:S4:212:ASP:OD1	6:S4:244:ILE:HG23	2.16	0.44
7:S5:162:VAL:HG23	7:S5:166:ARG:HB3	2.00	0.44
7:S5:190:ILE:HD12	7:S5:190:ILE:HG23	1.64	0.44
9:S7:102:PRO:HA	9:S7:106:SER:O	7.10	0.44
9:S7:46:ILE:CD1	9:S7:60:ILE:HG23	3.67	0.44
10:S8:45:SER:HA	10:S8:55:TYR:HA	1.99	0.44
11:S9:83:VAL:HG23	11:S9:85:VAL:HG23	2.70	0.44
34:SR:19:TRP:HB2	34:SR:38:ARG:HD2	2.57	0.44
36:1:1004:U:O2	36:1:1005:G:C8	2.71	0.44
36:1:1240:A:H2	36:1:1248:C:H41	1.63	0.44
36:1:1584:U:H2'	36:1:1585:C:H6	1.83	0.44
36:1:1633:C:O2'	36:1:1634:G:H5'	2.17	0.44
36:1:1710:C:H2'	36:1:1711:C:C6	2.53	0.44
36:1:209:A:P	41:L4:161:LYS:NZ	2.90	0.44
36:1:2317:A:C2	36:1:2318:U:N1	2.86	0.44
36:1:2590:A:C6	36:1:2591:A:C5	3.05	0.44
36:1:2761:G:C4	36:1:2795:U:C5	3.06	0.44
36:1:3187:A:H5'	46:L9:22:SER:HA	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:613:G:H2'	36:1:614:C:C6	2.53	0.44
36:1:740:G:H2'	36:1:741:U:O4'	2.17	0.44
36:1:677:A:C8	36:1:786:A:C6	3.05	0.44
1:2:1075:A:C4	1:2:1077:G:C8	3.06	0.44
1:2:1612:G:C5	1:2:1613:U:C5	3.06	0.44
1:2:423:G:OP1	92:2:1920:OHX:N6	2.50	0.44
92:2:1970:OHX:N4	92:2:1985:OHX:N4	2.66	0.44
1:2:3:U:O2'	1:2:4:C:O4'	2.34	0.44
1:2:67:A:C2	1:2:69:G:H1'	2.53	0.44
1:2:734:G:H2'	1:2:735:A:H8	1.82	0.44
37:3:41:G:H1'	37:3:44:C:H42	1.83	0.44
85:5:1020:G:H2'	85:5:1021:G:O4'	2.17	0.44
85:5:1121:U:C4	85:5:1122:U:C4	3.06	0.44
85:5:1148:G:C6	85:5:1149:G:C8	3.05	0.44
66:O0:85:PHE:CE2	85:5:1728:G:C6	251.86	0.44
79:Q3:34:HIS:CE1	85:5:1791:C:OP1	222.13	0.44
85:5:240:U:O2'	85:5:241:G:O5'	2.33	0.44
85:5:2619:G:H2'	85:5:2620:G:O4'	2.18	0.44
85:5:2684:C:C4	85:5:2685:C:N4	2.86	0.44
85:5:2725:U:H5	85:5:2726:C:C5	2.35	0.44
54:M8:179:ARG:HD3	85:5:2789:U:OP1	174.72	0.44
85:5:2819:A:O2'	85:5:2820:A:H5'	2.17	0.44
85:5:3022:G:N2	85:5:3023:U:O4	2.38	0.44
85:5:3260:G:C2	85:5:3261:C:C2	3.04	0.44
43:L6:69:PHE:CE1	85:5:3268:A:C4	257.48	0.44
85:5:386:A:H8	85:5:386:A:O5'	2.01	0.44
49:M3:58:VAL:HG22	85:5:75:G:OP1	85.66	0.44
80:6:119:A:H1'	80:6:397:A:C4	2.52	0.44
80:6:1497:U:H2'	80:6:1498:G:O4'	2.17	0.44
10:S8:178:ARG:NH2	80:6:258:C:O2	282.43	0.44
80:6:846:G:C2	80:6:847:A:C4	3.06	0.44
37:7:22:A:O2'	37:7:23:A:H5'	2.17	0.44
38:8:46:G:N3	38:8:58:G:C2	2.86	0.44
20:C8:145:ARG:HG3	35:SM:68:ARG:HH22	4.05	0.44
20:C8:27:LYS:HB3	20:C8:27:LYS:HE2	4.43	0.44
24:D2:94:LEU:HD11	24:D2:102:VAL:HG23	2.00	0.44
1:2:85:A:H4'	26:D4:120:GLY:O	2.18	0.44
27:D5:52:LYS:HD3	27:D5:52:LYS:HA	1.83	0.44
31:D9:31:ILE:HG22	31:D9:31:ILE:O	2.27	0.44
36:1:2178:A:H2'	39:L2:151:PRO:HB2	1.99	0.44
40:L3:110:LEU:HA	40:L3:110:LEU:HD12	1.73	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3294:A:H5'	40:L3:128:LYS:HG3	1.98	0.44
40:L3:24:SER:O	40:L3:220:VAL:HG21	2.52	0.44
36:1:2941:A:N7	40:L3:255:TRP:CZ2	2.85	0.44
40:L3:74:GLU:CD	40:L3:283:TYR:HH	2.65	0.44
37:3:33:U:C2	42:L5:207:TYR:CD2	3.06	0.44
44:L7:195:PHE:O	44:L7:199:ASN:HB2	2.18	0.44
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.53	0.44
45:L8:42:PRO:O	45:L8:44:ARG:HG2	4.02	0.44
46:L9:75:VAL:O	46:L9:78:MET:HB2	2.18	0.44
47:M0:160:PRO:HD3	85:5:2854:U:C5'	293.37	0.44
47:M0:58:GLU:OE2	47:M0:161:GLY:HA3	2.18	0.44
48:M1:100:GLY:HA2	48:M1:155:THR:O	3.18	0.44
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.67	0.44
49:M3:18:TRP:C	49:M3:20:GLU:N	2.70	0.44
52:M6:84:LEU:O	52:M6:86:GLY:N	2.55	0.44
54:M8:131:ALA:HB1	54:M8:135:GLN:N	2.46	0.44
54:M8:170:ARG:HG3	54:M8:171:LYS:HG3	2.16	0.44
54:M8:18:ALA:HB1	54:M8:19:PRO:HD2	1.99	0.44
59:N3:85:TRP:CH2	59:N3:93:LEU:HG	2.53	0.44
45:L8:46:LEU:HD12	61:N5:28:THR:C	3.60	0.44
62:N6:17:LYS:O	62:N6:21:THR:HG23	2.37	0.44
66:O0:53:LYS:HZ1	85:5:2552:C:H5	241.20	0.44
69:O3:37:THR:O	69:O3:79:GLY:HA2	2.18	0.44
73:O7:65:ARG:HH11	73:O7:65:ARG:HG3	1.96	0.44
75:O9:43:ASN:C	75:O9:43:ASN:OD1	2.61	0.44
77:Q1:22:ALA:C	77:Q1:24:SER:H	2.20	0.44
79:Q3:84:ARG:CZ	79:Q3:88:GLU:OE2	2.61	0.44
2:S0:72:ASP:HB2	2:S0:118:PRO:HA	2.00	0.44
3:S1:148:ASN:ND2	80:6:1066:C:O2'	349.22	0.44
3:S1:35:PRO:HG3	3:S1:98:THR:O	2.17	0.44
4:S2:139:ILE:CD1	4:S2:191:ALA:HB1	2.63	0.44
5:S3:94:ARG:NH2	5:S3:125:TYR:OH	4.16	0.44
7:S5:63:GLN:HB3	7:S5:64:VAL:H	1.67	0.44
8:S6:3:LEU:O	8:S6:15:THR:HA	2.18	0.44
34:SR:180:ALA:O	34:SR:189:GLU:HB3	2.18	0.44
34:SR:274:LEU:HD13	34:SR:313:TRP:CD2	2.53	0.44
34:SR:48:THR:HG22	34:SR:55:GLY:HA2	5.18	0.44
36:1:1004:U:N3	36:1:1005:G:C5	2.86	0.44
36:1:971:G:O2'	36:1:1371:G:H1'	2.17	0.44
36:1:1482:A:H4'	36:1:1483:G:OP2	2.18	0.44
36:1:1792:C:H5''	36:1:1793:C:P	2.58	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2273:G:O2'	36:1:2274:U:OP2	2.35	0.44
36:1:2317:A:C6	36:1:2318:U:C4	3.05	0.44
36:1:2442:G:N2	36:1:2505:U:H3	2.16	0.44
36:1:2416:U:C2	36:1:2805:G:C2	3.05	0.44
36:1:3066:U:H2'	36:1:3067:C:C6	2.52	0.44
36:1:3084:C:H2'	36:1:3085:G:O4'	2.18	0.44
97:1:3403:SPS:H71	97:1:3403:SPS:H81	1.65	0.44
36:1:409:A:H3'	36:1:410:U:H6	1.82	0.44
36:1:439:C:H5'	36:1:440:A:C8	2.53	0.44
36:1:561:C:H2'	36:1:562:C:C6	2.53	0.44
36:1:560:G:O2'	36:1:561:C:H5'	2.17	0.44
1:2:1271:G:N2	1:2:1272:U:C2	2.86	0.44
1:2:1184:G:H22	1:2:1583:A:H5'	1.83	0.44
1:2:844:U:H5'	1:2:845:A:OP2	2.18	0.44
37:3:30:G:C5	37:3:31:U:C5	3.06	0.44
38:4:11:C:H2'	38:4:12:A:C8	2.53	0.44
85:5:1640:G:O2'	85:5:1641:U:H5'	2.18	0.44
85:5:2124:G:O2'	85:5:2125:A:H5'	2.17	0.44
85:5:2183:A:C6	85:5:2184:U:C5	3.06	0.44
51:M5:50:ARG:NH1	85:5:268:A:OP2	115.07	0.44
85:5:2878:G:O2'	85:5:2879:C:H5'	2.18	0.44
85:5:2947:G:OP2	85:5:2947:G:H4'	2.18	0.44
85:5:2970:C:H6	85:5:2970:C:O5'	2.00	0.44
85:5:300:G:H2'	85:5:301:G:H8	1.82	0.44
85:5:3234:A:H8	85:5:3234:A:O5'	2.01	0.44
92:5:3706:OHX:N1	92:8:210:OHX:N5	2.65	0.44
85:5:680:G:N2	85:5:701:G:C4	2.86	0.44
85:5:754:G:C2	85:5:755:A:C8	3.06	0.44
80:6:1478:G:C6	80:6:1479:A:C5	3.05	0.44
80:6:1588:G:H1	80:6:1608:U:H3	1.66	0.44
80:6:1620:C:C2	80:6:1621:U:C5	3.06	0.44
80:6:1625:C:C2'	80:6:1626:U:H5'	2.47	0.44
92:6:1914:OHX:N1	92:6:1998:OHX:N4	2.65	0.44
80:6:341:A:H2'	80:6:342:C:C6	2.53	0.44
80:6:40:A:H2'	80:6:41:A:O4'	2.17	0.44
80:6:492:A:H1'	80:6:496:G:H1	1.82	0.44
80:6:865:A:C5	80:6:866:G:N7	2.86	0.44
12:C0:27:PHE:O	12:C0:28:ASN:HB2	2.28	0.44
17:C5:21:ASP:O	17:C5:24:LYS:N	3.00	0.44
19:C7:27:ASP:OD2	19:C7:30:THR:N	2.37	0.44
19:C7:23:LYS:HB3	19:C7:34:LEU:HD11	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:33:TYR:OH	21:C9:99:SER:O	3.50	0.44
22:D0:67:THR:HG22	22:D0:68:ARG:O	2.18	0.44
22:D0:50:LEU:CD2	22:D0:95:ALA:HB2	2.42	0.44
23:D1:74:GLN:HG3	23:D1:79:LEU:O	2.18	0.44
25:D3:35:GLY:O	25:D3:36:THR:C	2.53	0.44
28:D6:28:LYS:HG2	28:D6:29:SER:N	2.33	0.44
29:D7:28:PRO:HB3	80:6:959:U:H5'	350.99	0.44
32:E0:14:VAL:HA	32:E0:17:GLN:HG2	1.98	0.44
39:L2:40:TYR:HA	39:L2:90:ALA:O	2.35	0.44
40:L3:153:LYS:NZ	40:L3:154:TYR:OH	4.22	0.44
40:L3:188:ILE:HG13	40:L3:188:ILE:H	1.28	0.44
40:L3:243:HIS:O	40:L3:244:ARG:C	2.84	0.44
41:L4:16:THR:HG23	41:L4:18:ASN:N	2.90	0.44
41:L4:258:LEU:O	41:L4:259:ASP:C	2.59	0.44
41:L4:283:THR:HB	41:L4:285:ASP:H	3.17	0.44
41:L4:71:VAL:HG22	41:L4:72:ALA:N	2.32	0.44
42:L5:102:GLY:HA2	42:L5:105:ILE:HB	2.00	0.44
42:L5:140:ARG:HH21	42:L5:140:ARG:HD3	1.93	0.44
42:L5:215:ASP:OD1	42:L5:218:ARG:HG3	2.17	0.44
42:L5:258:LYS:HA	42:L5:258:LYS:HD3	1.62	0.44
42:L5:7:ALA:O	92:5:3660:OHX:N6	315.31	0.44
44:L7:170:GLU:HB2	44:L7:179:LEU:HB3	2.83	0.44
47:M0:46:PHE:CD2	47:M0:139:ARG:HG3	2.52	0.44
48:M1:32:ARG:O	48:M1:36:VAL:HG23	2.17	0.44
49:M3:51:LEU:HD12	49:M3:139:LEU:HD13	1.99	0.44
50:M4:16:GLU:O	50:M4:17:VAL:C	2.84	0.44
50:M4:39:ILE:H	50:M4:44:VAL:HA	1.83	0.44
51:M5:13:LYS:O	51:M5:19:LEU:HD22	3.06	0.44
52:M6:166:GLU:O	52:M6:167:TYR:C	2.56	0.44
54:M8:123:THR:OG1	54:M8:125:ASP:OD2	2.35	0.44
56:N0:156:VAL:O	56:N0:156:VAL:HG13	2.18	0.44
57:N1:40:VAL:HB	57:N1:96:ILE:HG13	1.99	0.44
57:N1:54:HIS:C	57:N1:56:PHE:N	2.82	0.44
59:N3:12:ARG:NH2	85:5:3092:C:O2'	253.11	0.44
59:N3:13:ILE:HD12	59:N3:85:TRP:CD2	3.71	0.44
61:N5:56:ARG:HG2	38:8:134:G:OP1	78.30	0.44
61:N5:59:SER:HB3	61:N5:98:ALA:CB	2.48	0.44
62:N6:89:LYS:NZ	85:5:375:A:P	76.45	0.44
63:N7:15:ARG:HG2	85:5:1638:A:OP1	211.15	0.44
36:1:2738:A:H5'	65:N9:36:ASP:OD1	2.17	0.44
65:N9:43:HIS:CE1	65:N9:47:LEU:HD11	2.53	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:17:LEU:HA	71:O5:17:LEU:HD23	1.99	0.44
71:O5:21:LEU:HA	71:O5:21:LEU:HD23	2.95	0.44
71:O5:54:VAL:O	71:O5:58:ILE:HG13	2.40	0.44
73:O7:16:HIS:HA	73:O7:27:PHE:O	2.46	0.44
73:O7:70:VAL:HG12	73:O7:70:VAL:O	2.41	0.44
2:S0:175:TYR:O	2:S0:178:ALA:HB3	3.14	0.44
3:S1:232:HIS:HB3	3:S1:233:GLY:H	3.69	0.44
7:S5:98:MET:HB2	7:S5:105:GLY:O	2.17	0.44
7:S5:98:MET:HE1	7:S5:105:GLY:HA2	1.98	0.44
8:S6:75:LEU:O	8:S6:94:ARG:HA	2.18	0.44
8:S6:84:TYR:HE2	8:S6:93:LYS:HD2	1.83	0.44
9:S7:34:LEU:O	9:S7:38:LEU:HB2	4.06	0.44
9:S7:61:PHE:HA	9:S7:93:LEU:O	2.21	0.44
10:S8:187:GLU:O	10:S8:190:ALA:HB3	2.17	0.44
11:S9:108:ARG:NH2	11:S9:144:PRO:HB2	3.21	0.44
11:S9:92:LYS:O	11:S9:96:VAL:HG13	5.10	0.44
34:SR:95:ALA:C	34:SR:97:GLY:H	3.67	0.44
36:1:1148:G:C6	36:1:1149:G:N7	2.86	0.44
36:1:1470:U:H2'	36:1:1471:U:C6	2.53	0.44
36:1:1500:G:H2'	36:1:1501:U:O4'	2.17	0.44
36:1:1729:A:C6	79:Q3:42:CYS:HA	2.53	0.44
36:1:1778:G:C2	36:1:1780:G:C8	3.06	0.44
36:1:177:U:C4	36:1:178:U:C4	3.06	0.44
36:1:2518:C:C4	36:1:2590:A:C2	3.05	0.44
35:SM:44:PRO:HA	36:1:2678:A:C4	2.53	0.44
36:1:268:A:C6	51:M5:12:ARG:HB3	2.53	0.44
36:1:268:A:N1	51:M5:12:ARG:HB3	2.33	0.44
36:1:2896:A:OP2	76:Q0:102:ARG:NH2	2.37	0.44
36:1:2951:G:H2'	36:1:2951:G:N3	2.32	0.44
36:1:3231:U:H6	36:1:3231:U:O5'	2.00	0.44
36:1:3335:A:H2'	36:1:3336:A:C8	2.52	0.44
36:1:1942:U:O2'	36:1:3345:G:O2'	2.36	0.44
36:1:342:A:C2	36:1:349:A:C8	3.06	0.44
92:1:3525:OHX:N5	92:1:3563:OHX:N2	2.66	0.44
36:1:703:G:O2'	36:1:787:G:H4'	2.17	0.44
36:1:834:U:C5	36:1:835:G:C6	3.06	0.44
1:2:1340:A:N1	1:2:1341:G:C5	2.86	0.44
1:2:1583:A:H4'	1:2:1584:G:OP1	2.18	0.44
1:2:1644:U:H2'	1:2:1645:G:H8	1.80	0.44
1:2:1665:U:O2'	1:2:1666:C:H5'	2.17	0.44
1:2:278:U:OP1	1:2:279:G:N2	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:29:U:H2'	1:2:30:G:H8	1.81	0.44
1:2:482:U:H2'	1:2:483:A:H8	1.83	0.44
1:2:850:G:C4	1:2:851:G:C8	3.06	0.44
37:3:90:U:C4	37:3:91:G:C5	3.04	0.44
85:5:128:G:O2'	85:5:129:U:H5'	2.17	0.44
85:5:1290:A:C2	85:5:1291:A:C4	3.05	0.44
64:N8:10:LYS:HE2	85:5:1375:G:O6	160.24	0.44
85:5:1423:C:H6	85:5:1423:C:O5'	2.00	0.44
85:5:1710:C:H2'	85:5:1711:C:O4'	2.18	0.44
85:5:1756:C:O2	85:5:1770:G:C2	2.71	0.44
85:5:1783:U:H2'	85:5:1784:G:C8	2.52	0.44
85:5:1919:G:N2	85:5:1920:U:C2	2.86	0.44
85:5:2136:C:O2'	85:5:2137:U:H5'	2.17	0.44
76:Q0:102:ARG:NE	85:5:2896:A:OP1	320.19	0.44
85:5:869:G:OP2	92:5:3470:OHX:N3	2.51	0.44
85:5:91:G:C2	85:5:96:G:C6	3.05	0.44
80:6:1003:A:C2	80:6:1005:A:C2	3.06	0.44
80:6:116:U:H2'	80:6:116:U:O2	2.18	0.44
80:6:1294:G:O6	92:6:1923:OHX:N5	2.50	0.44
80:6:145:A:HO2'	80:6:146:U:P	2.38	0.44
80:6:1625:C:O2'	80:6:1626:U:H5'	2.18	0.44
80:6:558:U:O2'	80:6:559:C:O5'	2.35	0.44
80:6:551:G:C8	80:6:582:U:C5	3.06	0.44
13:C1:102:LYS:NZ	80:6:632:U:OP1	324.89	0.44
80:6:63:G:C2	80:6:64:U:C6	3.05	0.44
80:6:733:A:H2'	80:6:734:A:O4'	2.18	0.44
80:6:823:G:C5	80:6:850:A:C2	3.06	0.44
12:C0:38:LYS:HB2	12:C0:41:TYR:CE2	4.18	0.44
13:C1:127:GLN:HA	13:C1:137:PHE:HA	1.99	0.44
15:C3:35:GLU:O	15:C3:39:LYS:HB2	2.18	0.44
18:C6:26:LYS:NZ	80:6:1364:G:O2'	434.28	0.44
19:C7:81:LYS:HB2	19:C7:81:LYS:HE3	1.71	0.44
20:C8:27:LYS:O	20:C8:31:ALA:N	3.08	0.44
21:C9:124:ILE:HD12	21:C9:125:SER:H	1.83	0.44
21:C9:16:ASN:HA	21:C9:56:LYS:HZ2	2.77	0.44
22:D0:22:ILE:HG22	22:D0:93:LEU:O	2.18	0.44
15:C3:18:TYR:CD2	24:D2:56:HIS:CE1	3.05	0.44
25:D3:103:LEU:HD22	25:D3:104:LEU:O	2.94	0.44
28:D6:15:ARG:O	28:D6:17:HIS:N	2.50	0.44
30:D8:19:THR:OG1	30:D8:27:GLN:HG3	2.18	0.44
40:L3:329:PRO:HA	85:5:3047:U:H5'	233.14	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:49:TYR:CZ	40:L3:166:ILE:HG13	2.53	0.44
41:L4:22:LEU:HA	41:L4:22:LEU:HD23	2.08	0.44
41:L4:71:VAL:HG22	41:L4:72:ALA:H	1.83	0.44
42:L5:260:PHE:HA	42:L5:264:GLN:OE1	3.12	0.44
42:L5:59:ASP:OD1	42:L5:81:HIS:CD2	2.71	0.44
45:L8:238:LEU:N	45:L8:238:LEU:HD12	2.78	0.44
45:L8:30:THR:O	45:L8:31:PRO:C	2.56	0.44
46:L9:103:ILE:HD11	46:L9:134:ILE:CG2	2.47	0.44
46:L9:84:LYS:NZ	46:L9:191:LEU:HD22	2.31	0.44
48:M1:96:PHE:CD2	48:M1:96:PHE:N	3.08	0.44
49:M3:9:ILE:HG22	49:M3:9:ILE:O	3.64	0.44
36:1:3205:G:H5''	50:M4:102:LYS:NZ	2.33	0.44
50:M4:118:PHE:O	50:M4:122:VAL:HG23	2.18	0.44
50:M4:19:ARG:HA	50:M4:69:THR:HG22	2.70	0.44
52:M6:108:ILE:CG1	52:M6:108:ILE:O	4.37	0.44
50:M4:124:ARG:HG3	52:M6:194:LEU:HD21	1.99	0.44
53:M7:117:ILE:HG23	53:M7:117:ILE:O	2.18	0.44
53:M7:133:HIS:O	53:M7:135:ARG:HG3	2.18	0.44
53:M7:67:ILE:HD12	53:M7:82:ARG:CZ	3.78	0.44
53:M7:94:LEU:HA	53:M7:94:LEU:HD12	1.78	0.44
54:M8:165:ILE:HD13	54:M8:165:ILE:HG21	1.54	0.44
54:M8:42:ALA:HB3	54:M8:45:ASN:ND2	2.32	0.44
55:M9:75:HIS:N	55:M9:75:HIS:ND1	2.66	0.44
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.32	0.44
42:L5:17:GLN:OE1	57:N1:21:LYS:N	2.51	0.44
57:N1:56:PHE:C	57:N1:58:GLN:N	2.71	0.44
58:N2:51:GLY:C	58:N2:53:ALA:N	2.70	0.44
40:L3:375:GLU:OE2	60:N4:14:TYR:OH	2.36	0.44
60:N4:8:PHE:CZ	60:N4:39:LEU:HB3	2.53	0.44
62:N6:48:LEU:HD23	62:N6:49:PRO:HD2	1.98	0.44
63:N7:86:THR:OG1	63:N7:87:LEU:N	2.50	0.44
64:N8:101:VAL:HG22	64:N8:124:ILE:HB	1.98	0.44
36:1:3324:C:O2'	67:O1:105:GLN:HA	2.17	0.44
67:O1:71:LEU:HA	67:O1:71:LEU:HD23	1.61	0.44
70:O4:99:LYS:HB3	70:O4:103:LYS:HZ2	1.81	0.44
91:P:75:C:O3'	98:P:101:8AN:H4'	2.18	0.44
4:S2:79:GLU:O	4:S2:102:VAL:HG13	2.53	0.44
5:S3:145:ALA:H	35:SM:101:ASP:CG	2.22	0.44
6:S4:31:PRO:CG	6:S4:38:LEU:HB2	5.96	0.44
8:S6:141:ILE:HB	8:S6:153:VAL:CG1	3.65	0.44
8:S6:71:THR:OG1	8:S6:72:ARG:N	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:161:U:O3'	8:S6:83:CYS:HA	2.18	0.44
9:S7:35:LYS:O	9:S7:37:GLU:N	2.43	0.44
10:S8:3:ILE:HG22	10:S8:4:SER:H	3.09	0.44
35:SM:68:ARG:HH22	35:SM:72:ARG:HD3	3.72	0.44
34:SR:116:ASP:HB3	34:SR:121:MET:HB3	1.99	0.44
36:1:1227:C:H5'	36:1:1228:C:OP2	2.17	0.44
36:1:1341:U:C2	36:1:1342:C:C5	3.06	0.44
36:1:1550:C:H2'	36:1:1551:C:C6	2.53	0.44
36:1:1760:A:N3	36:1:1766:G:C2	2.86	0.44
36:1:1815:U:O2'	36:1:1816:A:P	2.76	0.44
36:1:2533:G:H2'	36:1:2534:G:O4'	2.18	0.44
36:1:278:U:H2'	36:1:279:U:O4'	2.18	0.44
36:1:3095:U:H2'	36:1:3096:C:H6	1.83	0.44
36:1:3317:U:H4'	36:1:3318:G:O5'	2.17	0.44
36:1:3325:G:C5	36:1:3326:G:N7	2.86	0.44
36:1:3357:U:H2'	36:1:3358:U:C6	2.53	0.44
36:1:2960:C:OP1	92:1:3534:OHX:N2	2.51	0.44
36:1:92:G:H5'	36:1:93:C:O5'	2.17	0.44
1:2:609:U:C4	1:2:1091:G:C8	3.05	0.44
1:2:17:C:H2'	1:2:18:C:H6	1.79	0.44
1:2:447:U:O4	1:2:448:C:C4	2.71	0.44
1:2:538:A:H2	1:2:540:G:H1	1.66	0.44
1:2:602:U:H2'	1:2:603:U:H6	1.83	0.44
37:3:54:U:H4'	37:3:55:A:O5'	2.18	0.44
38:4:108:C:H2'	38:4:109:A:O4'	2.18	0.44
38:4:114:G:N2	38:4:115:C:H1'	2.33	0.44
85:5:1025:A:H3'	85:5:1026:A:C5'	2.48	0.44
85:5:1222:G:O2'	85:5:1223:A:P	2.76	0.44
85:5:1238:C:O2'	85:5:1239:C:OP1	2.28	0.44
85:5:144:A:C6	85:5:145:G:C2	3.06	0.44
45:L8:54:GLU:HG3	85:5:1558:A:OP2	149.66	0.44
85:5:2103:U:C2	85:5:2104:A:C8	3.06	0.44
85:5:2166:A:H8	85:5:2166:A:O5'	2.01	0.44
85:5:2563:G:H2'	85:5:2564:G:O4'	2.18	0.44
51:M5:93:LYS:HD2	85:5:290:G:H1'	147.95	0.44
85:5:3335:A:C2	85:5:3336:A:C4	3.06	0.44
85:5:419:G:O3'	85:5:420:G:O5'	2.36	0.44
85:5:591:G:N2	85:5:612:U:OP1	2.46	0.44
80:6:1211:A:C6	80:6:1212:G:C5	3.06	0.44
33:E1:97:LYS:HD3	80:6:1232:U:C5	435.22	0.44
80:6:1392:U:H2'	80:6:1393:C:H6	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:151:G:H22	80:6:163:G:N2	2.15	0.44
80:6:1653:C:C5	80:6:1654:G:N7	2.86	0.44
80:6:502:U:H3'	80:6:503:G:H8	1.83	0.44
25:D3:26:GLU:HG3	80:6:609:U:N3	341.31	0.44
80:6:75:U:O2'	80:6:76:A:O5'	2.28	0.44
56:N0:52:LYS:NZ	37:7:101:G:OP2	282.08	0.44
38:8:92:A:C2	38:8:93:U:C2	3.06	0.44
13:C1:98:ASN:O	13:C1:98:ASN:ND2	2.57	0.44
1:2:1238:G:O6	14:C2:46:ARG:HD2	2.18	0.44
1:2:1002:A:OP2	15:C3:107:LYS:HE3	2.18	0.44
15:C3:125:LEU:HA	15:C3:125:LEU:HD23	2.34	0.44
16:C4:131:GLY:O	16:C4:132:ARG:C	2.81	0.44
20:C8:114:GLU:HA	20:C8:117:LYS:HB2	3.35	0.44
5:S3:40:ARG:HE	22:D0:110:PRO:HG3	3.69	0.44
22:D0:33:GLN:O	22:D0:37:VAL:HG23	2.36	0.44
25:D3:100:ASP:O	25:D3:101:GLU:C	3.53	0.44
1:2:521:A:H4'	26:D4:36:SER:HB2	2.00	0.44
29:D7:53:ALA:HB1	29:D7:62:ILE:HD11	2.68	0.44
31:D9:21:CYS:SG	31:D9:21:CYS:O	3.96	0.44
39:L2:83:HIS:ND1	39:L2:84:THR:O	2.47	0.44
40:L3:37:ARG:CB	40:L3:186:GLY:HA2	2.48	0.44
40:L3:244:ARG:HH11	40:L3:244:ARG:HD3	1.66	0.44
40:L3:275:ARG:HH11	40:L3:275:ARG:HD2	1.67	0.44
40:L3:375:GLU:OE1	60:N4:14:TYR:OH	2.32	0.44
41:L4:24:ALA:C	41:L4:26:PHE:H	2.91	0.44
43:L6:171:PRO:HB2	69:O3:43:PHE:CE2	2.94	0.44
44:L7:60:ARG:HH22	85:5:517:G:P	305.88	0.44
36:1:8:C:H4'	45:L8:183:LYS:HZ1	1.81	0.44
46:L9:140:VAL:O	46:L9:140:VAL:HG22	2.47	0.44
36:1:2898:G:P	46:L9:173:ARG:HH22	2.41	0.44
46:L9:25:VAL:CG2	46:L9:38:LEU:HD12	2.48	0.44
48:M1:171:VAL:O	48:M1:172:LEU:HB2	2.17	0.44
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.95	0.44
52:M6:182:ASN:OD1	52:M6:186:ALA:HB2	6.21	0.44
54:M8:57:ILE:HD13	54:M8:57:ILE:HG21	1.68	0.44
54:M8:98:LYS:HB3	54:M8:99:THR:H	1.81	0.44
57:N1:35:LYS:O	57:N1:36:VAL:C	2.56	0.44
64:N8:44:ASN:OD1	64:N8:48:TYR:HD1	2.90	0.44
67:O1:51:LEU:HB3	67:O1:55:LEU:HD12	1.99	0.44
68:O2:100:ILE:N	68:O2:100:ILE:HD13	2.50	0.44
70:O4:67:LYS:HD3	85:5:1821:U:C2	168.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:20:GLN:O	71:O5:23:ASP:HB2	2.18	0.44
75:O9:7:PHE:HB2	85:5:1832:C:O2'	108.85	0.44
78:Q2:35:LEU:HD12	78:Q2:40:LYS:HG2	5.51	0.44
2:S0:199:PRO:HG2	2:S0:200:ASP:OD1	2.22	0.44
1:2:1497:U:C4	5:S3:4:LEU:HD12	2.53	0.44
6:S4:62:LYS:O	6:S4:65:LEU:N	3.59	0.44
7:S5:184:PHE:CD1	7:S5:185:ARG:HG3	2.53	0.44
7:S5:198:LEU:O	7:S5:202:ALA:N	2.61	0.44
8:S6:48:TYR:CE2	8:S6:117:GLY:HA3	3.15	0.44
8:S6:175:ILE:HB	8:S6:178:LEU:HD22	2.69	0.44
10:S8:9:HIS:CE1	10:S8:10:LYS:HD3	2.53	0.44
10:S8:184:LEU:HD12	10:S8:184:LEU:HA	2.07	0.44
10:S8:89:GLU:O	10:S8:93:THR:OG1	2.29	0.44
36:1:1739:U:H4'	70:O4:54:ILE:O	2.18	0.43
36:1:2831:G:C6	36:1:2832:C:N4	2.86	0.43
36:1:3078:U:O2	36:1:3078:U:H2'	2.17	0.43
36:1:739:G:O2'	36:1:740:G:H5'	2.17	0.43
36:1:898:U:H2'	36:1:899:U:O4'	2.18	0.43
1:2:1014:U:H4'	1:2:1015:G:OP2	2.17	0.43
1:2:1366:G:H2'	1:2:1367:A:C8	2.53	0.43
1:2:162:A:H2'	1:2:163:G:C2	2.52	0.43
1:2:1664:A:C8	1:2:1704:A:N3	2.85	0.43
1:2:1771:G:N7	16:C4:132:ARG:NE	2.66	0.43
1:2:420:A:H2'	1:2:421:A:O4'	2.18	0.43
1:2:526:A:H2'	1:2:527:A:O4'	2.18	0.43
1:2:643:G:N1	1:2:644:C:C4	2.86	0.43
1:2:654:C:H3'	1:2:655:G:H5''	2.00	0.43
1:2:826:U:H2'	1:2:827:A:C8	2.53	0.43
38:4:132:G:N7	92:4:211:OHX:N1	2.66	0.43
38:4:143:U:O5'	38:4:143:U:H6	2.00	0.43
85:5:1003:A:C2	85:5:1004:U:C2	3.06	0.43
85:5:1252:A:H2	85:5:1263:A:C2	2.35	0.43
85:5:1439:U:C2	85:5:1440:G:C8	3.06	0.43
85:5:1650:G:H2'	85:5:1651:U:O4'	2.18	0.43
85:5:2255:A:O2'	85:5:2256:A:OP2	2.31	0.43
85:5:2705:A:OP2	92:5:3404:OHX:N2	2.51	0.43
85:5:268:A:O4'	85:5:270:U:H1'	2.18	0.43
85:5:2817:A:OP1	85:5:2868:U:OP1	2.36	0.43
85:5:301:G:C5	85:5:302:U:C5	3.07	0.43
85:5:32:U:O5'	85:5:32:U:H6	2.00	0.43
85:5:2960:C:P	92:5:3475:OHX:N5	2.91	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1170:A:OP2	92:5:3506:OHX:N4	2.51	0.43
64:N8:36:GLY:N	85:5:40:A:OP2	173.53	0.43
85:5:645:A:N7	85:5:649:A:C6	2.86	0.43
85:5:680:G:N2	85:5:701:G:C5	2.86	0.43
80:6:1090:C:C2'	80:6:1091:A:H5''	2.46	0.43
17:C5:128:HIS:HA	80:6:1180:C:O2'	334.68	0.43
80:6:1394:G:H2'	80:6:1395:G:H8	1.82	0.43
80:6:1552:U:C4	80:6:1553:G:C6	3.05	0.43
80:6:1203:A:OP2	92:6:1982:OHX:N2	2.51	0.43
80:6:675:U:H2'	80:6:676:G:C8	2.53	0.43
80:6:772:G:C6	80:6:773:C:C4	3.05	0.43
80:6:793:A:H3'	80:6:794:U:H5'	2.00	0.43
80:6:861:U:C5	80:6:862:A:C2	3.06	0.43
80:6:906:A:C6	80:6:907:A:C6	3.06	0.43
37:7:1:G:N2	37:7:2:G:C4	2.86	0.43
37:7:59:U:C2	37:7:60:G:C8	3.06	0.43
14:C2:71:ILE:O	14:C2:75:VAL:HG23	2.18	0.43
15:C3:109:LYS:HD2	80:6:975:C:H5''	281.91	0.43
16:C4:102:LEU:HD22	16:C4:105:LEU:HD11	2.00	0.43
17:C5:87:PRO:HD3	17:C5:112:LEU:HD22	2.00	0.43
18:C6:43:ILE:HG12	18:C6:43:ILE:H	1.51	0.43
19:C7:24:LEU:HA	19:C7:24:LEU:HD23	2.16	0.43
21:C9:22:LEU:HB3	21:C9:55:TYR:HD1	1.83	0.43
22:D0:108:ILE:H	22:D0:108:ILE:HG13	1.56	0.43
22:D0:23:ARG:HD2	22:D0:90:TYR:HB2	1.99	0.43
23:D1:9:VAL:O	23:D1:10:GLU:HB3	2.54	0.43
24:D2:70:ASN:HB2	24:D2:130:TYR:O	2.84	0.43
25:D3:76:LEU:HB2	25:D3:79:ASN:HB2	2.00	0.43
27:D5:92:ILE:HG13	27:D5:100:ILE:HG22	1.99	0.43
29:D7:50:ALA:O	29:D7:66:PRO:HB3	4.60	0.43
30:D8:16:LEU:HB2	30:D8:27:GLN:O	2.17	0.43
39:L2:27:ALA:HA	39:L2:75:ILE:HG22	2.73	0.43
39:L2:86:GLN:HG2	39:L2:88:ILE:HD11	2.78	0.43
40:L3:163:HIS:HA	40:L3:177:HIS:O	2.50	0.43
40:L3:43:LEU:HA	40:L3:43:LEU:HD12	1.64	0.43
41:L4:152:VAL:HG22	41:L4:172:VAL:HG21	2.00	0.43
41:L4:170:LYS:HD2	41:L4:175:HIS:ND1	4.97	0.43
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	2.33	0.43
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.17	0.43
41:L4:82:THR:O	41:L4:84:ARG:N	2.51	0.43
44:L7:217:PRO:O	92:5:3506:OHX:N3	258.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:139:VAL:HA	45:L8:142:LEU:HD12	1.99	0.43
45:L8:91:PHE:CD2	45:L8:185:ARG:NH1	2.85	0.43
46:L9:103:ILE:HG13	46:L9:136:PHE:CZ	2.53	0.43
46:L9:122:LYS:HG2	46:L9:123:ILE:N	2.33	0.43
46:L9:163:GLN:O	46:L9:166:ARG:HD3	2.17	0.43
48:M1:12:LEU:HD23	48:M1:133:ARG:NH1	5.26	0.43
48:M1:163:PHE:O	48:M1:163:PHE:CG	3.27	0.43
49:M3:75:PHE:C	49:M3:76:THR:O	2.52	0.43
51:M5:162:ARG:HB2	51:M5:164:LEU:HD12	1.99	0.43
51:M5:197:LEU:CD2	51:M5:199:LEU:HD21	2.45	0.43
52:M6:51:LYS:O	52:M6:52:LEU:C	2.87	0.43
53:M7:67:ILE:HB	53:M7:80:LYS:HG2	4.32	0.43
36:1:1364:C:O2'	54:M8:9:GLN:OE1	2.28	0.43
57:N1:131:GLN:HG3	57:N1:132:PRO:HD3	2.00	0.43
58:N2:11:ILE:C	58:N2:68:THR:HG22	7.10	0.43
64:N8:27:LYS:O	64:N8:28:HIS:CB	3.65	0.43
54:M8:182:LYS:HE2	64:N8:55:LYS:O	2.17	0.43
64:N8:58:MET:HE2	64:N8:58:MET:HB2	2.15	0.43
64:N8:73:LEU:HB2	64:N8:109:TYR:CD1	2.53	0.43
64:N8:78:LEU:HD23	64:N8:78:LEU:HA	2.59	0.43
64:N8:82:ILE:HD11	64:N8:102:ILE:HG12	2.97	0.43
68:O2:128:LEU:HA	68:O2:128:LEU:HD22	1.74	0.43
38:4:38:U:C2	71:O5:89:ARG:NH1	2.86	0.43
72:O6:100:HIS:O	72:O6:100:HIS:ND1	5.07	0.43
2:S0:56:LYS:HG3	2:S0:159:ALA:O	2.18	0.43
4:S2:238:SER:C	4:S2:240:LEU:N	2.70	0.43
8:S6:163:THR:HA	8:S6:168:THR:HG22	3.37	0.43
11:S9:2:PRO:HB3	80:6:381:C:OP2	357.16	0.43
34:SR:16:HIS:CD2	34:SR:20:VAL:HG22	2.53	0.43
36:1:643:U:O2'	36:1:1153:A:N1	2.41	0.43
36:1:1257:C:N4	36:1:1261:G:H22	2.15	0.43
36:1:1685:C:N3	36:1:1686:U:C5	2.86	0.43
36:1:1765:U:OP1	36:1:1765:U:H4'	2.17	0.43
36:1:1658:G:C4	36:1:1796:G:C6	3.06	0.43
36:1:2100:A:H5'	36:1:2101:C:P	2.58	0.43
36:1:2196:C:C4	36:1:2242:A:N7	2.87	0.43
36:1:2273:G:O2'	36:1:2274:U:P	2.75	0.43
36:1:2299:A:C5	36:1:2300:G:C8	3.05	0.43
36:1:2766:U:OP1	78:Q2:39:GLY:N	2.50	0.43
36:1:2982:A:O3'	36:1:2983:C:O2	2.36	0.43
36:1:3174:A:N1	36:1:3175:U:O4	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3183:A:H2'	36:1:3184:A:H8	1.83	0.43
36:1:831:G:N7	92:1:3425:OHX:N1	2.66	0.43
36:1:688:G:C6	36:1:690:A:C4	3.06	0.43
36:1:834:U:H5	36:1:835:G:C6	2.36	0.43
36:1:974:G:H5'	54:M8:16:ARG:HG3	2.00	0.43
36:1:992:A:N1	36:1:993:G:C6	2.86	0.43
1:2:1068:G:H2'	1:2:1070:A:OP2	2.18	0.43
1:2:1499:A:N7	22:D0:59:PRO:HD3	2.33	0.43
1:2:577:G:H2'	35:SM:99:LYS:HZ1	1.81	0.43
1:2:776:A:OP2	1:2:776:A:H8	2.01	0.43
1:2:870:A:H5''	16:C4:120:PRO:HB2	1.99	0.43
1:2:912:A:N6	1:2:913:A:C2	2.86	0.43
1:2:852:A:C6	1:2:943:U:N3	2.86	0.43
36:1:1618:G:H4'	38:4:129:C:H1'	1.99	0.43
92:4:217:OHX:N5	92:4:218:OHX:N1	2.65	0.43
38:4:97:A:H2'	38:4:98:U:H6	1.83	0.43
65:N9:8:THR:OG1	85:5:1136:A:OP2	227.56	0.43
85:5:1243:G:OP2	85:5:1243:G:H8	2.01	0.43
85:5:1299:U:H2'	85:5:1300:G:C8	2.52	0.43
85:5:1601:U:C5	85:5:1604:G:O6	2.70	0.43
85:5:2130:G:N1	85:5:2323:G:C6	2.86	0.43
85:5:2253:G:H5'	85:5:2254:U:OP2	2.18	0.43
85:5:2403:G:N2	85:5:2405:C:C2	2.86	0.43
85:5:2618:G:HO2'	85:5:2619:G:P	2.39	0.43
64:N8:62:HIS:HB3	85:5:304:G:O2'	132.70	0.43
85:5:3197:G:C2	85:5:3199:G:C4	3.06	0.43
85:5:3279:A:C6	85:5:3280:U:C4	3.06	0.43
85:5:415:G:C2	38:8:9:A:C2	3.06	0.43
85:5:508:U:O4	92:5:3721:OHX:N1	2.51	0.43
85:5:5:G:C6	38:8:155:A:C2	3.06	0.43
85:5:676:G:O2'	85:5:678:G:H4'	2.17	0.43
85:5:706:A:C6	85:5:707:U:C4	3.05	0.43
85:5:817:A:OP2	85:5:817:A:H4'	2.18	0.43
80:6:108:A:C6	80:6:109:G:C6	3.06	0.43
80:6:1092:A:O2'	80:6:1093:A:H3'	2.17	0.43
80:6:1134:C:H2'	80:6:1135:U:O4'	2.19	0.43
80:6:1192:C:H3'	80:6:1193:A:H8	1.83	0.43
80:6:1563:C:H2'	80:6:1564:U:C6	2.53	0.43
80:6:1605:G:H2'	80:6:1606:C:H6	1.82	0.43
80:6:1751:C:H2'	80:6:1752:U:O4'	2.18	0.43
10:S8:17:LYS:O	92:6:1921:OHX:N1	299.16	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:54:C:H2'	80:6:55:A:C8	2.51	0.43
80:6:703:G:H2'	80:6:704:C:C6	2.53	0.43
80:6:783:G:H2'	80:6:784:C:C6	2.53	0.43
80:6:748:U:C2	80:6:802:G:N1	2.86	0.43
37:7:30:G:C6	37:7:31:U:C4	3.06	0.43
12:C0:32:HIS:CD2	12:C0:33:GLU:H	4.19	0.43
14:C2:56:GLU:OE1	14:C2:124:LYS:NZ	2.92	0.43
14:C2:81:ASP:OD1	14:C2:81:ASP:N	2.51	0.43
18:C6:114:ARG:O	18:C6:115:THR:HB	3.74	0.43
21:C9:114:VAL:CG2	21:C9:122:ARG:HB3	2.48	0.43
24:D2:37:PHE:CD2	24:D2:126:LEU:HD13	4.72	0.43
26:D4:38:ASP:HA	26:D4:41:ARG:HG3	2.00	0.43
5:S3:18:TYR:HD2	31:D9:49:ASP:O	2.02	0.43
33:E1:149:LYS:HE3	33:E1:149:LYS:HB2	2.99	0.43
39:L2:165:VAL:HG13	39:L2:165:VAL:O	2.84	0.43
40:L3:141:GLY:O	40:L3:145:GLU:HG2	2.18	0.43
40:L3:332:ARG:HH22	85:5:3304:U:P	205.28	0.43
41:L4:136:LEU:HD22	41:L4:136:LEU:HA	3.04	0.43
36:1:2402:A:H5''	41:L4:67:THR:OG1	2.18	0.43
42:L5:211:LEU:O	42:L5:212:ALA:C	3.32	0.43
42:L5:268:GLU:C	42:L5:270:LYS:N	3.24	0.43
42:L5:270:LYS:HD2	42:L5:272:TYR:C	8.77	0.43
44:L7:174:GLY:C	44:L7:176:TYR:H	2.33	0.43
45:L8:103:ALA:O	45:L8:106:LYS:HB3	2.85	0.43
46:L9:174:LYS:O	46:L9:176:LEU:N	2.51	0.43
49:M3:89:TYR:O	49:M3:92:THR:OG1	2.35	0.43
51:M5:172:ARG:HB3	51:M5:174:ILE:HD11	2.00	0.43
51:M5:181:ASN:O	51:M5:183:THR:N	2.51	0.43
51:M5:37:HIS:CD2	51:M5:63:ARG:HB3	2.54	0.43
52:M6:19:LEU:O	52:M6:23:VAL:HG23	2.18	0.43
52:M6:80:PHE:CE2	52:M6:84:LEU:HD12	3.02	0.43
53:M7:41:LEU:HD23	53:M7:41:LEU:O	3.82	0.43
53:M7:48:LEU:HD13	53:M7:88:VAL:HG13	2.00	0.43
54:M8:178:ARG:HA	54:M8:178:ARG:HD3	1.80	0.43
55:M9:106:LEU:HD21	55:M9:123:LEU:CB	2.76	0.43
56:N0:51:VAL:HG23	56:N0:51:VAL:H	2.35	0.43
62:N6:40:ARG:HG3	62:N6:45:ILE:O	2.18	0.43
63:N7:38:PHE:CE2	63:N7:76:ASN:HB2	2.53	0.43
36:1:716:A:N6	64:N8:117:ARG:HG3	2.33	0.43
65:N9:14:ARG:HH12	65:N9:18:ARG:NH1	2.83	0.43
68:O2:123:LYS:HA	68:O2:126:LEU:HD12	2.12	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:85:LEU:HD22	68:O2:92:TYR:HB2	1.99	0.43
69:O3:17:GLN:OE1	69:O3:24:ASN:ND2	2.46	0.43
70:O4:51:LEU:HD13	70:O4:79:SER:O	2.17	0.43
79:Q3:49:ARG:HD3	79:Q3:51:ALA:N	2.59	0.43
4:S2:143:TYR:CD2	4:S2:147:ASN:HA	4.83	0.43
4:S2:174:ARG:HA	4:S2:195:ASP:OD2	2.18	0.43
6:S4:250:GLU:HG3	6:S4:250:GLU:H	1.76	0.43
6:S4:71:LYS:HA	6:S4:76:VAL:HA	2.19	0.43
9:S7:173:TYR:CE1	9:S7:181:ILE:HD11	4.36	0.43
35:SM:48:ARG:HG3	35:SM:48:ARG:H	1.45	0.43
35:SM:58:GLU:OE2	35:SM:62:ARG:HD2	5.23	0.43
34:SR:242:SER:HB3	34:SR:292:LEU:HD23	2.01	0.43
36:1:1727:G:H2'	36:1:1728:G:N2	2.33	0.43
36:1:1801:U:O5'	36:1:1801:U:H6	2.00	0.43
36:1:211:A:H4'	36:1:212:G:OP2	2.18	0.43
36:1:2247:G:OP1	92:1:3597:OHX:N6	2.51	0.43
36:1:2144:A:N3	36:1:2281:A:C6	2.87	0.43
36:1:2503:G:HO2'	36:1:2504:U:H5	1.66	0.43
36:1:2523:A:C6	36:1:2587:U:C5	3.06	0.43
36:1:2551:U:OP1	36:1:2551:U:H3'	2.18	0.43
36:1:2616:C:C5	36:1:2617:U:C5	3.06	0.43
36:1:2706:G:C4	36:1:2707:C:C5	3.07	0.43
36:1:2885:C:C2	36:1:2938:G:N2	2.86	0.43
36:1:296:A:H2'	36:1:297:G:N3	2.33	0.43
36:1:3053:G:C6	36:1:3054:U:C4	3.06	0.43
36:1:3112:G:O2'	36:1:3113:A:O4'	2.28	0.43
36:1:3109:G:N2	36:1:3126:C:C2	2.86	0.43
36:1:3148:U:O2'	36:1:3149:G:H5'	2.18	0.43
36:1:2865:U:OP2	92:1:3460:OHX:N4	2.51	0.43
36:1:1789:G:O6	92:1:3699:OHX:N4	2.52	0.43
36:1:41:G:N2	36:1:2803:A:N7	2.65	0.43
36:1:499:G:H2'	36:1:500:C:C6	2.53	0.43
36:1:593:C:OP1	43:L6:20:LYS:N	2.35	0.43
1:2:1064:A:O2'	1:2:1066:G:N7	2.39	0.43
1:2:1077:G:N1	1:2:1078:U:C4	2.86	0.43
1:2:1620:C:H42	35:SM:92:ASP:HB2	1.84	0.43
1:2:487:G:H3'	1:2:488:G:H5''	2.00	0.43
1:2:577:G:H2'	35:SM:99:LYS:HZ3	1.83	0.43
92:1:3590:OHX:N5	92:3:204:OHX:N2	2.67	0.43
36:1:349:A:C2	38:4:24:G:C4	3.05	0.43
85:5:1025:A:H3'	85:5:1026:A:C4'	2.46	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1037:C:C4	85:5:1038:C:C5	3.06	0.43
85:5:1168:U:O2'	85:5:1169:A:H5'	2.18	0.43
85:5:1235:U:H4'	85:5:1236:G:H5'	2.01	0.43
85:5:1284:C:O2'	85:5:1285:G:OP1	2.35	0.43
71:O5:74:LYS:NZ	85:5:128:G:OP1	79.88	0.43
85:5:155:G:C5'	85:5:156:G:C8	3.01	0.43
85:5:1656:A:H8	85:5:1656:A:OP1	2.00	0.43
85:5:2334:U:H2'	85:5:2335:G:H5'	2.00	0.43
85:5:2417:U:C4	85:5:2606:G:C5	3.05	0.43
85:5:2689:A:C8	85:5:2702:A:C6	3.05	0.43
85:5:2867:C:O2'	85:5:2868:U:H5'	2.19	0.43
85:5:3222:U:O2'	85:5:3223:A:H5'	2.17	0.43
85:5:3155:U:H2'	92:5:3730:OHX:N4	2.32	0.43
85:5:386:A:H2'	85:5:387:A:O4'	2.18	0.43
85:5:685:G:H8	85:5:685:G:O5'	2.02	0.43
85:5:736:A:C4	85:5:737:G:H1'	2.54	0.43
85:5:915:A:N3	85:5:915:A:H2'	2.33	0.43
85:5:916:G:H5'	85:5:917:A:OP1	2.18	0.43
80:6:1037:C:H2'	80:6:1038:U:H6	1.83	0.43
80:6:1326:A:C2	80:6:1327:C:C5	3.06	0.43
80:6:140:A:OP2	80:6:140:A:H4'	2.18	0.43
80:6:1524:A:H2	80:6:1590:G:N3	2.16	0.43
80:6:1654:G:C6	80:6:1745:G:C6	3.06	0.43
80:6:210:A:C6	80:6:211:U:C4	3.07	0.43
80:6:421:A:O2'	80:6:422:G:H5'	2.19	0.43
80:6:816:G:C2	80:6:817:A:C4	3.06	0.43
80:6:888:U:H2'	80:6:889:U:C6	2.54	0.43
80:6:934:C:N4	80:6:1077:C:H4'	2.33	0.43
80:6:993:A:C8	80:6:994:G:C8	3.07	0.43
38:8:92:A:H2'	38:8:93:U:O4'	2.18	0.43
14:C2:132:GLU:O	14:C2:136:ILE:HG12	2.18	0.43
14:C2:45:LEU:HB3	14:C2:46:ARG:H	2.76	0.43
16:C4:127:ARG:HG3	28:D6:22:ARG:NH1	2.33	0.43
18:C6:113:ASP:OD2	18:C6:116:LEU:HB2	2.18	0.43
1:2:1508:A:H5'	21:C9:93:HIS:HB2	1.99	0.43
24:D2:36:LYS:HB2	24:D2:110:ILE:HD12	1.98	0.43
28:D6:95:ARG:HA	80:6:1797:A:O4'	343.63	0.43
39:L2:152:SER:OG	39:L2:153:GLY:N	2.51	0.43
40:L3:108:GLU:HB2	40:L3:137:TYR:CD1	2.52	0.43
40:L3:167:ARG:O	40:L3:169:THR:N	2.51	0.43
40:L3:252:ILE:O	40:L3:264:VAL:HG21	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:206:LEU:HA	41:L4:226:GLU:O	2.18	0.43
41:L4:178:LEU:HD21	41:L4:225:VAL:CG2	3.68	0.43
41:L4:333:VAL:O	41:L4:336:ALA:N	2.50	0.43
41:L4:357:GLU:O	41:L4:360:LYS:N	2.51	0.43
42:L5:75:LEU:O	42:L5:75:LEU:HD23	3.60	0.43
45:L8:81:THR:O	45:L8:179:ILE:O	5.01	0.43
46:L9:33:THR:O	46:L9:34:LEU:HD23	2.19	0.43
46:L9:49:ASN:OD1	46:L9:52:LEU:N	2.57	0.43
47:M0:171:TRP:CD2	47:M0:181:TYR:HD2	2.35	0.43
48:M1:12:LEU:HB3	48:M1:162:TRP:CD1	2.53	0.43
48:M1:30:LEU:HD21	48:M1:66:ALA:N	2.33	0.43
51:M5:180:PHE:O	51:M5:181:ASN:C	2.56	0.43
51:M5:73:ARG:NH1	51:M5:92:LEU:HD21	3.11	0.43
52:M6:111:PRO:O	52:M6:115:LYS:HD3	2.91	0.43
52:M6:14:HIS:HA	52:M6:123:ALA:O	2.19	0.43
52:M6:181:ALA:O	52:M6:183:ALA:N	2.51	0.43
36:1:1507:G:C8	53:M7:129:THR:HG21	2.53	0.43
53:M7:138:LYS:NZ	53:M7:140:GLU:OE1	2.63	0.43
54:M8:67:ILE:HD13	54:M8:67:ILE:HG21	2.36	0.43
57:N1:108:ARG:CD	57:N1:130:ARG:HD3	2.48	0.43
59:N3:118:VAL:CG1	59:N3:119:GLY:N	3.01	0.43
62:N6:40:ARG:O	62:N6:44:GLY:N	2.48	0.43
62:N6:56:VAL:HG11	62:N6:70:ILE:HD11	2.66	0.43
64:N8:112:ILE:HA	64:N8:112:ILE:HD13	1.72	0.43
64:N8:117:ARG:HA	64:N8:117:ARG:HD3	1.83	0.43
64:N8:15:VAL:H	64:N8:15:VAL:HG23	3.05	0.43
67:O1:29:ALA:HB3	67:O1:30:PRO:HD3	2.00	0.43
68:O2:71:HIS:CE1	68:O2:118:LYS:HD2	2.53	0.43
69:O3:90:PRO:O	69:O3:91:ALA:HB3	2.62	0.43
71:O5:50:SER:O	71:O5:54:VAL:HG23	2.40	0.43
72:O6:53:TYR:CE2	85:5:295:A:OP1	146.81	0.43
72:O6:70:ARG:CD	72:O6:84:LYS:HG2	3.60	0.43
1:2:1624:C:H4'	77:Q1:1:MET:N	2.34	0.43
2:S0:60:ALA:O	2:S0:64:ILE:HG13	2.64	0.43
3:S1:181:LEU:O	3:S1:185:THR:OG1	2.56	0.43
4:S2:162:CYS:SG	4:S2:212:LYS:HE2	2.58	0.43
4:S2:212:LYS:NZ	80:6:1298:U:O3'	389.85	0.43
4:S2:137:ILE:HD13	4:S2:219:GLY:HA3	3.96	0.43
4:S2:59:HIS:CD2	4:S2:238:SER:HA	2.73	0.43
5:S3:141:LYS:HB3	5:S3:144:ALA:HA	7.30	0.43
6:S4:151:ASP:H	6:S4:154:ILE:HD12	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:176:ASP:N	6:S4:176:ASP:OD2	2.50	0.43
7:S5:69:PHE:HE2	18:C6:53:LEU:HD12	1.84	0.43
8:S6:129:VAL:HG23	8:S6:130:PRO:HD2	2.02	0.43
9:S7:35:LYS:C	9:S7:37:GLU:H	2.21	0.43
11:S9:107:ARG:NH2	11:S9:148:VAL:HG12	2.73	0.43
34:SR:112:SER:HB2	34:SR:153:GLN:HA	2.02	0.43
34:SR:242:SER:O	34:SR:292:LEU:HD21	2.19	0.43
34:SR:299:GLN:NE2	34:SR:315:VAL:O	2.52	0.43
36:1:1172:G:N1	36:1:1173:U:C4	2.86	0.43
36:1:1376:C:H1'	36:1:1407:A:N3	2.33	0.43
36:1:1467:A:C6	36:1:1470:U:C2	3.06	0.43
36:1:1547:G:N1	36:1:1548:C:N4	2.66	0.43
36:1:1642:A:O2'	36:1:1643:A:C8	2.72	0.43
36:1:2721:A:C5	36:1:2722:U:C5	3.06	0.43
36:1:348:A:H4'	36:1:367:A:N6	2.33	0.43
1:2:1241:U:C4	1:2:1242:U:C2	3.06	0.43
1:2:144:U:O2'	1:2:145:A:H8	2.02	0.43
1:2:624:G:OP2	92:2:2043:OHX:N2	2.51	0.43
1:2:597:G:C6	1:2:598:U:C4	3.06	0.43
1:2:761:G:N3	1:2:761:G:O4'	2.50	0.43
37:3:18:C:N4	37:3:61:G:H1	2.15	0.43
42:L5:46:THR:HG21	85:5:1078:U:H4'	236.90	0.43
85:5:1069:C:C2	85:5:1090:G:C2	3.07	0.43
85:5:1225:A:C6	85:5:1226:G:C5	3.06	0.43
85:5:1764:U:H3'	85:5:1765:U:C5'	2.45	0.43
85:5:1827:C:H2'	85:5:1828:A:H8	1.84	0.43
85:5:2132:C:O5'	85:5:2132:C:H6	2.01	0.43
57:N1:10:ARG:NH2	85:5:2641:U:OP2	234.13	0.43
85:5:2684:C:N4	85:5:2685:C:H41	2.15	0.43
85:5:2850:G:C2'	85:5:2851:A:OP2	2.66	0.43
40:L3:13:HIS:CE1	85:5:3011:A:C8	248.14	0.43
85:5:3059:G:O6	85:5:3060:C:N4	2.52	0.43
85:5:3198:U:H4'	85:5:3199:G:OP2	2.18	0.43
85:5:3288:G:C4	85:5:3289:G:C8	3.07	0.43
85:5:3366:G:H2'	85:5:3367:C:C6	2.52	0.43
85:5:392:G:N3	85:5:393:U:C6	2.87	0.43
80:6:1118:G:C6	80:6:1119:G:N7	2.86	0.43
80:6:1303:U:C5	80:6:1304:G:C5	3.07	0.43
80:6:1461:C:H2'	80:6:1462:G:H8	1.83	0.43
80:6:1698:G:H1'	80:6:1699:G:OP1	2.18	0.43
92:6:2012:OHX:N3	92:6:2030:OHX:N1	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:513:U:H2'	80:6:514:G:C8	2.53	0.43
80:6:521:A:H2'	80:6:522:U:O4'	2.18	0.43
80:6:775:G:C2	80:6:786:C:C4	3.06	0.43
26:D4:10:ARG:HD2	80:6:778:G:O6	428.07	0.43
80:6:832:U:H2'	80:6:833:U:O4'	2.18	0.43
80:6:998:A:C8	80:6:999:U:C5	3.06	0.43
37:7:1:G:C2	37:7:2:G:C8	3.07	0.43
85:5:997:A:H4'	37:7:80:G:H5'	2.00	0.43
38:8:37:A:C6	38:8:104:A:C5	3.07	0.43
38:8:118:C:C2	38:8:136:G:C2	3.07	0.43
13:C1:127:GLN:N	13:C1:137:PHE:CD1	3.80	0.43
1:2:910:C:H1'	16:C4:125:SER:CB	2.47	0.43
19:C7:105:GLN:O	19:C7:109:LEU:N	2.61	0.43
20:C8:26:ILE:HD11	20:C8:31:ALA:N	2.33	0.43
24:D2:80:ASN:OD1	24:D2:124:LYS:NZ	2.30	0.43
25:D3:141:GLU:CG	25:D3:144:ARG:HH12	14.50	0.43
25:D3:79:ASN:OD1	25:D3:81:LYS:HG3	2.19	0.43
26:D4:17:LEU:HG	26:D4:17:LEU:H	1.57	0.43
27:D5:93:SER:OG	27:D5:100:ILE:HB	3.29	0.43
30:D8:13:ILE:HD12	30:D8:29:ARG:HG2	2.01	0.43
33:E1:103:LEU:HA	33:E1:105:TYR:HD2	3.15	0.43
33:E1:147:VAL:HG12	33:E1:148:TYR:CD2	2.53	0.43
39:L2:42:ARG:NH1	39:L2:87:PHE:CE1	4.25	0.43
39:L2:51:ASP:OD1	39:L2:52:SER:N	2.52	0.43
36:1:1305:U:H5	40:L3:256:HIS:HB3	1.83	0.43
40:L3:384:LYS:C	40:L3:385:LYS:O	3.10	0.43
40:L3:56:ILE:HD12	40:L3:56:ILE:HA	2.54	0.43
40:L3:87:VAL:HB	40:L3:110:LEU:HD11	2.01	0.43
41:L4:107:ARG:HH11	41:L4:107:ARG:HD3	1.47	0.43
41:L4:34:ILE:O	41:L4:38:VAL:HG23	2.18	0.43
41:L4:3:ARG:HH11	41:L4:22:LEU:CD1	2.30	0.43
41:L4:58:HIS:C	41:L4:60:THR:N	2.72	0.43
43:L6:55:LEU:HD21	43:L6:145:LEU:HD11	2.74	0.43
43:L6:58:LEU:HD23	43:L6:58:LEU:N	2.32	0.43
44:L7:84:VAL:HG11	44:L7:127:LEU:HD11	2.56	0.43
41:L4:330:TYR:HA	44:L7:45:LEU:HD23	4.80	0.43
49:M3:141:ALA:O	49:M3:145:PHE:N	2.80	0.43
49:M3:43:ALA:HA	49:M3:46:ILE:HG22	5.05	0.43
51:M5:33:LYS:HD2	51:M5:37:HIS:CE1	2.53	0.43
51:M5:68:ARG:HD2	51:M5:127:TYR:C	2.38	0.43
52:M6:172:ARG:HA	52:M6:175:THR:CG2	4.50	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:7:VAL:HG11	56:N0:163:PHE:CZ	2.54	0.43
55:M9:105:LEU:HD23	55:M9:138:LEU:HD12	4.57	0.43
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.43	0.43
56:N0:1:MET:SD	56:N0:36:ILE:HG21	2.59	0.43
57:N1:27:LEU:O	57:N1:31:LEU:HG	2.18	0.43
57:N1:87:LYS:HD2	57:N1:87:LYS:HA	4.29	0.43
59:N3:13:ILE:HG13	59:N3:13:ILE:O	2.14	0.43
60:N4:9:SER:HB2	60:N4:51:TRP:CZ3	2.53	0.43
63:N7:51:LEU:HB3	63:N7:65:ARG:NH1	2.33	0.43
67:O1:89:LEU:HD12	67:O1:89:LEU:N	2.34	0.43
69:O3:52:VAL:HG22	69:O3:66:VAL:HG22	2.31	0.43
74:O8:58:ASP:HB3	74:O8:61:LYS:HG2	3.73	0.43
91:P:75:C:H2'	98:P:101:8AN:H1'	2.00	0.43
78:Q2:32:LYS:HD2	78:Q2:32:LYS:HA	4.41	0.43
79:Q3:18:TYR:HA	85:5:2131:A:N6	226.55	0.43
2:S0:88:LYS:HG2	2:S0:201:LEU:HG	2.38	0.43
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	2.43	0.43
6:S4:136:VAL:O	6:S4:137:PRO:C	2.89	0.43
6:S4:159:THR:OG1	6:S4:160:VAL:N	2.98	0.43
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	2.78	0.43
7:S5:59:VAL:C	7:S5:61:TYR:H	2.22	0.43
7:S5:71:ALA:O	7:S5:91:GLU:HG3	2.26	0.43
10:S8:138:ASN:O	10:S8:142:LYS:HG3	2.19	0.43
11:S9:134:ILE:HD13	11:S9:141:VAL:H	5.83	0.43
11:S9:92:LYS:O	11:S9:93:LEU:HD23	2.19	0.43
34:SR:207:ASP:OD1	34:SR:209:THR:OG1	2.23	0.43
34:SR:248:ASN:OD1	34:SR:249:ARG:N	2.70	0.43
34:SR:307:ASP:N	34:SR:307:ASP:OD1	2.47	0.43
34:SR:61:PHE:HD1	34:SR:92:TRP:CE3	2.47	0.43
36:1:1307:G:H5''	52:M6:60:LYS:CE	2.48	0.43
36:1:659:G:H2'	36:1:1432:C:H42	1.83	0.43
36:1:1743:G:N1	36:1:1744:G:C5	2.86	0.43
36:1:23:A:O5'	36:1:23:A:H8	2.00	0.43
36:1:2621:G:C5	36:1:2622:C:C5	3.06	0.43
36:1:1204:A:H2	36:1:2834:G:N3	2.16	0.43
36:1:3299:A:H4'	53:M7:55:GLN:OE1	2.18	0.43
36:1:3325:G:H5''	67:O1:103:GLY:HA2	2.01	0.43
36:1:3060:C:H1'	36:1:3332:U:O2'	2.19	0.43
36:1:346:C:C4	36:1:348:A:C8	3.06	0.43
36:1:366:A:N6	36:1:367:A:C2	2.86	0.43
36:1:374:A:C2	36:1:375:A:C4	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:404:G:C6	36:1:405:U:C2	3.06	0.43
36:1:427:C:OP2	68:O2:15:LYS:NZ	2.52	0.43
1:2:1205:C:H2'	1:2:1206:A:C8	2.53	0.43
1:2:1233:U:O2'	1:2:1234:U:OP1	2.36	0.43
1:2:1292:C:O2'	1:2:1384:A:N1	2.51	0.43
1:2:1452:A:H2'	1:2:1453:C:C6	2.54	0.43
1:2:253:A:O2'	1:2:254:A:H5'	2.19	0.43
1:2:391:A:C2	1:2:407:A:C2	3.07	0.43
1:2:624:G:C8	1:2:1010:A:C6	3.07	0.43
1:2:686:G:N2	1:2:719:C:H1'	2.33	0.43
1:2:874:A:H2'	1:2:875:A:C8	2.54	0.43
37:3:5:G:O5'	37:3:5:G:H8	2.02	0.43
37:3:68:C:O2'	37:3:69:C:H5'	2.19	0.43
85:5:1135:A:N3	85:5:1136:A:C8	2.85	0.43
52:M6:21:SER:OG	85:5:1175:C:O4'	257.21	0.43
85:5:1195:A:C4	85:5:1309:U:C2	3.07	0.43
85:5:1222:G:H8	85:5:1222:G:OP2	2.01	0.43
85:5:1258:U:O2	85:5:1260:A:H8	2.01	0.43
63:N7:69:LYS:NZ	85:5:1632:A:OP1	191.80	0.43
58:N2:42:LYS:HB2	85:5:1687:U:H5	174.82	0.43
70:O4:24:LYS:HE3	85:5:1694:U:O3'	152.01	0.43
85:5:1819:U:H2'	85:5:1820:U:H5'	2.00	0.43
85:5:1880:U:C2	85:5:1881:A:C8	3.07	0.43
85:5:1902:G:C6	85:5:1903:U:C2	3.06	0.43
85:5:2095:G:H2'	85:5:2096:A:H8	1.83	0.43
85:5:2390:A:C2	85:5:2990:G:C2	3.07	0.43
85:5:258:G:C2	85:5:259:C:C2	3.06	0.43
85:5:2656:A:O2'	92:5:3412:OHX:N4	2.51	0.43
85:5:2698:G:H2'	85:5:2699:G:C8	2.50	0.43
85:5:3048:A:C5	85:5:3090:U:C5	3.06	0.43
85:5:2910:A:O2'	85:5:3130:A:N1	2.40	0.43
85:5:3164:C:O2'	85:5:3165:A:H5'	2.18	0.43
85:5:3328:G:C2	85:5:3379:C:C2	3.07	0.43
85:5:902:G:O6	92:5:3480:OHX:N4	2.52	0.43
80:6:100:A:C6	80:6:101:U:C4	3.07	0.43
80:6:1130:G:O5'	80:6:1130:G:H8	2.01	0.43
80:6:1398:U:C4	80:6:1400:A:N1	2.87	0.43
80:6:139:C:H4'	80:6:140:A:O5'	2.17	0.43
80:6:1533:C:H4'	80:6:1539:G:N1	2.32	0.43
20:C8:30:TYR:CZ	80:6:1539:G:N3	352.49	0.43
80:6:1562:G:N1	80:6:1563:C:C4	2.87	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1653:C:C5	80:6:1654:G:C5	3.06	0.43
80:6:248:U:H2'	80:6:249:U:H5''	2.00	0.43
80:6:25:C:O2	92:6:1962:OHX:N6	2.52	0.43
80:6:275:C:N4	80:6:276:C:N4	2.66	0.43
4:S2:197:TYR:CD1	80:6:2:A:H2'	392.49	0.43
80:6:302:U:H5'	80:6:303:U:OP2	2.18	0.43
80:6:414:C:N3	80:6:420:A:C2	2.86	0.43
28:D6:19:LYS:HE3	80:6:928:U:H5''	295.96	0.43
80:6:939:A:N6	80:6:940:A:N6	2.66	0.43
38:8:114:G:C6	38:8:115:C:C4	3.06	0.43
85:5:345:G:O2'	38:8:25:G:N3	2.50	0.43
38:8:65:A:C4	38:8:66:A:C8	3.07	0.43
38:8:65:A:C5	38:8:66:A:N7	2.86	0.43
12:C0:70:GLU:O	12:C0:73:VAL:HB	2.17	0.43
16:C4:83:ILE:HG13	16:C4:84:ARG:N	2.34	0.43
17:C5:124:THR:OG1	17:C5:124:THR:O	3.01	0.43
18:C6:138:PHE:HA	18:C6:138:PHE:HD1	1.73	0.43
19:C7:20:TYR:O	19:C7:24:LEU:HG	3.54	0.43
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.19	0.43
24:D2:75:ILE:HD13	24:D2:75:ILE:HA	1.81	0.43
28:D6:87:ARG:NE	28:D6:91:ASP:O	2.45	0.43
33:E1:140:TYR:CZ	33:E1:142:GLY:HA2	2.88	0.43
33:E1:144:CYS:CB	33:E1:147:VAL:HB	2.46	0.43
39:L2:100:ASN:O	39:L2:166:ILE:HG12	2.91	0.43
39:L2:131:GLY:H	39:L2:169:ILE:HB	2.21	0.43
39:L2:205:ASN:O	39:L2:207:VAL:N	2.87	0.43
40:L3:231:HIS:CE1	40:L3:270:ARG:CZ	3.01	0.43
40:L3:240:ARG:O	40:L3:240:ARG:HG2	2.18	0.43
40:L3:305:ILE:HG12	40:L3:321:PHE:CE2	2.54	0.43
41:L4:135:VAL:HG13	41:L4:245:GLY:O	2.18	0.43
41:L4:271:LYS:CB	41:L4:274:TYR:HB3	3.56	0.43
41:L4:4:PRO:O	41:L4:5:GLN:HB2	2.19	0.43
42:L5:99:TYR:CG	42:L5:199:ILE:HG23	2.84	0.43
42:L5:227:LEU:O	42:L5:229:ASP:N	2.51	0.43
42:L5:107:ARG:HB3	42:L5:251:PRO:HG3	2.00	0.43
42:L5:283:ALA:O	42:L5:286:VAL:HB	2.72	0.43
43:L6:137:ASP:O	43:L6:140:VAL:HB	3.09	0.43
44:L7:177:GLY:O	44:L7:178:ILE:HB	2.17	0.43
44:L7:47:ARG:NH2	44:L7:179:LEU:HD11	2.33	0.43
45:L8:144:GLU:OE1	51:M5:6:TYR:OH	2.31	0.43
45:L8:230:LYS:HE3	45:L8:230:LYS:HB2	4.42	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:20:ILE:HD11	46:L9:25:VAL:HG22	5.17	0.43
47:M0:170:LYS:HA	47:M0:177:ASP:HA	1.99	0.43
47:M0:41:ALA:O	47:M0:139:ARG:NH2	3.46	0.43
47:M0:86:HIS:HB3	47:M0:139:ARG:HD3	1.99	0.43
49:M3:53:LEU:HB2	49:M3:55:ARG:NH1	2.52	0.43
51:M5:38:ARG:HD2	51:M5:39:ALA:O	2.18	0.43
52:M6:108:ILE:HG21	52:M6:108:ILE:HD13	1.95	0.43
53:M7:176:ILE:HA	53:M7:179:GLN:OE1	2.18	0.43
53:M7:69:ARG:HH21	85:5:2992:U:H1'	191.73	0.43
55:M9:106:LEU:HB3	55:M9:120:TYR:CD1	2.65	0.43
56:N0:88:HIS:N	56:N0:88:HIS:CD2	4.00	0.43
36:1:2916:U:C1'	59:N3:44:SER:HB3	2.40	0.43
60:N4:6:ASP:OD2	60:N4:6:ASP:C	2.56	0.43
62:N6:34:PRO:HA	62:N6:47:ALA:CB	3.46	0.43
64:N8:47:LYS:HE2	64:N8:48:TYR:CZ	2.53	0.43
65:N9:38:LYS:HE2	65:N9:38:LYS:HB2	4.23	0.43
66:O0:24:THR:CG2	66:O0:91:SER:HB3	2.49	0.43
68:O2:19:ARG:HH11	68:O2:28:VAL:CG1	3.50	0.43
68:O2:22:SER:OG	68:O2:23:ASP:N	2.50	0.43
70:O4:74:ARG:CZ	70:O4:74:ARG:HB3	2.48	0.43
70:O4:80:ARG:HH11	70:O4:88:ARG:HH22	1.65	0.43
64:N8:129:PHE:CE2	72:O6:8:ALA:HB1	3.17	0.43
73:O7:69:HIS:ND1	73:O7:72:ARG:NH2	2.67	0.43
78:Q2:11:TYR:CD1	78:Q2:12:CYS:N	2.87	0.43
78:Q2:77:CYS:SG	78:Q2:79:THR:HG22	2.58	0.43
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CZ3	2.52	0.43
2:S0:161:PRO:C	2:S0:162:CYS:SG	3.35	0.43
3:S1:113:MET:HB3	3:S1:113:MET:HE2	4.32	0.43
3:S1:141:ALA:CB	3:S1:210:ILE:HG12	2.94	0.43
4:S2:35:TRP:CD1	4:S2:67:GLN:HG2	4.60	0.43
6:S4:126:VAL:HG12	6:S4:158:ASP:O	2.19	0.43
9:S7:187:SER:O	9:S7:187:SER:OG	2.31	0.43
9:S7:74:GLN:NE2	9:S7:92:PHE:HB2	2.33	0.43
11:S9:102:GLU:C	11:S9:104:PHE:N	3.30	0.43
11:S9:126:ARG:HG3	32:E0:33:ARG:HD3	2.87	0.43
11:S9:89:ASP:OD1	11:S9:89:ASP:N	2.50	0.43
11:S9:97:LEU:HA	11:S9:97:LEU:HD23	2.09	0.43
34:SR:38:ARG:HG2	34:SR:67:ILE:HG21	2.28	0.43
36:1:1161:G:C2	36:1:1162:U:C6	3.07	0.43
36:1:1605:A:O2'	36:1:1607:U:OP2	2.29	0.43
36:1:1875:G:H2'	36:1:1876:U:O4'	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2252:A:C2	36:1:2265:C:C2	3.06	0.43
36:1:2631:U:C4	36:1:2648:G:N1	2.86	0.43
36:1:2657:A:H2	36:1:2694:A:C8	2.37	0.43
36:1:2922:G:N1	36:1:2923:U:O2	2.50	0.43
36:1:3025:C:O5'	36:1:3025:C:H6	2.01	0.43
36:1:3122:A:O2'	46:L9:63:LYS:HD2	2.18	0.43
36:1:332:C:C4	36:1:333:G:N7	2.87	0.43
36:1:3331:U:H2'	36:1:3332:U:C6	2.53	0.43
36:1:3159:C:H4'	36:1:3395:G:C5	2.54	0.43
92:1:3507:OHX:N3	92:1:3691:OHX:N4	2.66	0.43
36:1:760:G:N3	36:1:770:G:C2	2.86	0.43
36:1:813:G:H2'	36:1:814:U:C6	2.52	0.43
1:2:1069:A:C5	1:2:1070:A:C6	3.06	0.43
1:2:1099:A:C2	1:2:1114:A:C4	3.06	0.43
1:2:1133:G:N2	1:2:1751:G:H2'	2.34	0.43
1:2:1134:A:H2'	1:2:1135:A:C8	2.53	0.43
1:2:1181:G:N1	1:2:1183:G:C6	2.87	0.43
1:2:1643:A:H2'	1:2:1644:U:C6	2.54	0.43
1:2:1640:U:O4	92:2:1966:OHX:N2	2.51	0.43
1:2:129:U:C2	1:2:264:G:C6	3.07	0.43
1:2:703:G:N3	1:2:703:G:H2'	2.33	0.43
1:2:690:A:H61	1:2:713:G:H22	1.64	0.43
1:2:88:U:H4'	1:2:171:A:O4'	2.19	0.43
1:2:629:U:C2	1:2:954:A:C6	3.07	0.43
85:5:1202:A:C2	85:5:1203:A:N7	2.87	0.43
85:5:1461:A:C2	85:5:1462:A:C4	3.07	0.43
85:5:148:G:HO2'	85:5:149:U:P	2.41	0.43
85:5:1578:C:C2'	85:5:1579:C:H5'	2.49	0.43
85:5:1938:U:O2	85:5:2115:G:H5'	2.19	0.43
85:5:2417:U:C4	85:5:2606:G:C6	3.06	0.43
85:5:249:U:O2'	85:5:250:U:H5''	2.19	0.43
85:5:2908:G:N7	92:5:3407:OHX:N2	2.67	0.43
85:5:2997:G:H1'	85:5:3396:U:H5'	2.00	0.43
85:5:3276:G:P	85:5:3276:G:H2'	2.58	0.43
85:5:2578:U:OP2	92:5:3627:OHX:N4	2.51	0.43
85:5:374:A:HO2'	85:5:376:G:H8	1.66	0.43
85:5:550:A:C6	85:5:551:A:C6	3.05	0.43
85:5:67:A:C2'	85:5:68:C:OP1	2.66	0.43
85:5:822:G:C6	85:5:823:C:C4	3.06	0.43
85:5:842:G:H2'	85:5:843:A:C8	2.53	0.43
80:6:1057:U:H6	80:6:1057:U:OP2	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1229:G:O2'	80:6:1255:G:N2	2.28	0.43
14:C2:47:GLU:HG2	80:6:1229:G:O6	460.46	0.43
80:6:140:A:N3	80:6:140:A:H5''	2.34	0.43
80:6:1700:C:O2'	80:6:1701:A:OP1	2.31	0.43
80:6:333:A:N6	80:6:334:G:O6	2.52	0.43
80:6:411:C:H2'	80:6:412:A:O4'	2.19	0.43
80:6:486:G:H4'	80:6:486:G:OP1	2.18	0.43
80:6:525:A:C6	80:6:526:A:C6	3.07	0.43
80:6:545:A:C6	80:6:594:A:C8	3.07	0.43
80:6:20:G:H5'	80:6:571:G:C5	2.54	0.43
80:6:711:U:C2	80:6:728:U:C2	3.07	0.43
80:6:868:G:C6	80:6:869:A:N7	2.87	0.43
80:6:86:A:C2	80:6:87:C:C4	3.07	0.43
80:6:919:A:H2'	80:6:920:U:C6	2.54	0.43
12:C0:59:PHE:CE1	12:C0:62:GLN:HA	2.54	0.43
17:C5:94:VAL:HG11	17:C5:116:LEU:HD13	2.00	0.43
17:C5:60:LEU:HD21	17:C5:92:SER:CB	2.46	0.43
18:C6:47:LYS:HD2	18:C6:47:LYS:HA	2.20	0.43
18:C6:99:GLU:O	18:C6:102:LYS:N	2.68	0.43
1:2:1516:C:H5'	20:C8:27:LYS:HD2	2.00	0.43
21:C9:66:TYR:CE2	21:C9:129:GLN:HG3	5.59	0.43
21:C9:73:VAL:HG21	21:C9:102:ARG:HG3	2.17	0.43
26:D4:86:GLU:HB2	26:D4:91:LEU:HD21	2.56	0.43
28:D6:85:ARG:H	80:6:1797:A:H61	340.44	0.43
15:C3:15:ALA:H	29:D7:20:LYS:NZ	2.16	0.43
39:L2:155:LYS:H	39:L2:155:LYS:HG2	3.69	0.43
36:1:2154:U:OP1	39:L2:242:ARG:HD3	2.19	0.43
40:L3:41:VAL:HG12	40:L3:185:GLY:C	2.68	0.43
41:L4:74:ILE:HG21	41:L4:93:MET:CE	2.48	0.43
41:L4:74:ILE:HG21	41:L4:93:MET:HE3	2.00	0.43
41:L4:8:VAL:CG1	41:L4:9:HIS:N	2.80	0.43
42:L5:271:LYS:HA	42:L5:271:LYS:HD3	4.49	0.43
43:L6:131:LYS:HD3	43:L6:131:LYS:HA	4.29	0.43
45:L8:153:ILE:O	45:L8:180:VAL:N	2.46	0.43
49:M3:156:ALA:HA	64:N8:99:ALA:O	2.19	0.43
51:M5:29:GLU:O	51:M5:30:TYR:C	2.55	0.43
52:M6:55:HIS:O	52:M6:56:ASP:C	2.57	0.43
53:M7:108:ASP:C	53:M7:110:THR:H	2.22	0.43
53:M7:47:TYR:O	53:M7:48:LEU:C	2.81	0.43
53:M7:85:ALA:C	53:M7:87:SER:N	3.03	0.43
55:M9:19:LYS:HG3	85:5:1875:G:OP1	129.56	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:76:LEU:O	58:N2:78:TYR:N	2.52	0.43
59:N3:137:VAL:O	59:N3:137:VAL:HG12	2.64	0.43
59:N3:22:ILE:HG12	59:N3:35:TYR:HD1	2.61	0.43
61:N5:132:ALA:O	61:N5:135:ILE:HG22	2.25	0.43
61:N5:56:ARG:H	61:N5:56:ARG:HG2	3.06	0.43
62:N6:60:ARG:HH22	85:5:190:U:C2'	82.70	0.43
64:N8:111:LYS:HA	64:N8:129:PHE:O	2.45	0.43
64:N8:132:LYS:O	64:N8:136:GLU:HG3	2.65	0.43
71:O5:17:LEU:O	71:O5:18:ALA:C	2.65	0.43
79:Q3:55:TRP:CD1	79:Q3:55:TRP:N	2.96	0.43
2:S0:182:LEU:HB3	2:S0:188:LEU:HG	3.65	0.43
3:S1:131:ASP:OD2	3:S1:180:THR:HG21	2.18	0.43
3:S1:135:LEU:HA	3:S1:135:LEU:HD23	4.34	0.43
4:S2:165:VAL:HA	4:S2:202:GLY:HA3	2.71	0.43
4:S2:230:TRP:HE1	24:D2:68:ARG:HB2	3.67	0.43
9:S7:71:HIS:CD2	9:S7:131:PHE:CZ	3.07	0.43
10:S8:136:SER:O	10:S8:140:GLU:HG2	4.98	0.43
36:1:1060:U:H2'	36:1:1061:A:H8	1.84	0.43
36:1:1103:A:N1	54:M8:9:GLN:NE2	2.46	0.43
36:1:1346:G:N2	36:1:1359:C:O2	2.51	0.43
36:1:1404:G:OP2	68:O2:11:LYS:NZ	2.47	0.43
36:1:1576:G:O6	36:1:1577:G:N1	2.52	0.43
36:1:1646:G:HO2'	36:1:1647:A:P	2.36	0.43
36:1:175:C:H2'	36:1:176:G:O4'	2.19	0.43
36:1:1619:A:C2	36:1:1826:C:N3	2.86	0.43
36:1:2303:A:C6	36:1:2304:C:C4	3.07	0.43
36:1:2303:A:N6	36:1:2304:C:N4	2.66	0.43
36:1:2845:A:C2	36:1:2846:U:C2	3.07	0.43
36:1:3162:C:C2	36:1:3289:G:N2	2.87	0.43
36:1:3322:A:H2'	36:1:3323:A:H8	1.83	0.43
36:1:172:G:N7	92:1:3526:OHX:N2	2.66	0.43
92:1:3600:OHX:N3	92:1:3648:OHX:N4	2.66	0.43
36:1:772:U:H2'	36:1:773:G:H8	1.83	0.43
36:1:908:G:H4'	36:1:909:G:O5'	2.19	0.43
1:2:1157:C:C4	1:2:1158:U:C4	3.07	0.43
1:2:1164:U:C2	1:2:1165:U:C6	3.06	0.43
1:2:1560:A:C6	1:2:1561:U:N3	2.86	0.43
1:2:432:G:N1	1:2:433:C:C2	2.87	0.43
1:2:472:U:H2'	1:2:473:A:H8	1.82	0.43
1:2:540:G:H4'	1:2:541:A:H3'	2.01	0.43
1:2:579:A:O3'	92:2:2023:OHX:N4	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:901:U:H5'	16:C4:29:HIS:NE2	2.33	0.43
37:3:91:G:C2	37:3:92:A:C4	3.06	0.43
38:4:11:C:C4	38:4:12:A:N7	2.86	0.43
68:O2:101:SER:HB3	85:5:1389:G:H5''	128.32	0.43
85:5:1549:U:H2'	85:5:1550:C:C6	2.53	0.43
70:O4:72:VAL:HG11	85:5:1639:C:H5''	192.46	0.43
85:5:1678:G:C2	85:5:1679:A:C4	3.07	0.43
85:5:1694:U:C2	85:5:1695:U:C5	3.06	0.43
85:5:2696:A:H2'	85:5:2697:A:C8	2.54	0.43
85:5:284:A:H4'	85:5:285:A:C2	2.54	0.43
85:5:3191:G:H2'	85:5:3192:U:C6	2.54	0.43
85:5:3245:A:C2	85:5:3246:G:C2	3.07	0.43
13:C1:34:TRP:CZ3	80:6:249:U:H5	300.47	0.43
80:6:398:G:O5'	80:6:398:G:H8	2.02	0.43
80:6:749:U:H2'	80:6:750:U:H6	1.83	0.43
80:6:990:C:H2'	80:6:991:G:O4'	2.19	0.43
42:L5:265:TYR:HE1	37:7:121:U:H5''	316.77	0.43
37:7:62:U:C4	37:7:63:A:C6	3.07	0.43
38:8:78:G:O3'	38:8:79:A:H4'	2.18	0.43
13:C1:55:ASP:OD1	13:C1:110:HIS:NE2	2.51	0.43
15:C3:135:LEU:HA	15:C3:135:LEU:HD23	1.87	0.43
24:D2:116:ALA:HB1	24:D2:121:VAL:O	2.85	0.43
24:D2:42:GLN:NE2	24:D2:49:GLU:HA	2.72	0.43
25:D3:132:LEU:HD23	25:D3:132:LEU:HA	3.27	0.43
25:D3:92:CYS:C	25:D3:94:ASN:N	2.72	0.43
1:2:533:U:H4'	26:D4:33:ALA:HB2	1.99	0.43
26:D4:74:LEU:HD11	26:D4:90:ARG:HH12	1.84	0.43
27:D5:43:ASP:O	27:D5:45:GLU:N	2.53	0.43
27:D5:44:GLN:HE22	27:D5:47:TYR:HD1	1.65	0.43
30:D8:10:ALA:HA	30:D8:32:PHE:HA	2.01	0.43
25:D3:60:GLU:OE2	32:E0:3:LYS:HB2	2.19	0.43
36:1:3315:G:H2'	40:L3:123:TYR:CD1	2.53	0.43
40:L3:68:HIS:NE2	40:L3:69:LYS:HG3	3.73	0.43
41:L4:219:LEU:HD23	41:L4:219:LEU:HA	1.63	0.43
41:L4:299:ILE:HG23	41:L4:299:ILE:HD12	1.78	0.43
36:1:1347:U:H4'	41:L4:305:ALA:HB2	2.00	0.43
42:L5:222:LEU:HG	42:L5:222:LEU:H	1.55	0.43
42:L5:51:LEU:HB3	42:L5:146:LEU:HA	2.01	0.43
41:L4:351:PRO:HA	44:L7:71:ALA:HA	2.65	0.43
45:L8:243:GLN:O	45:L8:247:ASP:N	2.40	0.43
47:M0:156:ARG:HD3	47:M0:163:GLN:HG2	3.62	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:16:PRO:HA	47:M0:95:HIS:CD2	4.46	0.43
48:M1:11:ASP:O	48:M1:12:LEU:HB3	3.84	0.43
48:M1:15:GLU:N	48:M1:130:VAL:O	2.43	0.43
48:M1:139:THR:O	48:M1:140:ARG:HB2	2.19	0.43
48:M1:7:ASN:HD22	48:M1:7:ASN:N	2.17	0.43
49:M3:104:ARG:HB2	49:M3:104:ARG:HE	3.38	0.43
50:M4:44:VAL:HG23	50:M4:46:ILE:HG23	3.24	0.43
50:M4:50:LYS:HG2	50:M4:85:TRP:CD1	2.53	0.43
51:M5:199:LEU:HD12	51:M5:203:ARG:NH2	2.34	0.43
51:M5:66:VAL:HG23	51:M5:66:VAL:O	2.19	0.43
53:M7:112:LEU:HD12	53:M7:151:THR:C	2.39	0.43
54:M8:7:SER:O	54:M8:8:LYS:C	3.23	0.43
55:M9:92:GLN:O	55:M9:96:ILE:HG13	2.17	0.43
58:N2:75:TYR:CD1	58:N2:79:LEU:HD11	2.54	0.43
59:N3:54:LEU:HD11	59:N3:79:VAL:O	3.04	0.43
60:N4:62:GLY:O	60:N4:63:ILE:HD12	6.46	0.43
61:N5:39:LYS:HG2	61:N5:39:LYS:HZ2	1.67	0.43
61:N5:58:ASP:O	61:N5:62:VAL:HG23	2.37	0.43
61:N5:67:ILE:HD13	61:N5:115:ARG:NH2	2.34	0.43
62:N6:82:VAL:HG12	62:N6:85:VAL:H	2.44	0.43
63:N7:108:GLU:O	63:N7:112:LYS:HG3	2.18	0.43
54:M8:176:ARG:O	64:N8:51:GLY:HA2	3.25	0.43
65:N9:9:ALA:O	65:N9:12:GLN:HG2	2.19	0.43
67:O1:15:ASN:H	67:O1:19:ARG:HH12	1.65	0.43
68:O2:111:ARG:HG3	68:O2:111:ARG:O	2.18	0.43
69:O3:6:ARG:CG	69:O3:8:TYR:H	2.73	0.43
71:O5:102:GLU:OE1	71:O5:106:LYS:HE3	2.18	0.43
72:O6:58:ILE:HG22	72:O6:90:MET:CG	2.75	0.43
73:O7:28:HIS:O	73:O7:32:LYS:N	2.50	0.43
73:O7:56:ARG:O	92:5:3706:OHX:N6	100.99	0.43
74:O8:24:THR:HB	74:O8:76:ASN:HB3	2.64	0.43
74:O8:4:GLU:HG2	74:O8:5:ILE:N	2.33	0.43
78:Q2:26:THR:OG1	78:Q2:71:ARG:HD2	3.24	0.43
36:1:2796:G:O6	78:Q2:63:LYS:HD3	2.18	0.43
2:S0:123:VAL:O	2:S0:145:ALA:HA	2.63	0.43
2:S0:199:PRO:C	2:S0:201:LEU:N	3.30	0.43
2:S0:69:ASN:HB3	2:S0:71:GLU:CD	2.39	0.43
3:S1:183:GLN:HA	3:S1:186:SER:HB2	2.01	0.43
3:S1:223:PHE:O	3:S1:224:ASP:HB3	2.64	0.43
4:S2:111:VAL:CG2	4:S2:191:ALA:HA	2.49	0.43
7:S5:156:ARG:HG3	7:S5:156:ARG:H	1.47	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:48:TYR:OH	8:S6:119:GLN:O	2.30	0.43
34:SR:90:ARG:HH21	34:SR:102:ARG:HE	1.99	0.43
5:S3:220:PRO:HB3	34:SR:223:TRP:CZ3	3.18	0.43
36:1:1039:U:H2'	36:1:1040:A:C8	2.53	0.43
36:1:1094:U:H1'	36:1:1096:U:H2'	2.01	0.43
36:1:1949:G:N2	36:1:2098:C:H1'	2.33	0.43
36:1:2107:A:C2	36:1:2108:C:C2	3.07	0.43
36:1:2244:A:C4	36:1:2245:C:C5	3.06	0.43
36:1:2321:A:H2'	36:1:2322:C:O4'	2.17	0.43
36:1:648:C:O2	36:1:2397:A:C8	2.72	0.43
36:1:2794:G:HO2'	36:1:2795:U:P	2.32	0.43
36:1:2405:C:O2	36:1:2819:A:N1	2.52	0.43
36:1:2841:G:OP2	92:1:3677:OHX:N2	2.52	0.43
36:1:3014:U:O2'	36:1:3015:G:H5'	2.19	0.43
36:1:3218:A:OP1	36:1:3218:A:H3'	2.19	0.43
36:1:507:U:O4	92:1:3536:OHX:N5	2.52	0.43
1:2:1181:G:C6	1:2:1183:G:C2	3.07	0.43
1:2:1236:U:O2'	33:E1:143:LYS:HA	2.18	0.43
1:2:1337:G:C2	1:2:1355:U:C4	3.07	0.43
1:2:1553:A:H2'	1:2:1554:C:O4'	2.18	0.43
1:2:1590:G:H2'	1:2:1591:U:H6	1.83	0.43
1:2:102:U:C4	1:2:360:A:C2	3.07	0.43
1:2:624:G:C2	1:2:625:C:C2	3.07	0.43
1:2:833:A:C2	1:2:834:U:C2	3.06	0.43
37:3:109:G:C6	37:3:110:G:N7	2.86	0.43
38:4:10:A:C5	38:4:11:C:C4	3.07	0.43
38:4:140:G:O3'	51:M5:109:ARG:NH1	2.51	0.43
38:4:149:A:N3	45:L8:55:TYR:OH	2.39	0.43
85:5:1195:A:C4	85:5:1309:U:O2	2.71	0.43
85:5:1282:G:H2'	85:5:1283:C:O4'	2.19	0.43
85:5:189:G:C6	85:5:191:U:O4	2.72	0.43
85:5:2208:A:N7	85:5:2209:U:C5	2.87	0.43
85:5:2249:G:C8	85:5:2272:G:C8	3.06	0.43
85:5:230:U:H2'	85:5:231:G:O4'	2.19	0.43
85:5:244:G:C4	85:5:245:U:C5	3.07	0.43
85:5:2770:G:N2	85:5:2789:U:C2	2.87	0.43
85:5:2827:U:O2	85:5:2827:U:H2'	2.19	0.43
85:5:3076:C:O5'	85:5:3076:C:H6	2.01	0.43
85:5:3094:A:H2'	85:5:3095:U:C6	2.53	0.43
40:L3:380:MET:HB3	85:5:3369:G:N1	226.14	0.43
85:5:650:C:C2'	85:5:651:G:H5'	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:735:A:C6	85:5:736:A:C5	3.07	0.43
85:5:772:U:H2'	85:5:773:G:C8	2.54	0.43
80:6:1218:G:H1'	80:6:1265:G:N2	2.33	0.43
80:6:1273:G:C6	80:6:1430:U:C2	3.07	0.43
80:6:1484:G:H2'	80:6:1485:C:H6	1.83	0.43
80:6:1695:G:N2	80:6:1705:C:H41	2.17	0.43
80:6:15:U:H2'	80:6:16:G:O4'	2.18	0.43
80:6:1742:U:C2	80:6:1743:U:C6	3.06	0.43
25:D3:5:LYS:NZ	80:6:611:U:OP2	347.64	0.43
3:S1:65:VAL:HG23	80:6:920:U:H5''	264.04	0.43
80:6:921:U:C2	80:6:922:G:C8	3.07	0.43
38:8:63:G:H1	38:8:97:A:H61	1.66	0.43
14:C2:24:UNK:O	14:C2:25:GLU:HG2	2.19	0.43
14:C2:86:VAL:N	14:C2:87:PRO:HD3	2.47	0.43
18:C6:12:LYS:HD2	18:C6:17:THR:HG22	2.01	0.43
20:C8:90:ASN:O	20:C8:95:GLY:HA2	2.18	0.43
21:C9:125:SER:O	21:C9:129:GLN:N	2.81	0.43
1:2:1525:G:H5''	21:C9:87:GLY:C	2.39	0.43
22:D0:28:SER:OG	22:D0:29:THR:N	2.51	0.43
24:D2:104:LEU:HB2	24:D2:124:LYS:O	2.18	0.43
9:S7:140:VAL:HB	24:D2:52:TYR:HB3	2.26	0.43
24:D2:88:LYS:HB3	24:D2:88:LYS:HE2	3.66	0.43
25:D3:27:ASN:O	25:D3:29:TYR:N	2.83	0.43
26:D4:89:TYR:O	26:D4:93:ARG:HG3	2.18	0.43
7:S5:163:SER:CB	30:D8:48:VAL:HG22	2.45	0.43
32:E0:42:ARG:HB3	32:E0:42:ARG:HH11	1.83	0.43
1:2:1218:C:C2	33:E1:138:ARG:CZ	3.01	0.43
39:L2:94:ALA:HB3	39:L2:102:LEU:HG	2.35	0.43
39:L2:96:LEU:O	79:Q3:87:ARG:NH1	2.49	0.43
40:L3:260:VAL:HG21	40:L3:266:ARG:NH1	2.34	0.43
42:L5:146:LEU:HD13	42:L5:148:ILE:HD13	5.24	0.43
44:L7:29:GLU:HA	44:L7:32:ALA:HB3	2.01	0.43
46:L9:65:VAL:CG1	46:L9:66:ALA:N	2.82	0.43
47:M0:69:ARG:O	47:M0:72:ALA:N	3.05	0.43
47:M0:87:LEU:HA	47:M0:87:LEU:HD23	2.15	0.43
49:M3:57:VAL:HG13	49:M3:147:ILE:HD13	2.01	0.43
36:1:1112:A:P	49:M3:5:LYS:HE3	2.59	0.43
51:M5:47:LYS:HA	51:M5:50:ARG:NH2	2.33	0.43
53:M7:178:ALA:HA	53:M7:181:ARG:HB3	2.01	0.43
54:M8:67:ILE:CG2	54:M8:81:VAL:HG11	3.38	0.43
55:M9:156:ASN:OD1	55:M9:156:ASN:N	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M9:77:GLY:O	55:M9:79:GLY:N	2.51	0.43
57:N1:47:SER:O	57:N1:48:ILE:HD13	2.18	0.43
62:N6:102:SER:OG	62:N6:103:LYS:HE3	4.45	0.43
38:4:91:C:H4'	62:N6:24:SER:HB3	2.01	0.43
65:N9:17:HIS:O	65:N9:18:ARG:C	2.56	0.43
65:N9:38:LYS:NZ	85:5:1077:U:OP1	217.70	0.43
66:O0:10:ILE:HD12	66:O0:10:ILE:HA	2.12	0.43
66:O0:13:LYS:HB3	66:O0:100:ILE:HG23	2.00	0.43
69:O3:30:ILE:HD12	69:O3:30:ILE:HG23	1.92	0.43
70:O4:44:CYS:HG	70:O4:47:CYS:HG	1.62	0.43
71:O5:100:VAL:HG22	71:O5:101:THR:H	4.02	0.43
75:O9:37:TYR:HE1	75:O9:39:ALA:HA	3.14	0.43
2:S0:202:TYR:CD2	2:S0:202:TYR:N	2.86	0.43
3:S1:129:THR:HG22	3:S1:176:VAL:HG12	2.01	0.43
3:S1:23:PRO:O	3:S1:26:ARG:HB3	3.00	0.43
4:S2:222:TYR:CE2	23:D1:12:TYR:HD2	2.37	0.43
7:S5:162:VAL:CG2	7:S5:167:ARG:HG2	3.59	0.43
7:S5:59:VAL:HG12	7:S5:60:ASP:H	2.09	0.43
7:S5:65:ARG:HA	7:S5:66:GLN:HA	1.77	0.43
7:S5:89:ILE:H	7:S5:89:ILE:HG13	1.30	0.43
8:S6:148:SER:O	8:S6:151:ASP:HB2	2.80	0.43
8:S6:159:ARG:HG2	8:S6:172:ALA:HB2	3.27	0.43
9:S7:152:VAL:O	9:S7:183:PHE:HA	2.19	0.43
9:S7:46:ILE:HD11	9:S7:60:ILE:HG23	3.33	0.43
10:S8:165:LEU:HD13	10:S8:183:ILE:HD13	2.77	0.43
10:S8:40:ALA:O	10:S8:41:LYS:C	2.85	0.43
11:S9:109:LEU:HD13	11:S9:129:ILE:HD13	2.30	0.43
11:S9:29:LYS:O	11:S9:33:GLU:HG2	5.06	0.43
34:SR:89:LEU:HB2	34:SR:103:PHE:CD2	2.97	0.43
34:SR:122:ILE:O	34:SR:134:TRP:N	2.39	0.43
36:1:999:G:N2	36:1:1003:A:N6	2.67	0.43
36:1:1192:C:C4	92:1:3583:OHX:N1	2.85	0.43
36:1:1324:U:C4	36:1:1325:U:C5	3.07	0.43
36:1:1534:A:C8	36:1:1586:G:N2	2.87	0.43
36:1:1748:G:C6	36:1:1749:A:C6	3.07	0.43
36:1:2093:A:H2'	36:1:2094:C:O4'	2.19	0.43
36:1:217:U:C2'	36:1:218:G:OP1	2.67	0.43
36:1:2218:G:C4	36:1:2219:A:C8	3.07	0.43
36:1:2913:C:H2'	36:1:2914:G:C8	2.54	0.43
36:1:3006:A:H2'	36:1:3007:U:O4'	2.19	0.43
36:1:3048:A:C8	36:1:3090:U:O4	2.71	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3132:C:H2'	36:1:3133:C:H6	1.81	0.43
36:1:3185:U:OP1	46:L9:23:ARG:NH1	2.52	0.43
36:1:3326:G:N3	36:1:3327:G:C8	2.87	0.43
36:1:650:C:H2'	36:1:651:G:C8	2.53	0.43
1:2:1027:U:O2'	1:2:1028:C:H5'	2.19	0.43
1:2:1421:G:C6	1:2:1422:C:N3	2.87	0.43
1:2:1730:G:H2'	1:2:1731:G:C8	2.53	0.43
1:2:312:A:H4'	1:2:313:U:H5''	2.00	0.43
1:2:310:C:C4	1:2:357:G:C2	3.07	0.43
1:2:386:G:N2	1:2:387:A:C2	2.87	0.43
1:2:885:G:H1	16:C4:51:ASP:CG	2.21	0.43
38:4:139:U:O4	92:4:209:OHX:N4	2.52	0.43
41:L4:193:LYS:NZ	85:5:1420:C:OP2	112.00	0.43
85:5:1536:G:N2	85:5:1537:A:H1'	2.33	0.43
85:5:155:G:C2	85:5:266:A:C6	3.06	0.43
85:5:15:C:H6	85:5:15:C:H5'	1.83	0.43
85:5:1621:A:H2'	85:5:1622:U:H6	1.83	0.43
85:5:1688:U:C4	85:5:1689:U:O4	2.72	0.43
85:5:1690:C:N4	85:5:1691:U:O4	2.51	0.43
85:5:1760:A:N3	85:5:1766:G:C2	2.87	0.43
85:5:185:C:H2'	85:5:186:U:H6	1.83	0.43
85:5:2518:C:H2'	85:5:2519:A:C8	2.48	0.43
85:5:2766:U:H2'	85:5:2767:U:O4'	2.18	0.43
85:5:2865:U:C5	85:5:2866:U:C4	3.07	0.43
85:5:2875:U:C6	85:5:2875:U:H5'	2.48	0.43
85:5:2957:G:C5	85:5:2976:A:C2	3.06	0.43
85:5:511:G:C2	85:5:581:U:O2	2.71	0.43
85:5:611:A:C5	85:5:612:U:C4	3.06	0.43
80:6:48:G:C2	80:6:49:C:C6	3.07	0.43
42:L5:8:LYS:HE2	37:7:15:C:O3'	312.57	0.43
12:C0:10:LYS:NZ	12:C0:36:ASP:HB3	3.41	0.43
14:C2:94:ALA:O	14:C2:118:ALA:HB3	2.18	0.43
15:C3:84:ILE:HD11	15:C3:89:TYR:HD2	2.35	0.43
16:C4:30:VAL:HG22	16:C4:39:ILE:HG13	2.01	0.43
18:C6:102:LYS:HE2	18:C6:102:LYS:HB3	1.89	0.43
18:C6:12:LYS:HE3	18:C6:12:LYS:HB3	1.90	0.43
18:C6:53:LEU:H	18:C6:53:LEU:HG	1.46	0.43
21:C9:28:LEU:HD23	21:C9:111:ILE:HD11	7.96	0.43
22:D0:96:PRO:HB2	22:D0:97:VAL:H	1.91	0.43
28:D6:3:LYS:HZ1	28:D6:6:ALA:HA	1.84	0.43
1:2:1778:U:H4'	28:D6:84:VAL:HG12	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:43:ILE:HD13	29:D7:43:ILE:N	4.20	0.43
30:D8:12:VAL:HG23	30:D8:52:ASP:O	3.53	0.43
32:E0:4:VAL:O	32:E0:4:VAL:HG12	2.19	0.43
39:L2:145:LYS:HA	39:L2:159:SER:HA	2.90	0.43
40:L3:383:LEU:HD23	40:L3:383:LEU:HA	1.73	0.43
40:L3:63:PRO:HG2	40:L3:348:ARG:HH21	1.84	0.43
41:L4:140:HIS:CD2	41:L4:247:PHE:H	2.37	0.43
41:L4:345:GLU:HB3	41:L4:346:LYS:H	4.15	0.43
41:L4:89:ALA:O	41:L4:90:PHE:O	3.97	0.43
42:L5:109:THR:OG1	42:L5:110:LEU:N	2.51	0.43
42:L5:20:PHE:CE2	37:7:10:C:C5	276.54	0.43
42:L5:218:ARG:HA	42:L5:221:GLU:OE2	2.18	0.43
43:L6:76:LEU:HD12	43:L6:138:GLN:HA	2.01	0.43
43:L6:41:ILE:HB	43:L6:85:ILE:HB	2.12	0.43
45:L8:231:LYS:HB2	45:L8:231:LYS:HE3	4.11	0.43
45:L8:41:GLN:OE1	45:L8:44:ARG:NH2	6.47	0.43
46:L9:164:ILE:O	46:L9:164:ILE:HG23	2.21	0.43
46:L9:171:ASP:C	46:L9:173:ARG:N	3.23	0.43
47:M0:50:VAL:HG13	47:M0:166:ILE:O	2.18	0.43
52:M6:77:SER:O	52:M6:80:PHE:HB3	2.18	0.43
54:M8:80:THR:O	54:M8:137:THR:HA	2.83	0.43
55:M9:43:LYS:HG2	55:M9:43:LYS:H	1.70	0.43
56:N0:12:ARG:HG3	56:N0:13:ARG:O	3.74	0.43
56:N0:141:LYS:HE2	85:5:1287:A:OP1	348.41	0.43
56:N0:16:THR:O	56:N0:20:PRO:N	3.29	0.43
56:N0:24:LEU:HD23	56:N0:24:LEU:HA	1.93	0.43
56:N0:80:ARG:HB3	56:N0:122:HIS:HB2	2.01	0.43
56:N0:94:ILE:HD13	56:N0:94:ILE:HG21	1.83	0.43
59:N3:75:PRO:HB2	59:N3:103:ALA:O	2.19	0.43
59:N3:45:ARG:O	59:N3:46:LEU:C	2.57	0.43
60:N4:6:ASP:OD2	60:N4:8:PHE:N	2.51	0.43
62:N6:104:LEU:HD23	62:N6:104:LEU:HA	1.66	0.43
63:N7:14:VAL:HG23	70:O4:89:ILE:HG21	2.81	0.43
64:N8:77:LYS:O	64:N8:78:LEU:HB3	2.19	0.43
66:O0:76:GLU:HG2	66:O0:76:GLU:H	1.44	0.43
69:O3:85:PHE:CE2	69:O3:89:LEU:HG	4.16	0.43
70:O4:7:PHE:CD1	70:O4:20:ILE:HD12	4.89	0.43
70:O4:46:ASP:HB2	70:O4:84:CYS:SG	2.58	0.43
71:O5:90:ARG:O	71:O5:91:ALA:C	2.54	0.43
74:O8:43:PHE:O	74:O8:54:LEU:N	2.43	0.43
36:1:356:C:OP2	92:O9:101:OHX:N1	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:73:GLU:O	78:Q2:74:CYS:C	2.56	0.43
79:Q3:84:ARG:HA	79:Q3:87:ARG:HH12	3.70	0.43
79:Q3:8:VAL:HG22	79:Q3:8:VAL:H	1.65	0.43
3:S1:189:ILE:HG13	3:S1:189:ILE:H	2.36	0.43
4:S2:35:TRP:NE1	4:S2:37:PRO:HB3	2.34	0.43
5:S3:29:LEU:HD21	5:S3:69:LEU:HD11	2.00	0.43
6:S4:131:LEU:HD22	6:S4:137:PRO:HB3	2.01	0.43
7:S5:121:ILE:HG21	7:S5:132:VAL:HG11	2.64	0.43
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.83	0.43
9:S7:110:GLN:HB3	9:S7:110:GLN:HE21	4.08	0.43
11:S9:82:ARG:NH1	11:S9:149:ARG:HD3	7.67	0.43
35:SM:113:ASP:OD1	35:SM:113:ASP:N	2.52	0.43
36:1:1184:A:C2	36:1:1323:G:C6	3.07	0.43
36:1:1266:G:N2	36:1:1276:U:H1'	2.34	0.43
36:1:1661:G:C2	36:1:1789:G:C2	3.06	0.43
36:1:1798:A:H2'	36:1:1799:A:C8	2.53	0.43
36:1:191:U:H2'	36:1:192:C:C6	2.54	0.43
36:1:2435:G:N7	36:1:2593:A:H2'	2.34	0.43
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.51	0.43
36:1:3347:A:C2	36:1:3359:A:N1	2.87	0.43
36:1:807:A:C2	36:1:808:A:N9	2.87	0.43
36:1:90:C:H4'	36:1:282:G:H5''	2.01	0.43
1:2:1024:G:C2	1:2:1025:G:C6	3.07	0.43
1:2:1122:A:H2'	1:2:1123:G:O4'	2.18	0.43
1:2:1131:C:H2'	1:2:1132:G:H8	1.83	0.43
1:2:159:U:O4	26:D4:116:LYS:HE2	2.18	0.43
1:2:38:C:C2'	1:2:39:A:H5'	2.49	0.43
85:5:1313:G:H2'	85:5:1314:C:H6	1.82	0.43
85:5:1330:A:N7	85:5:1332:A:C5	2.87	0.43
85:5:1402:C:N3	85:5:1409:G:N2	2.59	0.43
85:5:1563:C:H2'	85:5:1564:U:O4'	2.19	0.43
72:O6:26:ILE:HG12	85:5:157:A:C8	84.45	0.43
85:5:187:A:C4	85:5:211:A:C2	3.07	0.43
85:5:187:A:N3	85:5:211:A:C5	2.87	0.43
85:5:2226:U:C2	85:5:2227:C:C6	3.07	0.43
85:5:23:A:C4	85:5:24:G:C8	3.07	0.43
85:5:303:G:N2	85:5:2778:G:C4	2.87	0.43
85:5:3322:A:H2'	85:5:3323:A:C8	2.54	0.43
92:5:3692:OHX:N5	92:5:3694:OHX:N2	2.66	0.43
51:M5:84:PRO:HB2	85:5:44:U:OP1	166.16	0.43
85:5:651:G:C6	85:5:652:G:C6	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:87:U:O2	85:5:88:A:C8	2.72	0.43
85:5:950:G:C2	85:5:1370:G:C6	3.07	0.43
49:M3:15:ARG:NH2	85:5:96:G:OP1	153.84	0.43
85:5:978:G:C2'	85:5:979:U:OP2	2.67	0.43
80:6:1064:G:H2'	80:6:1065:A:C8	2.53	0.43
80:6:1067:C:H2'	80:6:1068:C:H6	1.84	0.43
80:6:1088:A:C5	80:6:1089:U:H1'	2.53	0.43
80:6:1175:U:H2'	80:6:1176:G:C8	2.53	0.43
20:C8:30:TYR:CE1	80:6:1539:G:C2	352.23	0.43
80:6:1030:A:C5	80:6:1792:G:C6	3.07	0.43
80:6:795:U:OP2	92:6:1949:OHX:N4	2.52	0.43
80:6:193:U:C2	80:6:195:G:H1'	2.54	0.43
92:6:2016:OHX:N2	92:6:2023:OHX:N4	2.67	0.43
80:6:26:A:O2'	80:6:27:U:OP2	2.32	0.43
80:6:326:G:N2	80:6:343:C:O2	2.52	0.43
80:6:422:G:OP1	92:6:1911:OHX:N3	2.52	0.43
11:S9:131:GLN:NE2	80:6:513:U:O4'	439.26	0.43
80:6:879:G:H2'	80:6:880:C:C6	2.53	0.43
80:6:894:U:H2'	80:6:895:G:C8	2.53	0.43
12:C0:64:TYR:HB3	12:C0:66:TYR:CE2	2.53	0.43
16:C4:128:LYS:HZ3	16:C4:128:LYS:HG2	1.56	0.43
16:C4:76:ILE:HG23	16:C4:78:ALA:O	2.19	0.43
18:C6:10:PHE:O	18:C6:84:ALA:HA	2.19	0.43
17:C5:119:PHE:HE1	20:C8:119:ILE:HG23	1.83	0.43
20:C8:143:ARG:O	20:C8:144:ARG:HB2	4.58	0.43
21:C9:112:GLY:O	21:C9:125:SER:OG	4.00	0.43
29:D7:37:CYS:O	29:D7:39:GLY:N	2.52	0.43
29:D7:51:GLN:HG3	29:D7:51:GLN:H	2.98	0.43
25:D3:57:LEU:HD13	32:E0:4:VAL:HG22	5.91	0.43
1:2:1218:C:H2'	33:E1:138:ARG:NH2	2.34	0.43
33:E1:98:VAL:HG12	33:E1:99:LYS:H	3.04	0.43
39:L2:187:HIS:CD2	85:5:1794:G:C6	199.30	0.43
39:L2:201:GLY:HA2	39:L2:204:MET:SD	3.16	0.43
39:L2:238:ILE:HG22	39:L2:239:ALA:H	2.79	0.43
39:L2:82:VAL:CG1	39:L2:83:HIS:N	2.82	0.43
41:L4:141:ARG:HA	41:L4:141:ARG:HD3	3.02	0.43
41:L4:141:ARG:C	41:L4:143:GLU:H	3.09	0.43
42:L5:164:LYS:HG2	42:L5:180:PHE:CE2	2.53	0.43
42:L5:187:THR:C	42:L5:189:GLU:H	3.05	0.43
44:L7:144:ILE:H	44:L7:144:ILE:HG13	1.57	0.43
44:L7:174:GLY:C	44:L7:176:TYR:N	2.76	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:140:VAL:HG22	45:L8:166:LEU:HD21	2.00	0.43
47:M0:10:ARG:HG2	47:M0:11:TYR:CE1	2.53	0.43
47:M0:34:TYR:CD2	47:M0:92:HIS:CE1	3.07	0.43
48:M1:22:SER:HA	48:M1:66:ALA:CB	3.29	0.43
51:M5:65:ARG:HG2	51:M5:127:TYR:CG	2.54	0.43
52:M6:98:ALA:HA	52:M6:101:ARG:HH11	2.64	0.43
52:M6:43:ILE:HD13	52:M6:43:ILE:HG21	1.79	0.43
53:M7:112:LEU:HD12	53:M7:151:THR:O	2.18	0.43
54:M8:81:VAL:HG22	54:M8:101:VAL:HG22	2.00	0.43
55:M9:175:GLN:HG3	55:M9:179:GLU:OE2	3.52	0.43
55:M9:6:THR:HG23	55:M9:9:ARG:HH21	1.83	0.43
57:N1:85:LEU:HD23	57:N1:85:LEU:HA	1.98	0.43
59:N3:71:LYS:HZ2	59:N3:71:LYS:CB	4.08	0.43
62:N6:105:VAL:O	62:N6:105:VAL:HG13	2.72	0.43
62:N6:39:LEU:HD23	62:N6:39:LEU:HA	1.44	0.43
64:N8:91:LEU:HD13	64:N8:91:LEU:HA	1.64	0.43
65:N9:11:ASN:O	65:N9:11:ASN:ND2	3.02	0.43
69:O3:49:ILE:HA	69:O3:99:ARG:O	2.18	0.43
72:O6:37:THR:HB	72:O6:41:ARG:NH1	3.02	0.43
73:O7:82:SER:OG	73:O7:82:SER:O	3.26	0.43
78:Q2:78:LYS:O	78:Q2:78:LYS:HG2	3.70	0.43
3:S1:131:ASP:HB3	3:S1:180:THR:OG1	2.18	0.43
3:S1:103:MET:H	3:S1:215:VAL:HG13	2.74	0.43
3:S1:47:LEU:N	3:S1:47:LEU:HD12	2.56	0.43
4:S2:140:ARG:HH12	4:S2:229:LEU:HD11	4.34	0.43
5:S3:76:ARG:NH1	5:S3:76:ARG:HB3	3.98	0.43
6:S4:162:ILE:HD12	6:S4:162:ILE:H	4.32	0.43
6:S4:211:LYS:HD3	6:S4:215:ASP:OD2	6.95	0.43
6:S4:71:LYS:O	6:S4:90:ILE:HA	3.27	0.43
8:S6:30:LYS:NZ	8:S6:34:GLN:HG2	5.19	0.43
9:S7:11:GLN:NE2	9:S7:13:PRO:HD2	4.50	0.43
9:S7:126:LEU:HD22	9:S7:173:TYR:HE2	2.45	0.43
34:SR:134:TRP:CD1	34:SR:134:TRP:N	2.87	0.43
34:SR:232:TYR:HD2	34:SR:232:TYR:H	2.37	0.43
36:1:1192:C:C4	92:1:3583:OHX:N5	2.87	0.42
36:1:1321:G:H5''	56:N0:117:ARG:HH22	1.84	0.42
36:1:1322:U:P	56:N0:117:ARG:HH21	2.41	0.42
36:1:1615:C:H2'	36:1:1616:U:H6	1.84	0.42
36:1:1722:U:N3	36:1:1723:A:C8	2.87	0.42
36:1:189:G:N2	36:1:191:U:N3	2.67	0.42
36:1:2640:A:C8	36:1:2641:U:C5	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2717:U:C2	36:1:2740:A:C2	3.07	0.42
36:1:3153:U:H5''	36:1:3154:C:OP1	2.19	0.42
36:1:3167:A:OP2	36:1:3167:A:H8	2.02	0.42
36:1:3321:C:H2'	36:1:3322:A:C8	2.54	0.42
36:1:3393:U:H2'	36:1:3394:U:C6	2.54	0.42
36:1:860:G:P	39:L2:181:LYS:NZ	2.92	0.42
36:1:917:A:C6	36:1:918:C:N3	2.86	0.42
36:1:929:A:H2'	36:1:930:U:H6	1.83	0.42
1:2:1064:A:H5''	1:2:1065:C:OP1	2.19	0.42
1:2:1181:G:O3'	31:D9:40:ARG:NH2	2.52	0.42
1:2:1220:G:H2'	1:2:1221:A:C8	2.54	0.42
1:2:1651:G:C6	1:2:1652:U:C4	3.07	0.42
1:2:240:U:H1'	1:2:241:U:OP1	2.19	0.42
1:2:460:A:H3'	1:2:461:G:C8	2.54	0.42
37:3:26:C:H5'	42:L5:56:THR:HB	2.01	0.42
85:5:1122:U:N3	85:5:1123:U:C5	2.87	0.42
85:5:1490:A:H61	85:5:1839:A:N6	2.13	0.42
85:5:1561:G:H21	85:5:1562:C:H1'	1.84	0.42
85:5:2105:G:H2'	85:5:2106:A:C8	2.53	0.42
85:5:2440:G:N2	85:5:2508:U:O2	2.51	0.42
85:5:2582:C:O2'	85:5:2583:C:H5'	2.19	0.42
85:5:259:C:O2'	85:5:260:C:H5'	2.19	0.42
85:5:272:G:C6	85:5:294:U:O2	2.72	0.42
85:5:2997:G:C6	85:5:2998:U:C5	3.07	0.42
85:5:3088:G:H2'	85:5:3089:C:C6	2.54	0.42
85:5:3242:G:C6	85:5:3245:A:C2	3.07	0.42
85:5:3389:U:H2'	85:5:3389:U:OP2	2.19	0.42
97:5:3403:SPS:H81	97:5:3403:SPS:H71	1.35	0.42
92:5:3692:OHX:N1	92:5:3694:OHX:N4	2.66	0.42
85:5:411:U:H2'	85:5:412:G:C8	2.53	0.42
85:5:420:G:O5'	85:5:420:G:OP2	2.33	0.42
85:5:600:G:O6	92:5:3622:OHX:N4	2.52	0.42
49:M3:14:PHE:HE1	85:5:665:A:H1'	133.39	0.42
85:5:882:A:H5''	85:5:883:A:OP2	2.18	0.42
80:6:1081:A:H1'	80:6:1082:C:C5	2.54	0.42
80:6:1627:U:C4	80:6:1628:U:C4	3.06	0.42
80:6:1726:G:N7	92:6:1998:OHX:N5	2.66	0.42
80:6:176:C:H3'	80:6:177:U:H6	1.84	0.42
80:6:438:A:H1'	80:6:466:U:O2	2.19	0.42
80:6:706:A:C2	80:6:733:A:C5	3.07	0.42
26:D4:12:VAL:HB	80:6:783:G:C8	423.56	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:27:A:H2'	37:7:28:C:C6	2.54	0.42
37:7:80:G:O6	37:7:100:C:C4	2.72	0.42
12:C0:15:LEU:HD11	12:C0:68:LEU:HB2	2.00	0.42
13:C1:8:GLN:HB2	13:C1:8:GLN:HE21	1.43	0.42
14:C2:24:UNK:O	14:C2:26:ASP:N	3.06	0.42
18:C6:98:ASP:O	18:C6:101:SER:OG	2.27	0.42
21:C9:114:VAL:HG21	21:C9:122:ARG:HB3	2.01	0.42
21:C9:10:ALA:HB3	21:C9:13:ASP:HB2	4.54	0.42
22:D0:95:ALA:HB1	22:D0:99:ILE:CG2	2.48	0.42
2:S0:36:TYR:OH	23:D1:66:ASP:OD1	2.81	0.42
24:D2:7:LEU:HD22	24:D2:11:LEU:HG	3.12	0.42
24:D2:53:ILE:HG13	24:D2:54:ASP:N	2.33	0.42
27:D5:46:LYS:O	27:D5:50:ILE:HG13	2.19	0.42
39:L2:122:ASP:C	39:L2:122:ASP:OD2	2.57	0.42
40:L3:114:VAL:HG22	40:L3:163:HIS:CG	2.54	0.42
40:L3:194:TRP:NE1	40:L3:198:HIS:CE1	3.11	0.42
41:L4:271:LYS:O	41:L4:272:VAL:C	2.76	0.42
41:L4:35:VAL:HG12	41:L4:35:VAL:O	2.82	0.42
41:L4:55:LYS:HB2	41:L4:55:LYS:HE2	4.28	0.42
42:L5:254:LYS:HE2	42:L5:255:PRO:O	2.19	0.42
42:L5:263:GLU:O	42:L5:266:ALA:HB3	2.19	0.42
45:L8:166:LEU:O	45:L8:169:LEU:N	3.04	0.42
45:L8:185:ARG:HG3	38:8:154:C:O2'	140.87	0.42
46:L9:10:ILE:O	46:L9:52:LEU:HD23	2.19	0.42
46:L9:90:MET:HG2	46:L9:181:VAL:HG22	2.01	0.42
47:M0:213:PHE:N	47:M0:214:PRO:HD3	2.34	0.42
50:M4:115:PHE:CE2	50:M4:119:GLN:NE2	3.91	0.42
50:M4:120:VAL:HG23	52:M6:197:LEU:HD13	2.01	0.42
51:M5:126:THR:O	51:M5:126:THR:HG22	2.53	0.42
52:M6:26:GLN:NE2	56:N0:163:PHE:HE2	2.91	0.42
54:M8:135:GLN:CD	54:M8:135:GLN:H	2.20	0.42
54:M8:93:ILE:HG21	54:M8:93:ILE:HD13	1.75	0.42
55:M9:23:TRP:CZ3	55:M9:25:ASP:HB3	2.54	0.42
50:M4:65:LEU:HG	56:N0:172:TYR:OH	2.18	0.42
56:N0:71:LYS:O	56:N0:73:LYS:HG2	3.49	0.42
57:N1:100:LYS:HE3	57:N1:100:LYS:HB3	1.90	0.42
57:N1:42:ILE:HD13	57:N1:42:ILE:HG21	1.68	0.42
59:N3:85:TRP:H	59:N3:85:TRP:HE3	1.64	0.42
61:N5:86:VAL:HG12	61:N5:87:SER:N	2.49	0.42
63:N7:14:VAL:HG12	63:N7:79:HIS:O	2.19	0.42
63:N7:60:LYS:O	63:N7:63:ALA:HB3	2.31	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1715:A:N7	66:O0:84:LEU:HD22	2.34	0.42
68:O2:47:ARG:HG2	68:O2:48:GLY:N	2.34	0.42
69:O3:38:PRO:HD3	69:O3:77:ASN:O	2.82	0.42
76:Q0:126:LYS:HA	76:Q0:126:LYS:HD3	1.68	0.42
46:L9:172:ILE:HD12	76:Q0:90:ASN:HB3	3.88	0.42
2:S0:119:ARG:HE	4:S2:240:LEU:HD23	1.84	0.42
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.83	0.42
4:S2:41:LEU:HA	4:S2:41:LEU:HD22	1.72	0.42
6:S4:26:CYS:SG	80:6:461:G:H5''	364.22	0.42
7:S5:118:LEU:HA	7:S5:118:LEU:HD23	1.79	0.42
1:2:78:A:H5''	8:S6:159:ARG:HH12	1.84	0.42
8:S6:24:ILE:C	8:S6:26:VAL:H	2.22	0.42
11:S9:82:ARG:O	11:S9:149:ARG:HB3	5.19	0.42
1:2:462:G:OP1	11:S9:3:ARG:HG2	2.18	0.42
34:SR:90:ARG:NH2	34:SR:102:ARG:HE	2.50	0.42
34:SR:150:TRP:HB2	34:SR:174:ASN:HB2	2.01	0.42
36:1:1397:C:C4	36:1:1398:U:C4	3.07	0.42
36:1:405:U:H5'	36:1:1417:G:OP1	2.19	0.42
36:1:157:A:H2'	36:1:158:G:O4'	2.19	0.42
36:1:1673:G:C6	36:1:1775:G:C5	3.07	0.42
36:1:2124:G:C2	36:1:2125:A:C8	3.08	0.42
36:1:2122:G:C6	36:1:2332:A:C2	3.07	0.42
36:1:1901:A:O3'	36:1:2918:G:H5'	2.19	0.42
36:1:3062:G:H1	36:1:3081:C:N4	2.16	0.42
36:1:3111:U:C4	36:1:3112:G:N7	2.87	0.42
92:1:3487:OHX:N1	92:1:3571:OHX:N3	2.67	0.42
92:1:3525:OHX:N3	92:1:3563:OHX:N4	2.67	0.42
1:2:153:G:C6	1:2:154:G:C6	3.07	0.42
1:2:1797:A:H3'	1:2:1798:A:H5''	2.00	0.42
1:2:432:G:H2'	1:2:433:C:O4'	2.19	0.42
1:2:435:C:OP1	25:D3:49:ALA:HA	2.19	0.42
38:4:19:C:H2'	38:4:20:U:C6	2.54	0.42
38:4:88:A:H2'	38:4:89:A:O4'	2.19	0.42
85:5:1254:C:O2'	85:5:1255:C:H5'	2.19	0.42
85:5:1345:G:N7	92:5:3566:OHX:N5	2.67	0.42
85:5:1446:A:C8	85:5:1448:U:C2	3.06	0.42
85:5:1641:U:O2'	85:5:1642:A:H3'	2.19	0.42
85:5:1659:U:O4	92:5:3700:OHX:N4	2.51	0.42
85:5:1737:U:H2'	85:5:1738:C:H6	1.84	0.42
85:5:1752:A:H2'	85:5:1753:G:H8	1.83	0.42
85:5:2272:G:OP2	85:5:2272:G:N2	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2276:G:C5	85:5:2277:C:C5	3.06	0.42
85:5:2356:A:N6	85:5:2357:A:C6	2.87	0.42
85:5:2370:G:O6	85:5:2371:G:C6	2.72	0.42
85:5:3098:G:H5''	85:5:3099:C:OP1	2.19	0.42
85:5:3105:U:C6	85:5:3128:G:N2	2.88	0.42
85:5:3170:A:C2	85:5:3281:U:C2	3.07	0.42
85:5:3307:A:C6	85:5:3308:C:C4	3.07	0.42
85:5:337:G:C6	85:5:339:C:C4	3.07	0.42
85:5:528:U:C2	85:5:529:A:N7	2.87	0.42
85:5:572:A:C4	85:5:573:C:C6	3.06	0.42
85:5:510:G:C2	85:5:582:G:C4	3.07	0.42
85:5:848:A:C4	85:5:849:C:H1'	2.54	0.42
80:6:1081:A:O2'	80:6:1082:C:O5'	2.28	0.42
80:6:1087:A:H5'	80:6:1298:U:C4	2.54	0.42
80:6:151:G:N2	80:6:163:G:N2	2.67	0.42
80:6:973:A:C2	80:6:974:A:C5	3.06	0.42
38:8:10:A:C8	38:8:11:C:C5	3.07	0.42
85:5:21:G:N7	38:8:37:A:C6	2.87	0.42
38:8:65:A:C2	38:8:96:A:C5	3.08	0.42
14:C2:46:ARG:HA	14:C2:49:THR:OG1	2.66	0.42
15:C3:47:PRO:HG3	15:C3:75:LEU:HD22	2.00	0.42
16:C4:13:VAL:HG11	16:C4:75:GLY:O	2.19	0.42
16:C4:91:THR:O	16:C4:93:THR:N	2.51	0.42
17:C5:33:PHE:HZ	17:C5:112:LEU:HB3	2.15	0.42
17:C5:34:VAL:O	17:C5:42:ARG:HG2	2.19	0.42
17:C5:65:LEU:O	17:C5:67:ALA:N	2.52	0.42
19:C7:66:VAL:HG22	19:C7:69:ILE:HD11	4.71	0.42
20:C8:117:LYS:HB3	20:C8:117:LYS:NZ	5.30	0.42
21:C9:86:ARG:HG3	21:C9:86:ARG:HH11	1.83	0.42
21:C9:94:ILE:HD12	21:C9:94:ILE:HA	1.64	0.42
22:D0:96:PRO:HD2	22:D0:99:ILE:HG13	5.13	0.42
13:C1:101:GLU:CD	25:D3:16:ARG:HH22	2.92	0.42
25:D3:57:LEU:HD11	25:D3:73:ARG:CG	2.49	0.42
26:D4:20:ARG:NH2	26:D4:76:TYR:OH	3.91	0.42
27:D5:96:SER:C	27:D5:98:GLN:H	2.22	0.42
31:D9:19:ARG:H	31:D9:19:ARG:HG2	1.68	0.42
41:L4:264:SER:OG	41:L4:267:VAL:HG12	4.32	0.42
43:L6:5:LYS:HD2	43:L6:5:LYS:HA	1.46	0.42
44:L7:189:ILE:HG23	44:L7:190:THR:CG2	2.68	0.42
44:L7:77:VAL:HG12	56:N0:59:VAL:HA	2.01	0.42
45:L8:238:LEU:HD23	45:L8:242:ALA:CB	2.48	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:20:ILE:HG12	50:M4:7:VAL:HG22	2.00	0.42
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.19	0.42
47:M0:173:PHE:CD1	47:M0:173:PHE:N	2.86	0.42
47:M0:76:MET:O	47:M0:80:SER:OG	2.36	0.42
48:M1:116:TYR:CD1	48:M1:118:PRO:HD3	3.93	0.42
48:M1:81:GLU:C	48:M1:83:GLY:H	2.22	0.42
49:M3:93:ILE:HA	49:M3:93:ILE:HD13	1.70	0.42
50:M4:39:ILE:HD13	50:M4:39:ILE:HG23	2.29	0.42
51:M5:149:ASN:OD1	92:M5:302:OHX:N2	2.52	0.42
36:1:3185:U:C4	52:M6:126:VAL:HG21	2.54	0.42
53:M7:136:ILE:HD11	85:5:1846:C:C4	144.12	0.42
54:M8:40:THR:C	54:M8:42:ALA:H	2.22	0.42
56:N0:17:GLU:O	56:N0:20:PRO:HD3	2.19	0.42
62:N6:28:ARG:HB2	62:N6:75:ARG:NH1	2.34	0.42
64:N8:112:ILE:HD12	64:N8:112:ILE:HG23	1.75	0.42
68:O2:64:LYS:O	68:O2:65:PHE:HB2	2.21	0.42
68:O2:5:PRO:HB2	68:O2:6:HIS:H	3.87	0.42
76:Q0:97:ARG:NH1	76:Q0:122:ARG:HB3	2.33	0.42
79:Q3:77:ALA:O	79:Q3:80:ARG:N	3.21	0.42
3:S1:81:PHE:CE1	3:S1:109:LYS:HE2	2.54	0.42
3:S1:229:MET:HA	3:S1:232:HIS:ND1	2.34	0.42
5:S3:135:GLU:HG3	5:S3:153:ALA:HB2	3.21	0.42
5:S3:175:VAL:O	5:S3:175:VAL:HG13	2.28	0.42
6:S4:191:ARG:CZ	6:S4:245:LYS:HD2	4.03	0.42
6:S4:9:LEU:HD12	6:S4:30:ARG:HA	2.02	0.42
6:S4:61:VAL:O	6:S4:65:LEU:HD12	2.19	0.42
8:S6:153:VAL:O	8:S6:154:ARG:C	2.74	0.42
10:S8:84:HIS:NE2	10:S8:90:LEU:HD13	2.76	0.42
11:S9:131:GLN:C	11:S9:132:ARG:HG2	3.00	0.42
5:S3:124:ARG:NH2	35:SM:124:GLN:HB2	2.34	0.42
34:SR:90:ARG:HG2	34:SR:102:ARG:HG2	2.91	0.42
34:SR:200:ASN:CG	34:SR:215:GLY:HA2	2.71	0.42
36:1:1103:A:N3	36:1:1103:A:H2'	2.34	0.42
36:1:1189:C:N4	52:M6:133:ARG:NH2	2.68	0.42
36:1:1190:A:H2'	36:1:1190:A:N3	2.33	0.42
36:1:1223:A:O5'	36:1:1223:A:H8	2.02	0.42
36:1:1461:A:H2'	36:1:1462:A:H8	1.84	0.42
36:1:162:G:C4	36:1:163:C:C6	3.08	0.42
36:1:1662:G:N2	36:1:1788:C:O2	2.53	0.42
36:1:1809:A:N7	36:1:1810:A:C8	2.88	0.42
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1834:U:H3'	36:1:1835:A:H5'	2.01	0.42
36:1:2284:C:C4	36:1:2308:C:O4'	2.72	0.42
36:1:2291:A:O2'	36:1:2292:U:H5'	2.19	0.42
36:1:233:C:H2'	36:1:234:G:O4'	2.19	0.42
36:1:2707:C:C2	36:1:2708:C:C5	3.07	0.42
36:1:2994:A:H8	36:1:2994:A:O5'	2.02	0.42
36:1:3017:A:C2	36:1:3038:U:C2	3.07	0.42
36:1:2892:A:C6	36:1:3130:A:N6	2.87	0.42
36:1:3134:A:H2'	36:1:3134:A:N3	2.34	0.42
36:1:3343:G:O6	92:1:3694:OHX:N4	2.53	0.42
36:1:3366:G:H2'	36:1:3367:C:C6	2.54	0.42
36:1:595:G:C6	36:1:609:G:H5''	2.54	0.42
36:1:771:A:C6	36:1:772:U:C2	3.08	0.42
1:2:1249:U:H2'	1:2:1250:G:C8	2.54	0.42
1:2:1315:C:O2'	5:S3:162:GLN:HB3	2.19	0.42
1:2:1435:U:H2'	1:2:1436:G:C8	2.54	0.42
1:2:1152:G:N1	1:2:1558:G:OP2	2.34	0.42
1:2:1739[A]:A:H8	1:2:1739[A]:A:OP2	2.02	0.42
1:2:213:A:OP2	92:2:1994:OHX:N1	2.52	0.42
1:2:511:A:N6	1:2:512:A:N6	2.67	0.42
1:2:614:C:C4	1:2:615:A:N7	2.87	0.42
1:2:687:C:OP2	1:2:687:C:H3'	2.20	0.42
1:2:938:A:H5''	15:C3:10:GLY:HA3	2.02	0.42
1:2:851:G:C2	1:2:944:U:C2	3.07	0.42
37:3:112:G:H2'	37:3:113:C:C6	2.54	0.42
37:3:13:A:H8	37:3:13:A:H5'	1.84	0.42
37:3:68:C:OP1	42:L5:14:SER:OG	2.22	0.42
85:5:1019:G:H2'	85:5:1020:G:C8	2.55	0.42
85:5:1049:C:C2	85:5:1050:U:C5	3.08	0.42
85:5:138:U:O2'	85:5:139:G:H5'	2.19	0.42
85:5:1479:U:H2'	85:5:1480:G:H5'	2.01	0.42
85:5:167:U:H3	85:5:255:A:H2	1.66	0.42
85:5:1861:G:N7	85:5:1862:U:C5	2.87	0.42
85:5:1915:A:H2'	85:5:1916:U:C6	2.54	0.42
85:5:1952:G:N1	85:5:1953:G:N7	2.67	0.42
85:5:2147:A:H2'	85:5:2148:U:O4'	2.20	0.42
39:L2:241:ARG:HG2	85:5:2155:G:OP1	220.68	0.42
85:5:2189:U:C4	85:5:2190:U:C5	3.07	0.42
85:5:2288:G:OP1	92:5:3463:OHX:N4	2.53	0.42
85:5:2569:A:H4'	85:5:2570:U:H5'	2.02	0.42
85:5:2865:U:C4	85:5:2866:U:C4	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2875:U:OP2	85:5:2945:G:N1	2.31	0.42
85:5:3071:U:C5	85:5:3072:C:C4	3.07	0.42
85:5:3301:U:O4	92:5:3430:OHX:N4	2.52	0.42
85:5:1861:G:OP2	92:5:3498:OHX:N2	2.52	0.42
85:5:580:C:N4	85:5:581:U:C4	2.87	0.42
85:5:663:C:H2'	85:5:664:U:O4'	2.20	0.42
80:6:971:A:H61	85:5:846:A:N6	2.16	0.42
85:5:994:G:H5'	85:5:2637:A:O2'	2.19	0.42
80:6:1498:G:N2	80:6:1510:U:O2	2.52	0.42
80:6:151:G:C4	80:6:152:U:C5	3.07	0.42
80:6:156:A:H2'	80:6:157:A:O4'	2.20	0.42
80:6:271:A:C2	80:6:285:G:N1	2.88	0.42
80:6:477:A:C5	80:6:538:A:N6	2.87	0.42
80:6:548:G:C6	80:6:549:G:C5	3.07	0.42
80:6:766:U:C4	80:6:769:A:C8	3.07	0.42
80:6:69:G:N2	80:6:82:U:O2	2.53	0.42
37:7:16:U:H3	37:7:63:A:H2	1.66	0.42
13:C1:53:TYR:CE1	13:C1:113:PRO:HG2	2.54	0.42
17:C5:16:SER:HA	17:C5:21:ASP:HA	2.76	0.42
19:C7:41:ILE:HD12	19:C7:47:ARG:HG2	3.16	0.42
20:C8:110:ARG:NH1	20:C8:110:ARG:HB3	2.34	0.42
20:C8:128:PHE:CD2	35:SM:61:ILE:HG13	6.17	0.42
1:2:1515:U:O2'	20:C8:27:LYS:NZ	2.51	0.42
21:C9:131:ASP:O	21:C9:134:ARG:HB3	2.19	0.42
21:C9:37:VAL:HG13	80:6:1503:A:O2'	385.28	0.42
23:D1:37:ALA:HA	23:D1:50:TYR:HA	2.01	0.42
24:D2:79:PHE:O	24:D2:124:LYS:HA	2.79	0.42
24:D2:28:ARG:HA	24:D2:29:PRO:HA	2.00	0.42
24:D2:28:ARG:HD2	24:D2:28:ARG:HH11	1.65	0.42
25:D3:62:LYS:HG3	25:D3:118:PRO:HD3	2.01	0.42
28:D6:19:LYS:HG3	28:D6:20:PRO:HD2	2.01	0.42
16:C4:114:ARG:HG3	28:D6:62:TYR:OH	2.20	0.42
28:D6:82:ARG:HB3	28:D6:83:ILE:H	1.51	0.42
29:D7:36:LYS:HE2	29:D7:43:ILE:HG21	2.01	0.42
39:L2:200:ARG:O	39:L2:201:GLY:C	2.58	0.42
40:L3:142:ALA:O	40:L3:144:ILE:N	3.44	0.42
40:L3:212:ASN:ND2	40:L3:353:GLU:HG2	3.17	0.42
40:L3:306:THR:HG22	40:L3:307:PRO:O	2.99	0.42
40:L3:95:THR:O	40:L3:97:ARG:N	2.51	0.42
41:L4:131:VAL:O	41:L4:135:VAL:HG23	2.75	0.42
41:L4:208:VAL:HA	41:L4:228:ALA:O	2.58	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:237:GLU:O	42:L5:241:THR:HB	3.30	0.42
44:L7:100:ARG:O	44:L7:101:LYS:C	2.56	0.42
44:L7:132:PRO:HA	44:L7:229:PHE:CE1	2.54	0.42
44:L7:149:TYR:HE2	44:L7:181:ILE:CG2	2.75	0.42
45:L8:164:VAL:HG22	45:L8:164:VAL:H	1.63	0.42
45:L8:26:LEU:HD21	63:N7:123:GLN:HG2	2.01	0.42
46:L9:39:LYS:C	46:L9:41:ILE:H	2.22	0.42
47:M0:52:LEU:HB3	47:M0:136:PHE:H	2.40	0.42
47:M0:80:SER:O	47:M0:84:ALA:HB2	2.18	0.42
47:M0:35:ASP:OD1	47:M0:86:HIS:NE2	2.83	0.42
48:M1:122:ILE:HA	48:M1:122:ILE:HD13	1.95	0.42
48:M1:152:HIS:O	48:M1:153:LYS:HB3	4.68	0.42
48:M1:81:GLU:C	48:M1:83:GLY:N	2.72	0.42
49:M3:123:ILE:HG12	49:M3:124:ILE:N	4.18	0.42
49:M3:24:VAL:O	49:M3:26:PHE:N	2.61	0.42
50:M4:116:GLU:O	50:M4:120:VAL:HG23	2.88	0.42
52:M6:33:ILE:HG22	52:M6:34:VAL:N	2.61	0.42
52:M6:75:ALA:O	52:M6:76:PRO:C	2.79	0.42
54:M8:120:GLU:CD	54:M8:130:ARG:HH22	2.33	0.42
1:2:835:C:OP1	55:M9:172:ARG:HB3	2.20	0.42
61:N5:142:ILE:HD13	61:N5:142:ILE:HA	1.78	0.42
61:N5:51:VAL:HG22	61:N5:51:VAL:O	2.70	0.42
63:N7:24:VAL:HG23	63:N7:44:ALA:O	3.11	0.42
64:N8:45:MET:HA	64:N8:45:MET:HE3	3.04	0.42
66:O0:50:VAL:HG11	85:5:2552:C:H2'	233.65	0.42
67:O1:27:LYS:C	67:O1:30:PRO:HD2	2.40	0.42
68:O2:122:PRO:O	68:O2:123:LYS:CB	4.20	0.42
69:O3:38:PRO:HG3	69:O3:76:GLY:O	2.19	0.42
72:O6:26:ILE:H	72:O6:26:ILE:HG13	1.39	0.42
72:O6:37:THR:O	72:O6:38:LYS:C	2.78	0.42
76:Q0:103:LEU:HA	76:Q0:103:LEU:HD23	1.72	0.42
36:1:2898:G:O6	76:Q0:125:LYS:NZ	2.52	0.42
2:S0:146:LEU:HD23	2:S0:146:LEU:N	2.85	0.42
4:S2:133:LYS:O	4:S2:135:SER:N	2.52	0.42
4:S2:164:SER:OG	80:6:14:C:OP1	373.99	0.42
6:S4:46:VAL:O	6:S4:46:VAL:HG12	2.63	0.42
7:S5:152:GLY:O	7:S5:154:ALA:N	2.52	0.42
8:S6:21:GLU:OE1	8:S6:25:ARG:HD3	5.77	0.42
8:S6:75:LEU:HD23	8:S6:75:LEU:N	3.00	0.42
11:S9:102:GLU:O	11:S9:104:PHE:N	3.47	0.42
11:S9:75:ALA:O	11:S9:79:ARG:HG3	2.72	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:124:SER:O	34:SR:131:ILE:HG23	2.76	0.42
34:SR:238:ASP:HB2	34:SR:257:ALA:HB3	2.02	0.42
36:1:104:G:C6	36:1:105:C:C4	3.07	0.42
36:1:1257:C:H42	36:1:1261:G:N2	2.17	0.42
36:1:1467:A:N6	36:1:1470:U:C2	2.87	0.42
36:1:54:C:O2'	36:1:1547:G:H1'	2.18	0.42
36:1:1597:C:H2'	36:1:1598:G:C8	2.54	0.42
36:1:2299:A:C6	36:1:2300:G:C5	3.07	0.42
36:1:2415:C:OP1	39:L2:2:GLY:N	2.53	0.42
36:1:3015:G:N2	36:1:3040:A:H1'	2.34	0.42
36:1:3121:U:C4	36:1:3124:G:O6	2.72	0.42
36:1:3174:A:C5	36:1:3175:U:C4	3.07	0.42
92:1:3507:OHX:N5	92:1:3691:OHX:N2	2.67	0.42
36:1:38:U:H2'	36:1:39:A:O4'	2.20	0.42
36:1:511:G:C6	36:1:512:U:N3	2.87	0.42
36:1:527:A:C6	36:1:528:U:C4	3.08	0.42
1:2:1018:G:C2	1:2:1084:G:C5	3.07	0.42
1:2:1093:G:C2	1:2:1119:U:O2	2.72	0.42
1:2:1518:U:H5	7:S5:186:ASN:CA	2.32	0.42
1:2:1186:A:C2	1:2:1539:A:C4	3.07	0.42
1:2:1757:G:N7	77:Q1:4:LYS:NZ	2.58	0.42
1:2:580:A:N1	1:2:583:C:C2	2.88	0.42
1:2:598:U:H2'	1:2:599:A:C8	2.54	0.42
1:2:635:A:C8	1:2:846:A:C6	3.07	0.42
1:2:896:G:H4'	1:2:897:G:OP2	2.15	0.42
1:2:978:A:H2'	1:2:979:U:O4'	2.19	0.42
37:3:120:C:C4	42:L5:265:TYR:CD2	3.08	0.42
85:5:1097:G:N3	85:5:1097:G:H2'	2.34	0.42
85:5:1217:A:C2	85:5:1289:G:C6	3.08	0.42
85:5:1394:A:H4'	85:5:1420:C:H4'	2.01	0.42
85:5:174:C:H2'	85:5:175:C:C6	2.55	0.42
85:5:1853:U:H3'	85:5:1853:U:H6	1.85	0.42
85:5:2220:A:N6	85:5:2221:G:O6	2.52	0.42
57:N1:17:ARG:HG3	85:5:2700:G:H5''	265.82	0.42
57:N1:54:HIS:NE2	85:5:2724:U:H4'	228.75	0.42
85:5:2884:C:N3	85:5:2939:G:C6	2.87	0.42
85:5:3103:A:N1	85:5:3104:U:C2	2.87	0.42
85:5:395:A:H5''	85:5:396:A:OP2	2.19	0.42
85:5:541:U:O2	85:5:550:A:N1	2.53	0.42
85:5:565:U:H2'	85:5:566:G:O4'	2.19	0.42
85:5:752:C:H2'	85:5:753:C:C6	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:813:G:N2	85:5:814:U:C2	2.87	0.42
80:6:1045:C:H2'	80:6:1046:G:H8	1.84	0.42
80:6:1465:C:C4	80:6:1466:G:C8	3.07	0.42
80:6:1492:A:O2'	80:6:1493:A:C8	2.72	0.42
20:C8:122:HIS:CD2	80:6:1558:U:C4	360.45	0.42
20:C8:122:HIS:CG	80:6:1558:U:C5	362.37	0.42
80:6:1010:C:OP2	92:6:1973:OHX:N4	2.51	0.42
80:6:454:U:H2'	80:6:455:C:C5	2.55	0.42
80:6:496:G:O6	80:6:497:G:N2	2.42	0.42
80:6:482:U:H3	80:6:505:A:H61	1.67	0.42
80:6:730:G:C5	80:6:731:C:C4	3.07	0.42
80:6:800:U:H2'	80:6:801:G:C8	2.50	0.42
80:6:921:U:O4	92:6:2032:OHX:N3	2.52	0.42
71:O5:78:LYS:HB3	38:8:38:U:O2	74.57	0.42
12:C0:30:ALA:O	12:C0:31:LYS:HB2	3.65	0.42
14:C2:94:ALA:HB1	14:C2:119:SER:H	1.84	0.42
15:C3:32:SER:O	15:C3:36:GLN:HG2	2.19	0.42
19:C7:20:TYR:CZ	19:C7:38:ILE:HD11	2.54	0.42
20:C8:109:LEU:HD12	20:C8:109:LEU:HA	2.23	0.42
22:D0:80:GLU:OE1	31:D9:44:ARG:NH1	2.52	0.42
28:D6:45:VAL:O	28:D6:46:GLU:HG2	3.23	0.42
33:E1:91:ILE:HB	80:6:1445:G:N1	386.46	0.42
40:L3:47:LEU:HG	40:L3:335:ILE:HD11	2.14	0.42
42:L5:215:ASP:OD2	42:L5:217:GLU:HB3	2.20	0.42
36:1:597:G:O3'	44:L7:41:ARG:NH2	2.52	0.42
36:1:2526:C:C2	45:L8:48:ARG:NH2	2.87	0.42
49:M3:167:PHE:CD1	64:N8:132:LYS:HB2	2.59	0.42
52:M6:191:ALA:O	52:M6:192:LYS:C	3.01	0.42
52:M6:60:LYS:NZ	85:5:1307:G:C2	249.01	0.42
52:M6:58:LEU:HD12	52:M6:72:HIS:CD2	3.39	0.42
36:1:389:A:O4'	53:M7:101:ASN:ND2	2.53	0.42
53:M7:89:LYS:O	53:M7:90:PHE:C	3.28	0.42
55:M9:106:LEU:O	55:M9:120:TYR:CD1	4.01	0.42
55:M9:25:ASP:HB3	55:M9:28:GLU:HB2	5.27	0.42
57:N1:157:GLU:O	57:N1:159:PHE:CE2	6.21	0.42
57:N1:63:VAL:HG12	57:N1:64:VAL:N	2.51	0.42
57:N1:30:TYR:OH	57:N1:94:GLU:OE2	3.31	0.42
59:N3:11:PHE:CG	59:N3:88:ARG:HD2	2.54	0.42
59:N3:135:VAL:HG21	60:N4:26:SER:OG	3.58	0.42
62:N6:50:ILE:HG23	62:N6:51:ARG:N	2.35	0.42
62:N6:58:VAL:HG22	62:N6:104:LEU:HD21	2.13	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:77:TYR:O	63:N7:79:HIS:N	2.53	0.42
64:N8:118:ILE:HD13	64:N8:118:ILE:HG21	2.27	0.42
64:N8:28:HIS:CE1	64:N8:32:ARG:NH2	2.87	0.42
64:N8:82:ILE:HG21	64:N8:87:ARG:HA	2.02	0.42
63:N7:4:PHE:CE2	66:O0:35:ARG:HA	2.65	0.42
68:O2:112:ALA:O	68:O2:116:GLY:N	3.15	0.42
69:O3:73:ARG:HD3	69:O3:82:ARG:HD2	2.92	0.42
49:M3:123:ILE:HG22	71:O5:118:ILE:HG23	2.77	0.42
71:O5:49:LYS:HD2	71:O5:49:LYS:HA	1.74	0.42
75:O9:27:ILE:HD13	75:O9:27:ILE:HG21	1.73	0.42
78:Q2:10:THR:O	78:Q2:23:HIS:HE1	2.02	0.42
78:Q2:28:TYR:CE1	78:Q2:30:ALA:HA	4.65	0.42
78:Q2:88:CYS:SG	78:Q2:88:CYS:O	2.77	0.42
2:S0:119:ARG:HB3	2:S0:119:ARG:CZ	2.81	0.42
2:S0:22:THR:HG22	2:S0:169:SER:CB	2.50	0.42
3:S1:218:LEU:HA	3:S1:218:LEU:HD23	4.19	0.42
6:S4:159:THR:HG23	6:S4:173:ILE:HD13	2.78	0.42
6:S4:163:ASP:HB3	6:S4:164:LEU:H	3.22	0.42
7:S5:176:THR:O	7:S5:177:ILE:C	2.94	0.42
8:S6:31:ARG:HG2	8:S6:34:GLN:OE1	4.64	0.42
8:S6:55:GLY:N	8:S6:63:MET:HE3	3.52	0.42
9:S7:38:LEU:HA	9:S7:38:LEU:HD23	2.46	0.42
9:S7:50:ASP:O	9:S7:51:VAL:HG23	3.55	0.42
5:S3:222:VAL:HB	34:SR:192:PHE:HA	2.01	0.42
34:SR:44:SER:OG	34:SR:58:VAL:HG13	3.98	0.42
18:C6:94:GLN:OE1	34:SR:60:SER:HB3	4.05	0.42
34:SR:28:GLY:N	34:SR:75:ALA:O	2.39	0.42
36:1:1097:G:H4'	36:1:1098:A:O5'	2.19	0.42
36:1:1108:U:O2'	36:1:1109:U:H5'	2.20	0.42
36:1:1158:A:C5	44:L7:93:ASN:ND2	2.85	0.42
36:1:1192:C:N4	92:1:3583:OHX:N1	2.68	0.42
36:1:1488:G:N3	36:1:1489:A:C8	2.87	0.42
36:1:1488:G:C2	36:1:1489:A:N7	2.87	0.42
36:1:1902:G:H3'	36:1:1903:U:H6	1.85	0.42
36:1:199:A:N3	36:1:201:A:C8	2.88	0.42
36:1:2325:G:C5	36:1:2326:A:N7	2.87	0.42
36:1:2969:A:H2'	36:1:2970:C:H6	1.83	0.42
36:1:3020:U:OP2	36:1:3021:A:O2'	2.27	0.42
36:1:3088:G:H8	36:1:3088:G:O5'	2.02	0.42
36:1:3102:G:H2'	36:1:3103:A:O4'	2.19	0.42
36:1:3103:A:N6	36:1:3104:U:C4	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3255:U:H2'	36:1:3256:G:H8	1.84	0.42
36:1:330:G:OP2	92:1:3576:OHX:N2	2.53	0.42
92:1:3585:OHX:N6	92:1:3694:OHX:N4	2.67	0.42
36:1:409:A:P	92:1:3589:OHX:N6	2.92	0.42
36:1:561:C:H2'	36:1:562:C:H6	1.84	0.42
36:1:629:U:O5'	36:1:629:U:H6	2.03	0.42
36:1:63:A:N6	36:1:64:G:O6	2.52	0.42
36:1:661:G:O6	36:1:802:C:C4	2.72	0.42
36:1:929:A:C5	36:1:930:U:C5	3.07	0.42
1:2:1005:C:N4	1:2:1006:A:N1	2.67	0.42
1:2:1146:A:N6	1:2:1147:G:C5	2.88	0.42
1:2:1271:G:H1	1:2:1310:C:N4	2.10	0.42
1:2:1470:A:H2'	1:2:1471:G:O4'	2.19	0.42
1:2:1486:A:C6	1:2:1487:G:C6	3.08	0.42
1:2:206:A:OP2	92:2:1977:OHX:N5	2.52	0.42
1:2:746:G:C6	1:2:747:U:C4	3.08	0.42
38:4:31:G:C6	38:4:32:C:C4	3.07	0.42
38:4:83:C:H1'	38:4:85:G:N2	2.34	0.42
85:5:1060:U:H2'	85:5:1061:A:C8	2.55	0.42
41:L4:107:ARG:NH1	85:5:1429:G:OP2	125.56	0.42
85:5:1509:A:C6	85:5:1510:G:N1	2.88	0.42
85:5:201:A:H4'	85:5:220:G:C6	2.55	0.42
70:O4:99:LYS:NZ	85:5:2555:G:O6	214.98	0.42
85:5:2572:C:O2	85:5:2573:G:C8	2.73	0.42
85:5:256:G:C5	85:5:257:U:C5	3.08	0.42
85:5:2668:U:H2'	85:5:2669:G:O4'	2.19	0.42
78:Q2:8:ARG:HD2	85:5:2713:U:O2'	225.28	0.42
85:5:2651:G:N2	85:5:2796:G:C5	2.87	0.42
85:5:2858:U:C4	85:5:2859:U:O4	2.73	0.42
85:5:2953:U:H2'	85:5:2954:U:C2	2.54	0.42
85:5:2973:G:OP1	92:5:3649:OHX:N6	2.52	0.42
85:5:3061:G:C6	85:5:3062:G:N7	2.88	0.42
52:M6:115:LYS:HG2	85:5:3178:A:C2	259.00	0.42
85:5:3266:G:C6	85:5:3267:A:N1	2.88	0.42
85:5:3363:U:H6	85:5:3363:U:O5'	2.02	0.42
85:5:2945:G:OP2	92:5:3638:OHX:N5	2.53	0.42
92:5:3481:OHX:N4	92:5:3702:OHX:N1	2.68	0.42
85:5:431:U:H3	85:5:628:A:H61	1.66	0.42
85:5:752:C:H2'	85:5:753:C:H6	1.83	0.42
85:5:815:G:N1	85:5:926:A:C2	2.88	0.42
18:C6:30:LYS:NZ	80:6:1366:U:H5'	424.76	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1507:G:C6	80:6:1508:U:C4	3.08	0.42
80:6:452:A:H3'	80:6:453:U:C5	2.54	0.42
80:6:481:A:C2	80:6:508:U:O2	2.73	0.42
37:7:4:U:H6	37:7:4:U:O5'	2.02	0.42
38:8:109:A:H2'	38:8:110:C:H5'	2.01	0.42
38:8:71:A:H4'	38:8:72:A:O5'	2.19	0.42
17:C5:31:GLU:HG2	17:C5:35:LYS:HE3	7.89	0.42
18:C6:10:PHE:HA	18:C6:18:ALA:O	2.20	0.42
18:C6:48:VAL:HG23	18:C6:82:ARG:HB3	2.02	0.42
19:C7:34:LEU:HD22	19:C7:38:ILE:HD12	4.55	0.42
21:C9:58:ALA:HB1	21:C9:108:LEU:HD11	2.02	0.42
21:C9:49:ASP:O	21:C9:51:GLU:N	2.53	0.42
23:D1:62:ARG:HH22	24:D2:20:THR:HB	3.18	0.42
39:L2:96:LEU:O	79:Q3:87:ARG:HD3	2.77	0.42
40:L3:226:PHE:HD2	40:L3:227:GLU:N	2.18	0.42
40:L3:282:ILE:HD13	40:L3:282:ILE:HG21	1.78	0.42
40:L3:358:TRP:CH2	40:L3:360:ASP:HA	3.44	0.42
40:L3:85:VAL:HG22	40:L3:85:VAL:O	2.18	0.42
41:L4:179:LEU:HA	41:L4:179:LEU:HD23	1.77	0.42
36:1:1388:U:O4	41:L4:186:LYS:HD2	2.20	0.42
41:L4:193:LYS:HB3	41:L4:193:LYS:HE3	2.48	0.42
41:L4:222:VAL:HA	41:L4:223:PRO:HD3	1.81	0.42
41:L4:3:ARG:NH1	41:L4:22:LEU:HD12	2.30	0.42
42:L5:111:GLN:HA	42:L5:116:ASP:CB	2.49	0.42
37:3:1:G:N2	42:L5:269:SER:OG	2.48	0.42
42:L5:99:TYR:CD2	42:L5:199:ILE:HG12	3.29	0.42
42:L5:99:TYR:CE2	42:L5:199:ILE:HD13	2.54	0.42
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.55	0.42
45:L8:139:VAL:HG21	45:L8:197:VAL:HG21	2.00	0.42
45:L8:94:PHE:CZ	45:L8:200:LEU:HG	3.15	0.42
46:L9:100:ASN:OD1	46:L9:102:ASN:ND2	5.65	0.42
46:L9:126:VAL:O	46:L9:126:VAL:HG12	3.01	0.42
47:M0:45:GLU:O	47:M0:141:LYS:HE3	2.20	0.42
48:M1:139:THR:HA	48:M1:146:GLY:O	2.83	0.42
48:M1:152:HIS:HD2	48:M1:153:LYS:H	4.81	0.42
49:M3:43:ALA:HB1	49:M3:137:GLN:OE1	2.20	0.42
49:M3:90:ALA:CB	49:M3:95:ILE:HD12	3.48	0.42
50:M4:44:VAL:O	50:M4:57:ALA:HA	2.83	0.42
51:M5:6:TYR:CE2	72:O6:40:VAL:HG13	3.43	0.42
52:M6:22:VAL:HG22	52:M6:23:VAL:N	3.33	0.42
54:M8:124:LEU:HA	54:M8:124:LEU:HD23	1.74	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:21:SER:HA	58:N2:24:GLU:OE2	2.19	0.42
59:N3:82:ALA:N	59:N3:98:ASN:OD1	4.71	0.42
62:N6:37:LYS:HA	62:N6:40:ARG:HG2	6.08	0.42
62:N6:60:ARG:HD3	62:N6:60:ARG:HA	1.60	0.42
36:1:3325:G:H5'	67:O1:104:LEU:O	2.19	0.42
71:O5:45:LYS:C	71:O5:47:VAL:H	2.23	0.42
75:O9:3:ALA:O	75:O9:4:GLN:HB2	2.19	0.42
77:Q1:12:ARG:O	77:Q1:15:ARG:N	2.52	0.42
2:S0:175:TYR:CD1	2:S0:199:PRO:HA	2.55	0.42
3:S1:156:ALA:O	3:S1:161:ILE:HD11	5.19	0.42
3:S1:197:ILE:HG21	3:S1:210:ILE:HG21	3.07	0.42
4:S2:215:PHE:C	4:S2:217:ALA:N	2.96	0.42
5:S3:162:GLN:NE2	5:S3:165:ASN:HB2	2.34	0.42
5:S3:21:LEU:HD23	5:S3:21:LEU:HA	1.91	0.42
6:S4:115:THR:HG1	6:S4:118:GLU:H	1.64	0.42
8:S6:173:PRO:HB2	8:S6:174:LYS:H	1.73	0.42
8:S6:189:HIS:C	8:S6:189:HIS:ND1	3.88	0.42
8:S6:216:LEU:HD23	8:S6:216:LEU:HA	2.21	0.42
9:S7:83:LYS:HB3	9:S7:83:LYS:HE2	1.79	0.42
11:S9:142:ASN:OD1	11:S9:142:ASN:N	2.52	0.42
35:SM:101:ASP:HB3	35:SM:102:THR:H	1.62	0.42
35:SM:72:ARG:HD2	35:SM:72:ARG:HA	1.91	0.42
36:1:1105:A:H2'	36:1:1106:G:H8	1.84	0.42
36:1:1123:U:C5	36:1:1124:U:C5	3.08	0.42
36:1:1176:C:H2'	36:1:1177:G:N2	2.34	0.42
36:1:1240:A:N6	36:1:1244:A:H5''	2.28	0.42
36:1:1336:U:C2'	36:1:1337:A:H5'	2.49	0.42
36:1:1878:G:C3'	36:1:1879:A:H5'	2.50	0.42
36:1:2357:A:H2'	36:1:2358:A:C8	2.55	0.42
36:1:2775:U:H2'	36:1:2776:C:H6	1.83	0.42
36:1:2927:C:H2'	36:1:2928:C:C6	2.54	0.42
36:1:2889:C:C4	36:1:2936:A:C8	3.08	0.42
36:1:2901:G:N2	36:1:3030:G:H2'	2.34	0.42
36:1:3107:U:O4	36:1:3128:G:N2	2.52	0.42
36:1:1171:G:C5	92:1:3494:OHX:N5	2.86	0.42
36:1:406:G:H1'	38:4:16:G:H22	1.83	0.42
36:1:613:G:C4	36:1:614:C:C5	3.08	0.42
36:1:668:G:C5	36:1:795:G:C2	3.07	0.42
36:1:678:G:O6	92:1:3508:OHX:N1	2.53	0.42
36:1:813:G:N3	36:1:814:U:C6	2.88	0.42
1:2:1294:U:H1'	1:2:1298:U:O2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1486:A:N6	1:2:1487:G:C6	2.87	0.42
1:2:366:A:N1	1:2:367:A:C5	2.88	0.42
1:2:407:A:C6	1:2:408:C:N4	2.87	0.42
1:2:445:A:H1'	1:2:525:A:OP1	2.19	0.42
1:2:763:A:H8	26:D4:8:ARG:HB3	1.84	0.42
37:3:121:U:N3	42:L5:268:GLU:HB3	2.35	0.42
38:4:83:C:H1'	38:4:85:G:H21	1.85	0.42
85:5:1481:A:H2'	85:5:1858:A:N3	2.34	0.42
85:5:157:A:C2	85:5:158:G:H1'	2.54	0.42
85:5:189:G:H3'	85:5:224:C:OP2	2.19	0.42
85:5:1908:A:N6	85:5:1909:A:C6	2.88	0.42
85:5:3087:A:H2'	85:5:3088:G:C8	2.54	0.42
85:5:3296:A:O5'	85:5:3296:A:H8	2.03	0.42
85:5:3328:G:OP2	92:5:3745:OHX:N2	2.52	0.42
85:5:575:G:C2	85:5:576:C:C5	3.07	0.42
85:5:57:A:H2'	85:5:58:G:O4'	2.19	0.42
85:5:590:G:C6	85:5:591:G:C6	3.07	0.42
85:5:887:G:H2'	85:5:888:A:C8	2.55	0.42
80:6:1210:C:C2	80:6:1454:G:N2	2.87	0.42
80:6:1255:G:H4'	80:6:1256:A:OP1	2.20	0.42
21:C9:90:PRO:HG3	80:6:1467:C:O3'	370.69	0.42
80:6:17:C:N3	80:6:18:C:C4	2.88	0.42
80:6:833:U:OP1	92:6:2018:OHX:N5	2.52	0.42
80:6:525:A:H2'	80:6:526:A:C8	2.54	0.42
37:7:85:G:O2'	37:7:87:G:OP1	2.32	0.42
38:8:2:A:H3'	38:8:3:A:H8	1.84	0.42
5:S3:72:LEU:HD22	12:C0:65:TYR:HD1	2.52	0.42
14:C2:56:GLU:HG2	35:SM:171:UNK:CB	5.34	0.42
15:C3:128:TYR:CE1	80:6:964:U:H5''	322.40	0.42
20:C8:41:ARG:NH1	21:C9:38:LYS:HG3	2.34	0.42
20:C8:86:LEU:HD12	20:C8:99:HIS:HB2	2.01	0.42
21:C9:61:VAL:HG11	21:C9:105:LEU:HD21	3.13	0.42
23:D1:55:LEU:HD13	23:D1:65:SER:OG	2.20	0.42
24:D2:104:LEU:HD13	24:D2:104:LEU:N	2.34	0.42
29:D7:52:THR:O	29:D7:54:VAL:HG23	2.56	0.42
39:L2:68:LYS:HG2	39:L2:70:ARG:HE	3.95	0.42
40:L3:128:LYS:HG3	85:5:3294:A:H5'	197.17	0.42
41:L4:141:ARG:O	41:L4:143:GLU:N	3.97	0.42
41:L4:287:THR:HA	41:L4:290:ILE:HB	2.50	0.42
41:L4:92:ASN:N	41:L4:93:MET:HE2	3.73	0.42
42:L5:107:ARG:HH12	42:L5:120:LYS:HA	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:278:SER:O	42:L5:281:GLU:HB2	2.20	0.42
43:L6:50:LYS:HE2	43:L6:72:ASN:O	2.19	0.42
44:L7:101:LYS:O	44:L7:101:LYS:HD3	3.49	0.42
44:L7:156:ILE:O	44:L7:157:ASN:HB2	2.19	0.42
36:1:1171:G:OP2	44:L7:218:ARG:HD2	2.19	0.42
47:M0:54:SER:HB3	47:M0:133:GLN:O	2.19	0.42
47:M0:150:GLU:CG	47:M0:154:ARG:HE	2.32	0.42
47:M0:47:PRO:HB2	47:M0:178:ARG:NH2	2.34	0.42
47:M0:200:LEU:HD12	47:M0:213:PHE:HD1	3.12	0.42
47:M0:214:PRO:HD2	47:M0:215:GLU:CD	7.39	0.42
47:M0:23:ASN:ND2	47:M0:96:VAL:HG21	2.35	0.42
48:M1:116:TYR:CE1	48:M1:118:PRO:HB3	3.12	0.42
49:M3:14:PHE:CD1	85:5:798:G:N2	135.61	0.42
49:M3:32:LYS:HA	49:M3:35:ARG:NH2	2.57	0.42
49:M3:46:ILE:HG12	49:M3:49:ARG:HB2	5.88	0.42
49:M3:54:LEU:HA	49:M3:54:LEU:HD23	1.78	0.42
51:M5:106:VAL:HG22	51:M5:107:GLY:N	2.34	0.42
51:M5:122:ASN:O	51:M5:129:TYR:N	2.77	0.42
52:M6:118:VAL:HG23	52:M6:119:VAL:N	2.70	0.42
53:M7:26:PHE:O	53:M7:27:LYS:C	2.67	0.42
53:M7:2:ALA:O	53:M7:3:ARG:HB2	2.19	0.42
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.55	0.42
56:N0:3:HIS:ND1	56:N0:4:PHE:N	2.68	0.42
56:N0:89:ASN:HD21	57:N1:155:PRO:CA	2.33	0.42
57:N1:147:VAL:HA	57:N1:148:PRO:HD3	1.83	0.42
59:N3:87:ARG:NE	59:N3:121:GLU:OE2	2.49	0.42
59:N3:135:VAL:HG21	60:N4:26:SER:HB3	2.02	0.42
61:N5:108:LEU:HD23	61:N5:108:LEU:HA	2.24	0.42
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.67	0.42
64:N8:47:LYS:HG2	64:N8:48:TYR:N	2.29	0.42
64:N8:47:LYS:CG	64:N8:48:TYR:N	2.97	0.42
36:1:1728:G:C5	66:O0:85:PHE:CZ	3.07	0.42
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.51	0.42
73:O7:17:THR:CG2	75:O9:51:ILE:HD13	2.50	0.42
78:Q2:12:CYS:SG	78:Q2:17:CYS:CB	3.08	0.42
78:Q2:40:LYS:O	78:Q2:44:ASP:HB2	2.57	0.42
2:S0:63:ILE:HG22	2:S0:120:LEU:HD22	2.01	0.42
3:S1:31:ASP:O	3:S1:96:LEU:HD23	2.50	0.42
5:S3:202:LEU:C	5:S3:204:ASP:H	2.62	0.42
5:S3:60:GLY:O	5:S3:62:ASN:N	3.37	0.42
6:S4:212:ASP:OD1	6:S4:213:SER:N	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.40	0.42
7:S5:147:THR:HB	7:S5:160:VAL:HG21	2.93	0.42
8:S6:16:PHE:CE2	8:S6:45:PHE:HE1	2.37	0.42
1:2:793:G:C4	9:S7:111:LYS:HD2	2.54	0.42
9:S7:63:PRO:O	9:S7:64:VAL:CB	2.68	0.42
36:1:1613:A:P	74:O8:46:ARG:HH22	2.43	0.42
36:1:166:C:C2	36:1:167:U:C5	3.07	0.42
36:1:168:U:H2'	36:1:169:U:C6	2.54	0.42
36:1:2201:G:OP1	92:1:3652:OHX:N1	2.53	0.42
36:1:2611:U:H2'	36:1:2612:U:H6	1.83	0.42
36:1:263:C:H2'	36:1:264:G:O4'	2.20	0.42
36:1:29:C:H4'	36:1:62:A:H4'	2.02	0.42
36:1:3069:G:C2	36:1:3070:A:C8	3.08	0.42
36:1:3003:G:N3	36:1:3146:G:C2	2.87	0.42
36:1:3232:G:C6	36:1:3233:C:C4	3.07	0.42
36:1:3321:C:H2'	36:1:3322:A:H8	1.85	0.42
36:1:348:A:O4'	36:1:352:A:C2	2.72	0.42
36:1:417:A:H2'	36:1:418:A:C8	2.55	0.42
1:2:1155:G:C6	1:2:1156:C:C4	3.08	0.42
1:2:1336:U:H2'	1:2:1337:G:C8	2.55	0.42
1:2:189:C:C2'	1:2:190:C:H5'	2.49	0.42
1:2:357:G:N7	92:2:1938:OHX:N3	2.67	0.42
1:2:453:U:H6	1:2:453:U:O5'	2.02	0.42
1:2:898:A:H5''	1:2:899:U:H5	1.82	0.42
37:3:46:A:P	42:L5:158:ARG:HH11	2.41	0.42
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.53	0.42
38:4:12:A:C2	38:4:13:A:C8	3.08	0.42
85:5:1065:A:O5'	85:5:1065:A:H8	2.03	0.42
57:N1:129:LYS:HB2	85:5:1098:A:O5'	252.61	0.42
85:5:982:C:N3	85:5:1102:A:C2	2.88	0.42
85:5:1204:A:H2	85:5:2834:G:N3	2.18	0.42
85:5:1254:C:H2'	85:5:1255:C:H6	1.85	0.42
85:5:1475:A:C6	85:5:1476:G:C5	3.08	0.42
85:5:1614:C:C2	85:5:1615:C:C5	3.08	0.42
85:5:1752:A:H2'	85:5:1753:G:C8	2.55	0.42
85:5:1880:U:C4	85:5:1881:A:N7	2.88	0.42
85:5:2113:A:C8	85:5:2114:C:N3	2.88	0.42
85:5:2691:A:H2'	85:5:2692:A:C8	2.54	0.42
57:N1:17:ARG:HG3	85:5:2700:G:OP1	266.93	0.42
47:M0:158:LYS:HB3	85:5:2853:A:O2'	302.44	0.42
85:5:3017:A:H2'	85:5:3018:C:C6	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3207:U:HO2'	85:5:3208:G:H3'	1.84	0.42
85:5:3224:G:C2	85:5:3225:C:C6	3.08	0.42
85:5:509:U:O4	92:5:3524:OHX:N4	2.53	0.42
80:6:1107:G:H3'	80:6:1108:G:H21	1.85	0.42
80:6:1114:G:O2'	80:6:1115:U:OP2	2.31	0.42
4:S2:87:GLN:HG3	80:6:11:A:H5'	381.12	0.42
80:6:1225:U:O2	80:6:1230:A:O2'	2.37	0.42
80:6:1274:C:O2	80:6:1274:C:C2'	2.68	0.42
19:C7:2:GLY:N	80:6:1312:A:N7	393.55	0.42
80:6:1593:A:H2'	80:6:1594:G:H8	1.83	0.42
80:6:1670:G:N2	80:6:1732:A:N6	2.67	0.42
80:6:1716:C:O2'	80:6:1717:G:H5''	2.19	0.42
80:6:213:A:C2	80:6:253:A:N3	2.88	0.42
80:6:215:A:H5''	80:6:216:U:OP2	2.19	0.42
80:6:142:G:C2	80:6:266:A:C4	3.08	0.42
80:6:310:C:C4	80:6:311:U:C5	3.08	0.42
80:6:422:G:OP1	92:6:1911:OHX:N1	2.53	0.42
80:6:43:A:C2	80:6:378:A:C6	3.08	0.42
80:6:471:A:C2'	80:6:472:U:H5'	2.49	0.42
37:7:14:U:C4	37:7:67:G:N2	2.87	0.42
12:C0:48:SER:HA	80:6:1219:A:O2'	434.60	0.42
14:C2:63:VAL:HG11	14:C2:66:VAL:HG13	3.54	0.42
15:C3:75:LEU:O	15:C3:80:LEU:N	2.51	0.42
19:C7:32:LYS:HD2	19:C7:47:ARG:HH11	1.85	0.42
21:C9:16:ASN:OD1	21:C9:56:LYS:NZ	2.57	0.42
21:C9:57:ARG:HH12	21:C9:80:TYR:HB3	4.72	0.42
24:D2:89:TRP:O	24:D2:93:LEU:CD2	2.88	0.42
25:D3:132:LEU:HA	25:D3:132:LEU:HD13	1.69	0.42
26:D4:57:VAL:HB	26:D4:60:PHE:CE2	4.98	0.42
26:D4:88:THR:HG22	26:D4:88:THR:H	1.63	0.42
27:D5:66:VAL:HA	27:D5:71:ILE:HG22	6.44	0.42
28:D6:28:LYS:HG2	28:D6:29:SER:O	2.20	0.42
28:D6:21:VAL:HG22	28:D6:32:LYS:HA	2.86	0.42
33:E1:106:TYR:CE2	33:E1:116:LYS:HG2	2.53	0.42
39:L2:196:TRP:CZ3	39:L2:197:PRO:HG3	2.55	0.42
40:L3:92:TYR:HE1	40:L3:159:ARG:HD2	2.07	0.42
40:L3:347:SER:HB3	40:L3:348:ARG:H	1.60	0.42
40:L3:60:LEU:HD12	40:L3:352:GLU:OE1	2.20	0.42
41:L4:11:LEU:CD2	41:L4:11:LEU:N	3.01	0.42
41:L4:174:ALA:O	41:L4:178:LEU:HD12	3.67	0.42
41:L4:281:ILE:HD13	41:L4:281:ILE:HG21	1.66	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:57:ASN:HD22	37:7:27:A:P	301.05	0.42
44:L7:124:LEU:HD23	44:L7:124:LEU:HA	2.09	0.42
45:L8:128:LYS:HG3	85:5:120:G:C6	98.93	0.42
45:L8:56:VAL:O	45:L8:59:GLN:HG2	2.75	0.42
45:L8:73:PRO:O	45:L8:77:GLN:N	3.74	0.42
46:L9:27:VAL:HG12	46:L9:82:VAL:HG11	2.02	0.42
47:M0:142:ASP:N	47:M0:142:ASP:OD1	2.52	0.42
47:M0:168:SER:C	47:M0:170:LYS:H	2.23	0.42
47:M0:194:GLY:H	85:5:1010:G:H21	337.14	0.42
47:M0:194:GLY:N	85:5:1010:G:H21	337.53	0.42
48:M1:101:ASN:CG	48:M1:130:VAL:HG13	2.40	0.42
48:M1:136:ALA:O	48:M1:138:VAL:N	3.14	0.42
51:M5:121:VAL:HG11	51:M5:131:GLU:HG3	2.80	0.42
51:M5:121:VAL:HG22	51:M5:129:TYR:O	2.20	0.42
51:M5:150:TRP:C	51:M5:152:CYS:N	2.73	0.42
51:M5:193:ARG:C	51:M5:195:ASN:H	2.56	0.42
53:M7:105:LYS:HB3	53:M7:107:LEU:CD2	3.99	0.42
53:M7:169:THR:O	53:M7:173:ARG:HG2	2.19	0.42
54:M8:147:ARG:HH11	54:M8:147:ARG:HD3	1.93	0.42
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.55	0.42
55:M9:32:ILE:H	55:M9:32:ILE:HG13	2.29	0.42
56:N0:78:TRP:CE2	56:N0:91:TYR:CD2	3.08	0.42
57:N1:154:VAL:HA	57:N1:155:PRO:HD3	1.89	0.42
59:N3:26:ALA:O	59:N3:115:THR:HG22	2.20	0.42
59:N3:35:TYR:CB	59:N3:63:LYS:HD3	2.49	0.42
61:N5:103:TYR:O	61:N5:104:GLU:HB2	2.52	0.42
61:N5:49:LYS:O	61:N5:51:VAL:N	2.52	0.42
64:N8:28:HIS:HE1	64:N8:32:ARG:NH2	2.17	0.42
36:1:2775:U:H1'	64:N8:58:MET:SD	2.60	0.42
64:N8:58:MET:SD	85:5:2786:G:N2	156.09	0.42
64:N8:73:LEU:O	64:N8:113:LEU:N	2.83	0.42
66:O0:41:LEU:HD22	66:O0:41:LEU:HA	1.88	0.42
66:O0:92:ILE:HG21	66:O0:100:ILE:HD11	2.80	0.42
67:O1:19:ARG:HD3	67:O1:35:GLU:CG	2.50	0.42
68:O2:120:THR:C	68:O2:122:PRO:HD3	2.65	0.42
70:O4:8:ARG:HH21	70:O4:31:ARG:HG2	1.85	0.42
71:O5:73:LYS:HD2	71:O5:73:LYS:HA	5.12	0.42
72:O6:92:ASN:O	72:O6:95:ALA:HB3	3.75	0.42
76:Q0:115:CYS:SG	76:Q0:118:THR:HG22	2.59	0.42
76:Q0:93:LYS:HB3	76:Q0:103:LEU:O	2.20	0.42
3:S1:147:ALA:HB3	3:S1:148:ASN:OD1	6.93	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:61:LEU:CD2	3:S1:62:LYS:H	2.33	0.42
4:S2:211:LEU:O	4:S2:215:PHE:N	2.70	0.42
4:S2:217:ALA:O	4:S2:220:ASN:HB2	2.79	0.42
5:S3:111:ASN:HB3	5:S3:113:LEU:CD2	6.06	0.42
6:S4:138:TYR:HA	6:S4:148:ARG:HA	2.83	0.42
6:S4:103:TYR:CE1	6:S4:189:LEU:HD11	2.55	0.42
7:S5:192:GLU:HG3	27:D5:98:GLN:HE22	3.81	0.42
7:S5:93:LEU:HD23	7:S5:93:LEU:HA	1.52	0.42
8:S6:176:GLN:HG3	8:S6:177:ARG:N	2.60	0.42
11:S9:109:LEU:O	11:S9:109:LEU:HD22	2.20	0.42
35:SM:89:ARG:HA	35:SM:89:ARG:HD3	1.78	0.42
36:1:1278:A:O2'	36:1:1279:C:H6	2.03	0.42
36:1:1643:A:O2'	36:1:1644:C:O4'	2.25	0.42
36:1:1757:A:C2	36:1:1769:G:C2	3.08	0.42
36:1:2124:G:C2	36:1:2330:C:C2	3.08	0.42
36:1:2276:G:C6	36:1:2277:C:C4	3.08	0.42
36:1:250:U:C5	36:1:251:G:N7	2.88	0.42
36:1:2603:G:H2'	36:1:2604:U:O4'	2.19	0.42
36:1:2630:C:H5'	36:1:2758:A:H4'	2.01	0.42
36:1:3001:C:OP1	40:L3:120:LYS:NZ	2.51	0.42
36:1:317:A:N1	36:1:318:A:C2	2.88	0.42
36:1:3392:U:H2'	36:1:3393:U:C6	2.54	0.42
36:1:637:C:H2'	36:1:637:C:H6	1.56	0.42
36:1:63:A:C6	36:1:64:G:C6	3.07	0.42
1:2:1214:U:C4	1:2:1238:G:N2	2.88	0.42
1:2:1470:A:C4	1:2:1471:G:C8	3.07	0.42
1:2:1544:U:C2	1:2:1545:G:C8	3.08	0.42
1:2:1586:U:H6	1:2:1586:U:O5'	2.03	0.42
1:2:548:G:H2'	1:2:549:G:O4'	2.19	0.42
1:2:767:C:H2'	1:2:768:U:O4'	2.19	0.42
37:3:58:C:OP2	92:3:206:OHX:N6	2.52	0.42
85:5:1093:A:N3	85:5:1096:U:N3	2.67	0.42
85:5:1646:G:O2'	85:5:1647:A:OP2	2.33	0.42
85:5:1490:A:N6	85:5:1839:A:H61	2.15	0.42
85:5:1514:G:C6	85:5:1841:A:C4	3.07	0.42
85:5:185:C:H2'	85:5:186:U:C6	2.55	0.42
85:5:2235:C:H6	85:5:2235:C:O5'	2.03	0.42
85:5:2278:C:C2	85:5:2307:G:N2	2.88	0.42
40:L3:248:LYS:HE3	85:5:2393:G:OP2	204.77	0.42
85:5:2428:U:O5'	85:5:2428:U:H6	2.03	0.42
85:5:2555:G:H5'	85:5:2556:C:OP2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2576:G:O2'	85:5:2577:C:H5'	2.19	0.42
57:N1:8:ARG:HB2	85:5:2757:U:O2'	240.86	0.42
85:5:2801:A:O2'	85:5:2802:A:H2'	2.19	0.42
85:5:2884:C:C2	85:5:2939:G:C2	3.07	0.42
85:5:3057:U:H5'	85:5:3086:A:H61	1.85	0.42
85:5:412:G:C2	85:5:413:U:C2	3.08	0.42
85:5:645:A:C5	85:5:649:A:N7	2.88	0.42
85:5:706:A:C5	85:5:707:U:C5	3.08	0.42
80:6:1674:C:C4	80:6:1675:C:N4	2.87	0.42
80:6:1681:A:N3	80:6:1681:A:O4'	2.52	0.42
80:6:1151:A:O2'	80:6:1766:A:N7	2.32	0.42
80:6:428:A:N3	80:6:440:U:O2'	2.43	0.42
80:6:69:G:H1	80:6:82:U:H3	1.67	0.42
80:6:794:U:H3'	80:6:795:U:H5'	2.01	0.42
37:7:1:G:C2	37:7:2:G:N7	2.88	0.42
18:C6:137:ARG:NE	18:C6:137:ARG:HA	2.34	0.42
18:C6:98:ASP:CG	18:C6:99:GLU:N	3.24	0.42
20:C8:32:LEU:HB2	20:C8:43:SER:OG	2.19	0.42
21:C9:33:TYR:OH	21:C9:103:LYS:HD2	2.35	0.42
24:D2:5:SER:O	24:D2:6:VAL:HB	4.59	0.42
1:2:609:U:C4	25:D3:26:GLU:HG3	2.55	0.42
26:D4:40:LEU:HA	26:D4:40:LEU:HD23	1.78	0.42
29:D7:44:THR:HG22	29:D7:45:THR:H	4.59	0.42
1:2:545:A:H2'	32:E0:31:LYS:HD2	2.01	0.42
39:L2:140:ASN:OD1	39:L2:142:ASP:O	2.38	0.42
39:L2:143:GLU:O	39:L2:145:LYS:HB2	3.50	0.42
39:L2:175:VAL:H	39:L2:175:VAL:HG22	1.86	0.42
40:L3:79:VAL:O	40:L3:321:PHE:HB2	2.20	0.42
41:L4:283:THR:HB	41:L4:289:ILE:HD11	2.02	0.42
42:L5:99:TYR:CE1	42:L5:103:LEU:HD22	2.52	0.42
42:L5:104:LEU:HD11	42:L5:108:ARG:HH21	1.85	0.42
42:L5:122:VAL:O	42:L5:248:ARG:NH2	2.52	0.42
42:L5:211:LEU:HD22	42:L5:215:ASP:HB3	2.91	0.42
42:L5:264:GLN:O	42:L5:265:TYR:C	2.56	0.42
42:L5:266:ALA:HA	37:7:1:G:C4	313.38	0.42
43:L6:154:LEU:HD23	43:L6:154:LEU:HA	1.69	0.42
43:L6:49:GLY:O	43:L6:163:PHE:N	2.73	0.42
45:L8:159:PRO:C	45:L8:161:GLU:N	2.73	0.42
45:L8:161:GLU:OE1	51:M5:26:ARG:NH1	2.52	0.42
46:L9:20:ILE:CD1	46:L9:25:VAL:HG22	4.39	0.42
47:M0:176:LEU:HD11	47:M0:199:PHE:CE1	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:182:LEU:O	47:M0:183:LYS:C	2.58	0.42
47:M0:196:PHE:CG	47:M0:197:VAL:N	3.01	0.42
48:M1:160:VAL:HG12	48:M1:161:SER:N	3.86	0.42
48:M1:40:LEU:HD22	48:M1:40:LEU:HA	1.66	0.42
49:M3:5:LYS:HB2	49:M3:7:LEU:HG	2.02	0.42
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.20	0.42
51:M5:101:THR:O	51:M5:105:ARG:HG3	2.49	0.42
51:M5:143:ARG:NE	71:O5:92:LEU:HD23	2.34	0.42
51:M5:30:TYR:O	51:M5:32:GLN:N	2.53	0.42
53:M7:19:GLY:O	53:M7:146:ILE:N	2.53	0.42
60:N4:39:LEU:HD12	60:N4:44:LYS:HG3	2.39	0.42
60:N4:64:THR:O	60:N4:67:VAL:N	3.79	0.42
63:N7:80:LEU:O	63:N7:82:PRO:HD3	2.90	0.42
66:O0:24:THR:HG23	66:O0:30:THR:HG22	2.02	0.42
66:O0:41:LEU:HD22	66:O0:42:ILE:N	3.43	0.42
67:O1:82:GLU:O	67:O1:83:GLU:C	2.77	0.42
68:O2:17:PHE:O	68:O2:32:TRP:HE3	3.49	0.42
69:O3:106:ASN:ND2	69:O3:106:ASN:O	2.52	0.42
71:O5:119:LYS:HA	71:O5:119:LYS:HD2	2.64	0.42
76:Q0:77:ILE:O	76:Q0:78:ILE:HG13	2.20	0.42
78:Q2:16:THR:O	78:Q2:18:ARG:N	3.97	0.42
78:Q2:58:PHE:CD1	78:Q2:59:HIS:N	2.88	0.42
2:S0:107:PHE:O	2:S0:115:PHE:HE2	3.53	0.42
3:S1:70:LEU:O	3:S1:73:LEU:N	3.24	0.42
3:S1:67:GLU:CD	3:S1:83:LYS:HE2	4.69	0.42
2:S0:119:ARG:HE	4:S2:240:LEU:CD2	2.31	0.42
5:S3:95:GLY:O	5:S3:126:VAL:HG13	2.20	0.42
6:S4:103:TYR:CZ	6:S4:109:PHE:CE1	4.30	0.42
6:S4:36:HIS:H	6:S4:36:HIS:CD2	3.48	0.42
7:S5:137:ILE:HD13	7:S5:137:ILE:HG21	3.83	0.42
10:S8:38:ILE:HA	10:S8:60:ILE:O	2.36	0.42
10:S8:3:ILE:O	10:S8:30:GLY:N	2.52	0.42
34:SR:239:GLU:HB3	34:SR:257:ALA:HB2	2.67	0.42
36:1:1019:G:H2'	36:1:1020:G:O4'	2.19	0.42
36:1:1047:A:H2'	36:1:1048:A:C8	2.55	0.42
36:1:115:A:O5'	36:1:115:A:H8	2.03	0.42
36:1:1212:A:N3	36:1:1213:G:C8	2.88	0.42
36:1:1461:A:O2'	36:1:1462:A:H5'	2.20	0.42
36:1:1569:U:H5''	36:1:1570:U:C6	2.55	0.42
36:1:1684:U:H2'	36:1:1685:C:H6	1.85	0.42
36:1:1713:G:O2'	36:1:1714:A:OP2	2.32	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1717:U:H2'	36:1:1718:G:C8	2.54	0.42
36:1:2347:U:H3'	36:1:2348:A:C8	2.55	0.42
36:1:2419:A:N1	36:1:2420:C:N3	2.67	0.42
36:1:2552:C:H2'	66:00:50:VAL:HG11	2.01	0.42
36:1:2674:A:C5	36:1:2675:C:C4	3.08	0.42
36:1:2775:U:C2	36:1:2786:G:C2	3.08	0.42
36:1:3112:G:O2'	46:L9:70:THR:HB	2.20	0.42
36:1:3279:A:N7	36:1:3280:U:C4	2.88	0.42
36:1:1878:G:OP1	92:1:3464:OHX:N4	2.53	0.42
36:1:739:G:N3	36:1:740:G:C8	2.88	0.42
36:1:82:C:O2	36:1:82:C:H2'	2.18	0.42
1:2:1027:U:H2'	1:2:1028:C:H6	1.85	0.42
1:2:1179:A:H4'	1:2:1180:C:H5''	2.01	0.42
1:2:53:G:H2'	1:2:54:C:O4'	2.19	0.42
1:2:555:A:H4'	1:2:556:A:OP1	2.19	0.42
1:2:831:C:H2'	1:2:832:C:C6	2.52	0.42
1:2:921:G:C6	1:2:925:G:C6	3.07	0.42
85:5:1290:A:C2	85:5:1291:A:C5	3.07	0.42
85:5:1627:U:H2'	85:5:1814:A:N6	2.34	0.42
85:5:1867:A:C6	85:5:1868:G:C5	3.08	0.42
85:5:2746:A:H2'	85:5:2747:A:O4'	2.19	0.42
85:5:2795:U:O2	85:5:2800:G:O2'	2.21	0.42
85:5:961:C:O2	92:5:3681:OHX:N4	2.52	0.42
85:5:34:A:C2	85:5:51:A:C2	3.08	0.42
85:5:525:C:N4	85:5:567:G:H1	2.17	0.42
80:6:1140:G:C2	80:6:1141:G:C8	3.07	0.42
80:6:1147:A:O4'	80:6:1635:A:C2	2.73	0.42
80:6:1354:G:C5	80:6:1372:U:C4	3.07	0.42
80:6:1473:U:O2	80:6:1473:U:H2'	2.20	0.42
5:S3:9:ARG:NH2	80:6:1489:U:OP1	429.46	0.42
80:6:1673:G:H2'	80:6:1674:C:C6	2.54	0.42
80:6:246:G:C2	80:6:247:A:C4	3.08	0.42
80:6:333:A:C6	80:6:334:G:N1	2.87	0.42
80:6:426:G:N2	80:6:427:C:O2	2.53	0.42
80:6:957:G:C6	80:6:958:U:N3	2.88	0.42
85:5:1197:A:C8	37:7:86:U:C2	3.07	0.42
12:C0:32:HIS:CD2	12:C0:33:GLU:HG2	7.30	0.42
15:C3:140:LYS:HD3	36:1:847:A:OP1	2.20	0.42
15:C3:65:VAL:C	15:C3:67:THR:H	3.30	0.42
22:D0:25:THR:HB	22:D0:115:GLU:CG	4.70	0.42
22:D0:61:LYS:HG3	22:D0:86:ILE:HB	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:2:GLU:HA	23:D1:8:LEU:HA	2.02	0.42
24:D2:126:LEU:HD23	24:D2:126:LEU:HA	2.05	0.42
25:D3:144:ARG:H	25:D3:144:ARG:HG3	1.62	0.42
28:D6:41:ILE:HG22	28:D6:68:TYR:HB3	2.02	0.42
28:D6:42:ARG:HB3	28:D6:43:ASN:H	2.15	0.42
29:D7:50:ALA:HB1	29:D7:52:THR:O	2.20	0.42
31:D9:45:GLU:OE1	80:6:1433:G:N2	410.49	0.42
39:L2:128:ARG:HA	39:L2:169:ILE:HD11	2.02	0.42
39:L2:190:ARG:HD3	39:L2:190:ARG:HH11	4.32	0.42
40:L3:108:GLU:HB2	40:L3:137:TYR:CZ	2.54	0.42
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	2.02	0.42
40:L3:192:VAL:O	40:L3:195:ALA:HB3	2.44	0.42
40:L3:281:LYS:CE	40:L3:350:ALA:HA	2.50	0.42
41:L4:255:PHE:O	41:L4:258:LEU:HB2	2.34	0.42
41:L4:257:LYS:O	41:L4:258:LEU:C	2.88	0.42
41:L4:258:LEU:HD12	41:L4:258:LEU:HA	2.06	0.42
43:L6:157:GLN:O	43:L6:158:TYR:C	2.58	0.42
44:L7:118:LYS:O	44:L7:118:LYS:HG2	3.71	0.42
44:L7:205:PHE:N	44:L7:205:PHE:HD2	2.83	0.42
45:L8:186:LEU:HD22	45:L8:198:ALA:HB3	2.02	0.42
46:L9:109:ALA:HB1	46:L9:111:PHE:HE2	1.83	0.42
46:L9:164:ILE:O	46:L9:164:ILE:HD12	2.19	0.42
47:M0:46:PHE:CB	47:M0:139:ARG:HG3	2.49	0.42
47:M0:144:ASN:O	47:M0:145:LYS:C	2.58	0.42
47:M0:144:ASN:OD1	47:M0:147:VAL:HG21	2.53	0.42
47:M0:68:ALA:O	47:M0:71:CYS:HB3	2.20	0.42
48:M1:137:ARG:O	48:M1:138:VAL:C	2.79	0.42
35:SM:39:PRO:HD3	48:M1:52:TYR:CE1	2.74	0.42
37:3:39:C:N3	48:M1:70:THR:HG23	2.35	0.42
49:M3:118:GLU:O	49:M3:122:LYS:HG2	2.20	0.42
49:M3:153:ASP:HB2	64:N8:126:LYS:HZ1	3.69	0.42
36:1:44:U:OP1	51:M5:84:PRO:HB2	2.19	0.42
52:M6:178:VAL:O	52:M6:182:ASN:N	2.37	0.42
53:M7:136:ILE:HD12	53:M7:136:ILE:HG23	1.81	0.42
36:1:3217:C:N4	53:M7:182:ILE:HG23	2.35	0.42
36:1:1602:A:C5'	55:M9:38:ARG:HG3	2.50	0.42
64:N8:103:ASP:HB3	64:N8:106:ALA:HB3	2.35	0.42
68:O2:60:ASN:HB3	68:O2:63:THR:OG1	2.19	0.42
68:O2:83:GLU:O	68:O2:86:THR:HB	2.54	0.42
68:O2:8:LYS:HB2	68:O2:8:LYS:HE3	1.68	0.42
69:O3:26:ASN:HA	69:O3:88:ASN:OD1	2.81	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.55	0.42
36:1:1739:U:O2'	70:O4:56:THR:HG21	2.20	0.42
71:O5:101:THR:O	71:O5:102:GLU:C	2.56	0.42
73:O7:5:THR:N	73:O7:6:PRO:HD2	2.34	0.42
78:Q2:54:THR:OG1	78:Q2:55:LYS:N	3.66	0.42
2:S0:177:LEU:HA	2:S0:177:LEU:HD23	1.93	0.42
3:S1:209:ASN:O	3:S1:210:ILE:HB	2.20	0.42
5:S3:162:GLN:O	5:S3:164:VAL:N	2.52	0.42
1:2:1497:U:H5	5:S3:4:LEU:O	2.03	0.42
5:S3:99:VAL:HG13	5:S3:173:ARG:HH22	2.44	0.42
6:S4:211:LYS:HB2	6:S4:217:THR:HG22	2.02	0.42
6:S4:252:ARG:CZ	6:S4:252:ARG:HB3	3.83	0.42
7:S5:112:ARG:HA	7:S5:112:ARG:HD2	4.02	0.42
7:S5:43:PHE:CZ	7:S5:90:ILE:HG21	2.95	0.42
8:S6:88:ARG:CG	8:S6:91:GLU:HB2	4.07	0.42
9:S7:13:PRO:HA	9:S7:14:THR:HA	2.05	0.42
11:S9:24:LEU:HD23	11:S9:39:LYS:HZ1	1.84	0.42
34:SR:245:PHE:CE1	34:SR:252:LEU:HD22	4.40	0.42
34:SR:248:ASN:ND2	34:SR:298:GLY:HA3	2.47	0.42
36:1:1638:A:N3	36:1:1709:C:H1'	2.35	0.42
36:1:1904:C:C2'	36:1:1905:G:H5'	2.49	0.42
36:1:206:G:C6	36:1:207:U:C4	3.08	0.42
36:1:2122:G:H2'	36:1:2123:G:O4'	2.20	0.42
36:1:2691:A:H2'	36:1:2692:A:C8	2.55	0.42
36:1:3328:G:H2'	36:1:3328:G:N3	2.35	0.42
36:1:583:G:C6	36:1:584:G:N7	2.87	0.42
36:1:734:C:OP1	36:1:734:C:H6	2.03	0.42
1:2:1313:G:H2'	1:2:1314:A:O4'	2.20	0.42
1:2:1739[A]:A:H2'	1:2:1740:G:H8	1.85	0.42
1:2:287:G:O2'	1:2:288:A:P	2.78	0.42
1:2:40:A:C2	1:2:469:C:C6	3.08	0.42
1:2:574:G:C6	1:2:575:C:C4	3.08	0.42
1:2:776:A:H5''	1:2:777:U:C5	2.55	0.42
1:2:77:U:O5'	1:2:77:U:H6	2.03	0.42
1:2:875:A:H2'	1:2:876:U:O4'	2.19	0.42
92:1:3590:OHX:N1	92:3:204:OHX:N2	2.67	0.42
37:3:111:U:O2'	92:3:207:OHX:N1	2.53	0.42
38:4:150:G:N7	92:4:208:OHX:N4	2.68	0.42
85:5:1018:G:H2'	85:5:1019:G:O4'	2.20	0.42
85:5:982:C:N4	85:5:1101:G:H1	2.18	0.42
85:5:110:G:C6	85:5:111:C:C2	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1517:G:H2'	85:5:1518:U:C6	2.53	0.42
85:5:1773:C:N4	85:5:1774:C:N4	2.68	0.42
85:5:1664:G:N2	85:5:1786:G:C4	2.88	0.42
85:5:187:A:C6	85:5:211:A:N3	2.88	0.42
85:5:2213:A:H1'	85:5:2601:A:O2'	2.20	0.42
85:5:2594:C:H2'	85:5:2595:A:O4'	2.20	0.42
85:5:2602:G:C6	85:5:2603:G:N7	2.88	0.42
85:5:2850:G:HO2'	85:5:2851:A:H8	1.64	0.42
85:5:2867:C:C2'	85:5:2867:C:O2	2.64	0.42
40:L3:2:SER:O	85:5:2939:G:OP2	245.74	0.42
85:5:3199:G:N2	85:5:3200:G:C4	2.87	0.42
85:5:3362:A:C2	85:5:3363:U:C4	3.08	0.42
85:5:3362:A:N1	85:5:3363:U:C2	2.88	0.42
85:5:3383:G:C4	85:5:3384:U:C5	3.08	0.42
85:5:989:A:C2	85:5:1061:A:C2	3.08	0.42
80:6:1077:C:C4	80:6:1078:C:C5	3.08	0.42
34:SR:90:ARG:HH22	80:6:1341:A:H4'	455.07	0.42
80:6:1440:C:C4	80:6:1441:C:C4	3.08	0.42
80:6:1673:G:C5	80:6:1674:C:C5	3.07	0.42
92:6:1970:OHX:N5	92:6:2031:OHX:N1	2.68	0.42
80:6:478:A:C2	80:6:511:A:C2	3.07	0.42
80:6:648:G:C2	80:6:687:G:C2	3.08	0.42
80:6:929:A:N6	80:6:930:A:N1	2.68	0.42
80:6:957:G:H2'	80:6:958:U:O4'	2.20	0.42
80:6:980:G:OP2	80:6:1014:G:O2'	2.37	0.42
38:8:132:G:N7	92:8:208:OHX:N2	2.68	0.42
75:O9:12:LYS:HE3	38:8:45:C:OP1	100.62	0.42
12:C0:54:TYR:HD2	12:C0:72:GLY:HA2	4.47	0.42
17:C5:108:ARG:HG3	17:C5:108:ARG:HH11	1.85	0.42
1:2:1533:A:OP2	17:C5:42:ARG:NH2	2.53	0.42
18:C6:73:GLY:H	18:C6:76:SER:HB3	1.85	0.42
20:C8:11:PHE:CZ	20:C8:59:GLY:HA3	3.96	0.42
22:D0:41:ILE:HD11	22:D0:107:THR:HG21	2.01	0.42
23:D1:55:LEU:HA	23:D1:55:LEU:HD23	2.33	0.42
24:D2:106:THR:HG21	24:D2:111:MET:HE2	2.02	0.42
24:D2:37:PHE:CE1	24:D2:103:ILE:HG21	4.04	0.42
26:D4:60:PHE:CE1	26:D4:71:GLY:HA3	2.55	0.42
39:L2:179:LEU:O	39:L2:181:LYS:N	2.50	0.42
39:L2:238:ILE:HG23	39:L2:238:ILE:HD12	3.86	0.42
40:L3:185:GLY:H	40:L3:191:LYS:HZ3	1.67	0.42
40:L3:41:VAL:H	40:L3:41:VAL:HG13	1.60	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:61:ASP:O	40:L3:63:PRO:HD3	2.19	0.42
40:L3:81:THR:OG1	40:L3:81:THR:O	3.97	0.42
42:L5:166:ALA:O	42:L5:171:LEU:HB2	2.20	0.42
43:L6:8:LYS:HD3	43:L6:8:LYS:O	4.47	0.42
44:L7:152:GLY:C	44:L7:153:PHE:HD2	2.31	0.42
45:L8:73:PRO:HD3	45:L8:233:TRP:NE1	2.35	0.42
47:M0:36:LEU:CD2	47:M0:73:ASN:ND2	2.82	0.42
47:M0:89:VAL:HG22	47:M0:136:PHE:CE1	3.17	0.42
49:M3:18:TRP:C	49:M3:20:GLU:H	2.23	0.42
49:M3:4:SER:HB3	85:5:965:A:H5''	174.58	0.42
51:M5:191:TRP:O	51:M5:194:GLN:N	2.53	0.42
52:M6:164:SER:OG	52:M6:164:SER:O	2.34	0.42
52:M6:67:THR:HG21	92:M6:201:OHX:N2	2.35	0.42
52:M6:12:LYS:CG	52:M6:40:GLU:HB3	3.27	0.42
53:M7:29:THR:HG22	53:M7:87:SER:HG	1.77	0.42
53:M7:66:SER:O	53:M7:67:ILE:O	2.38	0.42
54:M8:102:ALA:HA	54:M8:122:ILE:O	2.20	0.42
56:N0:164:SER:OG	56:N0:165:TYR:N	2.53	0.42
56:N0:29:ILE:HD13	56:N0:29:ILE:HA	1.87	0.42
36:1:989:A:O2'	57:N1:104:GLU:HB3	2.20	0.42
58:N2:34:ALA:HA	58:N2:37:LEU:HB2	3.37	0.42
62:N6:53:ASP:HB2	62:N6:110:HIS:CD2	2.55	0.42
62:N6:35:LEU:HD23	62:N6:106:ILE:HD12	2.02	0.42
64:N8:90:TYR:CD1	64:N8:100:PRO:HD3	4.17	0.42
64:N8:126:LYS:HB3	64:N8:148:ILE:HD13	2.26	0.42
49:M3:159:VAL:HG13	64:N8:144:VAL:HG13	2.01	0.42
65:N9:37:PRO:C	65:N9:39:PHE:H	2.84	0.42
67:O1:7:VAL:HA	67:O1:77:ARG:HG2	3.03	0.42
43:L6:10:TYR:CD1	68:O2:88:HIS:CE1	3.08	0.42
71:O5:45:LYS:O	71:O5:47:VAL:N	2.53	0.42
72:O6:61:ILE:C	72:O6:63:ASN:H	3.25	0.42
78:Q2:89:LYS:HD2	85:5:2653:C:OP1	236.68	0.42
39:L2:80:GLU:OE1	79:Q3:76:ALA:HB3	2.20	0.42
3:S1:176:VAL:C	3:S1:178:GLY:N	2.73	0.42
3:S1:175:GLU:HG3	3:S1:193:ILE:HG23	2.01	0.42
4:S2:230:TRP:HB3	24:D2:68:ARG:HH11	1.85	0.42
4:S2:67:GLN:H	4:S2:67:GLN:CD	2.66	0.42
5:S3:113:LEU:HD23	5:S3:113:LEU:HA	1.85	0.42
6:S4:160:VAL:HG12	6:S4:162:ILE:HG12	2.01	0.42
8:S6:2:LYS:HE2	8:S6:17:GLU:OE1	4.43	0.42
9:S7:4:PRO:HB2	9:S7:25:VAL:HG11	3.81	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:57:ALA:HA	9:S7:89:HIS:H	1.84	0.42
9:S7:76:LYS:HA	9:S7:79:ARG:HB2	2.02	0.42
10:S8:36:THR:O	10:S8:95:THR:HG23	2.49	0.42
10:S8:37:LYS:HE2	10:S8:93:THR:HB	2.02	0.42
11:S9:134:ILE:HD12	11:S9:134:ILE:HG21	1.83	0.42
1:2:751:C:O2	11:S9:143:ILE:HG12	2.19	0.42
11:S9:33:GLU:HB2	11:S9:34:PHE:CD2	4.08	0.42
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	2.09	0.42
35:SM:37:VAL:HG12	35:SM:38:PRO:O	2.24	0.42
35:SM:51:ARG:HG3	35:SM:52:PRO:CD	2.50	0.42
1:2:1257:C:H5	35:SM:96:ARG:H	1.66	0.42
34:SR:112:SER:HG	34:SR:155:ARG:NH1	2.61	0.42
36:1:1048:A:H5''	36:1:1049:C:C5'	2.50	0.41
36:1:1095:U:H4'	36:1:1096:U:C5'	2.50	0.41
36:1:1496:C:C6	36:1:1496:C:O5'	2.72	0.41
36:1:155:G:C4	36:1:266:A:C2	3.08	0.41
36:1:1742:U:C2	36:1:1743:G:N7	2.88	0.41
36:1:213:A:N7	36:1:214:G:N7	2.68	0.41
36:1:2152:A:H1'	36:1:2243:A:N3	2.35	0.41
36:1:2352:A:C6	36:1:2353:G:C6	3.08	0.41
36:1:2573:G:N7	92:1:3531:OHX:N1	2.68	0.41
36:1:2653:C:O2	36:1:2694:A:C6	2.73	0.41
36:1:2827:U:C6	36:1:2859:U:O4	2.73	0.41
36:1:2973:G:H2'	36:1:2973:G:N3	2.35	0.41
36:1:3242:G:N2	36:1:3245:A:OP2	2.53	0.41
36:1:3267:A:N6	43:L6:70:LYS:O	2.53	0.41
36:1:2999:U:O3'	36:1:3296:A:H4'	2.20	0.41
36:1:2596:U:O2'	92:1:3660:OHX:N6	2.52	0.41
36:1:405:U:O4	36:1:406:G:C6	2.73	0.41
36:1:511:G:C6	36:1:512:U:C4	3.08	0.41
36:1:521:A:N3	56:N0:65:ASN:ND2	2.68	0.41
36:1:871:U:H2'	36:1:872:U:C6	2.55	0.41
1:2:1099:A:O2'	1:2:1100:U:H5'	2.20	0.41
1:2:1524:G:C5	1:2:1525:G:C6	3.08	0.41
1:2:1784:U:H3	1:2:1809:G:H22	1.68	0.41
1:2:1663:G:O6	92:2:1960:OHX:N3	2.53	0.41
1:2:204:G:C6	1:2:205:U:C4	3.08	0.41
1:2:393:C:O2'	8:S6:92:ARG:NH1	2.42	0.41
1:2:550:A:C2	1:2:557:G:C6	3.08	0.41
37:3:41:G:H1'	37:3:44:C:N4	2.35	0.41
37:3:49:G:H4'	37:3:50:U:O4'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:85:G:C6	37:3:87:G:N7	2.87	0.41
38:4:11:C:H2'	38:4:12:A:O4'	2.20	0.41
38:4:28:C:O2	38:4:29:U:C6	2.73	0.41
38:4:82:U:C2	38:4:83:C:C5	3.08	0.41
85:5:1013:G:N3	85:5:1014:U:H1'	2.35	0.41
85:5:1017:C:H2'	85:5:1017:C:OP1	2.20	0.41
85:5:1237:G:C6	85:5:1238:C:N4	2.88	0.41
85:5:1327:C:O2'	85:5:1328:C:H5'	2.20	0.41
85:5:141:C:H2'	85:5:142:C:C6	2.55	0.41
85:5:1519:G:H2'	85:5:1520:G:H8	1.84	0.41
85:5:155:G:C4	85:5:266:A:C2	3.08	0.41
85:5:1550:C:O2'	85:5:2167:A:N1	2.44	0.41
85:5:2645:G:N2	85:5:2646:C:H1'	2.35	0.41
85:5:2392:C:O2	85:5:2987:A:N1	2.53	0.41
85:5:3307:A:C4	85:5:3308:C:C6	3.08	0.41
85:5:3383:G:H2'	85:5:3384:U:C6	2.55	0.41
92:5:3503:OHX:N3	92:7:209:OHX:N6	2.68	0.41
92:5:3718:OHX:N1	92:5:3729:OHX:N3	2.68	0.41
85:5:426:G:H2'	85:5:427:C:C6	2.55	0.41
85:5:590:G:C5	85:5:591:G:C6	3.08	0.41
85:5:892:U:O2'	85:5:893:C:H5'	2.19	0.41
54:M8:12:ARG:NH2	85:5:972:A:OP1	182.56	0.41
80:6:1227:A:OP1	80:6:1228:G:H3'	2.20	0.41
80:6:1709:C:H2'	80:6:1710:U:C6	2.55	0.41
80:6:180:A:H2'	80:6:181:A:O4'	2.19	0.41
80:6:199:G:HO2'	80:6:200:A:H8	1.63	0.41
80:6:354:C:H2'	80:6:355:G:O4'	2.19	0.41
80:6:455:C:O2'	80:6:456:A:H5'	2.20	0.41
80:6:629:U:H2'	80:6:630:A:C8	2.54	0.41
80:6:65:A:O3'	80:6:66:U:H3'	2.20	0.41
80:6:829:A:HO2'	80:6:830:U:H5	1.65	0.41
80:6:891:A:C6	80:6:922:G:C6	3.07	0.41
85:5:349:A:O4'	38:8:24:G:H1'	2.20	0.41
38:8:56:G:N3	38:8:62:C:C2	2.88	0.41
38:8:73:U:C5	38:8:74:U:C5	3.08	0.41
12:C0:7:ASP:HA	12:C0:10:LYS:HD2	2.02	0.41
12:C0:31:LYS:H	12:C0:38:LYS:HA	4.17	0.41
3:S1:71:ALA:HB3	16:C4:114:ARG:HH12	1.85	0.41
16:C4:56:SER:HA	16:C4:57:PRO:HD3	2.03	0.41
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.55	0.41
20:C8:47:CYS:HB3	20:C8:54:LEU:HD11	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:57:ARG:HH12	27:D5:40:VAL:HG12	1.84	0.41
5:S3:40:ARG:HG2	22:D0:110:PRO:HG3	2.00	0.41
23:D1:28:ASP:C	23:D1:30:ALA:H	2.23	0.41
25:D3:126:LYS:HG2	25:D3:131:SER:HA	2.60	0.41
26:D4:26:ASP:N	26:D4:26:ASP:OD2	4.74	0.41
26:D4:53:ASP:HB3	26:D4:96:LEU:HD21	4.38	0.41
27:D5:44:GLN:O	27:D5:44:GLN:NE2	2.92	0.41
27:D5:77:ARG:HH11	27:D5:77:ARG:HB2	1.85	0.41
28:D6:38:ARG:NH2	28:D6:83:ILE:HG13	2.28	0.41
31:D9:24:CYS:C	31:D9:26:SER:H	2.53	0.41
14:C2:74:LEU:HD11	33:E1:106:TYR:HD1	1.84	0.41
33:E1:121:CYS:CB	33:E1:141:CYS:SG	3.07	0.41
1:2:1218:C:O2	33:E1:138:ARG:NE	2.52	0.41
39:L2:180:LEU:HD23	39:L2:180:LEU:HA	1.55	0.41
39:L2:181:LYS:HB3	79:Q3:18:TYR:CE2	2.55	0.41
39:L2:200:ARG:C	39:L2:202:VAL:N	2.73	0.41
40:L3:188:ILE:CD1	40:L3:188:ILE:H	2.84	0.41
40:L3:232:ARG:HD2	40:L3:232:ARG:HH11	1.70	0.41
40:L3:47:LEU:HD23	40:L3:164:THR:HG23	2.02	0.41
40:L3:4:ARG:HD2	40:L3:7:GLU:HA	2.02	0.41
41:L4:246:ARG:HD3	41:L4:246:ARG:HH11	1.79	0.41
43:L6:97:ASN:O	43:L6:99:GLU:N	2.93	0.41
44:L7:121:LYS:HE3	44:L7:125:GLU:HG2	4.00	0.41
44:L7:149:TYR:HE2	44:L7:181:ILE:HG23	2.19	0.41
45:L8:172:LYS:NZ	45:L8:172:LYS:HB2	4.67	0.41
45:L8:97:TYR:OH	45:L8:203:VAL:HG13	4.88	0.41
48:M1:49:LYS:HA	48:M1:63:GLU:O	5.12	0.41
48:M1:89:TYR:HB3	48:M1:169:ALA:HB2	2.02	0.41
49:M3:139:LEU:HD23	49:M3:139:LEU:HA	1.63	0.41
49:M3:149:GLN:HA	49:M3:150:PRO:HD3	1.79	0.41
49:M3:21:ARG:HH11	49:M3:21:ARG:HD3	1.84	0.41
49:M3:91:ARG:NH2	49:M3:97:VAL:HB	2.72	0.41
51:M5:10:LEU:HA	51:M5:10:LEU:HD23	2.87	0.41
51:M5:14:LYS:HE2	85:5:269:G:H5''	133.00	0.41
51:M5:177:GLY:HA2	85:5:68:C:O3'	110.60	0.41
52:M6:14:HIS:HD2	52:M6:123:ALA:HB3	3.49	0.41
52:M6:54:TYR:O	52:M6:56:ASP:N	3.40	0.41
54:M8:44:PHE:CD2	54:M8:134:GLY:HA3	2.55	0.41
54:M8:65:SER:HA	54:M8:93:ILE:HD13	2.02	0.41
55:M9:94:VAL:O	55:M9:97:ARG:HB2	2.61	0.41
57:N1:112:ASN:O	57:N1:116:ARG:HB2	3.00	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1051:U:H4'	57:N1:19:PHE:CD2	2.55	0.41
58:N2:89:LEU:HB3	58:N2:93:ILE:HD12	2.38	0.41
61:N5:104:GLU:O	61:N5:130:TYR:HE2	2.03	0.41
62:N6:89:LYS:NZ	85:5:375:A:OP2	75.59	0.41
63:N7:22:LYS:HG3	63:N7:49:TYR:OH	2.80	0.41
66:O0:101:LEU:HD13	66:O0:101:LEU:N	3.73	0.41
70:O4:41:ARG:HA	70:O4:42:PRO:HD3	2.16	0.41
73:O7:86:ALA:O	73:O7:87:SER:OG	2.28	0.41
91:P:75:C:O3'	98:P:101:8AN:C4'	2.68	0.41
78:Q2:104:LEU:HD22	78:Q2:104:LEU:H	1.92	0.41
78:Q2:89:LYS:HB2	85:5:2653:C:OP1	237.20	0.41
3:S1:143:THR:HG21	3:S1:156:ALA:HB2	2.33	0.41
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.85	0.41
3:S1:65:VAL:HG13	3:S1:85:LYS:HG2	2.01	0.41
4:S2:160:GLY:N	4:S2:167:VAL:O	2.87	0.41
6:S4:118:GLU:C	6:S4:120:SER:H	2.37	0.41
7:S5:109:LYS:O	7:S5:113:ILE:HG13	2.20	0.41
7:S5:29:ILE:O	7:S5:34:GLN:NE2	2.46	0.41
8:S6:153:VAL:O	8:S6:156:PHE:HB2	2.85	0.41
8:S6:76:LEU:HD23	8:S6:76:LEU:HA	1.74	0.41
9:S7:96:ARG:HD2	9:S7:121:VAL:HG13	2.01	0.41
10:S8:87:ASN:HB3	10:S8:90:LEU:CD1	2.49	0.41
11:S9:139:GLN:HG3	11:S9:140:ILE:O	3.49	0.41
11:S9:64:GLU:HG3	11:S9:69:ARG:CZ	2.50	0.41
34:SR:162:ALA:O	34:SR:163:ASP:HB3	2.20	0.41
34:SR:209:THR:OG1	34:SR:210:LEU:HG	2.20	0.41
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	2.00	0.41
36:1:1189:C:C4	52:M6:133:ARG:CZ	3.03	0.41
36:1:1397:C:C5	36:1:1398:U:C5	3.07	0.41
36:1:1856:C:H2'	36:1:1857:C:H6	1.83	0.41
36:1:2232:A:C6	36:1:2233:A:C6	3.07	0.41
36:1:239:G:H2'	36:1:240:U:C6	2.55	0.41
36:1:2565:U:H2'	36:1:2566:C:H6	1.84	0.41
36:1:2403:G:C5'	36:1:2872:A:C2	3.03	0.41
36:1:3226:A:C2	36:1:3260:G:C2	3.08	0.41
36:1:3351:U:O2'	36:1:3352:U:OP1	2.27	0.41
36:1:3353:G:O2'	36:1:3356:G:H5'	2.20	0.41
36:1:1389:G:C8	92:1:3507:OHX:N4	2.88	0.41
36:1:1779:C:O2'	92:1:3586:OHX:N2	2.52	0.41
36:1:741:U:C2	36:1:742:G:H1'	2.54	0.41
1:2:609:U:C4	1:2:1091:G:C5	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1248:G:H2'	1:2:1249:U:O4'	2.20	0.41
1:2:1727:A:C2	1:2:1728:G:C4	3.08	0.41
1:2:336:G:OP2	92:2:1983:OHX:N3	2.53	0.41
1:2:325:G:H2'	1:2:326:G:H8	1.85	0.41
1:2:751:C:N4	1:2:752:A:C6	2.88	0.41
1:2:228:G:C4	1:2:817:G:N2	2.88	0.41
1:2:860:G:H22	1:2:934:A:H2	1.68	0.41
38:4:16:G:O6	92:4:201:OHX:N3	2.53	0.41
85:5:1120:A:C4	85:5:1139:G:N2	2.88	0.41
85:5:1317:A:C2	85:5:1319:G:C6	3.08	0.41
85:5:943:U:C2	85:5:1432:C:C5	3.07	0.41
85:5:1670:C:H2'	85:5:1671:C:H6	1.85	0.41
58:N2:103:TYR:CZ	85:5:1677:G:OP2	145.30	0.41
63:N7:65:ARG:NH2	85:5:1809:A:OP1	187.17	0.41
85:5:1856:C:H2'	85:5:1857:C:C6	2.55	0.41
85:5:1874:A:C2'	85:5:1875:G:H5'	2.50	0.41
85:5:2805:G:N3	85:5:2967:A:H2	2.17	0.41
85:5:537:A:H2'	85:5:538:G:O4'	2.19	0.41
85:5:735:A:C5	85:5:736:A:N7	2.88	0.41
85:5:806:A:C4	85:5:936:A:N1	2.88	0.41
65:N9:12:GLN:OE1	85:5:954:U:H1'	211.70	0.41
80:6:1607:G:C2	80:6:1608:U:C4	3.08	0.41
80:6:814:A:N7	80:6:816:G:C8	2.87	0.41
29:D7:20:LYS:NZ	80:6:959:U:OP2	347.65	0.41
16:C4:90:ARG:HD2	16:C4:90:ARG:HA	3.42	0.41
17:C5:128:HIS:O	17:C5:130:ARG:HG2	2.20	0.41
17:C5:31:GLU:O	17:C5:34:VAL:HG22	2.19	0.41
17:C5:87:PRO:HA	17:C5:90:ILE:CD1	3.22	0.41
20:C8:136:GLN:NE2	80:6:1544:U:OP1	354.28	0.41
1:2:1514:G:N2	21:C9:48:GLN:HE22	2.18	0.41
22:D0:15:GLN:HB2	22:D0:16:GLN:H	4.56	0.41
26:D4:95:GLY:O	26:D4:96:LEU:HD23	2.20	0.41
27:D5:48:ASP:OD1	27:D5:51:LEU:HD22	2.21	0.41
39:L2:34:TYR:O	39:L2:35:ALA:C	2.87	0.41
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.52	0.41
40:L3:275:ARG:HD2	85:5:3045:G:O2'	237.26	0.41
40:L3:308:MET:HE3	40:L3:370:PHE:O	3.69	0.41
40:L3:328:ILE:HD13	40:L3:328:ILE:HG21	1.67	0.41
41:L4:166:VAL:O	41:L4:170:LYS:HD2	2.20	0.41
41:L4:193:LYS:HA	41:L4:198:ARG:HA	2.17	0.41
41:L4:311:HIS:CE1	41:L4:314:LYS:HA	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:110:LEU:HD23	42:L5:110:LEU:C	5.30	0.41
42:L5:11:ALA:O	42:L5:12:TYR:C	2.58	0.41
42:L5:297:GLN:N	42:L5:297:GLN:CD	4.42	0.41
42:L5:29:ASP:O	42:L5:32:GLN:HB3	2.19	0.41
42:L5:38:THR:O	42:L5:48:LYS:HD3	2.20	0.41
43:L6:18:LEU:H	43:L6:18:LEU:HD12	5.03	0.41
43:L6:7:PRO:HG2	43:L6:10:TYR:CE2	2.55	0.41
44:L7:178:ILE:HG21	44:L7:178:ILE:HD13	1.84	0.41
45:L8:128:LYS:HG3	85:5:120:G:N7	98.99	0.41
46:L9:168:ARG:O	46:L9:169:ASN:HB2	2.89	0.41
46:L9:27:VAL:O	46:L9:33:THR:HA	2.54	0.41
46:L9:7:GLU:HB2	46:L9:56:ALA:HB2	2.34	0.41
47:M0:190:VAL:CG1	47:M0:197:VAL:HG11	3.40	0.41
48:M1:96:PHE:CD1	48:M1:102:PHE:HB3	2.55	0.41
36:1:770:G:OP1	49:M3:171:ARG:HD3	2.19	0.41
49:M3:63:VAL:HG23	49:M3:63:VAL:H	1.55	0.41
50:M4:50:LYS:HD2	50:M4:50:LYS:HA	1.92	0.41
50:M4:94:TRP:O	50:M4:96:ALA:N	3.33	0.41
51:M5:139:HIS:O	51:M5:142:ILE:N	2.51	0.41
51:M5:181:ASN:O	51:M5:182:ASN:C	2.56	0.41
51:M5:83:LYS:HA	51:M5:84:PRO:HD3	2.68	0.41
51:M5:85:THR:OG1	51:M5:86:ASN:N	4.10	0.41
52:M6:47:PHE:CD1	52:M6:47:PHE:C	2.93	0.41
54:M8:185:LYS:HD3	54:M8:186:VAL:HG23	2.02	0.41
54:M8:71:LEU:HA	54:M8:71:LEU:HD23	2.42	0.41
54:M8:96:PHE:CD1	54:M8:97:PRO:O	2.73	0.41
55:M9:20:ARG:H	55:M9:20:ARG:HG2	1.70	0.41
61:N5:43:ALA:O	61:N5:44:PRO:O	2.38	0.41
61:N5:46:TYR:HB3	71:O5:75:TYR:HB3	2.31	0.41
63:N7:72:ILE:H	63:N7:72:ILE:HG13	1.70	0.41
63:N7:38:PHE:CD2	63:N7:76:ASN:ND2	3.01	0.41
67:O1:31:ARG:HH11	67:O1:31:ARG:CB	2.47	0.41
67:O1:44:MET:O	67:O1:46:THR:N	3.90	0.41
68:O2:66:LEU:HA	68:O2:66:LEU:HD23	1.59	0.41
69:O3:102:LEU:HA	69:O3:102:LEU:HD23	1.92	0.41
70:O4:81:CYS:O	70:O4:84:CYS:N	3.55	0.41
73:O7:2:GLY:HA3	73:O7:6:PRO:HG3	2.40	0.41
75:O9:47:THR:HG22	75:O9:48:LYS:N	2.89	0.41
75:O9:6:SER:HB3	75:O9:9:ILE:CG1	4.89	0.41
78:Q2:61:LYS:CB	78:Q2:61:LYS:HZ2	2.22	0.41
79:Q3:44:LYS:HB2	79:Q3:46:THR:OG1	3.07	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:179:ARG:O	2:S0:182:LEU:HB2	3.35	0.41
2:S0:29:VAL:HG13	2:S0:150:ASP:HB3	2.02	0.41
2:S0:35:PRO:C	2:S0:37:VAL:N	2.74	0.41
3:S1:189:ILE:HB	3:S1:190:PRO:HD3	2.20	0.41
4:S2:129:ILE:HG21	4:S2:129:ILE:HD13	1.86	0.41
7:S5:54:LYS:HD2	7:S5:135:ASP:OD2	2.35	0.41
8:S6:38:GLY:HA2	8:S6:41:VAL:HG23	4.14	0.41
8:S6:56:ASN:ND2	8:S6:60:GLY:O	2.53	0.41
1:2:323:A:OP2	10:S8:10:LYS:HA	2.20	0.41
34:SR:288:HIS:NE2	34:SR:306:THR:HG21	2.46	0.41
36:1:1017:C:OP2	36:1:1017:C:C6	2.73	0.41
36:1:1111:U:H5''	49:M3:5:LYS:HE2	2.03	0.41
36:1:1208:U:H4'	36:1:1209:G:OP1	2.20	0.41
36:1:1462:A:C4	36:1:1463:U:C6	3.08	0.41
36:1:1653:G:H2'	36:1:1654:A:C8	2.55	0.41
36:1:1842:A:H4'	36:1:1843:C:OP2	2.19	0.41
36:1:1913:A:C5	36:1:2120:A:C2	3.08	0.41
36:1:2280:A:C2	36:1:2282:U:C4	3.08	0.41
36:1:3011:A:C8	40:L3:13:HIS:NE2	2.88	0.41
36:1:2403:G:P	92:1:3702:OHX:N5	2.94	0.41
36:1:397:A:C6	36:1:400:G:C6	3.08	0.41
36:1:580:C:H2'	36:1:581:U:O4'	2.20	0.41
36:1:596:C:OP1	44:L7:33:ARG:HD2	2.20	0.41
36:1:893:C:O5'	36:1:893:C:H6	2.03	0.41
1:2:1009:A:O2'	1:2:1010:A:OP1	2.29	0.41
1:2:1081:U:H3'	1:2:1082:U:H5'	2.02	0.41
1:2:1267:C:H4'	1:2:1268:U:H5''	2.02	0.41
1:2:1320:A:N6	1:2:1370:G:H22	2.18	0.41
1:2:15:U:H2'	1:2:16:G:O4'	2.20	0.41
1:2:330:G:C5	1:2:331:A:N7	2.88	0.41
1:2:325:G:C6	1:2:344:A:N1	2.88	0.41
1:2:612:U:C5	1:2:613:G:C4	3.09	0.41
1:2:351:C:H5	1:2:631:G:H5''	1.85	0.41
37:3:12:U:H6	37:3:110:G:H21	1.66	0.41
38:4:81:U:O2'	38:4:82:U:H5'	2.20	0.41
85:5:1317:A:C5	85:5:1319:G:C8	3.08	0.41
85:5:1504:A:N6	85:5:1505:C:N4	2.68	0.41
85:5:1680:G:H2'	85:5:1681:U:H6	1.85	0.41
85:5:1858:A:O2'	85:5:1859:A:OP2	2.37	0.41
85:5:1861:G:C5	85:5:1862:U:C5	3.08	0.41
85:5:1863:G:N1	85:5:1866:C:OP2	2.47	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2117:A:H3'	85:5:2118:C:H6	1.84	0.41
85:5:2194:G:H1'	85:5:2274:U:O2	2.20	0.41
85:5:2277:C:H5'	85:5:2317:A:H4'	2.02	0.41
85:5:2770:G:C6	85:5:2771:U:O4	2.73	0.41
85:5:2884:C:C2	85:5:2939:G:N1	2.88	0.41
85:5:2985:C:H2'	85:5:2986:U:C6	2.55	0.41
85:5:3062:G:C2	85:5:3063:C:C6	3.08	0.41
85:5:3103:A:N6	85:5:3104:U:C4	2.88	0.41
41:L4:196:ASN:ND2	85:5:337:G:OP2	91.62	0.41
92:5:3433:OHX:N4	92:5:3671:OHX:N5	2.67	0.41
85:5:601:U:H2'	85:5:602:A:O4'	2.20	0.41
85:5:651:G:H2'	85:5:652:G:C8	2.55	0.41
30:D8:22:ARG:HG3	80:6:1619:C:C2	341.67	0.41
80:6:217:A:N3	80:6:217:A:H2'	2.36	0.41
80:6:252:U:H2'	80:6:253:A:C8	2.55	0.41
80:6:447:U:O4	80:6:448:C:N4	2.54	0.41
80:6:879:G:H2'	80:6:880:C:H6	1.84	0.41
37:7:116:C:C4	37:7:117:A:N7	2.88	0.41
37:7:75:G:H5''	37:7:76:A:OP2	2.20	0.41
38:8:65:A:H2'	38:8:66:A:O4'	2.20	0.41
12:C0:2:LEU:HB3	12:C0:3:MET:H	4.35	0.41
12:C0:87:UNK:O	12:C0:89:UNK:N	4.44	0.41
15:C3:21:ASN:HB2	15:C3:22:ALA:H	1.71	0.41
16:C4:17:ALA:HA	16:C4:30:VAL:HG22	4.34	0.41
17:C5:11:VAL:HG22	17:C5:11:VAL:O	3.54	0.41
18:C6:128:LYS:HG2	18:C6:128:LYS:H	1.50	0.41
18:C6:99:GLU:OE1	18:C6:103:ASN:ND2	5.65	0.41
23:D1:15:ARG:HB3	23:D1:16:LYS:H	1.75	0.41
24:D2:125:ILE:HG21	24:D2:125:ILE:HD13	1.81	0.41
25:D3:74:VAL:HG21	25:D3:104:LEU:HD21	2.94	0.41
25:D3:52:ILE:O	25:D3:74:VAL:HA	2.20	0.41
28:D6:41:ILE:HD12	28:D6:68:TYR:CD1	5.64	0.41
39:L2:148:VAL:O	39:L2:155:LYS:HA	2.20	0.41
39:L2:174:ARG:HA	79:Q3:69:TYR:CE2	3.08	0.41
39:L2:230:VAL:HG11	85:5:2424:A:C2	182.04	0.41
40:L3:103:THR:HG22	40:L3:104:THR:H	1.86	0.41
40:L3:239:PRO:HD2	40:L3:242:THR:HG23	2.76	0.41
41:L4:25:VAL:O	41:L4:127:ALA:HB2	2.60	0.41
41:L4:150:LEU:HD21	41:L4:172:VAL:HG22	2.02	0.41
41:L4:185:LYS:HE2	41:L4:199:TRP:HB3	4.30	0.41
41:L4:195:ARG:NH2	85:5:341:G:N7	109.79	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:185:LYS:HE2	41:L4:201:GLN:OE1	2.21	0.41
41:L4:343:LYS:HA	85:5:515:C:O3'	303.97	0.41
42:L5:124:GLU:O	42:L5:126:GLU:N	2.53	0.41
42:L5:151:GLN:HG3	42:L5:159:VAL:CG2	2.50	0.41
42:L5:227:LEU:HD12	42:L5:227:LEU:HA	3.00	0.41
37:3:121:U:C2	42:L5:268:GLU:HB3	2.55	0.41
42:L5:284:ALA:O	42:L5:287:ALA:N	2.53	0.41
42:L5:8:LYS:HB3	42:L5:12:TYR:CD2	4.80	0.41
44:L7:137:GLY:HA3	44:L7:236:ILE:HB	2.08	0.41
46:L9:101:VAL:HG22	46:L9:114:VAL:HG22	2.97	0.41
46:L9:147:SER:HB2	46:L9:187:ILE:HD11	2.02	0.41
46:L9:173:ARG:HH11	46:L9:173:ARG:HD3	1.56	0.41
46:L9:187:ILE:HG21	46:L9:187:ILE:HD13	2.06	0.41
47:M0:171:TRP:HE3	47:M0:178:ARG:HB3	1.84	0.41
47:M0:52:LEU:HA	47:M0:52:LEU:HD23	1.95	0.41
49:M3:101:ARG:CG	49:M3:102:GLN:N	2.84	0.41
49:M3:126:PHE:CD2	49:M3:133:PRO:HD2	2.56	0.41
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	2.00	0.41
50:M4:48:GLY:O	50:M4:49:PRO:C	2.78	0.41
51:M5:99:ARG:O	51:M5:102:ALA:HB3	2.20	0.41
51:M5:83:LYS:HA	51:M5:84:PRO:HD2	1.86	0.41
57:N1:120:LYS:HE3	57:N1:120:LYS:HB2	1.89	0.41
57:N1:73:GLY:HA2	57:N1:89:LEU:O	2.21	0.41
59:N3:120:LYS:O	59:N3:123:ALA:N	2.53	0.41
63:N7:109:GLU:CD	63:N7:112:LYS:HD2	2.40	0.41
68:O2:62:LYS:NZ	85:5:590:G:H5''	202.54	0.41
69:O3:58:GLU:HG3	69:O3:62:SER:O	2.20	0.41
71:O5:12:LYS:HB2	71:O5:17:LEU:HG	2.02	0.41
73:O7:21:ARG:CZ	73:O7:39:TYR:HB2	2.50	0.41
36:1:1613:A:P	74:O8:46:ARG:NH2	2.94	0.41
78:Q2:10:THR:HA	78:Q2:20:HIS:HD2	3.26	0.41
6:S4:212:ASP:OD2	6:S4:216:ASN:HB2	2.20	0.41
6:S4:244:ILE:O	6:S4:245:LYS:HB3	2.48	0.41
6:S4:71:LYS:HA	6:S4:76:VAL:O	2.21	0.41
8:S6:25:ARG:HA	8:S6:28:PHE:CD1	2.55	0.41
9:S7:126:LEU:HA	9:S7:126:LEU:HD12	2.57	0.41
9:S7:20:VAL:O	9:S7:23:ALA:HB3	2.47	0.41
10:S8:107:THR:OG1	10:S8:108:PRO:HD3	2.21	0.41
36:1:1195:A:H1'	36:1:1319:G:H4'	2.03	0.41
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.20	0.41
36:1:1696:A:H2'	36:1:1697:A:C8	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1815:U:HO2'	36:1:1816:A:P	2.44	0.41
36:1:1933:A:N7	36:1:1934:G:C8	2.89	0.41
36:1:2443:A:N6	36:1:2504:U:C4	2.88	0.41
36:1:2623:G:C2	47:M0:116:ARG:NH1	2.88	0.41
36:1:2630:C:O4'	36:1:2758:A:H1'	2.19	0.41
36:1:3282:U:H2'	36:1:3283:U:C6	2.56	0.41
36:1:3328:G:C2	36:1:3329:U:C1'	3.04	0.41
36:1:578:A:H2'	41:L4:334:PHE:CD2	2.56	0.41
1:2:1646:G:C2	1:2:1647:C:C2	3.08	0.41
1:2:142:G:H22	1:2:173:A:H2	1.67	0.41
37:3:8:G:C6	37:3:9:C:N4	2.88	0.41
85:5:119:U:H4'	85:5:120:G:H3'	2.02	0.41
85:5:1208:U:H6	85:5:3115:C:H42	1.69	0.41
85:5:1209:G:C2	85:5:1297:C:O2	2.74	0.41
85:5:1235:U:C4'	85:5:1236:G:H5'	2.51	0.41
85:5:1387:G:C2	85:5:1388:U:C6	3.08	0.41
51:M5:105:ARG:NH1	85:5:1545:A:C5	133.43	0.41
85:5:1618:G:C2	85:5:1619:A:H1'	2.56	0.41
39:L2:8:GLN:O	85:5:2164:A:H5'	177.49	0.41
85:5:2607:G:C4	85:5:2608:G:C8	3.09	0.41
85:5:284:A:O2'	85:5:285:A:N1	2.54	0.41
85:5:2895:G:N3	85:5:2895:G:H2'	2.35	0.41
85:5:2890:A:H61	85:5:2913:C:H42	1.66	0.41
85:5:2933:A:N6	85:5:2934:A:N1	2.68	0.41
85:5:303:G:C2	85:5:2778:G:C5	3.08	0.41
85:5:3288:G:C2	85:5:3289:G:H1'	2.55	0.41
62:N6:89:LYS:NZ	85:5:375:A:O5'	76.77	0.41
85:5:543:C:H42	85:5:548:G:H1	1.66	0.41
85:5:737:G:N1	85:5:738:A:C5	2.89	0.41
68:O2:55:ILE:N	85:5:947:G:OP1	188.75	0.41
80:6:1045:C:N4	80:6:1074:G:C6	2.88	0.41
80:6:1085:G:H2'	80:6:1087:A:OP2	2.21	0.41
80:6:116:U:H2'	80:6:117:U:C6	2.55	0.41
80:6:1200:G:H4'	80:6:1201:G:C5'	2.51	0.41
80:6:1673:G:C6	80:6:1674:C:N4	2.88	0.41
80:6:353:A:OP2	92:6:1906:OHX:N6	2.53	0.41
80:6:328:A:H2'	80:6:329:G:O4'	2.20	0.41
80:6:675:U:H2'	80:6:676:G:H8	1.84	0.41
80:6:743:U:C2	80:6:809:A:N3	2.88	0.41
80:6:86:A:C2	80:6:87:C:C5	3.09	0.41
16:C4:31:THR:CB	16:C4:38:THR:HA	2.49	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:110:ARG:O	20:C8:111:ASP:C	2.57	0.41
21:C9:113:ILE:HG23	21:C9:128:GLY:HA2	2.02	0.41
23:D1:66:ASP:O	23:D1:69:LEU:N	3.27	0.41
23:D1:69:LEU:O	23:D1:73:ALA:N	2.64	0.41
25:D3:133:LEU:HD23	25:D3:133:LEU:HA	2.76	0.41
25:D3:17:VAL:HG13	25:D3:18:HIS:N	4.21	0.41
6:S4:64:ILE:CG1	26:D4:18:LEU:HG	2.50	0.41
39:L2:205:ASN:C	39:L2:207:VAL:H	2.64	0.41
41:L4:323:VAL:HG13	41:L4:326:ARG:NH2	3.41	0.41
44:L7:44:ILE:CD1	44:L7:180:SER:HB3	2.41	0.41
44:L7:77:VAL:HG13	57:N1:139:ARG:HB2	5.96	0.41
45:L8:200:LEU:HA	45:L8:200:LEU:HD23	1.58	0.41
46:L9:9:GLN:OE1	46:L9:54:LYS:HE2	7.92	0.41
47:M0:171:TRP:CG	47:M0:181:TYR:HD2	2.37	0.41
51:M5:150:TRP:CZ3	51:M5:151:ILE:HG12	2.55	0.41
51:M5:181:ASN:HA	51:M5:184:LYS:HE3	2.02	0.41
51:M5:47:LYS:O	51:M5:50:ARG:N	2.51	0.41
55:M9:127:SER:HA	55:M9:132:PHE:HD2	1.85	0.41
55:M9:44:LEU:HA	55:M9:47:ASN:HB2	5.54	0.41
55:M9:64:ARG:HH11	55:M9:64:ARG:HD2	2.18	0.41
57:N1:47:SER:H	57:N1:47:SER:HG	3.04	0.41
60:N4:13:ILE:HG12	60:N4:32:GLN:HA	2.01	0.41
61:N5:67:ILE:CD1	61:N5:115:ARG:NH2	2.83	0.41
61:N5:135:ILE:O	61:N5:135:ILE:HD13	2.21	0.41
61:N5:40:LEU:HA	61:N5:40:LEU:HD12	1.68	0.41
62:N6:12:ARG:HD3	85:5:215:G:C5'	86.76	0.41
64:N8:21:ARG:NH1	85:5:1369:A:OP1	182.68	0.41
64:N8:9:ARG:HB3	64:N8:9:ARG:HE	1.66	0.41
68:O2:85:LEU:HB2	68:O2:117:ILE:CD1	2.50	0.41
69:O3:88:ASN:OD1	92:O3:201:OHX:N2	2.53	0.41
74:O8:73:LEU:O	74:O8:75:VAL:HG23	2.20	0.41
75:O9:21:ARG:NH1	75:O9:24:PRO:HG3	2.35	0.41
46:L9:93:VAL:HB	76:Q0:82:LEU:HD13	2.03	0.41
78:Q2:38:GLN:NE2	78:Q2:38:GLN:HA	2.61	0.41
2:S0:163:ASN:OD1	2:S0:165:ARG:HB2	2.28	0.41
2:S0:53:THR:HA	2:S0:161:PRO:HD2	2.09	0.41
2:S0:56:LYS:HE3	2:S0:158:VAL:HG23	3.77	0.41
3:S1:195:LYS:HA	3:S1:195:LYS:HD3	2.87	0.41
3:S1:196:GLU:HA	3:S1:199:ASN:HD22	1.85	0.41
1:2:1421:G:O4'	5:S3:180:GLY:HA2	2.20	0.41
5:S3:175:VAL:HG13	5:S3:182:LEU:HD13	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:43:PRO:O	6:S4:46:VAL:N	2.52	0.41
8:S6:146:GLY:O	8:S6:147:LEU:HD23	2.21	0.41
8:S6:202:ARG:O	8:S6:205:ALA:HB3	2.20	0.41
8:S6:57:ASP:O	8:S6:60:GLY:N	2.63	0.41
9:S7:62:VAL:HG11	9:S7:67:LEU:HG	2.02	0.41
10:S8:147:ALA:C	10:S8:149:SER:H	3.02	0.41
10:S8:87:ASN:O	10:S8:90:LEU:HD12	2.34	0.41
10:S8:8:ARG:NH2	10:S8:21:PHE:HB3	2.36	0.41
11:S9:161:THR:HG22	11:S9:162:SER:H	1.86	0.41
36:1:1047:A:N1	36:1:1048:A:C6	2.88	0.41
36:1:1149:G:C6	36:1:1155:C:N4	2.88	0.41
36:1:1343:A:H2'	36:1:1344:G:C8	2.55	0.41
36:1:1953:G:N2	36:1:2093:A:N7	2.67	0.41
36:1:1449:A:N3	36:1:2356:A:C6	2.89	0.41
36:1:2674:A:C6	36:1:2675:C:C4	3.07	0.41
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.32	0.41
36:1:2714:G:O6	36:1:2741:C:N3	2.54	0.41
36:1:275:U:O4	92:1:3525:OHX:N2	2.53	0.41
36:1:2766:U:C2	36:1:2767:U:C6	3.09	0.41
36:1:938:C:O2'	36:1:2814:G:O2'	2.33	0.41
36:1:2833:A:C5	36:1:2856:G:C2	3.08	0.41
36:1:2987:A:O5'	36:1:2987:A:H8	2.02	0.41
36:1:3379:C:OP2	92:1:3443:OHX:N2	2.53	0.41
92:1:3604:OHX:N4	92:1:3651:OHX:N5	2.68	0.41
92:1:3600:OHX:N3	92:1:3648:OHX:N6	2.69	0.41
92:1:3511:OHX:N3	92:1:3690:OHX:N6	2.69	0.41
36:1:532:A:C8	36:1:555:U:C4	3.09	0.41
36:1:574:U:H2'	36:1:575:G:C8	2.56	0.41
36:1:62:A:C2'	36:1:63:A:O5'	2.69	0.41
36:1:73:C:H4'	36:1:74:G:OP2	2.20	0.41
36:1:849:C:H2'	36:1:850:U:C6	2.55	0.41
36:1:996:A:H2'	36:1:997:A:O4'	2.19	0.41
1:2:1056:G:H4'	15:C3:10:GLY:HA2	2.01	0.41
1:2:1146:A:N6	1:2:1147:G:C6	2.88	0.41
1:2:1280:G:N2	1:2:1282:G:H3'	2.36	0.41
1:2:144:U:C2	1:2:145:A:C8	3.08	0.41
1:2:1464:C:HO2'	1:2:1465:C:P	2.42	0.41
1:2:1519:G:N1	1:2:1521:U:O2	2.53	0.41
1:2:1640:U:C4	92:2:1966:OHX:N2	2.89	0.41
1:2:265:A:C2	1:2:267:U:N3	2.89	0.41
1:2:450:U:C2	1:2:451:A:N7	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:545:A:H1'	1:2:546:U:O4'	2.20	0.41
37:3:36:C:O2'	37:3:37:G:H5'	2.20	0.41
85:5:1018:G:C2	85:5:1019:G:H1'	2.55	0.41
85:5:1050:U:O2	85:5:1051:U:C5	2.73	0.41
85:5:1265:U:C2	85:5:1277:C:O2	2.73	0.41
85:5:1346:G:C6	85:5:1347:U:C4	3.08	0.41
85:5:1480:G:N2	85:5:1872:C:C5	2.88	0.41
85:5:1525:G:H5'	85:5:1830:G:OP2	2.21	0.41
85:5:1544:G:C2	85:5:1550:C:C2	3.08	0.41
85:5:1902:G:N3	85:5:2336:U:O2'	2.46	0.41
85:5:2249:G:C2	85:5:2250:G:C4	3.08	0.41
39:L2:230:VAL:HG21	85:5:2424:A:N1	184.09	0.41
85:5:2828:G:N2	85:5:2863:G:H1'	2.35	0.41
85:5:3102:G:N2	85:5:3133:C:O2	2.54	0.41
85:5:3168:A:H2'	85:5:3169:U:O4'	2.21	0.41
85:5:3005:A:OP2	92:5:3605:OHX:N4	2.52	0.41
49:M3:35:ARG:NH1	85:5:685:G:OP1	81.84	0.41
85:5:872:U:H2'	85:5:873:C:C6	2.56	0.41
80:6:1166:A:H2'	80:6:1167:G:O4'	2.19	0.41
80:6:1354:G:H3'	80:6:1355:C:C6	2.55	0.41
80:6:143:G:C5	80:6:173:A:C2	3.08	0.41
80:6:515:A:OP2	92:6:1956:OHX:N6	2.53	0.41
80:6:386:G:O6	80:6:387:A:N6	2.53	0.41
80:6:595:G:C6	80:6:596:C:C4	3.08	0.41
80:6:807:A:C6	80:6:808:U:N3	2.88	0.41
80:6:822:U:H2'	80:6:823:G:O4'	2.20	0.41
38:8:81:U:N3	38:8:83:C:C6	2.88	0.41
12:C0:55:VAL:HG23	12:C0:67:THR:O	2.50	0.41
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	2.03	0.41
15:C3:151:ASN:C	92:C3:201:OHX:N3	2.74	0.41
17:C5:127:ARG:CZ	35:SM:66:ALA:HB2	5.43	0.41
22:D0:47:GLN:HE21	22:D0:48:HIS:CE1	9.51	0.41
24:D2:6:VAL:C	24:D2:8:ALA:N	2.96	0.41
1:2:523:G:OP1	26:D4:59:GLY:O	2.38	0.41
28:D6:2:PRO:HB2	28:D6:3:LYS:H	1.60	0.41
1:2:584:C:H4'	32:E0:15:LYS:HB2	2.01	0.41
33:E1:127:GLY:C	33:E1:129:GLY:H	2.23	0.41
39:L2:137:ILE:HG12	39:L2:147:ARG:HG3	6.03	0.41
39:L2:77:ILE:HD13	39:L2:77:ILE:HG21	1.87	0.41
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.47	0.41
40:L3:227:GLU:CG	40:L3:270:ARG:HE	3.14	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:286:GLY:O	40:L3:320:ASP:HB3	2.19	0.41
42:L5:38:THR:HG22	57:N1:30:TYR:HB3	2.02	0.41
42:L5:39:GLN:O	42:L5:40:HIS:C	2.96	0.41
43:L6:152:THR:HA	43:L6:153:PRO:HD3	2.09	0.41
44:L7:128:LYS:O	44:L7:130:ILE:N	3.38	0.41
44:L7:222:HIS:ND1	44:L7:223:PHE:N	2.84	0.41
45:L8:222:PHE:O	45:L8:223:ALA:HB2	4.63	0.41
45:L8:24:ASN:O	45:L8:25:PRO:C	2.86	0.41
47:M0:79:VAL:H	47:M0:79:VAL:HG23	3.17	0.41
48:M1:79:ILE:HG21	48:M1:79:ILE:HD13	2.05	0.41
48:M1:7:ASN:N	48:M1:8:PRO:HD3	3.17	0.41
49:M3:127:PRO:HG2	49:M3:131:LYS:HD2	2.03	0.41
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.45	0.41
51:M5:91:GLU:H	51:M5:91:GLU:HG3	3.03	0.41
52:M6:110:PRO:O	52:M6:113:ASP:N	4.49	0.41
53:M7:52:LEU:HD22	53:M7:88:VAL:HG11	3.19	0.41
54:M8:140:LEU:HD23	54:M8:140:LEU:HA	1.75	0.41
54:M8:159:LYS:HA	54:M8:159:LYS:HD3	3.89	0.41
54:M8:30:VAL:O	54:M8:31:LYS:C	2.58	0.41
55:M9:92:GLN:HG2	55:M9:96:ILE:CD1	2.51	0.41
55:M9:96:ILE:O	55:M9:97:ARG:C	2.69	0.41
57:N1:20:ARG:HD3	57:N1:20:ARG:HH11	1.70	0.41
61:N5:106:ASP:HB3	61:N5:127:THR:HG21	2.15	0.41
62:N6:36:SER:HB2	62:N6:37:LYS:NZ	4.29	0.41
36:1:228:U:C5'	62:N6:8:VAL:HG11	2.48	0.41
54:M8:175:ALA:H	64:N8:51:GLY:HA2	1.86	0.41
65:N9:54:LEU:HD23	65:N9:54:LEU:HA	1.73	0.41
67:O1:13:THR:HG22	67:O1:72:ARG:HH11	1.85	0.41
69:O3:29:LEU:HD23	69:O3:29:LEU:HA	1.78	0.41
70:O4:71:THR:CG2	70:O4:77:GLY:HA3	2.51	0.41
73:O7:4:GLY:O	73:O7:5:THR:C	2.72	0.41
78:Q2:17:CYS:SG	78:Q2:21:THR:HG21	3.07	0.41
78:Q2:58:PHE:HD1	78:Q2:59:HIS:H	1.68	0.41
78:Q2:60:LYS:HG2	78:Q2:60:LYS:H	2.48	0.41
79:Q3:13:LYS:HG3	79:Q3:14:TYR:CD1	3.14	0.41
2:S0:26:ALA:HB3	2:S0:149:LEU:HB2	2.01	0.41
2:S0:180:GLU:N	2:S0:180:GLU:OE1	4.30	0.41
2:S0:188:LEU:HD23	2:S0:188:LEU:HA	2.97	0.41
2:S0:34:GLU:N	2:S0:35:PRO:HD2	3.30	0.41
4:S2:218:ILE:HG13	4:S2:218:ILE:H	1.71	0.41
4:S2:140:ARG:HH21	4:S2:229:LEU:HD22	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:92:GLN:CD	5:S3:92:GLN:H	2.22	0.41
6:S4:114:ILE:HD12	6:S4:118:GLU:HB3	2.03	0.41
6:S4:45:ILE:HD13	6:S4:45:ILE:HG21	2.21	0.41
6:S4:49:ARG:NH1	6:S4:50:ASN:OD1	2.53	0.41
7:S5:203:LYS:HD2	7:S5:203:LYS:HA	1.70	0.41
35:SM:54:PRO:HB2	35:SM:59:GLY:CA	2.50	0.41
34:SR:112:SER:CB	34:SR:153:GLN:HA	2.64	0.41
34:SR:52:GLN:HG2	34:SR:53:LYS:N	2.36	0.41
36:1:999:G:N3	36:1:1002:A:N6	2.68	0.41
36:1:1010:G:C6	36:1:1011:A:C5	3.08	0.41
36:1:1404:G:N7	92:1:3568:OHX:N3	2.68	0.41
36:1:142:C:H2'	36:1:143:G:O4'	2.20	0.41
36:1:1488:G:H2'	36:1:1489:A:H8	1.85	0.41
36:1:1680:G:C5	36:1:1681:U:C5	3.09	0.41
36:1:1795:U:H2'	39:L2:50:HIS:CD2	2.56	0.41
36:1:1899:G:H5'	59:N3:21:ALA:HA	2.02	0.41
36:1:2362:C:H2'	36:1:2363:A:O4'	2.21	0.41
36:1:269:G:P	51:M5:44:ARG:HH22	2.44	0.41
36:1:2699:G:C5'	36:1:2700:G:OP2	2.69	0.41
36:1:404:G:H2'	36:1:405:U:O4'	2.20	0.41
36:1:564:G:H2'	36:1:565:U:H6	1.85	0.41
36:1:595:G:N1	36:1:609:G:H5''	2.36	0.41
36:1:892:U:H2'	36:1:893:C:O4'	2.21	0.41
36:1:987:U:H2'	36:1:988:U:H6	1.84	0.41
1:2:1123:G:N7	92:2:1944:OHX:N2	2.69	0.41
1:2:1137:G:N7	92:2:2013:OHX:N1	2.68	0.41
1:2:1241:U:H5'	12:C0:1:MET:O	2.20	0.41
1:2:1251:G:H5''	1:2:1252:U:OP1	2.20	0.41
1:2:1768:U:H2'	1:2:1769:G:C8	2.56	0.41
1:2:1794:G:H22	1:2:1799:C:H42	1.68	0.41
1:2:253:A:H2'	1:2:254:A:H8	1.82	0.41
1:2:259:U:O2'	1:2:260:U:H5'	2.20	0.41
1:2:539:G:OP2	1:2:539:G:C8	2.69	0.41
1:2:609:U:C5	1:2:1091:G:C8	3.09	0.41
1:2:848:A:C4	1:2:849:G:C8	3.08	0.41
1:2:869:U:H2'	1:2:870:A:O4'	2.21	0.41
1:2:968:G:C2	1:2:1000:U:C2	3.09	0.41
38:4:100:U:H5''	38:4:101:U:OP2	2.21	0.41
85:5:1088:U:H2'	85:5:1089:G:O4'	2.20	0.41
85:5:1204:A:H2'	85:5:1205:A:H5'	2.03	0.41
85:5:1658:G:C5	85:5:1659:U:C5	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:64:LYS:NZ	85:5:1812:G:N7	186.99	0.41
85:5:1946:A:N6	85:5:1947:G:O6	2.53	0.41
85:5:221:A:H4'	85:5:222:A:OP1	2.21	0.41
85:5:2606:G:N3	85:5:2606:G:H2'	2.35	0.41
85:5:302:U:O2	85:5:302:U:H2'	2.21	0.41
85:5:303:G:C2	85:5:2778:G:N7	2.89	0.41
85:5:3264:G:N2	85:5:3265:C:H1'	2.35	0.41
92:5:3531:OHX:N3	92:5:3645:OHX:N5	2.69	0.41
85:5:590:G:N7	85:5:591:G:O6	2.53	0.41
41:L4:73:ARG:NH1	85:5:805:G:H1'	164.53	0.41
85:5:977:C:O2'	85:5:978:G:H5'	2.20	0.41
80:6:1207:C:C2	80:6:1208:A:C6	3.08	0.41
80:6:145:A:C6	80:6:146:U:C4	3.08	0.41
80:6:143:G:C6	80:6:173:A:C2	3.08	0.41
80:6:330:G:H2'	80:6:331:A:H8	1.86	0.41
80:6:39:A:C4	80:6:467:G:N2	2.87	0.41
3:S1:158:SER:HB2	80:6:875:G:OP2	314.04	0.41
80:6:87:C:C4	80:6:88:U:C5	3.08	0.41
38:8:65:A:N6	38:8:66:A:C5	2.88	0.41
13:C1:5:LEU:H	13:C1:5:LEU:HD13	5.36	0.41
14:C2:41:LEU:O	14:C2:43:ARG:HD3	2.63	0.41
14:C2:68:GLU:O	14:C2:70:ASN:N	2.53	0.41
15:C3:102:LEU:HD21	15:C3:111:ALA:HB3	3.65	0.41
18:C6:66:ARG:HH21	18:C6:68:ARG:HD3	1.85	0.41
1:2:1592:U:H5''	18:C6:75:VAL:HG23	2.01	0.41
19:C7:83:GLN:O	19:C7:84:TYR:HB2	2.21	0.41
20:C8:26:ILE:HD11	20:C8:31:ALA:CA	2.50	0.41
22:D0:24:ILE:HG12	22:D0:116:VAL:HG13	2.03	0.41
22:D0:24:ILE:HD11	22:D0:103:ILE:HG23	4.78	0.41
24:D2:53:ILE:HD13	24:D2:53:ILE:HG21	2.23	0.41
25:D3:17:VAL:HG22	25:D3:20:ARG:NH2	2.36	0.41
26:D4:99:LYS:O	26:D4:101:GLU:N	2.53	0.41
26:D4:127:LYS:O	26:D4:130:ALA:HB3	2.19	0.41
29:D7:31:TYR:CB	29:D7:81:ARG:HD3	2.94	0.41
36:L1:2157:G:C6	39:L2:151:PRO:HD2	2.56	0.41
39:L2:75:ILE:HD13	39:L2:75:ILE:HG21	1.76	0.41
39:L2:59:ALA:HB2	39:L2:78:ALA:HB2	2.02	0.41
40:L3:372:THR:CG2	40:L3:373:PRO:HD2	2.51	0.41
40:L3:92:TYR:HA	40:L3:100:ARG:O	2.47	0.41
41:L4:150:LEU:HD12	41:L4:247:PHE:CE1	3.24	0.41
42:L5:211:LEU:HA	42:L5:211:LEU:HD23	2.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:85:ARG:HD3	42:L5:86:TYR:OH	2.21	0.41
43:L6:133:GLU:O	43:L6:137:ASP:HB2	2.50	0.41
43:L6:171:PRO:O	43:L6:173:MET:N	2.61	0.41
43:L6:4:GLN:HB3	68:O2:75:LEU:HB2	2.02	0.41
43:L6:51:ARG:NE	43:L6:158:TYR:CE1	3.72	0.41
44:L7:234:GLU:C	44:L7:236:ILE:H	2.24	0.41
47:M0:148:VAL:HG12	47:M0:152:LEU:HG	2.95	0.41
47:M0:175:ASN:O	47:M0:176:LEU:CB	3.97	0.41
48:M1:96:PHE:HB3	48:M1:156:LYS:HG3	2.41	0.41
48:M1:29:ARG:CA	48:M1:32:ARG:NH2	3.28	0.41
49:M3:101:ARG:HH22	49:M3:112:ASN:ND2	2.56	0.41
49:M3:51:LEU:HA	49:M3:51:LEU:HD23	1.89	0.41
50:M4:115:PHE:O	50:M4:118:PHE:HB3	2.38	0.41
50:M4:99:TRP:O	50:M4:103:ILE:HG13	2.21	0.41
51:M5:47:LYS:O	51:M5:50:ARG:HB3	2.21	0.41
51:M5:84:PRO:HD2	85:5:44:U:OP1	166.65	0.41
52:M6:28:LEU:HD21	52:M6:88:VAL:HG13	2.06	0.41
53:M7:176:ILE:H	53:M7:176:ILE:HG13	1.74	0.41
54:M8:52:LEU:CD2	54:M8:104:LEU:HD21	3.40	0.41
57:N1:80:VAL:O	57:N1:80:VAL:HG22	2.55	0.41
58:N2:104:ARG:O	58:N2:105:LEU:HD12	2.21	0.41
36:1:2294:U:H5	59:N3:71:LYS:HZ3	1.65	0.41
61:N5:96:LYS:HG3	61:N5:107:VAL:HB	2.25	0.41
61:N5:57:LEU:HG	61:N5:62:VAL:HG22	2.02	0.41
63:N7:54:THR:H	63:N7:57:HIS:CD2	2.76	0.41
64:N8:25:HIS:ND1	85:5:661:G:N7	160.83	0.41
64:N8:81:LEU:HD23	64:N8:81:LEU:HA	2.19	0.41
65:N9:5:LYS:HG3	65:N9:6:ASN:H	2.80	0.41
68:O2:50:ILE:HG12	68:O2:50:ILE:O	3.13	0.41
69:O3:90:PRO:C	69:O3:92:LYS:N	2.69	0.41
72:O6:45:ARG:O	72:O6:45:ARG:HD3	2.73	0.41
73:O7:12:HIS:O	73:O7:12:HIS:CD2	2.96	0.41
79:Q3:4:ARG:NH2	85:5:838:G:O6	237.02	0.41
79:Q3:8:VAL:HG22	85:5:1927:G:OP1	244.97	0.41
2:S0:9:LEU:HD13	2:S0:10:THR:N	2.34	0.41
2:S0:129:ASP:O	2:S0:130:ALA:C	2.57	0.41
2:S0:77:SER:HB2	2:S0:124:THR:CG2	2.51	0.41
4:S2:161:LYS:NZ	4:S2:164:SER:HA	2.36	0.41
4:S2:40:LYS:HE3	4:S2:40:LYS:HB2	4.56	0.41
5:S3:157:LEU:N	5:S3:157:LEU:HD12	2.35	0.41
6:S4:38:LEU:HA	6:S4:38:LEU:HD22	1.93	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1149:A:H5''	7:S5:101:GLY:H	1.86	0.41
7:S5:109:LYS:HE2	80:6:1474:G:OP2	362.95	0.41
1:2:386:G:H5''	10:S8:23:LYS:HE2	2.02	0.41
19:C7:33:ARG:NH2	34:SR:109:ASP:OD2	2.40	0.41
34:SR:258:THR:O	34:SR:275:ARG:NH1	3.43	0.41
36:1:1101:G:H1'	44:L7:105:LEU:HD23	2.02	0.41
36:1:1438:U:C4	36:1:1439:U:O4	2.73	0.41
36:1:1658:G:C4	36:1:1796:G:C5	3.09	0.41
36:1:1661:G:N2	36:1:1662:G:C2	2.89	0.41
36:1:2093:A:C6	36:1:2094:C:C4	3.08	0.41
36:1:2764:C:H2'	36:1:2765:C:O4'	2.21	0.41
36:1:2902:A:P	46:L9:170:LYS:HE3	2.60	0.41
36:1:42:C:N3	36:1:92:G:N2	2.66	0.41
36:1:543:C:N4	36:1:548:G:H1	2.17	0.41
36:1:564:G:H2'	36:1:565:U:C6	2.55	0.41
36:1:425:G:C5	36:1:635:G:C2	3.09	0.41
36:1:8:C:H1'	38:4:152:G:N2	2.35	0.41
1:2:1337:G:C5	1:2:1338:C:C5	3.08	0.41
1:2:1380:U:O4	1:2:1382:C:C2	2.74	0.41
1:2:1388:G:H2'	1:2:1389:A:H8	1.82	0.41
1:2:1402:G:O3'	31:D9:54:LYS:HE3	2.21	0.41
1:2:1435:U:N3	1:2:1436:G:N7	2.68	0.41
1:2:153:G:H2'	1:2:154:G:C8	2.56	0.41
1:2:1725:U:C4	1:2:1726:U:C4	3.09	0.41
1:2:1741:U:H2'	1:2:1742:C:C6	2.56	0.41
1:2:39:A:C4	1:2:467:G:N2	2.88	0.41
1:2:524:U:O2	1:2:527:A:H8	2.04	0.41
1:2:564:G:C2	1:2:578:U:O4'	2.74	0.41
1:2:717:A:H4'	1:2:718:C:H5'	2.02	0.41
1:2:873:C:H2'	1:2:874:A:H8	1.86	0.41
38:4:46:G:N2	38:4:58:G:C4	2.89	0.41
85:5:1081:U:HO2'	85:5:1082:U:H5''	1.86	0.41
85:5:1214:U:O2'	85:5:1215:U:H5'	2.20	0.41
85:5:1645:U:H6	85:5:1645:U:H5'	1.85	0.41
85:5:170:G:H2'	85:5:170:G:N3	2.36	0.41
85:5:1773:C:N4	85:5:1774:C:H41	2.19	0.41
85:5:1658:G:C4	85:5:1796:G:C5	3.09	0.41
85:5:1817:G:H1'	85:5:1818:U:H5'	2.02	0.41
85:5:1861:G:C5	85:5:1862:U:C4	3.09	0.41
85:5:1940:G:H2'	85:5:1941:C:O4'	2.20	0.41
53:M7:139:TYR:CD2	85:5:2355:G:H4'	146.23	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2665:U:C2	85:5:2706:G:N2	2.88	0.41
85:5:2890:A:N6	85:5:2913:C:H42	2.18	0.41
85:5:29:C:H4'	85:5:62:A:H4'	2.02	0.41
85:5:3053:G:C5	85:5:3054:U:C4	3.08	0.41
85:5:3071:U:H2'	85:5:3072:C:O4'	2.21	0.41
85:5:3223:A:C6	85:5:3224:G:C5	3.09	0.41
85:5:380:U:C2	85:5:390:G:N2	2.88	0.41
85:5:776:U:H5	85:5:2719:U:O2	2.04	0.41
80:6:310:C:C5	80:6:311:U:C5	3.08	0.41
80:6:386:G:C6	80:6:387:A:C6	3.09	0.41
80:6:622:A:H4'	80:6:623:A:O5'	2.21	0.41
80:6:869:A:C2	80:6:870:C:H1'	2.55	0.41
37:7:49:G:H4'	37:7:50:U:O5'	2.19	0.41
38:8:43:A:N1	38:8:44:A:C5	2.88	0.41
12:C0:69:THR:O	12:C0:73:VAL:HG23	2.21	0.41
14:C2:43:ARG:O	14:C2:47:GLU:HG3	3.64	0.41
15:C3:109:LYS:HE3	15:C3:109:LYS:HB3	1.90	0.41
15:C3:75:LEU:HG	15:C3:75:LEU:H	3.97	0.41
16:C4:110:LEU:HA	16:C4:110:LEU:HD23	2.29	0.41
18:C6:104:GLU:O	18:C6:107:LYS:HB3	3.08	0.41
19:C7:104:ASN:C	19:C7:106:THR:N	3.30	0.41
19:C7:27:ASP:O	19:C7:31:ASN:CG	2.59	0.41
19:C7:34:LEU:HD23	19:C7:34:LEU:HA	3.58	0.41
20:C8:90:ASN:O	20:C8:91:ASP:C	2.59	0.41
21:C9:117:SER:HB2	21:C9:123:ARG:HB3	2.27	0.41
24:D2:35:ILE:HA	24:D2:35:ILE:HD13	1.88	0.41
24:D2:67:GLY:O	24:D2:68:ARG:C	3.00	0.41
25:D3:43:PHE:O	25:D3:45:GLY:N	2.48	0.41
26:D4:14:SER:HB2	26:D4:21:LYS:HE3	2.03	0.41
26:D4:55:VAL:HG23	26:D4:55:VAL:O	4.39	0.41
28:D6:10:ARG:HB3	28:D6:11:ASN:H	4.07	0.41
28:D6:66:LYS:O	28:D6:68:TYR:CD2	4.39	0.41
39:L2:192:LYS:HB3	39:L2:193:ARG:CZ	2.50	0.41
39:L2:196:TRP:CE3	39:L2:197:PRO:HG3	2.56	0.41
39:L2:230:VAL:O	39:L2:233:GLN:N	2.39	0.41
36:1:2521:U:H5'	39:L2:31:THR:HG21	2.02	0.41
39:L2:38:HIS:O	39:L2:93:LYS:HD2	2.21	0.41
40:L3:185:GLY:O	40:L3:186:GLY:C	2.59	0.41
36:1:2943:G:C8	40:L3:2:SER:N	2.88	0.41
40:L3:7:GLU:HG2	85:5:2915:U:C5	256.96	0.41
41:L4:99:MET:CE	41:L4:103:THR:H	2.33	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:358:THR:H	41:L4:358:THR:HG23	1.94	0.41
36:1:592:A:H5'	43:L6:18:LEU:O	2.20	0.41
43:L6:41:ILE:HD13	43:L6:41:ILE:HG21	1.78	0.41
44:L7:188:ILE:HA	44:L7:188:ILE:HD13	2.11	0.41
36:1:119:U:C2	45:L8:138:HIS:CE1	3.09	0.41
45:L8:41:GLN:CA	45:L8:41:GLN:NE2	4.13	0.41
45:L8:82:LEU:HA	45:L8:82:LEU:HD12	2.04	0.41
47:M0:206:LEU:HD13	37:7:64:A:C8	342.37	0.41
48:M1:109:HIS:CD2	48:M1:123:PHE:H	2.39	0.41
48:M1:89:TYR:N	48:M1:89:TYR:CD2	2.88	0.41
49:M3:117:LYS:O	49:M3:120:GLN:N	2.94	0.41
51:M5:20:ARG:HB3	51:M5:20:ARG:HE	1.65	0.41
53:M7:131:ARG:HG3	53:M7:137:ASN:OD1	2.27	0.41
53:M7:17:ALA:HB2	53:M7:98:ALA:HB2	3.19	0.41
54:M8:11:LYS:HE3	54:M8:11:LYS:HB3	1.62	0.41
54:M8:147:ARG:NH2	85:5:670:C:OP1	163.19	0.41
36:1:1689:U:OP1	55:M9:64:ARG:NH1	2.53	0.41
59:N3:87:ARG:HH22	59:N3:137:VAL:HG21	1.85	0.41
59:N3:93:LEU:HA	60:N4:20:LEU:O	2.20	0.41
62:N6:76:LEU:HA	62:N6:76:LEU:HD22	1.89	0.41
62:N6:89:LYS:HG2	62:N6:90:VAL:H	1.86	0.41
64:N8:119:PRO:C	64:N8:121:VAL:H	2.23	0.41
64:N8:21:ARG:HD2	85:5:1369:A:H5'	185.60	0.41
64:N8:49:HIS:N	64:N8:50:PRO:CD	3.11	0.41
68:O2:124:GLY:O	68:O2:125:ARG:C	2.59	0.41
68:O2:43:ARG:HG2	68:O2:43:ARG:NH1	2.34	0.41
71:O5:86:ARG:HG2	71:O5:90:ARG:NH2	2.35	0.41
71:O5:89:ARG:HD2	38:8:38:U:C4	68.32	0.41
74:O8:66:ILE:HD13	74:O8:66:ILE:HG21	1.97	0.41
74:O8:65:LEU:CD2	74:O8:68:SER:HB2	2.71	0.41
78:Q2:25:VAL:HG11	78:Q2:70:LEU:HD13	2.85	0.41
2:S0:55:GLU:O	2:S0:58:VAL:HB	2.20	0.41
3:S1:176:VAL:C	3:S1:178:GLY:H	2.24	0.41
3:S1:28:GLU:C	3:S1:29:TRP:CD1	4.67	0.41
4:S2:158:THR:HG21	4:S2:221:THR:HG22	2.02	0.41
4:S2:187:LEU:HG	4:S2:187:LEU:O	2.82	0.41
2:S0:119:ARG:HD2	4:S2:240:LEU:HD23	3.36	0.41
4:S2:35:TRP:O	4:S2:46:LYS:HE3	6.31	0.41
5:S3:115:ILE:HG13	5:S3:115:ILE:H	4.07	0.41
5:S3:53:THR:HB	5:S3:94:ARG:HD3	5.29	0.41
5:S3:71:LEU:HB3	12:C0:20:VAL:HG11	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:51:ARG:HA	5:S3:89:GLU:HB2	3.20	0.41
6:S4:109:PHE:HD1	6:S4:109:PHE:HA	3.15	0.41
6:S4:180:LEU:HD22	6:S4:181:VAL:H	1.85	0.41
7:S5:35:GLN:C	7:S5:37:GLN:H	3.51	0.41
8:S6:121:LEU:O	8:S6:122:GLU:C	2.70	0.41
8:S6:55:GLY:HA3	8:S6:63:MET:HE3	2.67	0.41
9:S7:14:THR:O	9:S7:18:LEU:HD12	2.21	0.41
10:S8:169:ILE:HD13	10:S8:169:ILE:HA	2.04	0.41
11:2:748:G:O2'	11:S9:149:ARG:NH2	2.53	0.41
5:S3:124:ARG:HD3	35:SM:124:GLN:HA	2.01	0.41
34:SR:297:ASP:C	34:SR:299:GLN:H	2.46	0.41
34:SR:84:SER:HB3	34:SR:86:ASP:OD1	2.20	0.41
36:1:1667:A:N6	36:1:1668:G:O6	2.54	0.41
36:1:2355:G:H4'	53:M7:139:TYR:CD2	2.56	0.41
36:1:1131:G:C4	36:1:2373:A:C2	3.09	0.41
36:1:2381:G:C2	36:1:2382:G:C8	3.09	0.41
36:1:2396:G:H3'	36:1:2398:A:H5'	2.03	0.41
36:1:2510:U:O2'	36:1:2511:A:P	2.79	0.41
36:1:2631:U:C2	36:1:2632:G:C8	3.08	0.41
36:1:2632:G:H2'	36:1:2633:U:O4'	2.21	0.41
36:1:2781:U:H2'	36:1:2782:U:O4'	2.20	0.41
36:1:2837:A:C2	36:1:2850:G:C2	3.09	0.41
36:1:3001:C:HO2'	40:L3:118:PHE:HE2	1.65	0.41
36:1:3115:C:O2	92:1:3558:OHX:N1	2.54	0.41
36:1:321:C:H2'	36:1:322:U:O4'	2.21	0.41
36:1:996:A:C6	36:1:1054:A:C8	3.08	0.41
1:2:1171:G:H2'	1:2:1172:A:O4'	2.21	0.41
1:2:1270:A:O3'	1:2:1271:G:H8	2.03	0.41
1:2:1314:A:H2'	1:2:1315:C:H5'	2.03	0.41
1:2:1320:A:H5'	1:2:1321:C:OP2	2.21	0.41
1:2:142:G:C5	1:2:266:A:C5	3.09	0.41
1:2:1571:G:C6	1:2:1572:C:C5	3.09	0.41
1:2:734:G:OP2	92:2:2051:OHX:N1	2.54	0.41
1:2:207:U:O4	1:2:257:A:N6	2.53	0.41
1:2:28:A:C6	1:2:599:A:C6	3.08	0.41
1:2:28:A:N6	1:2:599:A:N6	2.69	0.41
1:2:362:G:C6	1:2:383:G:N1	2.89	0.41
1:2:510:G:C2	1:2:511:A:C8	3.08	0.41
1:2:560:U:C2	1:2:586:G:C2	3.08	0.41
1:2:622:A:C4'	1:2:623:A:OP1	2.67	0.41
1:2:683:C:H42	1:2:721:G:H1	1.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:945:C:H2'	1:2:946:A:O4'	2.21	0.41
1:2:979:U:H3	1:2:991:G:H1	1.69	0.41
85:5:1015:U:OP2	85:5:1016:C:OP2	2.39	0.41
85:5:1047:A:C6	85:5:1048:A:C6	3.09	0.41
85:5:1255:C:H2'	85:5:1256:G:H8	1.85	0.41
85:5:1357:G:H2'	85:5:1358:C:C6	2.56	0.41
85:5:1554:U:O2'	85:5:1581:C:H2'	2.21	0.41
85:5:1595:U:C2	85:5:1596:C:C6	3.08	0.41
85:5:1742:U:H2'	85:5:1743:G:C8	2.55	0.41
85:5:191:U:H2'	85:5:192:C:C6	2.56	0.41
85:5:2774:C:H2'	85:5:2775:U:C6	2.55	0.41
85:5:276:U:H2'	85:5:277:G:C8	2.56	0.41
53:M7:69:ARG:NH2	85:5:2992:U:H1'	191.62	0.41
85:5:3307:A:C4	85:5:3308:C:C5	3.08	0.41
85:5:3335:A:N7	85:5:3370:A:O2'	2.45	0.41
85:5:3365:U:H2'	85:5:3366:G:C8	2.56	0.41
85:5:722:G:H1	85:5:748:U:H3	1.68	0.41
80:6:1039:A:O2'	80:6:1040:G:H8	2.04	0.41
80:6:139:C:C2	80:6:176:C:C2	3.09	0.41
80:6:761:G:N7	92:6:1938:OHX:N5	2.68	0.41
80:6:489:C:OP2	80:6:489:C:H3'	2.20	0.41
80:6:547:U:H2'	80:6:548:G:O4'	2.19	0.41
80:6:643:G:C2	80:6:692:C:N3	2.89	0.41
80:6:773:C:H6	80:6:773:C:O5'	2.03	0.41
80:6:88:U:H2'	80:6:89:G:C8	2.55	0.41
85:5:1056:U:O2'	37:7:82:G:H4'	2.20	0.41
38:8:140:G:H2'	38:8:141:C:O4'	2.20	0.41
38:8:65:A:C6	38:8:66:A:C4	3.08	0.41
12:C0:27:PHE:CD1	12:C0:40:LEU:HD23	2.56	0.41
13:C1:96:LYS:HZ2	80:6:374:U:P	347.20	0.41
15:C3:61:THR:HB	80:6:959:U:O2	350.30	0.41
18:C6:64:ASP:OD2	18:C6:64:ASP:N	3.35	0.41
20:C8:127:HIS:CD2	20:C8:133:VAL:HG21	3.01	0.41
21:C9:52:GLY:C	21:C9:54:PHE:N	2.72	0.41
23:D1:19:ALA:HA	23:D1:71:ARG:HH12	1.85	0.41
24:D2:47:ILE:HB	24:D2:48:GLY:H	2.73	0.41
24:D2:52:TYR:CE2	24:D2:53:ILE:O	3.64	0.41
25:D3:125:VAL:HG12	25:D3:126:LYS:CG	2.46	0.41
27:D5:71:ILE:CG2	27:D5:76:ALA:HB2	3.50	0.41
30:D8:13:ILE:O	30:D8:14:LYS:HD2	2.21	0.41
30:D8:26:THR:HB	30:D8:44:VAL:HG22	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:187:SER:O	40:L3:188:ILE:C	2.57	0.41
36:1:1382:G:P	41:L4:188:ARG:HH12	2.36	0.41
42:L5:119:TYR:HE1	42:L5:133:GLU:O	2.04	0.41
42:L5:3:PHE:CD2	42:L5:3:PHE:N	2.88	0.41
43:L6:40:LEU:N	43:L6:52:VAL:O	2.55	0.41
44:L7:108:LEU:HA	44:L7:108:LEU:HD23	1.75	0.41
44:L7:145:ARG:HA	44:L7:185:ILE:CD1	2.60	0.41
44:L7:219:LYS:O	44:L7:221:LYS:N	2.42	0.41
45:L8:133:LYS:HA	45:L8:133:LYS:HD3	1.94	0.41
45:L8:72:PRO:HA	45:L8:73:PRO:HD3	1.90	0.41
46:L9:183:HIS:ND1	46:L9:183:HIS:O	2.54	0.41
47:M0:76:MET:HE2	47:M0:148:VAL:HA	2.02	0.41
47:M0:70:ILE:O	47:M0:71:CYS:C	2.75	0.41
48:M1:165:GLN:HB3	48:M1:166:LYS:H	1.51	0.41
50:M4:105:GLN:NE2	50:M4:109:ARG:HH21	3.31	0.41
50:M4:16:GLU:HG2	50:M4:19:ARG:HB2	2.03	0.41
51:M5:172:ARG:O	51:M5:173:GLY:C	2.58	0.41
36:1:287:G:OP1	51:M5:179:LYS:HE3	2.20	0.41
51:M5:6:TYR:O	51:M5:10:LEU:HB2	3.23	0.41
52:M6:156:LEU:HB3	85:5:3243:A:N7	266.42	0.41
55:M9:143:ILE:HG13	85:5:2093:A:P	250.75	0.41
56:N0:136:LYS:C	56:N0:137:ARG:HD2	4.97	0.41
46:L9:58:HIS:CD2	56:N0:151:PRO:HD2	3.24	0.41
58:N2:49:ASN:C	58:N2:51:GLY:H	2.23	0.41
58:N2:99:LYS:O	58:N2:102:GLU:N	2.65	0.41
60:N4:20:LEU:HD23	60:N4:20:LEU:C	2.40	0.41
61:N5:138:ARG:HG3	61:N5:138:ARG:O	2.20	0.41
62:N6:100:HIS:CE1	62:N6:102:SER:HB3	3.24	0.41
62:N6:62:SER:O	62:N6:64:LYS:N	2.54	0.41
64:N8:75:LEU:C	64:N8:77:LYS:N	3.04	0.41
65:N9:14:ARG:O	65:N9:18:ARG:HG2	5.05	0.41
65:N9:7:HIS:C	65:N9:7:HIS:CD2	2.94	0.41
66:O0:63:SER:O	66:O0:64:LYS:C	3.11	0.41
67:O1:50:ARG:NE	67:O1:90:PHE:CZ	4.38	0.41
62:N6:127:GLU:C	71:O5:16:GLN:HE21	47.22	0.41
72:O6:60:LEU:HD11	72:O6:68:ARG:NE	2.36	0.41
75:O9:17:LYS:O	75:O9:20:ASN:N	2.82	0.41
77:Q1:13:LEU:HD11	77:Q1:17:ARG:CZ	2.51	0.41
36:1:2802:A:C8	78:Q2:56:PRO:HA	2.55	0.41
4:S2:67:GLN:HA	4:S2:70:ASP:CB	2.51	0.41
4:S2:90:THR:O	4:S2:92:ALA:N	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:178:ARG:HE	5:S3:178:ARG:N	2.18	0.41
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.52	0.41
7:S5:113:ILE:H	7:S5:113:ILE:HG13	1.62	0.41
8:S6:164:LYS:O	8:S6:166:GLU:N	2.54	0.41
11:S9:66:ASP:CG	11:S9:67:PRO:HD2	2.41	0.41
35:SM:70:ASN:O	35:SM:73:SER:OG	3.71	0.41
35:SM:83:LYS:HB3	35:SM:83:LYS:HE3	1.77	0.41
34:SR:126:SER:OG	34:SR:127:ARG:N	2.54	0.41
36:1:1012:G:N1	36:1:1013:G:C5	2.88	0.41
36:1:1517:G:C5	36:1:1518:U:C5	3.09	0.41
36:1:1650:G:H2'	36:1:1651:U:H6	1.85	0.41
36:1:174:C:H2'	36:1:175:C:H6	1.86	0.41
36:1:2419:A:C6	36:1:2420:C:C4	3.09	0.41
36:1:2565:U:C2	36:1:2566:C:C5	3.09	0.41
36:1:2762:A:C1'	36:1:2800:G:C6	3.04	0.41
36:1:2890:A:N1	36:1:2913:C:N3	2.69	0.41
36:1:2916:U:H5	36:1:2935:U:HO2'	1.68	0.41
36:1:3196:U:O4'	36:1:3197:G:C6	2.74	0.41
36:1:3232:G:C5	36:1:3233:C:C5	3.09	0.41
36:1:3256:G:C6	36:1:3257:C:C4	3.09	0.41
92:1:3507:OHX:N3	92:1:3691:OHX:N1	2.69	0.41
36:1:435:C:H6	36:1:435:C:O5'	2.04	0.41
36:1:730:C:C2	36:1:731:U:C5	3.09	0.41
1:2:1456:U:O2'	1:2:1457:G:OP1	2.37	0.41
1:2:169:A:OP1	8:S6:137:ARG:NH2	2.53	0.41
1:2:212:U:C2	1:2:254:A:C2	3.09	0.41
1:2:45:U:H2'	1:2:45:U:H6	1.61	0.41
1:2:538:A:C8	1:2:543:C:N4	2.85	0.41
1:2:625:C:C4	1:2:626:U:O4	2.74	0.41
1:2:627:C:H2'	1:2:628:G:O4'	2.21	0.41
1:2:818:U:H2'	1:2:819:U:C6	2.56	0.41
37:3:106:U:O4	37:3:107:C:N4	2.54	0.41
38:4:81:U:O2	38:4:82:U:C5	2.74	0.41
85:5:1236:G:N2	85:5:1244:A:OP1	2.54	0.41
85:5:1283:C:N4	85:5:1284:C:N4	2.69	0.41
85:5:1632:A:C4	85:5:1633:C:C5	3.09	0.41
85:5:1676:A:C6	85:5:1677:G:N7	2.89	0.41
85:5:169:U:O2'	85:5:170:G:H8	2.04	0.41
85:5:1714:A:C2	85:5:1731:A:C4	3.09	0.41
85:5:1803:C:H2'	85:5:1804:A:C8	2.56	0.41
85:5:1843:C:C2	85:5:1844:C:C5	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2520:A:O2'	85:5:2521:U:H5'	2.21	0.41
85:5:3245:A:H2	85:5:3246:G:N1	2.19	0.41
85:5:370:U:O4	85:5:371:G:C6	2.74	0.41
85:5:955:U:H2'	85:5:956:U:H6	1.86	0.41
80:6:1028:C:C4	80:6:1030:A:H1'	2.55	0.41
80:6:1116:A:C6	80:6:1117:U:C2	3.08	0.41
80:6:1203:A:C4	80:6:1556:A:C2	3.09	0.41
80:6:1704:U:O2	80:6:1704:U:H2'	2.20	0.41
80:6:214:G:O2'	80:6:251:A:N6	2.53	0.41
80:6:517:U:C4	80:6:518:A:N7	2.89	0.41
80:6:606:A:C5	80:6:608:U:C4	3.09	0.41
80:6:653:C:N3	80:6:677:G:N2	2.66	0.41
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	2.03	0.41
15:C3:33:VAL:O	15:C3:37:ILE:N	2.67	0.41
15:C3:55:ARG:HH11	15:C3:55:ARG:HD2	1.74	0.41
20:C8:16:ARG:HH21	20:C8:21:ASN:ND2	2.18	0.41
20:C8:88:ARG:O	20:C8:98:TYR:O	2.79	0.41
21:C9:53:TRP:CG	21:C9:54:PHE:N	3.23	0.41
22:D0:103:ILE:HD13	22:D0:103:ILE:O	2.20	0.41
23:D1:66:ASP:O	23:D1:67:ASP:C	2.71	0.41
24:D2:18:GLU:HG3	24:D2:69:LEU:HB3	3.18	0.41
1:2:571:G:O2'	25:D3:109:ARG:HD3	2.20	0.41
1:2:601:A:OP1	25:D3:110:LYS:HD3	2.21	0.41
25:D3:13:ARG:HD2	25:D3:13:ARG:HH11	1.64	0.41
20:C8:57:ARG:NH1	27:D5:40:VAL:HG12	2.36	0.41
39:L2:112:ILE:HG12	79:Q3:79:VAL:HG22	4.62	0.41
40:L3:110:LEU:HD23	40:L3:130:PHE:CD2	3.02	0.41
40:L3:209:PHE:HE1	40:L3:340:LYS:HB3	4.96	0.41
41:L4:131:VAL:O	41:L4:133:SER:N	2.53	0.41
41:L4:152:VAL:HG12	41:L4:251:THR:HG22	3.94	0.41
41:L4:197:ARG:HD2	41:L4:197:ARG:HH11	1.52	0.41
41:L4:334:PHE:CD1	41:L4:339:LEU:HD12	3.68	0.41
37:3:7:G:O2'	42:L5:72:ASP:OD1	2.39	0.41
43:L6:100:LYS:HE3	43:L6:100:LYS:HB2	3.47	0.41
43:L6:81:ALA:O	43:L6:84:VAL:HG23	4.41	0.41
43:L6:9:TRP:HB2	85:5:1354:G:C4	172.10	0.41
44:L7:40:LYS:HE2	44:L7:170:GLU:OE1	3.45	0.41
44:L7:219:LYS:HD3	85:5:1169:A:H5''	251.74	0.41
44:L7:86:VAL:HG13	44:L7:136:TYR:HB3	2.02	0.41
45:L8:132:VAL:HG22	45:L8:132:VAL:H	3.90	0.41
45:L8:205:ALA:O	45:L8:208:GLU:HB3	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:40:VAL:HG23	45:L8:40:VAL:H	1.64	0.41
45:L8:46:LEU:O	45:L8:49:TYR:N	2.64	0.41
45:L8:57:ARG:O	45:L8:61:GLN:N	2.77	0.41
47:M0:10:ARG:HD3	47:M0:11:TYR:CE1	3.64	0.41
47:M0:48:LEU:HD23	47:M0:48:LEU:HA	1.94	0.41
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.51	0.41
49:M3:115:ARG:NH1	49:M3:147:ILE:HG12	2.36	0.41
50:M4:40:ASP:OD1	50:M4:41:GLN:N	2.53	0.41
51:M5:140:LYS:HB3	51:M5:144:ARG:NE	2.36	0.41
51:M5:144:ARG:HD3	51:M5:144:ARG:HH11	1.65	0.41
54:M8:69:ARG:C	54:M8:71:LEU:H	2.78	0.41
55:M9:106:LEU:HD21	55:M9:123:LEU:HB2	2.40	0.41
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.60	0.41
57:N1:43:LYS:HG3	57:N1:58:GLN:HE22	1.85	0.41
61:N5:125:ARG:HH12	85:5:1610:G:P	103.43	0.41
63:N7:105:SER:HA	63:N7:108:GLU:CG	3.53	0.41
63:N7:56:LYS:H	63:N7:56:LYS:HG3	1.61	0.41
63:N7:62:VAL:O	63:N7:66:THR:OG1	2.62	0.41
65:N9:23:LYS:CB	65:N9:24:PRO:HD3	2.57	0.41
67:O1:103:GLY:HA2	85:5:3325:G:H5"	178.86	0.41
67:O1:39:PHE:CE2	67:O1:43:HIS:CD2	4.43	0.41
68:O2:109:LEU:HD21	68:O2:122:PRO:HB3	3.30	0.41
68:O2:67:SER:O	68:O2:69:SER:N	3.02	0.41
68:O2:74:PHE:HB2	68:O2:92:TYR:HD1	2.10	0.41
69:O3:51:TYR:O	69:O3:51:TYR:CG	2.74	0.41
70:O4:20:ILE:HD11	70:O4:34:HIS:CE1	2.56	0.41
72:O6:86:LYS:NZ	72:O6:89:GLU:OE2	3.12	0.41
73:O7:87:SER:O	73:O7:88:ALA:HB3	2.21	0.41
76:Q0:92:ASP:O	76:Q0:105:PRO:HG3	2.21	0.41
3:S1:36:SER:HB3	3:S1:231:LEU:O	3.45	0.41
4:S2:225:LEU:HA	4:S2:225:LEU:HD23	1.86	0.41
6:S4:162:ILE:HG22	6:S4:163:ASP:H	1.86	0.41
6:S4:195:ILE:HG22	6:S4:196:VAL:N	2.94	0.41
10:S8:137:LYS:HE3	80:6:191:C:H42	266.47	0.41
11:S9:130:THR:HA	11:S9:142:ASN:HB2	2.38	0.41
35:SM:46:LYS:NZ	35:SM:46:LYS:HB2	2.36	0.41
34:SR:117:LYS:H	34:SR:117:LYS:HD2	1.86	0.41
34:SR:29:GLN:HB3	34:SR:29:GLN:HE21	1.72	0.41
34:SR:9:LEU:HA	34:SR:313:TRP:CD1	2.66	0.41
36:1:117:U:OP1	51:M5:2:GLY:N	2.53	0.41
36:1:1474:A:C6	36:1:1475:A:N7	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1580:A:H5'	36:1:2522:G:C6	2.55	0.41
36:1:1865:A:O2'	36:1:1866:C:H5'	2.20	0.41
36:1:1907:C:H3'	36:1:1908:A:H8	1.86	0.41
36:1:1952:G:H3'	36:1:1953:G:H5''	2.02	0.41
36:1:2112:U:O5'	36:1:2112:U:H6	2.03	0.41
36:1:2209:U:C4'	36:1:2210:G:OP2	2.69	0.41
36:1:2564:G:C6	36:1:2565:U:C4	3.09	0.41
36:1:2564:G:N2	36:1:2578:U:H1'	2.36	0.41
36:1:2877:G:O6	92:1:3703:OHX:N5	2.54	0.41
36:1:3024:A:H3'	36:1:3025:C:C5	2.56	0.41
92:1:3525:OHX:N3	92:1:3563:OHX:N6	2.69	0.41
36:1:437:G:H1	36:1:622:A:H61	1.66	0.41
36:1:692:A:N3	36:1:693:A:C8	2.89	0.41
36:1:815:G:C6	36:1:906:A:C4	3.09	0.41
36:1:359:U:C2	36:1:920:A:C6	3.09	0.41
1:2:1441:G:C2	1:2:1442:C:C5	3.08	0.41
1:2:1527:U:H2'	1:2:1528:A:H8	1.85	0.41
1:2:1602:C:H2'	1:2:1603:C:H6	1.86	0.41
1:2:1720:G:N2	1:2:1721:U:O2	2.53	0.41
1:2:190:C:N3	1:2:196:G:C6	2.89	0.41
1:2:204:G:C6	1:2:205:U:N3	2.89	0.41
1:2:1047:G:O6	92:2:2050:OHX:N6	2.53	0.41
1:2:226:A:H2'	1:2:227:U:H5'	2.03	0.41
1:2:742:U:H2'	1:2:743:A:H8	1.85	0.41
1:2:794:A:H1'	1:2:841:G:H21	1.85	0.41
1:2:866:C:H2'	1:2:867:A:H8	1.84	0.41
38:4:14:C:N4	38:4:15:G:C6	2.89	0.41
85:5:1122:U:C4	85:5:1123:U:C5	3.09	0.41
85:5:1317:A:C4	85:5:1319:G:N7	2.89	0.41
85:5:136:G:C2	85:5:137:G:C8	3.09	0.41
63:N7:135:ARG:HE	85:5:1807:G:H5''	196.30	0.41
85:5:1878:G:HO2'	85:5:1879:A:P	2.43	0.41
85:5:2223:A:C6	85:5:2224:A:C6	3.09	0.41
85:5:2390:A:H2'	85:5:2391:G:O4'	2.21	0.41
85:5:2667:A:C2	85:5:2690:G:C4	3.09	0.41
85:5:2822:U:H2'	85:5:2823:G:C8	2.52	0.41
85:5:2842:U:C6	85:5:2843:U:H5	2.38	0.41
85:5:2841:G:C5	85:5:2844:C:C4	3.09	0.41
85:5:2816:G:C8	85:5:2869:U:H3'	2.56	0.41
85:5:3155:U:H6	85:5:3155:U:O5'	2.04	0.41
85:5:3243:A:O2'	85:5:3244:A:H8	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1538:G:OP2	92:5:3509:OHX:N2	2.54	0.41
64:N8:23:GLY:O	92:5:3511:OHX:N2	177.99	0.41
85:5:61:A:H2'	85:5:62:A:O4'	2.20	0.41
85:5:656:A:H2'	85:5:657:A:H8	1.83	0.41
49:M3:7:LEU:HD13	85:5:796:U:H1'	158.68	0.41
80:6:102:U:O4	80:6:360:A:H2'	2.21	0.41
80:6:1110:G:N1	80:6:1136:U:O2	2.54	0.41
80:6:1114:G:HO2'	80:6:1115:U:P	2.42	0.41
80:6:313:U:C4	80:6:1118:G:C2	3.08	0.41
17:C5:102:PHE:CZ	80:6:1241:G:H5''	384.60	0.41
20:C8:135:GLY:HA3	80:6:1558:U:H4'	363.93	0.41
80:6:1695:G:H21	80:6:1706:C:N4	2.19	0.41
80:6:249:U:H3'	80:6:250:C:H5'	2.02	0.41
80:6:27:U:O2'	80:6:28:A:H5'	2.21	0.41
24:D2:32:LYS:NZ	80:6:638:U:OP2	363.13	0.41
80:6:647:G:H21	80:6:687:G:H22	1.66	0.41
80:6:913:G:H3'	80:6:914:G:C5'	2.49	0.41
28:D6:70:LYS:HE3	80:6:931:C:P	316.92	0.41
37:7:119:U:H2'	37:7:120:C:H6	1.86	0.41
38:8:157:U:O2'	38:8:158:U:H5'	2.20	0.41
14:C2:106:ILE:O	14:C2:112:ALA:HB3	4.17	0.41
14:C2:75:VAL:O	14:C2:79:ALA:N	2.77	0.41
15:C3:116:ILE:HG21	15:C3:116:ILE:HD13	1.77	0.41
1:2:870:A:C1'	16:C4:122:PRO:HB3	2.51	0.41
17:C5:65:LEU:O	92:C5:201:OHX:N4	2.54	0.41
18:C6:37:THR:HA	18:C6:49:TYR:OH	2.73	0.41
18:C6:73:GLY:HA3	80:6:1608:U:O3'	396.27	0.41
18:C6:83:GLN:O	18:C6:87:LYS:HG3	2.20	0.41
20:C8:65:GLU:O	20:C8:69:ILE:HG13	2.21	0.41
20:C8:87:ASN:OD1	20:C8:88:ARG:HB2	2.21	0.41
21:C9:10:ALA:O	21:C9:14:PHE:N	3.11	0.41
22:D0:26:LEU:HD21	22:D0:114:VAL:HG13	2.20	0.41
22:D0:23:ARG:HD3	22:D0:92:ASP:OD2	2.21	0.41
23:D1:34:ILE:HG23	23:D1:34:ILE:HD12	2.11	0.41
40:L3:250:ALA:HB3	85:5:2880:U:O2	223.23	0.41
40:L3:43:LEU:HG	40:L3:181:ILE:HG21	2.27	0.41
36:1:693:A:H4'	41:L4:234:ASN:OD1	2.20	0.41
41:L4:34:ILE:HG21	41:L4:34:ILE:HD13	1.85	0.41
41:L4:82:THR:C	41:L4:84:ARG:H	2.48	0.41
42:L5:122:VAL:C	42:L5:124:GLU:N	3.79	0.41
42:L5:256:THR:C	42:L5:258:LYS:H	2.24	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:L6:173:MET:O	43:L6:174:LEU:C	2.59	0.41
44:L7:110:ARG:O	44:L7:111:ILE:C	2.95	0.41
46:L9:41:ILE:O	46:L9:42:ASP:C	2.58	0.41
47:M0:17:TYR:CE1	47:M0:98:ARG:HD3	2.55	0.41
48:M1:94:ARG:HB2	48:M1:95:ASN:H	1.75	0.41
49:M3:36:ARG:O	49:M3:37:ASN:C	2.82	0.41
49:M3:8:PRO:HD3	54:M8:164:ARG:CB	3.35	0.41
50:M4:13:ARG:HH11	50:M4:13:ARG:HD2	1.90	0.41
51:M5:140:LYS:O	51:M5:142:ILE:N	3.23	0.41
51:M5:164:LEU:HA	51:M5:164:LEU:HD23	2.76	0.41
53:M7:70:THR:HG23	53:M7:73:GLY:H	3.10	0.41
1:2:834:U:H5''	55:M9:172:ARG:HH11	1.82	0.41
55:M9:78:TYR:HA	55:M9:81:ARG:HD3	2.02	0.41
55:M9:91:SER:H	55:M9:91:SER:HG	1.23	0.41
56:N0:40:ARG:HA	56:N0:43:TYR:HB3	2.02	0.41
36:1:1682:U:C6	58:N2:85:LYS:HG2	2.56	0.41
61:N5:63:ILE:HG23	61:N5:63:ILE:O	2.41	0.41
70:O4:58:ARG:HD2	70:O4:58:ARG:HA	1.87	0.41
63:N7:17:ARG:H	70:O4:74:ARG:HB2	1.86	0.41
72:O6:40:VAL:O	72:O6:44:VAL:HG23	2.20	0.41
36:1:2819:A:HO2'	98:P:101:8AN:C2	2.34	0.41
76:Q0:127:LEU:HD22	76:Q0:128:LYS:N	2.35	0.41
78:Q2:38:GLN:HE21	78:Q2:41:ARG:HB2	2.68	0.41
39:L2:171:GLY:O	79:Q3:68:ALA:HB2	2.21	0.41
79:Q3:66:GLY:HA3	79:Q3:71:VAL:O	3.35	0.41
79:Q3:84:ARG:HA	79:Q3:87:ARG:CZ	3.40	0.41
2:S0:77:SER:HB2	2:S0:124:THR:HG21	2.01	0.41
3:S1:131:ASP:O	3:S1:180:THR:HG23	2.20	0.41
4:S2:116:LYS:HD2	4:S2:117:THR:H	1.86	0.41
4:S2:121:VAL:HB	35:SM:120:GLU:OE1	2.21	0.41
1:2:1281:U:H1'	4:S2:209:ASN:HD21	1.86	0.41
4:S2:234:PRO:O	4:S2:235:LEU:CB	2.90	0.41
8:S6:35:GLU:HA	8:S6:50:PHE:O	2.21	0.41
9:S7:17:GLU:O	9:S7:21:ALA:N	2.84	0.41
9:S7:24:PHE:HE1	9:S7:38:LEU:HD21	1.85	0.41
9:S7:30:SER:HB3	9:S7:34:LEU:HD12	2.02	0.41
9:S7:35:LYS:O	9:S7:37:GLU:HG2	2.21	0.41
11:S9:109:LEU:HD22	11:S9:113:VAL:HG23	2.03	0.41
11:S9:135:ALA:HA	11:S9:139:GLN:O	3.06	0.41
36:1:1199:C:C2	36:1:1200:A:C6	3.09	0.41
36:1:1336:U:OP2	92:1:3578:OHX:N4	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1377:G:C2	36:1:1378:U:C6	3.08	0.41
36:1:123:A:H61	36:1:149:U:H3	1.67	0.41
36:1:1504:A:N6	36:1:1505:C:C4	2.89	0.41
36:1:1533:U:O2'	36:1:1534:A:H5'	2.21	0.41
36:1:1557:A:C5	36:1:1559:A:C6	3.09	0.41
36:1:1633:C:H2'	36:1:1634:G:C8	2.54	0.41
36:1:16:A:C4	38:4:144:G:N2	2.89	0.41
36:1:1710:C:C2	36:1:1735:G:N2	2.89	0.41
36:1:1918:C:N4	36:1:1919:G:C6	2.89	0.41
36:1:2416:U:H2'	36:1:2417:U:H6	1.82	0.41
36:1:2438:A:H2'	36:1:2439:A:H8	1.85	0.41
36:1:2533:G:C6	36:1:2534:G:C2	3.09	0.41
36:1:2553:U:O2	36:1:2553:U:H2'	2.21	0.41
36:1:2419:A:H1'	36:1:2804:A:O4'	2.21	0.41
36:1:2885:C:N3	36:1:2886:U:C4	2.89	0.41
36:1:3182:G:C5	36:1:3183:A:N7	2.89	0.41
36:1:523:A:N6	36:1:570:A:C2	2.89	0.41
36:1:589:A:C8	36:1:610:G:C5	3.08	0.41
1:2:1294:U:H2'	1:2:1296:A:OP2	2.21	0.41
1:2:1348:C:H5''	18:C6:28:LEU:HD22	2.02	0.41
1:2:1535:U:H2'	1:2:1536:G:O4'	2.21	0.41
1:2:1664:A:H61	1:2:1703:G:H1'	1.86	0.41
1:2:1794:G:N2	1:2:1799:C:H42	2.20	0.41
1:2:1277:G:C6	92:2:1955:OHX:N4	2.89	0.41
1:2:334:G:O6	10:S8:5:ARG:NH2	2.54	0.41
1:2:69:G:C2	1:2:70:C:C2	3.09	0.41
1:2:713:G:N3	1:2:713:G:H2'	2.36	0.41
1:2:775:U:H2'	1:2:776:A:O4'	2.20	0.41
1:2:969:G:C2	1:2:970:G:H1'	2.56	0.41
38:4:79:A:H3'	38:4:80:A:O4'	2.21	0.41
38:4:65:A:C2	38:4:96:A:C5	3.09	0.41
85:5:1193:A:H2'	85:5:1194:G:O4'	2.21	0.41
43:L6:10:TYR:HB2	85:5:1353:U:O2	171.01	0.41
85:5:1502:C:N3	85:5:1513:G:O6	2.54	0.41
85:5:1541:G:OP2	92:5:3591:OHX:N2	2.54	0.41
85:5:1640:G:C2'	85:5:1641:U:H5'	2.51	0.41
85:5:198:A:N3	85:5:218:G:O2'	2.52	0.41
85:5:241:G:H2'	85:5:242:C:C6	2.56	0.41
39:L2:70:ARG:NH2	85:5:2522:G:C6	175.46	0.41
85:5:2684:C:N4	85:5:2685:C:N4	2.69	0.41
85:5:2651:G:C2	85:5:2796:G:C4	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2925:C:C2'	85:5:2926:A:H5'	2.51	0.41
85:5:2904:U:OP1	92:5:3542:OHX:N5	2.53	0.41
92:5:3555:OHX:N5	92:5:3703:OHX:N5	2.69	0.41
85:5:62:A:C6	85:5:63:A:C6	3.09	0.41
85:5:68:C:C4	85:5:69:C:C5	3.09	0.41
85:5:722:G:C2'	85:5:723:U:H5'	2.51	0.41
85:5:739:G:H2'	85:5:740:G:H8	1.86	0.41
85:5:945:C:H2'	85:5:946:U:H6	1.86	0.41
80:6:1045:C:C4	80:6:1074:G:C6	3.09	0.41
80:6:108:A:N6	80:6:109:G:O6	2.54	0.41
80:6:1460:A:H3'	80:6:1460:A:N3	2.36	0.41
80:6:1550:A:C6	80:6:1551:U:C4	3.09	0.41
31:D9:14:TYR:OH	80:6:1553:G:O2'	402.80	0.41
80:6:1748:G:C2	80:6:1749:A:C4	3.08	0.41
80:6:1777:G:H2'	80:6:1778:G:C8	2.56	0.41
80:6:523:G:O2'	80:6:529:A:N6	2.54	0.41
80:6:641:G:C4	80:6:642:G:C8	3.09	0.41
80:6:933:A:C6	80:6:935:U:N3	2.89	0.41
80:6:995:A:C2	80:6:1010:C:N3	2.89	0.41
38:8:129:C:H2'	38:8:130:C:C6	2.55	0.41
38:8:91:C:C2	38:8:92:A:C8	3.09	0.41
38:8:63:G:N2	38:8:97:A:N1	2.69	0.41
12:C0:52:LYS:HG2	12:C0:52:LYS:H	1.61	0.41
13:C1:133:LYS:HE3	80:6:324:U:OP1	292.83	0.41
13:C1:35:TYR:CD2	13:C1:49:ILE:HG23	3.45	0.41
16:C4:17:ALA:N	16:C4:80:HIS:O	2.45	0.41
16:C4:85:ALA:H	16:C4:119:THR:CG2	2.19	0.41
19:C7:27:ASP:CG	19:C7:30:THR:HG23	2.41	0.41
20:C8:15:LEU:HD23	20:C8:15:LEU:N	2.36	0.41
20:C8:27:LYS:NZ	80:6:1539:G:H1	352.30	0.41
20:C8:38:VAL:HG11	20:C8:73:MET:SD	3.99	0.41
28:D6:66:LYS:HE2	28:D6:66:LYS:HB2	1.89	0.41
33:E1:121:CYS:HB2	33:E1:132:LEU:HD21	2.03	0.41
40:L3:199:PHE:C	40:L3:201:LYS:H	2.23	0.41
36:1:2941:A:C8	40:L3:255:TRP:CD2	3.09	0.41
41:L4:188:ARG:HG3	41:L4:189:ALA:N	2.36	0.41
41:L4:8:VAL:CG1	41:L4:9:HIS:H	2.29	0.41
42:L5:54:ARG:NH1	42:L5:148:ILE:C	2.74	0.41
43:L6:155:LEU:O	43:L6:156:LYS:C	2.58	0.41
44:L7:83:LEU:HD11	44:L7:116:PHE:HD1	1.86	0.41
44:L7:43:ILE:O	44:L7:46:GLU:N	3.22	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:238:LEU:HB2	45:L8:243:GLN:HB2	5.02	0.41
47:M0:140:THR:HG21	47:M0:144:ASN:ND2	2.20	0.41
47:M0:210:ILE:HD13	47:M0:217:PHE:CE2	3.74	0.41
48:M1:80:LEU:HD12	48:M1:167:TYR:OH	2.88	0.41
50:M4:10:SER:O	50:M4:12:TRP:N	3.71	0.41
50:M4:17:VAL:HG13	50:M4:36:VAL:O	2.26	0.41
51:M5:47:LYS:HA	51:M5:50:ARG:HH21	1.86	0.41
51:M5:94:TYR:CE1	51:M5:96:ARG:HB2	2.56	0.41
52:M6:39:GLU:H	52:M6:39:GLU:CD	2.23	0.41
53:M7:112:LEU:HA	53:M7:112:LEU:HD12	1.81	0.41
53:M7:136:ILE:C	53:M7:137:ASN:HD22	2.18	0.41
53:M7:4:TYR:CE1	53:M7:16:SER:HB2	2.77	0.41
53:M7:88:VAL:O	53:M7:91:VAL:N	2.54	0.41
53:M7:95:LEU:O	53:M7:97:ASN:N	2.54	0.41
54:M8:111:ARG:HD2	54:M8:111:ARG:HH11	1.66	0.41
54:M8:24:VAL:O	54:M8:28:LEU:HG	2.21	0.41
55:M9:175:GLN:O	55:M9:179:GLU:HG3	2.60	0.41
56:N0:30:PHE:CE2	56:N0:103:VAL:HG21	2.56	0.41
56:N0:159:SER:OG	56:N0:160:THR:N	2.54	0.41
56:N0:58:ILE:HG22	56:N0:58:ILE:O	2.53	0.41
58:N2:28:PHE:HD1	58:N2:28:PHE:HA	2.40	0.41
59:N3:10:LYS:HB3	59:N3:10:LYS:HE2	1.68	0.41
59:N3:77:ILE:HD13	59:N3:126:TRP:CD2	2.84	0.41
63:N7:128:GLN:CG	63:N7:129:TRP:H	4.41	0.41
63:N7:34:LYS:HA	63:N7:34:LYS:HD2	2.90	0.41
64:N8:74:ASN:CB	64:N8:115:LYS:HB2	2.51	0.41
64:N8:79:TRP:CZ3	64:N8:91:LEU:HD22	3.34	0.41
65:N9:7:HIS:O	65:N9:8:THR:HB	2.51	0.41
70:O4:42:PRO:O	70:O4:43:LYS:HD3	2.50	0.41
70:O4:72:VAL:HG22	70:O4:77:GLY:O	2.78	0.41
73:O7:66:TYR:CD2	73:O7:66:TYR:C	2.95	0.41
73:O7:73:ARG:HH12	73:O7:78:PHE:HD1	1.69	0.41
2:S0:114:SER:HA	2:S0:116:LYS:HZ3	2.65	0.41
2:S0:179:ARG:HD2	2:S0:180:GLU:OE2	6.06	0.41
3:S1:185:THR:O	3:S1:189:ILE:HG13	2.21	0.41
5:S3:212:LYS:O	5:S3:214:GLU:HG2	2.50	0.41
6:S4:6:LYS:HE2	6:S4:6:LYS:HB2	3.75	0.41
7:S5:177:ILE:HA	7:S5:180:ARG:NH1	2.36	0.41
7:S5:62:VAL:CG1	7:S5:89:ILE:HG12	2.60	0.41
9:S7:125:ILE:HA	9:S7:128:ASP:HB2	2.03	0.41
9:S7:9:LEU:O	9:S7:9:LEU:HD23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1329:U:OP1	69:O3:17:GLN:HG3	2.22	0.40
36:1:1164:G:N2	36:1:1335:C:O2	2.43	0.40
36:1:1345:G:N2	36:1:1360:C:C2	2.89	0.40
36:1:1375:G:N2	36:1:1376:C:C2	2.89	0.40
36:1:1577:G:H2'	36:1:1578:C:O4'	2.21	0.40
36:1:1903:U:H6	36:1:1903:U:O5'	2.04	0.40
36:1:197:G:H2'	36:1:198:A:H8	1.85	0.40
36:1:2292:U:C4	36:1:2293:C:N4	2.89	0.40
36:1:283:G:C8	64:N8:61:PHE:CE1	3.09	0.40
36:1:292:U:H6	36:1:292:U:O5'	2.03	0.40
36:1:3030:G:C5	36:1:3031:G:C5	3.09	0.40
36:1:2385:G:C8	36:1:3143:C:C6	3.09	0.40
36:1:3166:C:H42	36:1:3284:G:H1	1.68	0.40
36:1:503:C:N3	36:1:611:A:N1	2.68	0.40
36:1:835:G:HO2'	36:1:836:A:P	2.43	0.40
36:1:836:A:C8	36:1:836:A:O5'	2.74	0.40
1:2:111:U:C4	1:2:112:A:N7	2.89	0.40
1:2:1153:G:C2	1:2:1154:A:C8	3.09	0.40
1:2:1282:G:C6	1:2:1283:A:N6	2.89	0.40
1:2:1316:C:C4	1:2:1317:U:C5	3.09	0.40
1:2:1413:U:O4'	22:D0:72:ASN:ND2	2.54	0.40
1:2:647:G:H22	1:2:670:G:H22	1.65	0.40
1:2:856:U:H2'	1:2:857:C:H6	1.86	0.40
38:4:140:G:H2'	38:4:141:C:O4'	2.22	0.40
85:5:1148:G:C6	85:5:1149:G:C5	3.08	0.40
85:5:1172:G:N2	85:5:1173:U:C2	2.89	0.40
85:5:1536:G:C4	85:5:1537:A:C8	3.08	0.40
85:5:1605:A:N1	85:5:1608:C:H1'	2.36	0.40
85:5:1656:A:H4'	85:5:1657:C:H5'	2.02	0.40
85:5:1683:A:C5	85:5:1684:U:C5	3.09	0.40
85:5:1716:U:O2'	85:5:1717:U:P	2.79	0.40
85:5:1811:G:C5	85:5:1812:G:C8	3.09	0.40
85:5:2124:G:N3	85:5:2125:A:C8	2.89	0.40
85:5:2434:U:H4'	85:5:2435:G:O5'	2.21	0.40
85:5:2596:U:C4	85:5:2597:U:C4	3.09	0.40
85:5:2601:A:H2'	85:5:2602:G:H8	1.86	0.40
85:5:2726:C:O4'	85:5:2726:C:O2	2.33	0.40
85:5:2761:G:H1'	85:5:2800:G:N2	2.36	0.40
85:5:2894:C:H2'	85:5:2895:G:H8	1.86	0.40
85:5:2953:U:O5'	85:5:2953:U:H6	2.04	0.40
85:5:3045:G:H2'	85:5:3046:A:O4'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:34:A:N3	85:5:51:A:C2	2.89	0.40
85:5:498:A:N1	85:5:499:G:C6	2.89	0.40
85:5:515:C:H5''	85:5:515:C:H6	1.86	0.40
85:5:687:U:H2'	85:5:688:G:C8	2.57	0.40
85:5:359:U:H4'	85:5:817:A:N6	2.36	0.40
33:E1:97:LYS:NZ	80:6:1232:U:O4	437.77	0.40
80:6:1297:G:N1	80:6:1301:U:C4	2.89	0.40
19:C7:48:ASN:ND2	80:6:1389:C:OP1	428.13	0.40
80:6:1394:G:H2'	80:6:1395:G:C8	2.55	0.40
80:6:265:A:C2	80:6:267:U:O4	2.75	0.40
80:6:377:G:H4'	80:6:379:U:O4	2.20	0.40
80:6:391:A:H2'	80:6:392:G:O4'	2.21	0.40
80:6:36:C:C2	80:6:473:A:C2	3.09	0.40
80:6:607:G:OP2	80:6:613:G:N1	2.54	0.40
38:8:15:G:C6	38:8:16:G:N1	2.89	0.40
13:C1:118:GLN:H	13:C1:118:GLN:HG2	3.17	0.40
13:C1:80:MET:CB	13:C1:83:THR:HG23	2.51	0.40
16:C4:30:VAL:HG13	16:C4:39:ILE:O	2.20	0.40
19:C7:21:TYR:N	19:C7:22:PRO:CD	2.88	0.40
20:C8:28:ILE:HG13	20:C8:28:ILE:H	4.32	0.40
26:D4:124:ARG:O	26:D4:127:LYS:HG3	2.21	0.40
26:D4:127:LYS:O	26:D4:131:ARG:HG2	2.21	0.40
16:C4:127:ARG:HG3	28:D6:22:ARG:HH12	1.86	0.40
39:L2:116:VAL:HG11	39:L2:134:VAL:CG2	2.50	0.40
39:L2:242:ARG:NH1	39:L2:246:LEU:HD12	6.63	0.40
40:L3:292:ALA:O	40:L3:295:ALA:HB3	2.21	0.40
36:1:3330:A:H4'	40:L3:365:PHE:O	2.21	0.40
41:L4:122:THR:CG2	41:L4:235:LEU:HB2	2.50	0.40
41:L4:64:SER:OG	41:L4:73:ARG:O	3.56	0.40
43:L6:19:LYS:O	43:L6:21:THR:HG22	2.21	0.40
36:1:3276:G:C5'	43:L6:48:ARG:NH2	2.81	0.40
43:L6:98:VAL:HA	43:L6:101:PHE:HD2	1.84	0.40
46:L9:79:ILE:HD13	46:L9:79:ILE:HG21	1.69	0.40
48:M1:11:ASP:HB3	48:M1:12:LEU:H	1.41	0.40
48:M1:73:GLY:O	48:M1:74:PRO:C	2.59	0.40
49:M3:100:ARG:HG3	49:M3:100:ARG:H	2.80	0.40
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.21	0.40
49:M3:165:SER:HG	64:N8:135:GLU:CD	5.34	0.40
49:M3:36:ARG:HG3	49:M3:39:ARG:NH2	3.76	0.40
52:M6:15:LEU:O	52:M6:16:VAL:C	2.59	0.40
52:M6:181:ALA:C	52:M6:183:ALA:N	2.75	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:73:PHE:CE1	52:M6:78:ARG:NH1	2.89	0.40
53:M7:113:TYR:O	53:M7:150:VAL:HA	2.44	0.40
54:M8:44:PHE:HD1	54:M8:139:ILE:HD11	1.86	0.40
54:M8:20:LYS:HD3	85:5:671:U:O2'	156.92	0.40
55:M9:10:LEU:HD12	55:M9:10:LEU:HA	1.66	0.40
55:M9:109:TYR:CE2	55:M9:114:LYS:HD2	6.06	0.40
55:M9:47:ASN:OD1	55:M9:47:ASN:C	2.59	0.40
55:M9:90:PRO:HG2	55:M9:93:VAL:CG2	3.14	0.40
56:N0:12:ARG:O	56:N0:13:ARG:C	2.57	0.40
56:N0:140:VAL:O	56:N0:141:LYS:C	2.89	0.40
57:N1:38:ASP:H	57:N1:64:VAL:HG13	2.76	0.40
58:N2:97:SER:HB2	58:N2:103:TYR:CD1	2.55	0.40
58:N2:82:LYS:HB2	58:N2:82:LYS:HE2	1.84	0.40
59:N3:120:LYS:HG2	59:N3:120:LYS:O	2.78	0.40
63:N7:115:LYS:O	63:N7:119:GLU:HG3	3.22	0.40
63:N7:14:VAL:HA	70:O4:89:ILE:HD13	3.21	0.40
64:N8:24:LYS:O	92:5:3511:OHX:N2	175.96	0.40
66:O0:64:LYS:HE2	66:O0:64:LYS:HB3	2.44	0.40
68:O2:9:ILE:HG12	68:O2:63:THR:CG2	2.51	0.40
62:N6:126:LEU:HB2	71:O5:71:LYS:NZ	45.96	0.40
74:O8:65:LEU:O	74:O8:69:LEU:HD23	2.21	0.40
78:Q2:32:LYS:O	78:Q2:33:ALA:CB	4.33	0.40
78:Q2:6:LYS:HG2	78:Q2:93:LEU:HG	2.02	0.40
2:S0:37:VAL:HG22	2:S0:149:LEU:HD22	2.03	0.40
3:S1:39:GLU:HB3	3:S1:74:GLN:HA	2.03	0.40
4:S2:76:LEU:HD21	4:S2:104:VAL:HB	3.74	0.40
4:S2:109:GLY:HA2	4:S2:139:ILE:HB	2.18	0.40
5:S3:34:TYR:CE2	5:S3:37:VAL:HG13	2.77	0.40
7:S5:166:ARG:HA	7:S5:169:ASN:HB2	2.74	0.40
7:S5:41:LYS:HE3	7:S5:41:LYS:HB3	1.83	0.40
8:S6:106:LEU:HA	8:S6:106:LEU:HD23	1.87	0.40
9:S7:163:ASP:O	9:S7:166:LEU:HB2	3.21	0.40
9:S7:75:THR:O	9:S7:79:ARG:HB2	2.53	0.40
11:S9:110:GLN:HE21	11:S9:110:GLN:HA	2.13	0.40
35:SM:80:ALA:O	80:6:1462:G:H1'	333.51	0.40
36:1:1064:A:C5	36:1:1093:A:C2	3.09	0.40
36:1:1631:C:OP2	63:N7:48:ARG:NH2	2.54	0.40
36:1:1883:A:H2'	36:1:1884:A:O4'	2.22	0.40
36:1:2651:G:H5''	36:1:2652:U:O4'	2.20	0.40
36:1:2766:U:C2	36:1:2767:U:C5	3.09	0.40
36:1:429:U:H2'	36:1:430:U:H6	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:637:C:C2	36:1:638:C:C5	3.08	0.40
36:1:772:U:H2'	36:1:773:G:C8	2.57	0.40
36:1:92:G:OP2	36:1:93:C:H5''	2.22	0.40
1:2:10:G:N1	1:2:1128:U:C2	2.89	0.40
1:2:1174:U:H5'	18:C6:143:ARG:CZ	2.51	0.40
1:2:1664:A:C8	1:2:1704:A:C2	3.09	0.40
1:2:5:U:C2	1:2:20:G:C2	3.09	0.40
1:2:380:U:O2	1:2:380:U:O4'	2.39	0.40
1:2:465:G:H2'	1:2:466:U:O4'	2.21	0.40
1:2:735:A:N6	1:2:736:A:C6	2.90	0.40
1:2:736:A:H5'	6:S4:221:ARG:HG3	2.03	0.40
1:2:734:G:C4	1:2:782:A:C2	3.09	0.40
37:3:13:A:O4'	37:3:112:G:C8	2.74	0.40
38:4:122:U:C4	38:4:132:G:O6	2.74	0.40
38:4:53:A:C6	38:4:54:A:C5	3.09	0.40
38:4:55:U:H2'	38:4:56:G:O4'	2.21	0.40
85:5:1161:G:C2	85:5:1162:U:C5	3.09	0.40
68:O2:125:ARG:HH21	85:5:1392:G:H3'	129.72	0.40
85:5:1666:G:C5	85:5:1667:A:N7	2.89	0.40
85:5:1710:C:C2	85:5:1735:G:N2	2.90	0.40
85:5:1768:U:H2'	85:5:1769:G:O4'	2.21	0.40
85:5:258:G:N2	85:5:259:C:C2	2.89	0.40
85:5:2623:G:H2'	85:5:2624:G:O4'	2.22	0.40
85:5:273:A:H2'	85:5:274:G:C8	2.56	0.40
85:5:2987:A:C5	85:5:2988:C:C4	3.09	0.40
85:5:3028:G:N1	85:5:3029:A:C2	2.89	0.40
85:5:3223:A:C6	85:5:3224:G:N7	2.89	0.40
85:5:3274:A:HO2'	85:5:3275:U:H6	1.57	0.40
85:5:384:A:H2'	85:5:385:A:H8	1.86	0.40
85:5:384:A:H2'	85:5:385:A:O4'	2.21	0.40
85:5:524:U:H2'	85:5:525:C:O4'	2.21	0.40
85:5:64:G:C5	85:5:322:U:C4	3.10	0.40
85:5:69:C:H2'	85:5:70:A:O4'	2.21	0.40
19:C7:32:LYS:NZ	80:6:1387:G:OP1	439.62	0.40
80:6:1398:U:N3	80:6:1400:A:N1	2.70	0.40
80:6:1557:U:HO2'	80:6:1558:U:H2'	1.85	0.40
80:6:289:U:N3	80:6:290:G:C8	2.89	0.40
4:S2:197:TYR:HD1	80:6:2:A:H2'	392.57	0.40
80:6:722:G:H1'	80:6:723:G:H8	1.86	0.40
13:C1:80:MET:HE3	13:C1:80:MET:HB3	2.73	0.40
15:C3:125:LEU:O	15:C3:126:ALA:C	2.74	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:93:HIS:HB3	18:C6:102:LYS:HB2	2.85	0.40
7:S5:25:LEU:HB2	18:C6:27:GLY:O	2.21	0.40
20:C8:4:VAL:HG21	27:D5:82:HIS:CD2	5.93	0.40
20:C8:86:LEU:O	20:C8:89:GLN:HG2	2.21	0.40
25:D3:135:LEU:HA	25:D3:135:LEU:HD23	2.27	0.40
26:D4:105:ARG:HD3	26:D4:105:ARG:HH11	1.92	0.40
28:D6:12:LYS:HD2	28:D6:16:GLY:N	5.19	0.40
30:D8:18:ARG:HD3	80:6:1616:G:O3'	359.69	0.40
40:L3:244:ARG:O	40:L3:244:ARG:HG3	2.55	0.40
40:L3:286:GLY:N	40:L3:321:PHE:O	3.46	0.40
42:L5:10:SER:O	42:L5:11:ALA:C	2.79	0.40
42:L5:152:ARG:O	42:L5:154:THR:HG23	2.21	0.40
43:L6:165:LEU:H	43:L6:165:LEU:HG	2.54	0.40
44:L7:55:TYR:CE2	44:L7:141:TYR:CE2	3.09	0.40
45:L8:169:LEU:O	45:L8:169:LEU:HD22	2.62	0.40
36:1:1212:A:OP1	46:L9:1:MET:HB3	2.21	0.40
47:M0:184:LYS:O	47:M0:190:VAL:HG23	2.21	0.40
47:M0:205:SER:O	47:M0:209:ASN:HB2	2.21	0.40
47:M0:52:LEU:HG	47:M0:152:LEU:HB3	2.03	0.40
48:M1:171:VAL:HG22	48:M1:172:LEU:N	2.35	0.40
48:M1:52:TYR:HB2	48:M1:53:THR:H	1.39	0.40
49:M3:107:GLU:HG3	72:O6:17:VAL:HG22	3.48	0.40
49:M3:23:LYS:HG3	49:M3:25:HIS:CD2	2.56	0.40
49:M3:86:THR:O	49:M3:87:ALA:C	2.60	0.40
50:M4:25:LYS:C	50:M4:29:ALA:HB2	2.59	0.40
50:M4:20:VAL:HA	50:M4:33:ALA:O	2.21	0.40
51:M5:183:THR:O	51:M5:183:THR:CG2	3.03	0.40
51:M5:44:ARG:HB3	51:M5:47:LYS:HB3	2.71	0.40
52:M6:62:THR:O	52:M6:62:THR:HG22	2.29	0.40
36:1:2352:A:H5''	53:M7:83:TRP:O	2.21	0.40
55:M9:59:SER:HB2	85:5:1689:U:O2'	164.23	0.40
56:N0:123:ILE:HG23	56:N0:123:ILE:HD12	2.22	0.40
56:N0:33:ASN:ND2	56:N0:36:ILE:CD1	2.84	0.40
36:1:2338:C:H1'	59:N3:49:LEU:HD12	2.02	0.40
60:N4:44:LYS:HD3	60:N4:44:LYS:HA	2.49	0.40
61:N5:31:THR:O	61:N5:33:ARG:HG3	2.21	0.40
67:O1:12:TYR:O	67:O1:73:LEU:N	2.81	0.40
68:O2:60:ASN:C	68:O2:60:ASN:OD1	2.74	0.40
68:O2:87:MET:O	68:O2:88:HIS:CG	2.74	0.40
73:O7:19:CYS:SG	73:O7:34:CYS:HB2	2.61	0.40
36:1:1613:A:OP1	74:O8:50:SER:HA	2.22	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:16:THR:OG1	78:Q2:17:CYS:N	3.18	0.40
78:Q2:33:ALA:O	78:Q2:34:SER:HB3	2.22	0.40
2:S0:162:CYS:HB2	2:S0:163:ASN:H	1.72	0.40
2:S0:41:ARG:HB2	2:S0:47:VAL:HG23	2.03	0.40
3:S1:189:ILE:N	3:S1:190:PRO:HD2	2.36	0.40
3:S1:36:SER:CB	3:S1:231:LEU:HB3	2.51	0.40
5:S3:116:ARG:HG3	5:S3:152:PHE:HE1	4.98	0.40
5:S3:50:ILE:O	5:S3:50:ILE:HG22	2.19	0.40
5:S3:45:LYS:HD2	5:S3:85:VAL:HG21	2.02	0.40
6:S4:123:LEU:HA	6:S4:123:LEU:HD12	1.87	0.40
6:S4:208:VAL:HG12	6:S4:210:ILE:HG12	2.02	0.40
6:S4:85:GLY:O	6:S4:101:LEU:HB2	2.56	0.40
7:S5:192:GLU:OE1	27:D5:63:SER:OG	2.31	0.40
8:S6:2:LYS:HG3	8:S6:16:PHE:O	2.21	0.40
9:S7:131:PHE:CD2	9:S7:131:PHE:C	2.94	0.40
34:SR:116:ASP:O	34:SR:119:ALA:N	2.52	0.40
34:SR:177:MET:CG	34:SR:193:ILE:HG12	2.51	0.40
34:SR:52:GLN:OE1	34:SR:53:LYS:HG2	2.21	0.40
36:1:1240:A:H1'	36:1:1249:G:N2	2.36	0.40
36:1:1281:G:C6	36:1:1282:G:C6	3.10	0.40
36:1:1627:U:O2	36:1:1817:G:C2	2.75	0.40
36:1:1887:A:H2'	36:1:1888:U:O4'	2.22	0.40
36:1:1921:A:H61	36:1:1929:G:H2'	1.85	0.40
36:1:242:C:O2'	36:1:243:G:H8	2.03	0.40
36:1:2621:G:C6	36:1:2622:C:C4	3.09	0.40
36:1:2656:A:C8	36:1:2658:G:C8	3.09	0.40
36:1:1304:A:O2'	36:1:2884:C:O2	2.39	0.40
36:1:2913:C:H2'	36:1:2914:G:H8	1.86	0.40
36:1:2398:A:C2	36:1:2946:A:C6	3.09	0.40
36:1:3188:G:H2'	36:1:3189:G:C8	2.52	0.40
36:1:3255:U:H2'	36:1:3256:G:C8	2.56	0.40
36:1:437:G:C2'	36:1:438:A:O4'	2.67	0.40
36:1:44:U:OP1	51:M5:84:PRO:HG2	2.22	0.40
36:1:966:U:C2	36:1:967:A:C8	3.10	0.40
1:2:1159:G:C6	1:2:1447:G:C6	3.09	0.40
1:2:1424:C:H6	1:2:1424:C:O5'	2.05	0.40
1:2:1443:A:H2	1:2:1444:C:C6	2.39	0.40
1:2:367:A:C6	1:2:368:U:C4	3.09	0.40
1:2:742:U:H2'	1:2:743:A:C8	2.57	0.40
1:2:873:C:H2'	1:2:874:A:C8	2.57	0.40
1:2:925:G:C6	1:2:926:C:C4	3.10	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:935:A:N1	1:2:936:G:C5	2.89	0.40
37:3:25:G:C2	37:3:26:C:O2	2.74	0.40
38:4:25:G:N1	38:4:26:U:C2	2.89	0.40
38:4:36:G:OP2	71:O5:85:THR:HG23	2.21	0.40
38:4:42:G:C2	38:4:43:A:C8	3.09	0.40
85:5:1342:C:N4	85:5:1362:G:H1	2.18	0.40
85:5:1658:G:C2	85:5:1796:G:C6	3.09	0.40
85:5:1807:G:C5	85:5:1808:G:C6	3.10	0.40
51:M5:72:LYS:NZ	85:5:2167:A:OP1	162.75	0.40
85:5:2357:A:OP1	92:5:3512:OHX:N4	2.54	0.40
78:Q2:20:HIS:ND1	85:5:2741:C:O2'	214.32	0.40
85:5:2885:C:C4	85:5:2886:U:O4	2.74	0.40
85:5:2925:C:H2'	85:5:2926:A:H5'	2.02	0.40
85:5:310:U:H2'	85:5:311:C:O4'	2.22	0.40
92:5:3433:OHX:N4	92:5:3671:OHX:N2	2.69	0.40
85:5:513:G:C6	85:5:579:G:C5	3.09	0.40
64:N8:25:HIS:CE1	85:5:661:G:N7	159.77	0.40
85:5:799:G:C2'	85:5:800:G:OP1	2.69	0.40
85:5:825:U:O5'	85:5:825:U:H6	2.03	0.40
85:5:873:C:C2	85:5:875:G:C8	3.10	0.40
80:6:103:A:H4'	80:6:104:A:O5'	2.21	0.40
80:6:1213:G:C2	80:6:1451:C:C2	3.09	0.40
80:6:1486:G:H1'	80:6:1592:A:O2'	2.21	0.40
80:6:1514:U:O5'	80:6:1515:A:H5'	2.22	0.40
80:6:1347:U:C2	80:6:1517:U:C4	3.09	0.40
80:6:1592:A:C2	80:6:1605:G:C2	3.09	0.40
80:6:1607:G:N1	80:6:1608:U:C4	2.89	0.40
80:6:1690:G:H1'	80:6:1712:A:H61	1.86	0.40
80:6:276:C:C4	80:6:278:U:C4	3.10	0.40
80:6:634:G:C2	80:6:966:A:C4	3.09	0.40
80:6:653:C:H2'	80:6:654:C:C6	2.56	0.40
80:6:74:U:H5''	80:6:75:U:OP2	2.21	0.40
38:8:102:U:C4	38:8:103:G:C6	3.09	0.40
15:C3:91:LEU:HB3	15:C3:122:ILE:HG12	2.29	0.40
18:C6:13:LYS:O	18:C6:15:SER:N	2.54	0.40
19:C7:41:ILE:HG21	19:C7:47:ARG:N	2.37	0.40
21:C9:79:LEU:O	80:6:1481:C:N4	395.68	0.40
22:D0:29:THR:HA	22:D0:85:ARG:O	2.57	0.40
22:D0:34:LEU:HD21	22:D0:89:ARG:NH1	6.19	0.40
23:D1:85:TYR:CD1	29:D7:6:ASP:HB2	2.70	0.40
25:D3:4:GLY:O	25:D3:5:LYS:C	2.58	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:8:ARG:NE	26:D4:28:LEU:HD11	3.73	0.40
28:D6:21:VAL:HG11	28:D6:72:HIS:HD2	5.96	0.40
28:D6:10:ARG:NE	28:D6:35:ALA:O	2.54	0.40
29:D7:21:LEU:HA	29:D7:26:GLN:HB2	2.02	0.40
33:E1:126:CYS:O	33:E1:128:ALA:N	2.50	0.40
39:L2:126:LEU:HD13	39:L2:150:LEU:HD22	2.20	0.40
39:L2:117:GLU:HB2	39:L2:162:ALA:HB1	2.55	0.40
39:L2:183:GLY:O	39:L2:186:PHE:HB3	2.21	0.40
39:L2:70:ARG:HH11	39:L2:72:ARG:HE	5.24	0.40
40:L3:215:ILE:HD13	40:L3:215:ILE:HG21	2.23	0.40
40:L3:361:THR:HG22	40:L3:371:GLN:CD	3.78	0.40
41:L4:41:SER:OG	41:L4:111:VAL:HG11	2.20	0.40
42:L5:128:GLU:O	42:L5:164:LYS:NZ	2.46	0.40
42:L5:136:GLU:O	42:L5:137:ASP:O	2.39	0.40
42:L5:54:ARG:CZ	42:L5:149:GLY:HA3	2.52	0.40
42:L5:273:ARG:O	42:L5:273:ARG:HG2	2.51	0.40
42:L5:5:LYS:HD2	42:L5:5:LYS:HA	1.84	0.40
42:L5:52:VAL:HG21	42:L5:65:ILE:HG13	3.36	0.40
44:L7:131:GLU:N	44:L7:132:PRO:CD	2.97	0.40
44:L7:141:TYR:O	44:L7:142:SER:C	2.71	0.40
45:L8:73:PRO:HB2	45:L8:230:LYS:O	2.21	0.40
45:L8:90:THR:HG23	45:L8:214:LEU:HD23	2.92	0.40
47:M0:89:VAL:HG13	47:M0:136:PHE:CE1	2.55	0.40
48:M1:13:LYS:HD3	48:M1:14:ILE:O	2.21	0.40
49:M3:46:ILE:HG13	49:M3:49:ARG:NH1	4.56	0.40
49:M3:87:ALA:O	49:M3:88:ALA:C	2.59	0.40
50:M4:85:TRP:CD1	50:M4:90:VAL:HB	2.57	0.40
51:M5:109:ARG:HG3	51:M5:110:ALA:N	3.64	0.40
51:M5:21:PHE:O	51:M5:25:VAL:HG23	2.24	0.40
52:M6:94:ARG:O	52:M6:97:ALA:HB3	2.40	0.40
53:M7:65:SER:O	53:M7:66:SER:CB	2.86	0.40
54:M8:43:PRO:O	54:M8:44:PHE:C	2.79	0.40
56:N0:71:LYS:O	56:N0:73:LYS:HG3	2.22	0.40
57:N1:26:HIS:H	57:N1:26:HIS:CD2	2.83	0.40
61:N5:127:THR:HG23	61:N5:127:THR:H	1.66	0.40
62:N6:126:LEU:HB2	71:O5:71:LYS:HZ1	45.25	0.40
63:N7:35:SER:O	63:N7:36:HIS:HB2	4.60	0.40
67:O1:61:LYS:HA	67:O1:61:LYS:HD2	1.95	0.40
67:O1:17:HIS:HB2	67:O1:69:TYR:HB3	2.03	0.40
69:O3:84:THR:C	69:O3:85:PHE:HD2	2.24	0.40
70:O4:47:CYS:SG	70:O4:48:GLY:N	2.94	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:80:ARG:HH11	70:O4:88:ARG:NH2	2.19	0.40
73:O7:3:LYS:HE2	73:O7:3:LYS:HB3	3.08	0.40
36:1:351:A:N6	75:O9:37:TYR:O	2.46	0.40
76:Q0:79:GLU:O	76:Q0:80:PRO:C	2.77	0.40
78:Q2:83:LEU:C	78:Q2:83:LEU:HD23	3.18	0.40
2:S0:71:GLU:HA	2:S0:94:GLY:C	3.04	0.40
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.85	0.40
5:S3:111:ASN:HB3	5:S3:113:LEU:HD23	6.11	0.40
6:S4:103:TYR:CG	6:S4:189:LEU:HD11	2.71	0.40
7:S5:29:ILE:HA	7:S5:30:PRO:HD3	2.01	0.40
8:S6:153:VAL:H	8:S6:153:VAL:HG22	3.15	0.40
9:S7:109:VAL:O	9:S7:111:LYS:N	2.53	0.40
9:S7:142:TYR:HE1	24:D2:39:GLN:HE21	2.24	0.40
10:S8:32:GLN:HE21	10:S8:32:GLN:HB3	1.96	0.40
10:S8:38:ILE:HD13	10:S8:80:GLY:HA2	3.10	0.40
35:SM:33:LYS:HD2	35:SM:33:LYS:HA	1.87	0.40
34:SR:110:VAL:HA	34:SR:126:SER:HB2	2.56	0.40
34:SR:183:LEU:HA	34:SR:186:PHE:CD1	2.56	0.40
34:SR:169:ILE:HD13	34:SR:183:LEU:HD21	2.59	0.40
34:SR:152:SER:HB2	34:SR:200:ASN:O	2.56	0.40
36:1:1212:A:C2	36:1:1213:G:C4	3.10	0.40
36:1:1246:G:OP1	36:1:1246:G:H8	2.05	0.40
36:1:1439:U:O2'	36:1:1440:G:H5'	2.21	0.40
36:1:156:G:O2'	36:1:157:A:H4'	2.21	0.40
36:1:1677:G:O6	58:N2:74:LYS:HE3	2.21	0.40
36:1:1908:A:N6	36:1:1909:A:C6	2.90	0.40
36:1:2421:U:O2'	78:Q2:52:GLY:HA3	2.21	0.40
36:1:2781:U:C4	36:1:2782:U:C4	3.10	0.40
36:1:2783:U:H5'	36:1:2784:G:OP2	2.20	0.40
36:1:2836:C:N4	36:1:2837:A:N1	2.69	0.40
36:1:287:G:H5'	51:M5:179:LYS:O	2.22	0.40
36:1:3000:A:H2'	36:1:3001:C:C6	2.57	0.40
36:1:2960:C:OP1	92:1:3534:OHX:N4	2.54	0.40
36:1:370:U:H5''	36:1:371:G:OP2	2.21	0.40
36:1:104:G:O2'	36:1:698:U:O2	2.33	0.40
36:1:863:C:N4	36:1:864:G:C6	2.89	0.40
36:1:946:U:N3	36:1:947:G:N7	2.70	0.40
1:2:1437:G:C4	1:2:1438:G:C8	3.09	0.40
1:2:86:A:O2'	1:2:147:A:N3	2.41	0.40
92:2:1956:OHX:N3	92:2:1982:OHX:N6	2.69	0.40
1:2:542:A:O2'	1:2:543:C:O5'	2.26	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:800:A:O4'	9:S7:110:GLN:NE2	2.54	0.40
1:2:851:G:C2	1:2:852:A:C8	3.09	0.40
1:2:877:U:H2'	1:2:878:G:H8	1.85	0.40
37:3:113:C:N4	37:3:114:U:C4	2.89	0.40
37:3:7:G:OP1	42:L5:33:ARG:HD2	2.22	0.40
38:4:42:G:N3	38:4:42:G:H2'	2.35	0.40
38:4:6:U:H2'	38:4:7:U:H6	1.86	0.40
85:5:1096:U:H1'	85:5:1097:G:C2	2.56	0.40
85:5:1338:C:N3	85:5:1339:C:C5	2.90	0.40
85:5:343:U:O2	85:5:1439:U:H1'	2.21	0.40
85:5:1556:C:H2'	85:5:2169:G:N1	2.36	0.40
85:5:1614:C:O2'	85:5:1615:C:H5'	2.22	0.40
66:O0:88:GLY:N	85:5:1729:A:OP1	245.74	0.40
55:M9:43:LYS:CE	85:5:1765:U:H5'	93.54	0.40
85:5:1673:G:C4	85:5:1775:G:C2	3.09	0.40
85:5:181:U:H2'	85:5:182:U:O4'	2.21	0.40
85:5:1934:G:C6	85:5:1935:G:N7	2.89	0.40
85:5:2316:G:C6	85:5:2317:A:C5	3.09	0.40
85:5:2323:G:C2	85:5:2325:G:N7	2.89	0.40
85:5:2404:A:H5''	85:5:2404:A:H8	1.85	0.40
85:5:2916:U:H5	85:5:2935:U:O2'	2.05	0.40
85:5:3335:A:C2	85:5:3336:A:C5	3.10	0.40
85:5:3348:G:H1	85:5:3357:U:H3	1.68	0.40
92:5:3522:OHX:N6	92:5:3721:OHX:N4	2.69	0.40
85:5:440:A:N3	85:5:441:U:C4	2.90	0.40
85:5:575:G:N1	85:5:576:C:C4	2.90	0.40
85:5:797:U:O2'	85:5:798:G:H5'	2.21	0.40
85:5:917:A:N6	85:5:918:C:N4	2.70	0.40
80:6:1003:A:N3	80:6:1005:A:C5	2.90	0.40
80:6:1314:U:O2'	80:6:1315:U:P	2.80	0.40
80:6:1488:G:H3'	80:6:1515:A:H61	1.87	0.40
80:6:1734:U:C2	80:6:1735:U:C5	3.10	0.40
80:6:726:C:C4	80:6:727:U:C4	3.10	0.40
80:6:727:U:H2'	80:6:728:U:C6	2.56	0.40
80:6:882:U:H2'	80:6:883:C:C6	2.56	0.40
13:C1:40:LEU:HA	13:C1:40:LEU:HD13	2.33	0.40
15:C3:134:VAL:HG13	15:C3:134:VAL:H	1.65	0.40
18:C6:103:ASN:O	18:C6:107:LYS:N	2.99	0.40
18:C6:57:LEU:CD1	18:C6:57:LEU:H	4.13	0.40
24:D2:103:ILE:C	24:D2:104:LEU:HD13	2.42	0.40
15:C3:20:ARG:NH1	24:D2:56:HIS:CG	4.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:83:ILE:HA	24:D2:83:ILE:HD12	1.97	0.40
24:D2:99:PHE:N	24:D2:99:PHE:CD1	3.03	0.40
16:C4:103:ARG:HG3	28:D6:49:ALA:CB	6.93	0.40
28:D6:64:LEU:HD23	28:D6:64:LEU:HA	2.86	0.40
1:2:542:A:N1	32:E0:28:LYS:HD2	2.35	0.40
32:E0:41:THR:HA	32:E0:45:VAL:HB	2.04	0.40
33:E1:98:VAL:HB	33:E1:99:LYS:H	1.47	0.40
40:L3:232:ARG:HG2	40:L3:233:TRP:CD1	3.01	0.40
40:L3:238:LEU:HD22	40:L3:246:LEU:O	3.08	0.40
40:L3:301:THR:O	40:L3:303:LYS:N	3.78	0.40
40:L3:170:PRO:HD2	40:L3:314:TYR:OH	2.21	0.40
41:L4:60:THR:HG22	41:L4:61:SER:N	2.35	0.40
42:L5:215:ASP:OD2	42:L5:217:GLU:N	2.54	0.40
42:L5:294:ALA:HB1	47:M0:217:PHE:O	4.13	0.40
42:L5:294:ALA:O	42:L5:296:GLN:N	2.42	0.40
44:L7:105:LEU:HA	44:L7:105:LEU:HD23	1.90	0.40
44:L7:66:LYS:O	44:L7:70:LYS:HB2	2.22	0.40
46:L9:48:VAL:HG12	46:L9:52:LEU:O	2.21	0.40
46:L9:76:ASP:O	46:L9:80:THR:HG23	2.56	0.40
48:M1:102:PHE:O	48:M1:129:VAL:N	2.52	0.40
49:M3:52:ASP:OD2	49:M3:141:ALA:HB3	3.19	0.40
49:M3:75:PHE:C	49:M3:76:THR:HG1	2.15	0.40
52:M6:117:ARG:HH11	52:M6:117:ARG:HD3	1.67	0.40
53:M7:16:SER:HB3	53:M7:149:VAL:HB	2.34	0.40
53:M7:48:LEU:HA	53:M7:48:LEU:HD23	1.86	0.40
53:M7:22:LEU:HD13	53:M7:90:PHE:HD2	2.12	0.40
55:M9:20:ARG:NH1	85:5:1873:U:OP2	147.29	0.40
56:N0:137:ARG:HG2	56:N0:139:TYR:CZ	2.89	0.40
56:N0:44:PHE:CD1	57:N1:153:PRO:HB3	2.55	0.40
57:N1:47:SER:O	57:N1:49:GLN:NE2	3.39	0.40
59:N3:80:ARG:HB2	59:N3:99:ALA:HB3	2.03	0.40
64:N8:27:LYS:O	64:N8:28:HIS:HB2	4.21	0.40
65:N9:15:LYS:O	65:N9:16:ALA:C	3.03	0.40
65:N9:31:SER:OG	65:N9:33:LYS:HB2	3.25	0.40
65:N9:44:LYS:HD2	65:N9:45:HIS:HD2	3.26	0.40
66:O0:25:LEU:HA	66:O0:25:LEU:HD23	1.88	0.40
66:O0:34:LEU:HD12	66:O0:34:LEU:HA	2.52	0.40
66:O0:98:SER:OG	66:O0:99:ASP:N	2.62	0.40
67:O1:64:VAL:CG2	85:5:1456:A:C6	164.46	0.40
69:O3:105:SER:OG	69:O3:106:ASN:N	2.59	0.40
69:O3:23:ASN:O	69:O3:23:ASN:OD1	2.43	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:O3:30:ILE:HA	69:O3:30:ILE:HD13	2.01	0.40
36:1:3279:A:N6	69:O3:54:ARG:CD	2.84	0.40
71:O5:101:THR:CG2	71:O5:104:GLN:HB2	3.34	0.40
71:O5:104:GLN:OE1	71:O5:108:GLN:NE2	5.79	0.40
71:O5:95:PHE:O	71:O5:99:GLN:HB2	4.35	0.40
73:O7:22:CYS:SG	73:O7:34:CYS:SG	3.67	0.40
73:O7:19:CYS:O	73:O7:23:GLY:HA2	2.50	0.40
73:O7:77:GLY:O	73:O7:78:PHE:C	2.96	0.40
78:Q2:46:LYS:HD3	78:Q2:54:THR:HB	2.04	0.40
2:S0:101:ARG:HG2	2:S0:103:THR:H	3.19	0.40
2:S0:172:LEU:O	2:S0:175:TYR:N	3.05	0.40
3:S1:164:ILE:O	3:S1:168:ILE:HG13	2.43	0.40
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.86	0.40
6:S4:195:ILE:HD13	6:S4:195:ILE:HG21	1.83	0.40
7:S5:77:TYR:CE2	7:S5:87:CYS:HB2	2.99	0.40
1:2:407:A:OP1	8:S6:94:ARG:NE	2.54	0.40
10:S8:31:ARG:HH21	80:6:333:A:P	297.05	0.40
35:SM:22:PRO:HB3	48:M1:38:GLU:OE2	2.21	0.40
35:SM:39:PRO:HG2	35:SM:41:SER:HB2	5.02	0.40
36:1:1165:A:H2'	36:1:1166:G:O4'	2.22	0.40
36:1:150:A:C4	36:1:151:A:C8	3.09	0.40
36:1:1645:U:H5'	36:1:1646:G:OP2	2.21	0.40
36:1:166:C:C4	36:1:167:U:C5	3.10	0.40
36:1:189:G:N2	36:1:191:U:C2	2.90	0.40
36:1:211:A:O4'	36:1:229:G:H1'	2.22	0.40
36:1:2184:U:N3	36:1:2185:G:N7	2.69	0.40
36:1:2747:A:C2	36:1:2748:A:C6	3.09	0.40
36:1:3160:U:H2'	36:1:3161:C:C6	2.56	0.40
36:1:2614:G:OP1	92:1:3705:OHX:N6	2.55	0.40
36:1:407:A:C2'	36:1:408:A:H5'	2.51	0.40
36:1:573:C:C4	36:1:574:U:C4	3.09	0.40
36:1:730:C:N3	36:1:731:U:C5	2.89	0.40
36:1:94:G:OP2	64:N8:54:GLY:N	2.40	0.40
1:2:1374:A:C4	1:2:1375:U:C5	3.09	0.40
1:2:1169:U:P	1:2:1439:C:HO2'	2.44	0.40
1:2:1578:U:H3'	1:2:1579:C:O2	2.21	0.40
92:2:1914:OHX:N5	92:2:1938:OHX:N2	2.69	0.40
92:2:1970:OHX:N1	92:2:1985:OHX:N1	2.69	0.40
1:2:426:G:N2	1:2:427:C:C2	2.90	0.40
1:2:512:A:HO2'	1:2:513:U:P	2.45	0.40
1:2:616:G:H5''	1:2:617:U:OP1	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:649:U:HO2'	1:2:650:U:P	2.41	0.40
1:2:784:G:H2'	1:2:785:G:O4'	2.21	0.40
1:2:797:A:H2'	1:2:797:A:N3	2.35	0.40
1:2:867:A:O2'	1:2:868:G:H5'	2.22	0.40
1:2:960:A:N3	1:2:1008:A:C2	2.90	0.40
85:5:1094:U:H6	85:5:1094:U:OP1	2.05	0.40
85:5:1533:U:O2'	85:5:1534:A:H5'	2.21	0.40
85:5:1666:G:H2'	85:5:1667:A:C8	2.56	0.40
85:5:2261:G:H21	85:5:2262:A:H61	1.68	0.40
85:5:3005:A:C2	85:5:3140:G:N3	2.89	0.40
85:5:3385:U:C2	85:5:3386:G:C8	3.09	0.40
85:5:521:A:N6	85:5:522:A:C6	2.90	0.40
85:5:65:A:C2	85:5:110:G:C8	3.09	0.40
54:M8:43:PRO:CB	85:5:728:G:H5''	190.69	0.40
85:5:981:U:O2'	85:5:982:C:O5'	2.40	0.40
80:6:1094:G:C6	80:6:1095:U:C4	3.10	0.40
80:6:1134:C:H6	80:6:1134:C:O5'	2.05	0.40
80:6:1372:U:C4	80:6:1373:C:C4	3.09	0.40
80:6:1410:A:H2'	80:6:1411:A:O4'	2.22	0.40
80:6:1639:C:N4	80:6:1640:C:N3	2.69	0.40
80:6:1684:U:H1'	80:6:1718:G:N2	2.37	0.40
80:6:26:A:O2'	80:6:27:U:P	2.79	0.40
80:6:271:A:H1'	80:6:285:G:H22	1.87	0.40
80:6:541:A:H8	80:6:541:A:P	2.45	0.40
13:C1:86:ILE:HD13	13:C1:86:ILE:HG21	2.38	0.40
17:C5:43:ARG:O	17:C5:47:ARG:HG3	2.21	0.40
18:C6:7:VAL:N	18:C6:22:VAL:O	2.81	0.40
18:C6:4:VAL:HG12	18:C6:23:LYS:HB2	5.78	0.40
18:C6:41:PRO:HG2	18:C6:78:VAL:HG21	2.03	0.40
1:2:1548:C:OP1	20:C8:41:ARG:HG3	2.21	0.40
20:C8:72:ILE:HG23	20:C8:79:TYR:CD2	4.73	0.40
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.86	0.40
2:S0:52:LYS:HD3	23:D1:82:VAL:HG13	5.16	0.40
24:D2:5:SER:O	24:D2:7:LEU:N	4.41	0.40
26:D4:86:GLU:OE1	26:D4:90:ARG:HD2	2.35	0.40
28:D6:12:LYS:O	28:D6:13:LYS:HB2	4.13	0.40
28:D6:4:LYS:HG3	28:D6:4:LYS:O	2.20	0.40
29:D7:61:THR:OG1	29:D7:62:ILE:N	2.54	0.40
33:E1:138:ARG:O	33:E1:139:LEU:HG	2.21	0.40
39:L2:118:GLU:HG2	39:L2:156:LYS:HZ3	1.85	0.40
39:L2:129:ALA:O	39:L2:130:SER:C	2.74	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:45:VAL:HG12	39:L2:61:VAL:HG13	4.52	0.40
42:L5:187:THR:CG2	42:L5:189:GLU:HB2	3.57	0.40
42:L5:190:ILE:O	42:L5:190:ILE:HG23	2.22	0.40
43:L6:22:ARG:C	43:L6:23:LYS:HG2	2.42	0.40
44:L7:101:LYS:O	44:L7:104:GLN:HB2	2.21	0.40
44:L7:130:ILE:HG21	44:L7:130:ILE:HD13	1.85	0.40
44:L7:77:VAL:CG1	57:N1:139:ARG:HB2	6.40	0.40
36:1:3024:A:O2'	46:L9:97:PHE:HE2	2.04	0.40
47:M0:156:ARG:O	47:M0:157:TYR:C	2.59	0.40
48:M1:173:ASP:HB3	48:M1:174:LYS:H	2.43	0.40
42:L5:3:PHE:HZ	48:M1:99:THR:HG22	1.85	0.40
49:M3:154:VAL:HG23	49:M3:156:ALA:H	3.29	0.40
49:M3:172:LEU:HA	49:M3:172:LEU:HD23	1.70	0.40
36:1:80:G:OP1	51:M5:189:LYS:HE2	2.21	0.40
52:M6:167:TYR:O	52:M6:167:TYR:CD2	3.72	0.40
53:M7:78:VAL:HG22	53:M7:80:LYS:H	3.11	0.40
54:M8:135:GLN:OE1	54:M8:135:GLN:N	2.48	0.40
54:M8:60:PRO:HG2	54:M8:142:GLY:HA3	3.21	0.40
55:M9:19:LYS:C	55:M9:21:LYS:H	2.25	0.40
55:M9:96:ILE:HG21	55:M9:96:ILE:HD13	2.14	0.40
56:N0:109:ASP:O	56:N0:110:MET:C	2.85	0.40
57:N1:68:THR:HG23	57:N1:71:SER:H	1.87	0.40
59:N3:33:ASN:HD22	59:N3:33:ASN:HA	3.54	0.40
61:N5:57:LEU:HD23	61:N5:57:LEU:HA	4.56	0.40
61:N5:61:LYS:HZ1	38:8:59:A:H1'	68.27	0.40
62:N6:51:ARG:HG3	62:N6:52:ARG:O	4.82	0.40
63:N7:99:GLU:OE2	63:N7:100:THR:HG23	5.36	0.40
63:N7:46:ILE:HD12	63:N7:47:GLU:N	3.02	0.40
64:N8:74:ASN:HB3	64:N8:115:LYS:HB2	2.03	0.40
66:O0:85:PHE:HB2	66:O0:86:ARG:H	2.04	0.40
43:L6:3:ALA:HB1	68:O2:75:LEU:HD13	2.83	0.40
69:O3:6:ARG:HG2	69:O3:8:TYR:H	1.94	0.40
71:O5:45:LYS:C	71:O5:47:VAL:N	2.74	0.40
71:O5:68:GLN:O	71:O5:71:LYS:N	2.55	0.40
72:O6:43:LEU:O	72:O6:43:LEU:HD22	2.90	0.40
36:1:293:C:O2'	72:O6:76:ARG:O	2.20	0.40
73:O7:69:HIS:HB3	73:O7:72:ARG:NH2	2.37	0.40
36:1:2653:C:OP1	78:Q2:89:LYS:HB2	2.21	0.40
79:Q3:21:SER:HA	79:Q3:24:ARG:NH1	2.36	0.40
2:S0:71:GLU:HA	2:S0:95:ALA:H	1.87	0.40
3:S1:198:GLU:O	3:S1:198:GLU:HG3	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:201:THR:HB	3:S1:207:LEU:HD12	6.33	0.40
5:S3:116:ARG:O	5:S3:120:TYR:HB2	2.21	0.40
5:S3:132:LYS:HD3	5:S3:191:ASP:HA	2.45	0.40
6:S4:116:ASP:N	6:S4:116:ASP:OD1	3.62	0.40
6:S4:52:LEU:HD23	6:S4:52:LEU:HA	1.74	0.40
8:S6:68:LEU:O	8:S6:69:LEU:O	2.62	0.40
9:S7:21:ALA:O	9:S7:24:PHE:N	3.15	0.40
9:S7:31:SER:HB2	9:S7:32:PRO:HD3	2.03	0.40
9:S7:7:LYS:HB2	9:S7:7:LYS:HE3	4.76	0.40
11:S9:11:THR:O	11:S9:47:PHE:CD2	3.77	0.40
11:S9:54:ARG:HA	11:S9:57:ARG:HE	2.78	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S0	204/206 (99%)	151 (74%)	38 (19%)	15 (7%)	1	14
2	s0	204/206 (99%)	151 (74%)	34 (17%)	19 (9%)	1	9
3	S1	212/216 (98%)	154 (73%)	34 (16%)	24 (11%)	0	6
3	s1	214/216 (99%)	166 (78%)	32 (15%)	16 (8%)	1	13
4	S2	215/217 (99%)	182 (85%)	24 (11%)	9 (4%)	3	28
4	s2	215/217 (99%)	172 (80%)	34 (16%)	9 (4%)	3	28
5	S3	221/223 (99%)	186 (84%)	24 (11%)	11 (5%)	2	24
5	s3	221/223 (99%)	176 (80%)	30 (14%)	15 (7%)	1	17
6	S4	258/260 (99%)	197 (76%)	45 (17%)	16 (6%)	2	19
6	s4	258/260 (99%)	197 (76%)	42 (16%)	19 (7%)	1	14
7	S5	204/206 (99%)	169 (83%)	20 (10%)	15 (7%)	1	14

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	s5	204/206 (99%)	159 (78%)	35 (17%)	10 (5%)	2	24
8	S6	224/226 (99%)	186 (83%)	23 (10%)	15 (7%)	1	17
8	s6	216/226 (96%)	182 (84%)	22 (10%)	12 (6%)	2	21
9	S7	182/186 (98%)	134 (74%)	36 (20%)	12 (7%)	1	17
9	s7	184/186 (99%)	143 (78%)	28 (15%)	13 (7%)	1	15
10	S8	184/188 (98%)	150 (82%)	25 (14%)	9 (5%)	2	24
10	s8	184/188 (98%)	156 (85%)	23 (12%)	5 (3%)	6	40
11	S9	183/185 (99%)	143 (78%)	33 (18%)	7 (4%)	4	31
11	s9	183/185 (99%)	149 (81%)	26 (14%)	8 (4%)	3	27
12	C0	82/96 (85%)	69 (84%)	10 (12%)	3 (4%)	4	32
13	C1	145/155 (94%)	113 (78%)	28 (19%)	4 (3%)	6	39
13	c1	144/155 (93%)	115 (80%)	25 (17%)	4 (3%)	6	39
14	C2	118/124 (95%)	76 (64%)	26 (22%)	16 (14%)	0	4
14	c2	118/124 (95%)	77 (65%)	30 (25%)	11 (9%)	1	9
15	C3	148/150 (99%)	125 (84%)	17 (12%)	6 (4%)	3	29
15	c3	148/150 (99%)	122 (82%)	18 (12%)	8 (5%)	2	22
16	C4	125/128 (98%)	90 (72%)	23 (18%)	12 (10%)	1	9
16	c4	126/128 (98%)	101 (80%)	15 (12%)	10 (8%)	1	12
17	C5	121/135 (90%)	90 (74%)	20 (16%)	11 (9%)	1	9
17	c5	125/135 (93%)	89 (71%)	23 (18%)	13 (10%)	0	7
18	C6	139/142 (98%)	115 (83%)	13 (9%)	11 (8%)	1	12
18	c6	140/142 (99%)	121 (86%)	15 (11%)	4 (3%)	5	38
19	C7	116/120 (97%)	90 (78%)	16 (14%)	10 (9%)	1	11
20	C8	143/145 (99%)	113 (79%)	22 (15%)	8 (6%)	2	21
20	c8	143/145 (99%)	113 (79%)	19 (13%)	11 (8%)	1	13
21	C9	141/143 (99%)	121 (86%)	10 (7%)	10 (7%)	1	15
21	c9	141/143 (99%)	124 (88%)	13 (9%)	4 (3%)	6	39
22	D0	105/110 (96%)	89 (85%)	13 (12%)	3 (3%)	5	38
22	d0	108/110 (98%)	86 (80%)	15 (14%)	7 (6%)	1	18
23	D1	85/87 (98%)	62 (73%)	11 (13%)	12 (14%)	0	4
23	d1	85/87 (98%)	64 (75%)	13 (15%)	8 (9%)	1	9

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
24	D2	127/129 (98%)	109 (86%)	14 (11%)	4 (3%)	5	37
24	d2	127/129 (98%)	105 (83%)	19 (15%)	3 (2%)	7	42
25	D3	142/144 (99%)	109 (77%)	26 (18%)	7 (5%)	2	24
25	d3	142/144 (99%)	116 (82%)	23 (16%)	3 (2%)	8	45
26	D4	132/134 (98%)	103 (78%)	20 (15%)	9 (7%)	1	17
26	d4	132/134 (98%)	109 (83%)	14 (11%)	9 (7%)	1	17
27	D5	68/70 (97%)	46 (68%)	13 (19%)	9 (13%)	0	4
27	d5	67/70 (96%)	53 (79%)	10 (15%)	4 (6%)	2	19
28	D6	95/97 (98%)	53 (56%)	26 (27%)	16 (17%)	0	2
28	d6	95/97 (98%)	75 (79%)	13 (14%)	7 (7%)	1	14
29	D7	79/81 (98%)	59 (75%)	20 (25%)	0	100	100
29	d7	79/81 (98%)	58 (73%)	18 (23%)	3 (4%)	4	31
30	D8	61/63 (97%)	49 (80%)	9 (15%)	3 (5%)	2	24
30	d8	61/63 (97%)	45 (74%)	14 (23%)	2 (3%)	4	35
31	D9	51/53 (96%)	40 (78%)	9 (18%)	2 (4%)	3	31
31	d9	51/53 (96%)	42 (82%)	2 (4%)	7 (14%)	0	4
32	E0	58/62 (94%)	46 (79%)	8 (14%)	4 (7%)	1	16
32	e0	60/62 (97%)	46 (77%)	11 (18%)	3 (5%)	2	24
33	E1	69/76 (91%)	38 (55%)	22 (32%)	9 (13%)	0	5
33	e1	74/76 (97%)	36 (49%)	19 (26%)	19 (26%)	0	0
34	SR	316/318 (99%)	262 (83%)	41 (13%)	13 (4%)	3	29
35	SM	120/159 (76%)	94 (78%)	15 (12%)	11 (9%)	1	9
39	L2	250/252 (99%)	218 (87%)	25 (10%)	7 (3%)	6	39
39	l2	250/252 (99%)	200 (80%)	32 (13%)	18 (7%)	1	15
40	L3	384/386 (100%)	323 (84%)	44 (12%)	17 (4%)	3	27
40	l3	384/386 (100%)	329 (86%)	36 (9%)	19 (5%)	2	24
41	L4	359/361 (99%)	288 (80%)	44 (12%)	27 (8%)	1	13
41	l4	359/361 (99%)	284 (79%)	48 (13%)	27 (8%)	1	13
42	L5	294/296 (99%)	232 (79%)	43 (15%)	19 (6%)	1	18
42	l5	292/296 (99%)	236 (81%)	41 (14%)	15 (5%)	2	23
43	L6	152/175 (87%)	130 (86%)	19 (12%)	3 (2%)	9	46

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
43	l6	153/175 (87%)	128 (84%)	22 (14%)	3 (2%)	9	46
44	L7	220/223 (99%)	184 (84%)	27 (12%)	9 (4%)	3	29
44	l7	221/223 (99%)	185 (84%)	30 (14%)	6 (3%)	6	40
45	L8	231/233 (99%)	180 (78%)	34 (15%)	17 (7%)	1	14
46	L9	189/191 (99%)	155 (82%)	22 (12%)	12 (6%)	1	18
46	l9	189/191 (99%)	161 (85%)	24 (13%)	4 (2%)	8	45
47	M0	207/220 (94%)	157 (76%)	39 (19%)	11 (5%)	2	22
47	m0	209/220 (95%)	162 (78%)	33 (16%)	14 (7%)	1	17
48	M1	167/169 (99%)	125 (75%)	22 (13%)	20 (12%)	0	6
48	m1	167/169 (99%)	132 (79%)	27 (16%)	8 (5%)	2	25
49	M3	191/194 (98%)	150 (78%)	31 (16%)	10 (5%)	2	23
49	m3	192/194 (99%)	150 (78%)	29 (15%)	13 (7%)	1	17
50	M4	134/137 (98%)	112 (84%)	15 (11%)	7 (5%)	2	23
50	m4	135/137 (98%)	107 (79%)	24 (18%)	4 (3%)	5	37
51	M5	201/203 (99%)	162 (81%)	33 (16%)	6 (3%)	5	37
51	m5	201/203 (99%)	164 (82%)	30 (15%)	7 (4%)	4	34
52	M6	195/197 (99%)	173 (89%)	19 (10%)	3 (2%)	12	52
52	m6	195/197 (99%)	176 (90%)	13 (7%)	6 (3%)	5	37
53	M7	181/183 (99%)	141 (78%)	29 (16%)	11 (6%)	2	19
53	m7	153/183 (84%)	128 (84%)	20 (13%)	5 (3%)	4	35
54	M8	183/185 (99%)	155 (85%)	22 (12%)	6 (3%)	4	35
54	m8	183/185 (99%)	152 (83%)	21 (12%)	10 (6%)	2	22
55	M9	186/188 (99%)	161 (87%)	19 (10%)	6 (3%)	5	36
55	m9	186/188 (99%)	163 (88%)	23 (12%)	0	100	100
56	N0	170/172 (99%)	139 (82%)	27 (16%)	4 (2%)	7	42
56	n0	170/172 (99%)	149 (88%)	20 (12%)	1 (1%)	28	70
57	N1	157/159 (99%)	129 (82%)	22 (14%)	6 (4%)	4	31
57	n1	157/159 (99%)	138 (88%)	15 (10%)	4 (2%)	6	41
58	N2	98/100 (98%)	72 (74%)	19 (19%)	7 (7%)	1	15
58	n2	96/100 (96%)	70 (73%)	23 (24%)	3 (3%)	5	37
59	N3	134/136 (98%)	108 (81%)	21 (16%)	5 (4%)	4	32

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
59	n3	134/136 (98%)	113 (84%)	19 (14%)	2 (2%)	12	52
60	N4	96/98 (98%)	75 (78%)	16 (17%)	5 (5%)	2	23
61	N5	119/121 (98%)	99 (83%)	17 (14%)	3 (2%)	6	41
61	n5	118/121 (98%)	90 (76%)	16 (14%)	12 (10%)	1	8
62	N6	124/126 (98%)	109 (88%)	12 (10%)	3 (2%)	7	42
62	n6	124/126 (98%)	104 (84%)	15 (12%)	5 (4%)	3	30
63	N7	133/135 (98%)	106 (80%)	17 (13%)	10 (8%)	1	13
63	n7	133/135 (98%)	93 (70%)	26 (20%)	14 (10%)	0	7
64	N8	146/148 (99%)	112 (77%)	28 (19%)	6 (4%)	3	29
64	n8	146/148 (99%)	118 (81%)	17 (12%)	11 (8%)	1	13
65	N9	56/58 (97%)	47 (84%)	8 (14%)	1 (2%)	10	48
65	n9	56/58 (97%)	39 (70%)	11 (20%)	6 (11%)	0	7
66	O0	95/100 (95%)	87 (92%)	7 (7%)	1 (1%)	17	59
66	o0	98/100 (98%)	83 (85%)	11 (11%)	4 (4%)	3	29
67	O1	107/109 (98%)	90 (84%)	10 (9%)	7 (6%)	1	18
67	o1	107/109 (98%)	84 (78%)	16 (15%)	7 (6%)	1	18
68	O2	125/127 (98%)	112 (90%)	11 (9%)	2 (2%)	11	50
68	o2	125/127 (98%)	100 (80%)	18 (14%)	7 (6%)	2	21
69	O3	104/106 (98%)	90 (86%)	8 (8%)	6 (6%)	2	20
69	o3	104/106 (98%)	92 (88%)	10 (10%)	2 (2%)	9	47
70	O4	110/112 (98%)	91 (83%)	17 (16%)	2 (2%)	10	48
70	o4	110/112 (98%)	92 (84%)	15 (14%)	3 (3%)	6	40
71	O5	117/119 (98%)	105 (90%)	9 (8%)	3 (3%)	6	40
71	o5	117/119 (98%)	93 (80%)	17 (14%)	7 (6%)	2	19
72	O6	97/99 (98%)	76 (78%)	11 (11%)	10 (10%)	0	8
72	o6	97/99 (98%)	84 (87%)	7 (7%)	6 (6%)	2	19
73	O7	85/87 (98%)	72 (85%)	10 (12%)	3 (4%)	4	34
73	o7	85/87 (98%)	66 (78%)	17 (20%)	2 (2%)	7	42
74	O8	75/77 (97%)	61 (81%)	11 (15%)	3 (4%)	3	30
74	o8	75/77 (97%)	59 (79%)	11 (15%)	5 (7%)	1	17
75	O9	48/50 (96%)	39 (81%)	8 (17%)	1 (2%)	8	45

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
75	o9	48/50 (96%)	43 (90%)	2 (4%)	3 (6%)	1	18
76	Q0	50/52 (96%)	41 (82%)	4 (8%)	5 (10%)	1	8
76	q0	50/52 (96%)	46 (92%)	3 (6%)	1 (2%)	9	46
77	Q1	23/25 (92%)	19 (83%)	4 (17%)	0	100	100
77	q1	23/25 (92%)	19 (83%)	4 (17%)	0	100	100
78	Q2	103/105 (98%)	76 (74%)	20 (19%)	7 (7%)	1	17
78	q2	103/105 (98%)	89 (86%)	9 (9%)	5 (5%)	2	24
79	Q3	89/91 (98%)	71 (80%)	16 (18%)	2 (2%)	8	44
79	q3	89/91 (98%)	70 (79%)	15 (17%)	4 (4%)	3	27
81	c0	78/96 (81%)	63 (81%)	8 (10%)	7 (9%)	1	10
82	c7	113/121 (93%)	87 (77%)	19 (17%)	7 (6%)	2	19
83	sR	316/318 (99%)	252 (80%)	51 (16%)	13 (4%)	3	29
84	sM	61/104 (59%)	45 (74%)	12 (20%)	4 (7%)	1	17
86	l8	224/231 (97%)	178 (80%)	28 (12%)	18 (8%)	1	12
88	n4	133/135 (98%)	109 (82%)	12 (9%)	12 (9%)	1	10
89	p0	117/143 (82%)	98 (84%)	15 (13%)	4 (3%)	4	35
All	All	22183/22802 (97%)	17856 (80%)	3104 (14%)	1223 (6%)	2	22

All (1223) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	39	ASN
2	S0	158	VAL
2	S0	191	ARG
2	S0	195	TRP
2	S0	202	TYR
3	S1	37	THR
3	S1	63	GLY
3	S1	132	ASP
3	S1	177	GLN
4	S2	106	ASP
5	S3	62	ASN
5	S3	65	ARG
5	S3	93	ASP
5	S3	220	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	S4	82	TYR
6	S4	104	ASP
7	S5	31	GLU
7	S5	39	GLU
7	S5	51	VAL
7	S5	153	GLY
8	S6	153	VAL
8	S6	154	ARG
8	S6	173	PRO
9	S7	64	VAL
9	S7	131	PHE
10	S8	149	SER
11	S9	93	LEU
11	S9	134	ILE
11	S9	169	PRO
12	C0	60	SER
14	C2	127	GLY
15	C3	28	LEU
15	C3	138	ASN
17	C5	125	PRO
18	C6	32	ASN
18	C6	41	PRO
18	C6	114	ARG
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
19	C7	124	VAL
20	C8	14	ILE
20	C8	92	ILE
21	C9	31	PRO
21	C9	53	TRP
21	C9	69	LYS
24	D2	78	ARG
25	D3	92	CYS
25	D3	138	GLU
26	D4	36	SER
26	D4	100	VAL
27	D5	44	GLN
27	D5	71	ILE
28	D6	45	VAL
28	D6	82	ARG
28	D6	84	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	D6	86	VAL
32	E0	47	VAL
32	E0	51	ASN
33	E1	84	VAL
33	E1	144	CYS
34	SR	50	ASP
34	SR	161	ALA
35	SM	86	ASN
35	SM	140	ASP
39	L2	47	GLN
40	L3	5	LYS
40	L3	140	ASP
40	L3	348	ARG
41	L4	130	ALA
41	L4	270	SER
41	L4	292	SER
41	L4	293	SER
41	L4	313	LEU
41	L4	339	LEU
42	L5	57	ASN
42	L5	213	ASP
42	L5	233	ALA
42	L5	234	ASP
42	L5	293	LEU
43	L6	5	LYS
43	L6	98	VAL
44	L7	24	GLU
44	L7	175	LYS
45	L8	25	PRO
45	L8	31	PRO
45	L8	254	ASP
45	L8	255	SER
46	L9	50	ASN
46	L9	190	ASP
48	M1	8	PRO
48	M1	11	ASP
48	M1	89	TYR
48	M1	94	ARG
48	M1	115	LYS
48	M1	140	ARG
48	M1	151	SER
48	M1	152	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	M1	165	GLN
49	M3	51	LEU
49	M3	129	ASN
50	M4	8	LYS
50	M4	9	ALA
50	M4	36	VAL
51	M5	74	PRO
51	M5	81	TYR
51	M5	83	LYS
52	M6	111	PRO
53	M7	67	ILE
53	M7	161	ALA
53	M7	169	THR
58	N2	31	ALA
58	N2	52	ASN
60	N4	80	ARG
60	N4	81	PRO
61	N5	44	PRO
62	N6	31	LEU
63	N7	30	ASP
63	N7	35	SER
64	N8	57	GLY
64	N8	96	LYS
64	N8	97	GLU
67	O1	83	GLU
69	O3	59	VAL
71	O5	89	ARG
71	O5	119	LYS
72	O6	33	ALA
73	O7	87	SER
76	Q0	78	ILE
76	Q0	117	HIS
78	Q2	30	ALA
78	Q2	100	LYS
79	Q3	18	TYR
2	s0	4	PRO
2	s0	29	VAL
2	s0	65	ALA
2	s0	66	ALA
2	s0	68	PRO
2	s0	164	ASN
2	s0	189	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	s0	206	ASP
3	s1	37	THR
3	s1	106	THR
3	s1	232	HIS
4	s2	92	ALA
4	s2	249	ALA
5	s3	219	ALA
5	s3	220	PRO
6	s4	163	ASP
6	s4	195	ILE
6	s4	196	VAL
7	s5	100	ASN
7	s5	101	GLY
7	s5	154	ALA
8	s6	70	PRO
8	s6	154	ARG
8	s6	164	LYS
8	s6	173	PRO
8	s6	174	LYS
9	s7	64	VAL
9	s7	66	SER
9	s7	131	PHE
9	s7	155	ASP
9	s7	163	ASP
81	c0	2	LEU
13	c1	133	LYS
14	c2	101	ALA
15	c3	66	ILE
16	c4	51	ASP
17	c5	11	VAL
17	c5	17	TYR
17	c5	52	LYS
17	c5	125	PRO
17	c5	126	VAL
18	c6	116	LEU
82	c7	67	ARG
82	c7	88	VAL
82	c7	99	VAL
20	c8	14	ILE
20	c8	91	ASP
20	c8	135	GLY
21	c9	29	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	d0	49	ASN
22	d0	118	VAL
23	d1	42	GLU
24	d2	56	HIS
24	d2	68	ARG
26	d4	32	ARG
26	d4	33	ALA
29	d7	59	CYS
29	d7	60	SER
31	d9	6	VAL
31	d9	16	LYS
33	e1	87	THR
33	e1	92	LYS
33	e1	102	VAL
83	sR	163	ASP
83	sR	165	ASP
83	sR	226	ALA
39	l2	56	ALA
39	l2	142	ASP
39	l2	144	ASN
39	l2	194	ASN
39	l2	217	GLN
39	l2	227	ARG
39	l2	238	ILE
40	l3	115	LYS
40	l3	129	ALA
40	l3	140	ASP
40	l3	348	ARG
40	l3	385	LYS
40	l3	386	ASP
41	l4	15	ALA
41	l4	25	VAL
41	l4	90	PHE
41	l4	252	GLU
41	l4	272	VAL
41	l4	305	ALA
41	l4	311	HIS
42	l5	9	SER
42	l5	123	GLU
42	l5	258	LYS
42	l5	260	PHE
42	l5	270	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	l7	158	LYS
44	l7	191	VAL
44	l7	228	SER
86	l8	25	PRO
86	l8	122	LYS
86	l8	208	GLU
86	l8	223	ALA
46	l9	167	VAL
47	m0	82	ARG
47	m0	145	LYS
47	m0	196	PHE
48	m1	8	PRO
48	m1	108	GLU
48	m1	167	TYR
49	m3	47	ALA
49	m3	150	PRO
50	m4	136	ALA
51	m5	91	GLU
51	m5	169	LYS
52	m6	16	VAL
52	m6	85	ARG
52	m6	110	PRO
54	m8	84	VAL
54	m8	99	THR
56	n0	129	ILE
57	n1	55	LYS
59	n3	68	GLU
88	n4	26	SER
61	n5	40	LEU
61	n5	48	SER
62	n6	83	ASP
62	n6	84	LYS
63	n7	3	LYS
63	n7	5	LEU
63	n7	7	ALA
63	n7	17	ARG
63	n7	129	TRP
64	n8	76	ASP
65	n9	19	ASN
65	n9	21	ILE
65	n9	23	LYS
65	n9	24	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
66	o0	10	ILE
67	o1	83	GLU
68	o2	5	PRO
68	o2	19	ARG
68	o2	124	GLY
68	o2	125	ARG
69	o3	60	ARG
70	o4	82	ALA
71	o5	54	VAL
72	o6	3	VAL
72	o6	33	ALA
72	o6	34	SER
73	o7	61	THR
74	o8	18	ALA
75	o9	4	GLN
78	q2	78	LYS
79	q3	18	TYR
89	p0	93	LEU
2	S0	36	TYR
2	S0	190	ASP
3	S1	26	ARG
3	S1	35	PRO
3	S1	58	SER
3	S1	158	SER
3	S1	206	PRO
3	S1	221	PRO
4	S2	134	LEU
4	S2	148	LEU
6	S4	12	LEU
6	S4	150	PRO
7	S5	43	PHE
7	S5	63	GLN
7	S5	64	VAL
7	S5	65	ARG
7	S5	101	GLY
7	S5	204	GLY
8	S6	25	ARG
8	S6	122	GLU
8	S6	165	GLY
9	S7	29	ASN
9	S7	32	PRO
9	S7	116	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	S7	186	PRO
10	S8	59	ARG
13	C1	133	LYS
14	C2	83	GLU
14	C2	91	VAL
14	C2	106	ILE
14	C2	112	ALA
14	C2	119	SER
14	C2	125	ASN
14	C2	130	THR
15	C3	22	ALA
15	C3	68	GLY
16	C4	39	ILE
16	C4	42	VAL
16	C4	51	ASP
16	C4	92	LYS
16	C4	126	THR
17	C5	48	GLY
17	C5	126	VAL
18	C6	39	VAL
18	C6	97	VAL
18	C6	136	SER
18	C6	142	TYR
19	C7	87	GLU
20	C8	60	GLU
21	C9	116	ILE
23	D1	2	GLU
23	D1	7	GLN
23	D1	15	ARG
23	D1	42	GLU
23	D1	82	VAL
25	D3	3	LYS
25	D3	112	LYS
26	D4	53	ASP
26	D4	54	ALA
27	D5	43	ASP
30	D8	36	THR
32	E0	59	GLY
33	E1	98	VAL
33	E1	145	HIS
34	SR	51	ASP
34	SR	146	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	SR	194	GLY
34	SR	318	ALA
35	SM	46	LYS
35	SM	47	ALA
35	SM	87	THR
39	L2	143	GLU
40	L3	4	ARG
40	L3	155	ALA
40	L3	174	LYS
40	L3	186	GLY
40	L3	221	THR
41	L4	15	ALA
41	L4	59	GLN
41	L4	183	LYS
41	L4	220	ARG
41	L4	259	ASP
41	L4	268	ALA
41	L4	273	GLY
41	L4	311	HIS
42	L5	22	ARG
42	L5	125	VAL
42	L5	137	ASP
42	L5	188	GLU
42	L5	252	ALA
42	L5	253	PHE
43	L6	32	ALA
44	L7	160	ARG
45	L8	190	VAL
46	L9	2	LYS
46	L9	59	ASN
46	L9	76	ASP
46	L9	77	ASN
46	L9	95	ALA
47	M0	117	GLY
47	M0	187	ALA
47	M0	194	GLY
47	M0	207	GLU
47	M0	218	ALA
48	M1	95	ASN
48	M1	111	ASP
48	M1	114	ILE
48	M1	167	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	M1	173	ASP
49	M3	47	ALA
49	M3	76	THR
49	M3	136	GLU
50	M4	137	LYS
53	M7	157	VAL
53	M7	159	LYS
56	N0	53	LYS
57	N1	57	TYR
57	N1	124	VAL
57	N1	146	ASN
58	N2	11	ILE
58	N2	51	GLY
59	N3	3	GLY
59	N3	5	GLY
59	N3	132	ASN
60	N4	64	THR
60	N4	97	LYS
61	N5	117	ASN
62	N6	84	LYS
63	N7	4	PHE
63	N7	16	GLY
63	N7	124	ALA
63	N7	125	GLY
66	O0	96	GLY
67	O1	6	ASP
69	O3	70	LYS
69	O3	91	ALA
71	O5	39	PRO
72	O6	21	THR
72	O6	27	SER
72	O6	64	SER
72	O6	77	LEU
72	O6	94	ILE
74	O8	74	LYS
75	O9	4	GLN
78	Q2	15	LYS
78	Q2	17	CYS
78	Q2	94	GLY
79	Q3	84	ARG
2	s0	95	ALA
2	s0	148	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	s0	200	ASP
3	s1	26	ARG
3	s1	82	ARG
3	s1	147	ALA
3	s1	177	GLN
4	s2	91	ARG
4	s2	163	GLY
5	s3	44	THR
5	s3	61	GLU
5	s3	76	ARG
5	s3	90	ARG
5	s3	211	PRO
5	s3	216	PRO
6	s4	104	ASP
7	s5	39	GLU
7	s5	43	PHE
8	s6	153	VAL
9	s7	74	GLN
10	s8	41	LYS
81	c0	23	ALA
81	c0	32	HIS
13	c1	7	VAL
14	c2	89	ILE
14	c2	106	ILE
15	c3	26	PHE
15	c3	29	SER
15	c3	140	LYS
16	c4	124	ASP
16	c4	125	SER
17	c5	50	THR
17	c5	68	PRO
17	c5	127	ARG
17	c5	132	GLY
18	c6	42	GLU
20	c8	8	GLN
20	c8	18	LEU
20	c8	90	ASN
20	c8	92	ILE
21	c9	28	LEU
22	d0	15	GLN
22	d0	96	PRO
23	d1	77	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	d3	27	ASN
25	d3	70	LYS
26	d4	35	VAL
26	d4	54	ALA
26	d4	78	SER
26	d4	117	LYS
27	d5	85	LYS
27	d5	104	ALA
28	d6	15	ARG
31	d9	22	ARG
33	e1	83	LYS
33	e1	98	VAL
33	e1	103	LEU
33	e1	127	GLY
33	e1	137	ASP
83	sR	298	GLY
39	l2	212	GLY
39	l2	239	ALA
39	l2	247	ARG
40	l3	3	HIS
40	l3	138	ALA
40	l3	142	ALA
40	l3	186	GLY
40	l3	187	SER
40	l3	247	ARG
40	l3	302	LYS
40	l3	368	GLY
41	l4	11	LEU
41	l4	14	GLU
41	l4	43	ASN
41	l4	55	LYS
41	l4	146	PRO
41	l4	220	ARG
41	l4	233	LEU
41	l4	342	LYS
41	l4	346	LYS
42	l5	115	LEU
42	l5	178	ASN
43	l6	10	TYR
86	l8	133	LYS
46	l9	2	LYS
46	l9	144	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
47	m0	3	ARG
47	m0	38	LYS
47	m0	75	TYR
47	m0	81	GLY
47	m0	83	ASP
47	m0	187	ALA
48	m1	65	ILE
49	m3	51	LEU
49	m3	62	THR
49	m3	134	GLU
49	m3	152	THR
50	m4	9	ALA
50	m4	11	ASN
51	m5	184	LYS
52	m6	5	PRO
53	m7	3	ARG
53	m7	88	VAL
53	m7	109	ALA
54	m8	95	GLU
57	n1	135	PRO
58	n2	35	LYS
58	n2	90	ARG
59	n3	42	SER
88	n4	63	ILE
88	n4	76	VAL
88	n4	133	THR
61	n5	55	ASN
61	n5	62	VAL
61	n5	77	GLU
62	n6	125	LYS
63	n7	85	TYR
63	n7	91	ALA
63	n7	92	PHE
63	n7	125	GLY
64	n8	15	VAL
64	n8	48	TYR
66	o0	85	PHE
66	o0	101	LEU
67	o1	5	LYS
67	o1	45	GLY
67	o1	99	ALA
70	o4	14	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
71	o5	81	ARG
71	o5	119	LYS
72	o6	20	MET
73	o7	87	SER
74	o8	17	ARG
75	o9	3	ALA
75	o9	39	ALA
78	q2	14	GLY
89	p0	68	SER
2	S0	5	ALA
2	S0	30	GLN
2	S0	94	GLY
3	S1	48	VAL
3	S1	54	LEU
3	S1	148	ASN
4	S2	91	ARG
4	S2	92	ALA
5	S3	143	ARG
5	S3	216	PRO
6	S4	23	LEU
6	S4	77	ARG
6	S4	168	LYS
6	S4	234	PRO
8	S6	138	ALA
8	S6	148	SER
8	S6	152	ASP
9	S7	74	GLN
9	S7	133	THR
10	S8	40	ALA
10	S8	120	THR
11	S9	98	ALA
13	C1	7	VAL
13	C1	55	ASP
14	C2	69	ALA
14	C2	93	ASP
14	C2	107	ASP
16	C4	75	GLY
16	C4	114	ARG
16	C4	124	ASP
17	C5	66	ALA
17	C5	69	GLU
17	C5	130	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	C6	14	LYS
18	C6	138	PHE
19	C7	115	LEU
20	C8	76	PRO
21	C9	33	TYR
21	C9	39	THR
21	C9	50	ALA
21	C9	119	LYS
23	D1	4	ASP
23	D1	8	LEU
23	D1	10	GLU
23	D1	12	TYR
25	D3	96	VAL
26	D4	4	ALA
26	D4	34	ASN
27	D5	39	ALA
27	D5	94	LYS
28	D6	85	ARG
33	E1	87	THR
33	E1	106	TYR
33	E1	118	ARG
34	SR	238	ASP
35	SM	48	ARG
39	L2	130	SER
40	L3	24	SER
40	L3	258	ALA
40	L3	374	ALA
41	L4	14	GLU
41	L4	90	PHE
41	L4	269	SER
42	L5	7	ALA
42	L5	185	PHE
42	L5	221	GLU
42	L5	295	GLY
44	L7	25	GLN
45	L8	32	LYS
45	L8	39	ALA
45	L8	75	ILE
46	L9	96	HIS
47	M0	82	ARG
47	M0	143	SER
47	M0	148	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	M1	55	ARG
48	M1	64	LYS
49	M3	19	GLN
49	M3	46	ILE
50	M4	10	SER
52	M6	110	PRO
53	M7	163	LYS
54	M8	99	THR
57	N1	38	ASP
58	N2	60	GLY
63	N7	102	GLU
63	N7	127	ASN
67	O1	84	ASP
67	O1	99	ALA
68	O2	125	ARG
69	O3	14	LEU
69	O3	90	PRO
72	O6	3	VAL
73	O7	20	ASN
73	O7	59	THR
74	O8	18	ALA
2	s0	8	ASP
2	s0	30	GLN
2	s0	92	HIS
2	s0	194	PRO
3	s1	40	ASN
3	s1	93	GLY
3	s1	117	TRP
3	s1	154	SER
4	s2	62	PRO
4	s2	236	PRO
5	s3	65	ARG
5	s3	160	SER
5	s3	180	GLY
6	s4	11	ARG
6	s4	107	GLY
6	s4	164	LEU
6	s4	232	GLY
8	s6	152	ASP
9	s7	11	GLN
9	s7	106	SER
9	s7	111	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	s7	156	SER
10	s8	101	ILE
10	s8	122	GLY
11	s9	82	ARG
11	s9	169	PRO
81	c0	30	ALA
14	c2	39	ASP
14	c2	107	ASP
14	c2	109	GLU
15	c3	139	TRP
16	c4	37	GLU
17	c5	80	MET
21	c9	142	GLU
22	d0	51	VAL
22	d0	72	ASN
23	d1	2	GLU
23	d1	40	ASP
27	d5	69	LEU
28	d6	58	VAL
30	d8	61	ARG
31	d9	17	GLY
31	d9	25	SER
33	e1	81	LYS
33	e1	84	VAL
33	e1	100	LEU
33	e1	110	ALA
33	e1	111	GLU
33	e1	128	ALA
83	sR	47	LEU
83	sR	97	GLY
83	sR	160	GLU
83	sR	161	LYS
83	sR	318	ALA
39	l2	143	GLU
40	l3	23	ALA
41	l4	24	ALA
41	l4	142	VAL
41	l4	157	GLU
41	l4	247	PHE
42	l5	163	LEU
42	l5	188	GLU
42	l5	252	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	l5	296	GLN
43	l6	98	VAL
44	l7	91	GLY
44	l7	112	ASN
86	l8	39	ALA
86	l8	69	LEU
86	l8	121	SER
86	l8	203	VAL
86	l8	239	GLY
47	m0	25	ALA
47	m0	146	ASP
47	m0	180	GLU
48	m1	40	LEU
48	m1	114	ILE
49	m3	87	ALA
50	m4	49	PRO
51	m5	86	ASN
51	m5	90	ASN
53	m7	37	ASN
53	m7	132	ALA
54	m8	108	ALA
54	m8	113	LYS
57	n1	127	GLN
88	n4	64	THR
88	n4	71	ARG
88	n4	83	THR
61	n5	24	LEU
61	n5	39	LYS
61	n5	47	ALA
63	n7	70	PRO
63	n7	103	GLN
63	n7	128	GLN
64	n8	12	ARG
64	n8	78	LEU
65	n9	25	LYS
67	o1	26	LYS
67	o1	84	ASP
68	o2	6	HIS
68	o2	17	PHE
71	o5	21	LEU
71	o5	37	SER
71	o5	82	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
71	o5	99	GLN
78	q2	17	CYS
2	S0	103	THR
2	S0	192	THR
3	S1	51	SER
3	S1	62	LYS
3	S1	176	VAL
4	S2	35	TRP
4	S2	150	GLN
5	S3	217	ILE
6	S4	95	THR
6	S4	166	SER
6	S4	195	ILE
6	S4	245	LYS
7	S5	58	LEU
7	S5	99	MET
7	S5	127	GLN
8	S6	69	LEU
8	S6	146	GLY
10	S8	10	LYS
10	S8	22	ARG
10	S8	52	ASN
10	S8	152	ILE
12	C0	64	TYR
16	C4	18	ARG
16	C4	109	GLY
17	C5	52	LYS
17	C5	54	ALA
19	C7	122	ILE
19	C7	125	SER
20	C8	61	LEU
20	C8	91	ASP
21	C9	85	SER
22	D0	21	LYS
22	D0	72	ASN
23	D1	16	LYS
23	D1	26	ALA
24	D2	30	SER
24	D2	71	LYS
25	D3	114	LYS
26	D4	5	VAL
26	D4	6	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	D4	35	VAL
28	D6	8	ASN
28	D6	11	ASN
28	D6	18	VAL
28	D6	46	GLU
30	D8	6	PRO
30	D8	61	ARG
33	E1	86	THR
34	SR	15	GLY
34	SR	163	ASP
35	SM	63	ASP
35	SM	139	GLU
39	L2	201	GLY
39	L2	251	LYS
40	L3	187	SER
41	L4	64	SER
41	L4	146	PRO
41	L4	233	LEU
42	L5	215	ASP
42	L5	258	LYS
42	L5	259	LYS
44	L7	163	LEU
45	L8	109	LEU
45	L8	189	LEU
45	L8	204	ARG
51	M5	52	GLY
53	M7	96	GLN
53	M7	158	ALA
53	M7	160	ALA
53	M7	164	LYS
54	M8	98	LYS
54	M8	162	ALA
55	M9	35	ALA
55	M9	53	LYS
55	M9	130	ASN
56	N0	24	LEU
57	N1	18	ASP
59	N3	16	GLY
63	N7	103	GLN
64	N8	47	LYS
67	O1	82	GLU
68	O2	27	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
69	O3	40	ASP
70	O4	82	ALA
72	O6	19	SER
72	O6	34	SER
74	O8	33	LYS
78	Q2	8	ARG
3	s1	209	ASN
4	s2	150	GLN
4	s2	235	LEU
4	s2	238	SER
5	s3	217	ILE
6	s4	30	ARG
6	s4	119	ALA
7	s5	29	ILE
7	s5	184	PHE
8	s6	68	LEU
8	s6	122	GLU
8	s6	156	PHE
9	s7	73	VAL
9	s7	133	THR
9	s7	146	GLY
10	s8	94	ASN
11	s9	6	ARG
11	s9	121	SER
11	s9	167	ALA
81	c0	31	LYS
81	c0	35	ILE
13	c1	130	PRO
16	c4	50	ALA
17	c5	130	ARG
18	c6	55	VAL
82	c7	63	LYS
82	c7	116	LYS
82	c7	117	LEU
20	c8	7	GLU
20	c8	60	GLU
20	c8	144	ARG
21	c9	33	TYR
23	d1	6	GLY
24	d2	5	SER
26	d4	51	GLU
28	d6	35	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	d6	76	SER
29	d7	24	LEU
30	d8	32	PHE
31	d9	7	TRP
32	e0	47	VAL
32	e0	60	PRO
33	e1	131	PHE
33	e1	146	SER
83	sR	52	GLN
83	sR	186	PHE
83	sR	237	GLN
84	sM	83	LYS
39	l2	249	SER
40	l3	244	ARG
41	l4	258	LEU
41	l4	345	GLU
44	l7	178	ILE
86	l8	26	LEU
86	l8	43	LYS
86	l8	124	ASP
47	m0	179	PRO
48	m1	95	ASN
49	m3	60	ALA
51	m5	81	TYR
51	m5	183	THR
54	m8	72	LYS
54	m8	97	PRO
57	n1	6	GLY
88	n4	72	SER
88	n4	85	ALA
61	n5	38	LEU
61	n5	41	ALA
61	n5	44	PRO
62	n6	126	LEU
63	n7	49	TYR
63	n7	134	LEU
64	n8	110	GLY
67	o1	44	MET
72	o6	28	TYR
74	o8	35	GLY
74	o8	49	SER
76	q0	78	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
78	q2	104	LEU
79	q3	35	ALA
79	q3	52	ALA
89	p0	33	VAL
2	S0	170	ILE
3	S1	38	PHE
3	S1	78	ASP
3	S1	156	ALA
3	S1	224	ASP
4	S2	235	LEU
4	S2	236	PRO
5	S3	31	GLU
5	S3	81	PRO
5	S3	221	SER
6	S4	19	LEU
6	S4	35	PRO
6	S4	149	TYR
7	S5	154	ALA
8	S6	20	ASP
9	S7	73	VAL
9	S7	98	ILE
10	S8	9	HIS
14	C2	55	GLY
14	C2	108	ARG
14	C2	126	TRP
15	C3	3	ARG
16	C4	50	ALA
17	C5	109	PRO
18	C6	40	GLU
19	C7	24	LEU
20	C8	80	LYS
21	C9	86	ARG
27	D5	54	VAL
27	D5	97	LYS
28	D6	10	ARG
28	D6	16	GLY
33	E1	96	LYS
34	SR	98	GLU
34	SR	165	ASP
34	SR	237	GLN
35	SM	52	PRO
35	SM	98	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	L2	146	THR
40	L3	63	PRO
40	L3	141	GLY
41	L4	5	GLN
41	L4	16	THR
41	L4	131	VAL
41	L4	140	HIS
44	L7	72	ALA
44	L7	139	PRO
44	L7	204	PRO
45	L8	36	ILE
45	L8	79	GLN
45	L8	156	ASP
45	L8	157	VAL
46	L9	49	ASN
46	L9	175	PHE
47	M0	24	ARG
47	M0	114	GLY
48	M1	12	LEU
48	M1	52	TYR
49	M3	25	HIS
49	M3	111	ALA
50	M4	58	ILE
51	M5	75	VAL
52	M6	121	PRO
54	M8	183	GLY
55	M9	97	ARG
56	N0	2	ALA
58	N2	77	LYS
64	N8	65	GLN
67	O1	5	LYS
72	O6	13	LYS
78	Q2	34	SER
2	s0	11	PRO
2	s0	103	THR
3	s1	22	ASP
3	s1	25	THR
3	s1	179	SER
3	s1	206	PRO
5	s3	93	ASP
6	s4	14	ALA
6	s4	35	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	s4	90	ILE
6	s4	168	LYS
6	s4	174	LYS
6	s4	245	LYS
6	s4	249	ALA
7	s5	126	ASP
8	s6	10	ASN
10	s8	78	ILE
11	s9	91	LYS
14	c2	54	ARG
15	c3	22	ALA
15	c3	94	LYS
16	c4	114	ARG
20	c8	61	LEU
22	d0	17	GLN
23	d1	11	LEU
25	d3	128	SER
26	d4	50	ALA
28	d6	34	LYS
31	d9	11	PRO
32	e0	54	ARG
33	e1	86	THR
84	sM	50	ASN
39	l2	14	SER
40	l3	155	ALA
41	l4	259	ASP
41	l4	333	VAL
42	l5	5	LYS
42	l5	277	LEU
43	l6	131	LYS
86	l8	78	PHE
86	l8	123	GLN
47	m0	42	THR
49	m3	101	ARG
54	m8	70	ALA
54	m8	112	ALA
54	m8	116	LYS
88	n4	132	GLY
62	n6	10	SER
64	n8	129	PHE
69	o3	59	VAL
72	o6	64	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
74	o8	60	GLY
78	q2	33	ALA
79	q3	51	ALA
2	S0	68	PRO
3	S1	22	ASP
3	S1	210	ILE
3	S1	213	ARG
8	S6	46	LYS
8	S6	174	LYS
9	S7	112	ARG
12	C0	54	TYR
17	C5	101	ALA
19	C7	84	TYR
23	D1	46	ILE
27	D5	41	ILE
28	D6	47	ALA
28	D6	64	LEU
28	D6	97	PRO
34	SR	105	GLY
40	L3	3	HIS
40	L3	290	ASP
40	L3	317	ILE
41	L4	4	PRO
41	L4	82	THR
44	L7	178	ILE
46	L9	110	LYS
46	L9	169	ASN
47	M0	47	PRO
48	M1	82	ARG
49	M3	130	GLY
50	M4	6	ILE
51	M5	184	LYS
57	N1	127	GLN
59	N3	134	GLY
64	N8	56	VAL
65	N9	21	ILE
70	O4	77	GLY
76	Q0	79	GLU
2	s0	10	THR
5	s3	10	LYS
11	s9	150	LEU
13	c1	129	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	c2	113	ARG
14	c2	119	SER
15	c3	89	TYR
16	c4	11	SER
16	c4	32	ASP
17	c5	128	HIS
23	d1	3	ASN
28	d6	59	TYR
28	d6	60	PRO
33	e1	79	LYS
33	e1	112	GLY
83	sR	149	ASP
84	sM	43	ASP
39	l2	80	GLU
39	l2	140	ASN
39	l2	180	LEU
40	l3	141	GLY
41	l4	145	ILE
41	l4	302	ALA
42	l5	269	SER
86	l8	80	TYR
46	l9	172	ILE
49	m3	56	PRO
49	m3	82	ALA
88	n4	18	GLY
88	n4	82	ILE
68	o2	100	ILE
11	S9	185	GLY
14	C2	66	VAL
16	C4	97	GLY
18	C6	33	GLY
22	D0	96	PRO
25	D3	42	PRO
27	D5	88	ILE
28	D6	65	PRO
31	D9	6	VAL
31	D9	51	GLY
35	SM	111	GLY
39	L2	141	PRO
41	L4	79	GLY
45	L8	237	ILE
55	M9	55	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
62	N6	49	PRO
2	s0	94	GLY
6	s4	114	ILE
18	c6	40	GLU
86	l8	237	ILE
49	m3	50	PRO
66	o0	96	GLY
89	p0	71	PRO
5	S3	112	GLY
6	S4	105	VAL
11	S9	18	PRO
11	S9	137	GLY
13	C1	19	ILE
15	C3	150	VAL
20	C8	142	GLY
42	L5	26	GLY
53	M7	88	VAL
54	M8	30	VAL
54	M8	160	GLY
56	N0	22	PRO
61	N5	62	VAL
63	N7	70	PRO
11	s9	162	SER
14	c2	87	PRO
14	c2	115	VAL
17	c5	48	GLY
23	d1	82	VAL
39	l2	166	ILE
40	l3	114	VAL
48	m1	120	ILE
49	m3	93	ILE
64	n8	28	HIS
9	S7	144	VAL
28	D6	75	VAL
55	M9	129	GLY
58	N2	27	VAL
6	s4	124	GLY
7	s5	28	PRO
81	c0	3	MET
27	d5	92	ILE
39	l2	213	GLY
41	l4	301	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
86	l8	187	GLY
52	m6	109	PRO
52	m6	111	PRO
58	n2	60	GLY
61	n5	79	GLY
65	n9	37	PRO
70	o4	5	VAL
7	S5	21	THR
8	S6	117	GLY
14	C2	116	VAL
24	D2	83	ILE
48	M1	65	ILE
60	N4	76	VAL
67	O1	7	VAL
76	Q0	116	GLY
76	Q0	123	PRO
7	s5	152	GLY
16	c4	131	GLY
82	c7	86	PRO
26	d4	66	GLY
64	n8	114	GLY
3	S1	21	VAL
17	C5	87	PRO
32	E0	58	PRO
45	L8	119	GLY
5	s3	203	PRO
8	s6	69	LEU
16	c4	118	VAL
84	sM	51	ARG
42	l5	125	VAL
64	n8	70	LYS
64	n8	148	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S0	164/173 (95%)	144 (88%)	20 (12%)	6	27
2	s0	165/173 (95%)	135 (82%)	30 (18%)	2	11
3	S1	191/192 (100%)	157 (82%)	34 (18%)	2	12
3	s1	192/192 (100%)	151 (79%)	41 (21%)	1	6
4	S2	176/176 (100%)	150 (85%)	26 (15%)	3	20
4	s2	176/176 (100%)	135 (77%)	41 (23%)	1	4
5	S3	182/182 (100%)	158 (87%)	24 (13%)	5	24
5	s3	182/182 (100%)	154 (85%)	28 (15%)	3	18
6	S4	221/221 (100%)	184 (83%)	37 (17%)	2	14
6	s4	221/221 (100%)	187 (85%)	34 (15%)	3	18
7	S5	173/173 (100%)	153 (88%)	20 (12%)	6	30
7	s5	173/173 (100%)	149 (86%)	24 (14%)	4	23
8	S6	188/193 (97%)	157 (84%)	31 (16%)	2	15
8	s6	187/193 (97%)	154 (82%)	33 (18%)	2	12
9	S7	165/166 (99%)	147 (89%)	18 (11%)	7	33
9	s7	165/166 (99%)	143 (87%)	22 (13%)	4	24
10	S8	150/150 (100%)	128 (85%)	22 (15%)	3	20
10	s8	150/150 (100%)	131 (87%)	19 (13%)	5	25
11	S9	158/158 (100%)	137 (87%)	21 (13%)	4	24
11	s9	158/158 (100%)	134 (85%)	24 (15%)	3	19
12	C0	77/77 (100%)	66 (86%)	11 (14%)	4	22
13	C1	129/129 (100%)	112 (87%)	17 (13%)	5	24
13	c1	129/129 (100%)	110 (85%)	19 (15%)	3	20
14	C2	88/96 (92%)	75 (85%)	13 (15%)	3	20
14	c2	88/96 (92%)	72 (82%)	16 (18%)	2	11
15	C3	127/127 (100%)	101 (80%)	26 (20%)	1	7
15	c3	127/127 (100%)	107 (84%)	20 (16%)	3	18
16	C4	81/97 (84%)	67 (83%)	14 (17%)	2	13
16	c4	97/97 (100%)	83 (86%)	14 (14%)	4	21
17	C5	101/103 (98%)	90 (89%)	11 (11%)	7	33
17	c5	103/103 (100%)	87 (84%)	16 (16%)	3	18
18	C6	117/118 (99%)	96 (82%)	21 (18%)	2	11

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	c6	118/118 (100%)	99 (84%)	19 (16%)	3	16
19	C7	94/109 (86%)	77 (82%)	17 (18%)	2	11
20	C8	128/128 (100%)	108 (84%)	20 (16%)	3	18
20	c8	128/128 (100%)	107 (84%)	21 (16%)	2	15
21	C9	115/115 (100%)	98 (85%)	17 (15%)	3	20
21	c9	115/115 (100%)	103 (90%)	12 (10%)	8	36
22	D0	100/103 (97%)	84 (84%)	16 (16%)	3	16
22	d0	103/103 (100%)	82 (80%)	21 (20%)	1	7
23	D1	74/74 (100%)	65 (88%)	9 (12%)	6	27
23	d1	74/74 (100%)	67 (90%)	7 (10%)	10	40
24	D2	110/110 (100%)	91 (83%)	19 (17%)	2	13
24	d2	110/110 (100%)	98 (89%)	12 (11%)	7	33
25	D3	119/119 (100%)	102 (86%)	17 (14%)	4	22
25	d3	119/119 (100%)	98 (82%)	21 (18%)	2	12
26	D4	112/112 (100%)	94 (84%)	18 (16%)	3	16
26	d4	112/112 (100%)	92 (82%)	20 (18%)	2	11
27	D5	61/61 (100%)	46 (75%)	15 (25%)	1	4
27	d5	61/61 (100%)	53 (87%)	8 (13%)	5	25
28	D6	83/83 (100%)	64 (77%)	19 (23%)	1	5
28	d6	83/83 (100%)	66 (80%)	17 (20%)	1	7
29	D7	70/70 (100%)	66 (94%)	4 (6%)	24	61
29	d7	70/70 (100%)	57 (81%)	13 (19%)	2	10
30	D8	56/56 (100%)	46 (82%)	10 (18%)	2	11
30	d8	56/56 (100%)	41 (73%)	15 (27%)	0	3
31	D9	47/47 (100%)	37 (79%)	10 (21%)	1	6
31	d9	47/47 (100%)	39 (83%)	8 (17%)	2	14
32	E0	51/53 (96%)	39 (76%)	12 (24%)	1	4
32	e0	53/53 (100%)	45 (85%)	8 (15%)	3	19
33	E1	62/66 (94%)	43 (69%)	19 (31%)	0	3
33	e1	66/66 (100%)	50 (76%)	16 (24%)	1	4
34	SR	259/260 (100%)	233 (90%)	26 (10%)	9	37

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
35	SM	97/97 (100%)	78 (80%)	19 (20%)	1	8
39	L2	193/194 (100%)	162 (84%)	31 (16%)	3	16
39	l2	192/194 (99%)	159 (83%)	33 (17%)	2	13
40	L3	320/322 (99%)	252 (79%)	68 (21%)	1	6
40	l3	319/322 (99%)	268 (84%)	51 (16%)	3	16
41	L4	288/288 (100%)	239 (83%)	49 (17%)	2	14
41	l4	288/288 (100%)	231 (80%)	57 (20%)	1	8
42	L5	244/244 (100%)	205 (84%)	39 (16%)	3	16
42	l5	243/244 (100%)	201 (83%)	42 (17%)	2	13
43	L6	134/152 (88%)	114 (85%)	20 (15%)	3	20
43	l6	135/152 (89%)	119 (88%)	16 (12%)	6	28
44	L7	186/187 (100%)	156 (84%)	30 (16%)	3	16
44	l7	187/187 (100%)	155 (83%)	32 (17%)	2	14
45	L8	187/191 (98%)	166 (89%)	21 (11%)	7	32
46	L9	171/171 (100%)	134 (78%)	37 (22%)	1	6
46	l9	171/171 (100%)	134 (78%)	37 (22%)	1	6
47	M0	177/186 (95%)	147 (83%)	30 (17%)	2	14
47	m0	179/186 (96%)	139 (78%)	40 (22%)	1	5
48	M1	147/147 (100%)	120 (82%)	27 (18%)	2	10
48	m1	147/147 (100%)	126 (86%)	21 (14%)	4	22
49	M3	154/154 (100%)	125 (81%)	29 (19%)	2	9
49	m3	154/154 (100%)	127 (82%)	27 (18%)	2	13
50	M4	107/108 (99%)	86 (80%)	21 (20%)	1	8
50	m4	108/108 (100%)	91 (84%)	17 (16%)	3	18
51	M5	175/175 (100%)	145 (83%)	30 (17%)	2	14
51	m5	175/175 (100%)	148 (85%)	27 (15%)	3	18
52	M6	160/160 (100%)	141 (88%)	19 (12%)	6	28
52	m6	160/160 (100%)	135 (84%)	25 (16%)	3	18
53	M7	140/145 (97%)	114 (81%)	26 (19%)	2	10
53	m7	125/145 (86%)	99 (79%)	26 (21%)	1	7
54	M8	150/150 (100%)	126 (84%)	24 (16%)	3	16

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
54	m8	150/150 (100%)	122 (81%)	28 (19%)	2	9
55	M9	153/153 (100%)	133 (87%)	20 (13%)	5	25
55	m9	153/153 (100%)	121 (79%)	32 (21%)	1	7
56	N0	156/156 (100%)	129 (83%)	27 (17%)	2	13
56	n0	156/156 (100%)	130 (83%)	26 (17%)	2	14
57	N1	136/136 (100%)	106 (78%)	30 (22%)	1	6
57	n1	136/136 (100%)	112 (82%)	24 (18%)	2	12
58	N2	87/87 (100%)	73 (84%)	14 (16%)	3	16
58	n2	85/87 (98%)	70 (82%)	15 (18%)	2	12
59	N3	104/104 (100%)	89 (86%)	15 (14%)	4	21
59	n3	104/104 (100%)	93 (89%)	11 (11%)	8	35
60	N4	57/86 (66%)	53 (93%)	4 (7%)	18	55
61	N5	104/105 (99%)	89 (86%)	15 (14%)	4	21
61	n5	104/105 (99%)	80 (77%)	24 (23%)	1	5
62	N6	109/109 (100%)	85 (78%)	24 (22%)	1	6
62	n6	109/109 (100%)	88 (81%)	21 (19%)	1	9
63	N7	115/115 (100%)	97 (84%)	18 (16%)	3	18
63	n7	115/115 (100%)	96 (84%)	19 (16%)	2	15
64	N8	118/118 (100%)	99 (84%)	19 (16%)	3	16
64	n8	118/118 (100%)	101 (86%)	17 (14%)	4	21
65	N9	46/46 (100%)	39 (85%)	7 (15%)	3	19
65	n9	46/46 (100%)	39 (85%)	7 (15%)	3	19
66	O0	81/84 (96%)	64 (79%)	17 (21%)	1	7
66	o0	84/84 (100%)	71 (84%)	13 (16%)	3	18
67	O1	92/96 (96%)	79 (86%)	13 (14%)	4	22
67	o1	94/96 (98%)	74 (79%)	20 (21%)	1	6
68	O2	109/109 (100%)	88 (81%)	21 (19%)	1	9
68	o2	109/109 (100%)	83 (76%)	26 (24%)	1	4
69	O3	90/90 (100%)	72 (80%)	18 (20%)	1	8
69	o3	90/90 (100%)	74 (82%)	16 (18%)	2	12
70	O4	95/95 (100%)	82 (86%)	13 (14%)	4	23

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
70	o4	95/95 (100%)	83 (87%)	12 (13%)	5	26
71	O5	104/104 (100%)	93 (89%)	11 (11%)	8	35
71	o5	103/104 (99%)	82 (80%)	21 (20%)	1	7
72	O6	81/81 (100%)	63 (78%)	18 (22%)	1	6
72	o6	80/81 (99%)	64 (80%)	16 (20%)	1	8
73	O7	70/70 (100%)	58 (83%)	12 (17%)	2	14
73	o7	70/70 (100%)	54 (77%)	16 (23%)	1	5
74	O8	68/68 (100%)	52 (76%)	16 (24%)	1	4
74	o8	67/68 (98%)	58 (87%)	9 (13%)	4	24
75	O9	45/45 (100%)	37 (82%)	8 (18%)	2	12
75	o9	45/45 (100%)	40 (89%)	5 (11%)	7	32
76	Q0	47/47 (100%)	40 (85%)	7 (15%)	3	20
76	q0	47/47 (100%)	40 (85%)	7 (15%)	3	20
77	Q1	23/23 (100%)	19 (83%)	4 (17%)	2	13
77	q1	23/23 (100%)	14 (61%)	9 (39%)	0	1
78	Q2	90/90 (100%)	65 (72%)	25 (28%)	0	3
78	q2	90/90 (100%)	71 (79%)	19 (21%)	1	7
79	Q3	71/71 (100%)	59 (83%)	12 (17%)	2	14
79	q3	71/71 (100%)	58 (82%)	13 (18%)	2	10
81	c0	73/73 (100%)	66 (90%)	7 (10%)	10	39
82	c7	92/109 (84%)	72 (78%)	20 (22%)	1	6
83	sR	260/261 (100%)	238 (92%)	22 (8%)	12	45
84	sM	54/54 (100%)	44 (82%)	10 (18%)	2	10
86	l8	177/185 (96%)	147 (83%)	30 (17%)	2	14
88	n4	100/114 (88%)	87 (87%)	13 (13%)	5	25
89	p0	105/105 (100%)	89 (85%)	16 (15%)	3	19
All	All	18726/18993 (99%)	15610 (83%)	3116 (17%)	2	15

All (3116) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	7	PHE
2	S0	30	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	S0	43	ASP
2	S0	86	VAL
2	S0	88	LYS
2	S0	96	THR
2	S0	101	ARG
2	S0	110	TYR
2	S0	135	GLU
2	S0	137	SER
2	S0	139	VAL
2	S0	157	ASP
2	S0	162	CYS
2	S0	168	HIS
2	S0	172	LEU
2	S0	177	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	196	SER
2	S0	200	ASP
3	S1	21	VAL
3	S1	22	ASP
3	S1	25	THR
3	S1	29	TRP
3	S1	30	PHE
3	S1	61	LEU
3	S1	66	VAL
3	S1	70	LEU
3	S1	74	GLN
3	S1	76	SER
3	S1	78	ASP
3	S1	81	PHE
3	S1	83	LYS
3	S1	91	VAL
3	S1	97	LEU
3	S1	105	PHE
3	S1	110	LEU
3	S1	111	ARG
3	S1	117	TRP
3	S1	131	ASP
3	S1	133	TYR
3	S1	150	VAL
3	S1	170	GLU
3	S1	180	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	S1	181	LEU
3	S1	193	ILE
3	S1	198	GLU
3	S1	202	LYS
3	S1	214	LYS
3	S1	218	LEU
3	S1	219	LYS
3	S1	220	GLN
3	S1	222	LYS
3	S1	223	PHE
4	S2	41	LEU
4	S2	51	THR
4	S2	53	ILE
4	S2	54	GLU
4	S2	72	LEU
4	S2	73	LEU
4	S2	89	GLN
4	S2	91	ARG
4	S2	94	GLN
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	111	VAL
4	S2	113	LEU
4	S2	117	THR
4	S2	134	LEU
4	S2	136	VAL
4	S2	137	ILE
4	S2	140	ARG
4	S2	141	ARG
4	S2	148	LEU
4	S2	208	GLU
4	S2	225	LEU
4	S2	226	THR
4	S2	237	VAL
4	S2	245	ASP
5	S3	4	LEU
5	S3	10	LYS
5	S3	14	ASP
5	S3	23	GLU
5	S3	65	ARG
5	S3	66	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	S3	76	ARG
5	S3	84	ILE
5	S3	91	VAL
5	S3	94	ARG
5	S3	103	GLU
5	S3	104	SER
5	S3	105	MET
5	S3	129	SER
5	S3	158	ILE
5	S3	172	THR
5	S3	176	LEU
5	S3	178	ARG
5	S3	181	VAL
5	S3	190	ARG
5	S3	207	THR
5	S3	217	ILE
5	S3	218	LEU
5	S3	223	LYS
6	S4	6	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	21	ASP
6	S4	38	LEU
6	S4	42	LEU
6	S4	45	ILE
6	S4	65	LEU
6	S4	77	ARG
6	S4	92	LEU
6	S4	93	ASP
6	S4	100	ARG
6	S4	116	ASP
6	S4	120	SER
6	S4	123	LEU
6	S4	126	VAL
6	S4	128	LYS
6	S4	131	LEU
6	S4	139	VAL
6	S4	140	VAL
6	S4	142	HIS
6	S4	149	TYR
6	S4	176	ASP
6	S4	180	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	S4	181	VAL
6	S4	182	TYR
6	S4	187	ARG
6	S4	192	ILE
6	S4	206	ASP
6	S4	212	ASP
6	S4	215	ASP
6	S4	220	THR
6	S4	222	LEU
6	S4	227	VAL
6	S4	231	GLN
6	S4	240	LYS
6	S4	242	LYS
7	S5	24	VAL
7	S5	25	LEU
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	51	VAL
7	S5	53	VAL
7	S5	65	ARG
7	S5	76	ARG
7	S5	89	ILE
7	S5	109	LYS
7	S5	112	ARG
7	S5	139	ASN
7	S5	148	ARG
7	S5	156	ARG
7	S5	157	ARG
7	S5	162	VAL
7	S5	186	ASN
7	S5	216	GLU
7	S5	223	SER
8	S6	7	TYR
8	S6	13	GLN
8	S6	25	ARG
8	S6	44	GLU
8	S6	65	GLN
8	S6	71	THR
8	S6	72	ARG
8	S6	76	LEU
8	S6	79	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	S6	81	VAL
8	S6	82	SER
8	S6	97	VAL
8	S6	98	ARG
8	S6	120	GLU
8	S6	126	ASP
8	S6	127	THR
8	S6	128	THR
8	S6	129	VAL
8	S6	133	LEU
8	S6	137	ARG
8	S6	143	LYS
8	S6	150	GLU
8	S6	151	ASP
8	S6	154	ARG
8	S6	169	TYR
8	S6	170	THR
8	S6	175	ILE
8	S6	177	ARG
8	S6	193	LEU
8	S6	201	GLN
8	S6	211	LEU
9	S7	38	LEU
9	S7	46	ILE
9	S7	49	ILE
9	S7	50	ASP
9	S7	70	PHE
9	S7	71	HIS
9	S7	77	LEU
9	S7	85	PHE
9	S7	97	ARG
9	S7	104	ARG
9	S7	109	VAL
9	S7	114	ARG
9	S7	126	LEU
9	S7	131	PHE
9	S7	159	VAL
9	S7	163	ASP
9	S7	174	ASN
9	S7	185	ILE
10	S8	4	SER
10	S8	5	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	S8	18	ARG
10	S8	20	GLN
10	S8	21	PHE
10	S8	22	ARG
10	S8	29	LEU
10	S8	36	THR
10	S8	38	ILE
10	S8	45	SER
10	S8	72	ILE
10	S8	74	LYS
10	S8	110	ARG
10	S8	123	LYS
10	S8	138	ASN
10	S8	151	LYS
10	S8	152	ILE
10	S8	164	ARG
10	S8	168	CYS
10	S8	185	GLU
10	S8	196	LEU
10	S8	197	THR
11	S9	3	ARG
11	S9	21	SER
11	S9	28	LEU
11	S9	39	LYS
11	S9	46	SER
11	S9	60	LEU
11	S9	78	ARG
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	96	VAL
11	S9	99	LEU
11	S9	109	LEU
11	S9	110	GLN
11	S9	121	SER
11	S9	134	ILE
11	S9	138	LYS
11	S9	141	VAL
11	S9	149	ARG
11	S9	161	THR
11	S9	171	ARG
12	C0	1	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	C0	8	ARG
12	C0	20	VAL
12	C0	22	VAL
12	C0	27	PHE
12	C0	32	HIS
12	C0	52	LYS
12	C0	55	VAL
12	C0	56	LYS
12	C0	81	ASN
12	C0	82	LEU
13	C1	3	THR
13	C1	8	GLN
13	C1	9	SER
13	C1	21	ASN
13	C1	36	LYS
13	C1	37	ASN
13	C1	40	LEU
13	C1	44	THR
13	C1	56	LYS
13	C1	67	ARG
13	C1	69	LYS
13	C1	87	ARG
13	C1	109	VAL
13	C1	118	GLN
13	C1	123	VAL
13	C1	125	VAL
13	C1	129	ARG
14	C2	28	LEU
14	C2	33	ARG
14	C2	36	LEU
14	C2	37	VAL
14	C2	39	ASP
14	C2	43	ARG
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	103	LEU
14	C2	126	TRP
14	C2	132	GLU
15	C3	3	ARG
15	C3	13	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	C3	16	ILE
15	C3	19	SER
15	C3	21	ASN
15	C3	27	LYS
15	C3	35	GLU
15	C3	39	LYS
15	C3	56	ASP
15	C3	58	HIS
15	C3	62	GLN
15	C3	64	ARG
15	C3	66	ILE
15	C3	73	ARG
15	C3	76	LYS
15	C3	83	GLU
15	C3	88	LEU
15	C3	102	LEU
15	C3	103	GLU
15	C3	105	ASN
15	C3	110	ASP
15	C3	125	LEU
15	C3	134	VAL
15	C3	140	LYS
15	C3	142	GLU
15	C3	149	LEU
16	C4	13	VAL
16	C4	14	PHE
16	C4	16	VAL
16	C4	29	HIS
16	C4	31	THR
16	C4	39	ILE
16	C4	43	THR
16	C4	51	ASP
16	C4	92	LYS
16	C4	102	LEU
16	C4	124	ASP
16	C4	133	ARG
16	C4	136	ARG
16	C4	137	LEU
17	C5	14	THR
17	C5	20	VAL
17	C5	31	GLU
17	C5	36	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	C5	44	ARG
17	C5	47	ARG
17	C5	60	LEU
17	C5	69	GLU
17	C5	71	GLU
17	C5	103	ASN
17	C5	128	HIS
18	C6	4	VAL
18	C6	8	GLN
18	C6	26	LYS
18	C6	29	ILE
18	C6	37	THR
18	C6	43	ILE
18	C6	53	LEU
18	C6	54	LEU
18	C6	66	ARG
18	C6	69	VAL
18	C6	76	SER
18	C6	97	VAL
18	C6	98	ASP
18	C6	106	LYS
18	C6	109	PHE
18	C6	113	ASP
18	C6	121	SER
18	C6	123	ARG
18	C6	128	LYS
18	C6	137	ARG
18	C6	138	PHE
19	C7	3	ARG
19	C7	5	ARG
19	C7	29	GLN
19	C7	34	LEU
19	C7	38	ILE
19	C7	40	THR
19	C7	46	LEU
19	C7	49	LYS
19	C7	54	THR
19	C7	69	ILE
19	C7	71	PHE
19	C7	72	LYS
19	C7	83	GLN
19	C7	85	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
19	C7	88	VAL
19	C7	105	GLN
19	C7	115	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	8	GLN
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE
20	C8	26	ILE
20	C8	28	ILE
20	C8	60	GLU
20	C8	61	LEU
20	C8	71	GLN
20	C8	80	LYS
20	C8	89	GLN
20	C8	92	ILE
20	C8	93	THR
20	C8	97	ASP
20	C8	116	LEU
20	C8	132	ARG
20	C8	133	VAL
20	C8	145	ARG
21	C9	13	ASP
21	C9	18	TYR
21	C9	22	LEU
21	C9	28	LEU
21	C9	35	ASP
21	C9	37	VAL
21	C9	57	ARG
21	C9	64	HIS
21	C9	67	MET
21	C9	70	GLN
21	C9	79	LEU
21	C9	88	VAL
21	C9	117	SER
21	C9	130	ARG
21	C9	131	ASP
21	C9	134	ARG
21	C9	144	GLU
22	D0	18	GLN
22	D0	23	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	D0	27	THR
22	D0	31	VAL
22	D0	34	LEU
22	D0	35	GLU
22	D0	42	VAL
22	D0	47	GLN
22	D0	51	VAL
22	D0	61	LYS
22	D0	66	SER
22	D0	74	GLU
22	D0	81	THR
22	D0	89	ARG
22	D0	103	ILE
22	D0	108	ILE
23	D1	5	LYS
23	D1	9	VAL
23	D1	11	LEU
23	D1	49	GLU
23	D1	52	THR
23	D1	69	LEU
23	D1	78	LEU
23	D1	80	LYS
23	D1	87	ARG
24	D2	7	LEU
24	D2	16	ASN
24	D2	24	GLN
24	D2	26	LEU
24	D2	27	ILE
24	D2	43	LYS
24	D2	53	ILE
24	D2	65	LEU
24	D2	69	LEU
24	D2	72	CYS
24	D2	76	SER
24	D2	85	ASP
24	D2	93	LEU
24	D2	97	ARG
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR
24	D2	121	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	D3	7	ARG
25	D3	19	ARG
25	D3	41	SER
25	D3	57	LEU
25	D3	66	SER
25	D3	73	ARG
25	D3	79	ASN
25	D3	82	LYS
25	D3	84	THR
25	D3	103	LEU
25	D3	107	PHE
25	D3	109	ARG
25	D3	110	LYS
25	D3	114	LYS
25	D3	132	LEU
25	D3	140	LYS
25	D3	144	ARG
26	D4	3	ASP
26	D4	17	LEU
26	D4	32	ARG
26	D4	34	ASN
26	D4	35	VAL
26	D4	41	ARG
26	D4	51	GLU
26	D4	57	VAL
26	D4	62	THR
26	D4	84	LYS
26	D4	88	THR
26	D4	96	LEU
26	D4	98	GLU
26	D4	99	LYS
26	D4	102	LYS
26	D4	124	ARG
26	D4	127	LYS
26	D4	128	LYS
27	D5	38	HIS
27	D5	40	VAL
27	D5	42	LEU
27	D5	59	TYR
27	D5	60	VAL
27	D5	63	SER
27	D5	68	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	77	ARG
27	D5	85	LYS
27	D5	95	HIS
27	D5	96	SER
27	D5	100	ILE
28	D6	12	LYS
28	D6	18	VAL
28	D6	36	ILE
28	D6	38	ARG
28	D6	39	MET
28	D6	41	ILE
28	D6	45	VAL
28	D6	50	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	68	TYR
28	D6	69	ASN
28	D6	71	LEU
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL
28	D6	85	ARG
28	D6	90	GLU
29	D7	3	LEU
29	D7	4	VAL
29	D7	33	LEU
29	D7	41	LEU
30	D8	15	VAL
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	36	THR
30	D8	38	ARG
30	D8	49	ARG
30	D8	52	ASP
30	D8	58	GLU
30	D8	64	ARG
31	D9	7	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	D9	8	PHE
31	D9	10	HIS
31	D9	12	ARG
31	D9	14	TYR
31	D9	19	ARG
31	D9	25	SER
31	D9	30	LEU
31	D9	31	ILE
31	D9	32	ARG
32	E0	8	LEU
32	E0	15	LYS
32	E0	16	SER
32	E0	17	GLN
32	E0	20	LYS
32	E0	22	GLU
32	E0	28	LYS
32	E0	38	LEU
32	E0	39	LEU
32	E0	42	ARG
32	E0	47	VAL
32	E0	56	MET
33	E1	85	TYR
33	E1	86	THR
33	E1	89	LYS
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	98	VAL
33	E1	102	VAL
33	E1	103	LEU
33	E1	106	TYR
33	E1	113	LYS
33	E1	120	GLU
33	E1	126	CYS
33	E1	130	VAL
33	E1	137	ASP
33	E1	138	ARG
33	E1	140	TYR
33	E1	150	VAL
33	E1	151	ASN
34	SR	6	VAL
34	SR	29	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	SR	50	ASP
34	SR	52	GLN
34	SR	58	VAL
34	SR	66	HIS
34	SR	76	ASP
34	SR	100	TYR
34	SR	117	LYS
34	SR	136	ILE
34	SR	141	LEU
34	SR	149	ASP
34	SR	153	GLN
34	SR	165	ASP
34	SR	195	HIS
34	SR	202	LEU
34	SR	213	SER
34	SR	238	ASP
34	SR	268	GLN
34	SR	275	ARG
34	SR	290	VAL
34	SR	292	LEU
34	SR	300	THR
34	SR	308	ASN
34	SR	314	GLN
34	SR	317	THR
35	SM	23	LYS
35	SM	27	LYS
35	SM	30	THR
35	SM	46	LYS
35	SM	48	ARG
35	SM	57	ASN
35	SM	68	ARG
35	SM	69	ARG
35	SM	81	THR
35	SM	84	LYS
35	SM	89	ARG
35	SM	91	THR
35	SM	100	THR
35	SM	102	THR
35	SM	116	GLU
35	SM	117	LEU
35	SM	134	LEU
35	SM	137	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	SM	139	GLU
39	L2	14	SER
39	L2	20	THR
39	L2	32	LEU
39	L2	44	ILE
39	L2	45	VAL
39	L2	46	LYS
39	L2	48	ILE
39	L2	74	GLU
39	L2	84	THR
39	L2	98	VAL
39	L2	101	VAL
39	L2	104	LEU
39	L2	111	THR
39	L2	116	VAL
39	L2	128	ARG
39	L2	143	GLU
39	L2	157	VAL
39	L2	160	SER
39	L2	165	VAL
39	L2	168	VAL
39	L2	179	LEU
39	L2	181	LYS
39	L2	190	ARG
39	L2	193	ARG
39	L2	204	MET
39	L2	226	SER
39	L2	227	ARG
39	L2	231	SER
39	L2	242	ARG
39	L2	243	THR
39	L2	249	SER
40	L3	7	GLU
40	L3	17	LEU
40	L3	19	ARG
40	L3	24	SER
40	L3	25	ILE
40	L3	30	LYS
40	L3	36	ASP
40	L3	37	ARG
40	L3	41	VAL
40	L3	47	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	L3	53	MET
40	L3	55	THR
40	L3	56	ILE
40	L3	66	LYS
40	L3	67	PHE
40	L3	81	THR
40	L3	85	VAL
40	L3	97	ARG
40	L3	100	ARG
40	L3	103	THR
40	L3	104	THR
40	L3	112	ASP
40	L3	114	VAL
40	L3	116	ARG
40	L3	125	SER
40	L3	139	GLN
40	L3	147	GLU
40	L3	148	LEU
40	L3	150	ARG
40	L3	163	HIS
40	L3	165	GLN
40	L3	183	LEU
40	L3	188	ILE
40	L3	189	SER
40	L3	192	VAL
40	L3	200	GLU
40	L3	202	THR
40	L3	211	GLN
40	L3	212	ASN
40	L3	226	PHE
40	L3	229	VAL
40	L3	236	LYS
40	L3	238	LEU
40	L3	241	LYS
40	L3	243	HIS
40	L3	246	LEU
40	L3	252	ILE
40	L3	256	HIS
40	L3	260	VAL
40	L3	275	ARG
40	L3	277	SER
40	L3	284	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	L3	302	LYS
40	L3	305	ILE
40	L3	319	ASN
40	L3	320	ASP
40	L3	324	VAL
40	L3	325	LYS
40	L3	328	ILE
40	L3	332	ARG
40	L3	335	ILE
40	L3	338	LEU
40	L3	341	SER
40	L3	345	ASN
40	L3	347	SER
40	L3	369	ARG
40	L3	382	THR
40	L3	387	LEU
41	L4	3	ARG
41	L4	4	PRO
41	L4	7	THR
41	L4	11	LEU
41	L4	22	LEU
41	L4	33	ASP
41	L4	52	VAL
41	L4	54	GLU
41	L4	64	SER
41	L4	74	ILE
41	L4	82	THR
41	L4	93	MET
41	L4	99	MET
41	L4	105	THR
41	L4	120	TYR
41	L4	138	ARG
41	L4	141	ARG
41	L4	145	ILE
41	L4	148	ILE
41	L4	150	LEU
41	L4	156	LEU
41	L4	170	LYS
41	L4	179	LEU
41	L4	188	ARG
41	L4	193	LYS
41	L4	203	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	L4	206	LEU
41	L4	207	VAL
41	L4	216	VAL
41	L4	220	ARG
41	L4	222	VAL
41	L4	227	THR
41	L4	230	VAL
41	L4	238	LEU
41	L4	246	ARG
41	L4	259	ASP
41	L4	261	VAL
41	L4	267	VAL
41	L4	270	SER
41	L4	284	SER
41	L4	287	THR
41	L4	289	ILE
41	L4	292	SER
41	L4	304	GLN
41	L4	313	LEU
41	L4	324	LEU
41	L4	327	LEU
41	L4	349	THR
41	L4	350	LYS
42	L5	10	SER
42	L5	22	ARG
42	L5	23	ARG
42	L5	41	LYS
42	L5	66	SER
42	L5	67	SER
42	L5	69	ILE
42	L5	84	PRO
42	L5	90	HIS
42	L5	93	THR
42	L5	95	TRP
42	L5	105	ILE
42	L5	110	LEU
42	L5	113	LEU
42	L5	122	VAL
42	L5	131	LEU
42	L5	132	THR
42	L5	140	ARG
42	L5	146	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	L5	148	ILE
42	L5	151	GLN
42	L5	155	THR
42	L5	159	VAL
42	L5	163	LEU
42	L5	176	SER
42	L5	177	GLU
42	L5	185	PHE
42	L5	187	THR
42	L5	198	TYR
42	L5	203	HIS
42	L5	205	SER
42	L5	214	ASP
42	L5	217	GLU
42	L5	222	LEU
42	L5	234	ASP
42	L5	238	ASP
42	L5	259	LYS
42	L5	263	GLU
42	L5	293	LEU
43	L6	2	SER
43	L6	18	LEU
43	L6	21	THR
43	L6	30	LEU
43	L6	31	ARG
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	76	LEU
43	L6	78	ARG
43	L6	84	VAL
43	L6	89	THR
43	L6	93	VAL
43	L6	98	VAL
43	L6	104	GLU
43	L6	129	GLU
43	L6	134	ARG
43	L6	152	THR
43	L6	155	LEU
43	L6	164	SER
44	L7	24	GLU
44	L7	26	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	L7	38	LYS
44	L7	40	LYS
44	L7	82	LYS
44	L7	84	VAL
44	L7	87	VAL
44	L7	98	LYS
44	L7	100	ARG
44	L7	101	LYS
44	L7	120	THR
44	L7	121	LYS
44	L7	123	THR
44	L7	124	LEU
44	L7	126	LEU
44	L7	129	LEU
44	L7	140	SER
44	L7	142	SER
44	L7	143	THR
44	L7	151	ARG
44	L7	153	PHE
44	L7	161	VAL
44	L7	179	LEU
44	L7	182	ASP
44	L7	183	ASP
44	L7	184	LEU
44	L7	185	ILE
44	L7	228	SER
44	L7	234	GLU
44	L7	239	LEU
45	L8	50	VAL
45	L8	63	LYS
45	L8	69	LEU
45	L8	74	THR
45	L8	79	GLN
45	L8	81	THR
45	L8	84	ARG
45	L8	107	GLU
45	L8	132	VAL
45	L8	134	TYR
45	L8	136	LEU
45	L8	150	LEU
45	L8	156	ASP
45	L8	160	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	L8	163	VAL
45	L8	169	LEU
45	L8	185	ARG
45	L8	206	GLU
45	L8	221	ASN
45	L8	227	ASP
45	L8	246	MET
46	L9	5	GLN
46	L9	9	GLN
46	L9	13	PRO
46	L9	18	VAL
46	L9	19	SER
46	L9	20	ILE
46	L9	24	ILE
46	L9	33	THR
46	L9	41	ILE
46	L9	42	ASP
46	L9	52	LEU
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	82	VAL
46	L9	87	LYS
46	L9	92	TYR
46	L9	115	ARG
46	L9	118	LEU
46	L9	120	ASP
46	L9	124	ARG
46	L9	138	THR
46	L9	140	VAL
46	L9	146	LEU
46	L9	149	ASN
46	L9	150	SER
46	L9	151	VAL
46	L9	152	GLU
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	166	ARG
46	L9	172	ILE
46	L9	177	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
46	L9	183	HIS
46	L9	189	GLU
47	M0	26	VAL
47	M0	30	LYS
47	M0	31	ILE
47	M0	33	ILE
47	M0	40	LYS
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	80	SER
47	M0	82	ARG
47	M0	87	LEU
47	M0	116	ARG
47	M0	128	ARG
47	M0	133	GLN
47	M0	138	VAL
47	M0	139	ARG
47	M0	142	ASP
47	M0	156	ARG
47	M0	163	GLN
47	M0	165	ILE
47	M0	168	SER
47	M0	169	LYS
47	M0	177	ASP
47	M0	178	ARG
47	M0	184	LYS
47	M0	185	ARG
47	M0	192	ASP
47	M0	197	VAL
47	M0	201	SER
47	M0	203	LYS
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS
48	M1	19	LEU
48	M1	23	VAL
48	M1	30	LEU
48	M1	41	SER
48	M1	44	THR
48	M1	46	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	M1	52	TYR
48	M1	65	ILE
48	M1	67	VAL
48	M1	80	LEU
48	M1	94	ARG
48	M1	106	ILE
48	M1	107	ASP
48	M1	111	ASP
48	M1	112	LEU
48	M1	115	LYS
48	M1	137	ARG
48	M1	139	THR
48	M1	140	ARG
48	M1	155	THR
48	M1	165	GLN
48	M1	166	LYS
48	M1	171	VAL
49	M3	5	LYS
49	M3	13	HIS
49	M3	24	VAL
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	58	VAL
49	M3	59	ARG
49	M3	67	ARG
49	M3	69	VAL
49	M3	85	LEU
49	M3	100	ARG
49	M3	101	ARG
49	M3	103	ASN
49	M3	104	ARG
49	M3	107	GLU
49	M3	114	GLN
49	M3	116	LEU
49	M3	117	LYS
49	M3	121	SER
49	M3	124	ILE
49	M3	131	LYS
49	M3	138	VAL
49	M3	139	LEU
49	M3	140	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
49	M3	154	VAL
49	M3	162	ASN
49	M3	169	THR
49	M3	180	ARG
50	M4	8	LYS
50	M4	20	VAL
50	M4	24	LYS
50	M4	27	GLN
50	M4	32	LEU
50	M4	37	GLU
50	M4	38	ILE
50	M4	50	LYS
50	M4	53	VAL
50	M4	55	ARG
50	M4	69	THR
50	M4	72	LEU
50	M4	74	ARG
50	M4	83	LYS
50	M4	91	CYS
50	M4	94	TRP
50	M4	102	LYS
50	M4	108	ARG
50	M4	125	LYS
50	M4	128	ARG
50	M4	135	LEU
51	M5	18	VAL
51	M5	19	LEU
51	M5	36	ILE
51	M5	38	ARG
51	M5	57	GLN
51	M5	71	ARG
51	M5	75	VAL
51	M5	80	THR
51	M5	83	LYS
51	M5	94	TYR
51	M5	98	LEU
51	M5	106	VAL
51	M5	117	ASN
51	M5	124	ASP
51	M5	133	ILE
51	M5	151	ILE
51	M5	153	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	M5	155	VAL
51	M5	159	ARG
51	M5	165	THR
51	M5	170	LYS
51	M5	174	ILE
51	M5	179	LYS
51	M5	182	ASN
51	M5	183	THR
51	M5	188	ARG
51	M5	190	THR
51	M5	196	THR
51	M5	199	LEU
51	M5	204	LYS
52	M6	33	ILE
52	M6	34	VAL
52	M6	67	THR
52	M6	78	ARG
52	M6	85	ARG
52	M6	89	SER
52	M6	106	GLU
52	M6	110	PRO
52	M6	112	TYR
52	M6	116	LYS
52	M6	117	ARG
52	M6	119	VAL
52	M6	124	LEU
52	M6	128	ARG
52	M6	143	THR
52	M6	149	TYR
52	M6	164	SER
52	M6	187	GLU
52	M6	190	VAL
53	M7	7	THR
53	M7	9	THR
53	M7	23	ARG
53	M7	24	VAL
53	M7	29	THR
53	M7	32	THR
53	M7	36	ILE
53	M7	42	THR
53	M7	49	GLU
53	M7	56	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
53	M7	69	ARG
53	M7	78	VAL
53	M7	79	THR
53	M7	94	LEU
53	M7	96	GLN
53	M7	107	LEU
53	M7	112	LEU
53	M7	113	TYR
53	M7	114	VAL
53	M7	121	GLN
53	M7	127	ARG
53	M7	154	GLU
53	M7	165	VAL
53	M7	168	LEU
53	M7	176	ILE
53	M7	180	LYS
54	M8	3	ILE
54	M8	6	THR
54	M8	11	LYS
54	M8	17	THR
54	M8	22	ASP
54	M8	24	VAL
54	M8	26	LEU
54	M8	29	LEU
54	M8	32	LEU
54	M8	41	ASP
54	M8	49	LEU
54	M8	50	LYS
54	M8	55	SER
54	M8	57	ILE
54	M8	58	ASN
54	M8	69	ARG
54	M8	74	GLU
54	M8	81	VAL
54	M8	107	THR
54	M8	123	THR
54	M8	135	GLN
54	M8	147	ARG
54	M8	176	ARG
54	M8	181	SER
55	M9	5	ARG
55	M9	20	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	M9	25	ASP
55	M9	29	THR
55	M9	41	ILE
55	M9	42	ARG
55	M9	52	LYS
55	M9	55	VAL
55	M9	60	LYS
55	M9	70	LYS
55	M9	75	HIS
55	M9	103	ARG
55	M9	104	ARG
55	M9	106	LEU
55	M9	116	ASP
55	M9	120	TYR
55	M9	126	GLU
55	M9	134	HIS
55	M9	138	LEU
55	M9	153	LYS
56	N0	3	HIS
56	N0	8	GLN
56	N0	12	ARG
56	N0	16	THR
56	N0	39	SER
56	N0	45	LEU
56	N0	51	VAL
56	N0	58	ILE
56	N0	62	ASN
56	N0	71	LYS
56	N0	79	VAL
56	N0	80	ARG
56	N0	81	TYR
56	N0	87	THR
56	N0	98	SER
56	N0	106	LEU
56	N0	115	ARG
56	N0	122	HIS
56	N0	132	THR
56	N0	137	ARG
56	N0	141	LYS
56	N0	145	THR
56	N0	155	ARG
56	N0	160	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
56	N0	162	THR
56	N0	167	ARG
56	N0	172	TYR
57	N1	9	SER
57	N1	11	THR
57	N1	12	ARG
57	N1	18	ASP
57	N1	26	HIS
57	N1	27	LEU
57	N1	29	THR
57	N1	31	LEU
57	N1	35	LYS
57	N1	64	VAL
57	N1	71	SER
57	N1	75	ILE
57	N1	80	VAL
57	N1	83	ARG
57	N1	84	TYR
57	N1	96	ILE
57	N1	100	LYS
57	N1	101	CYS
57	N1	102	ARG
57	N1	103	GLN
57	N1	104	GLU
57	N1	106	LEU
57	N1	122	GLN
57	N1	124	VAL
57	N1	127	GLN
57	N1	136	ARG
57	N1	139	ARG
57	N1	141	VAL
57	N1	149	GLN
57	N1	158	THR
58	N2	10	LYS
58	N2	16	THR
58	N2	32	SER
58	N2	38	ILE
58	N2	39	ASP
58	N2	52	ASN
58	N2	66	VAL
58	N2	70	LYS
58	N2	79	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
58	N2	88	GLN
58	N2	93	ILE
58	N2	94	ARG
58	N2	100	THR
58	N2	105	LEU
59	N3	12	ARG
59	N3	14	SER
59	N3	33	ASN
59	N3	45	ARG
59	N3	46	LEU
59	N3	63	LYS
59	N3	64	LYS
59	N3	83	LYS
59	N3	98	ASN
59	N3	101	VAL
59	N3	102	ILE
59	N3	104	ASN
59	N3	115	THR
59	N3	120	LYS
59	N3	135	VAL
60	N4	4	GLU
60	N4	5	ILE
60	N4	19	THR
60	N4	52	THR
61	N5	27	ARG
61	N5	38	LEU
61	N5	49	LYS
61	N5	51	VAL
61	N5	58	ASP
61	N5	63	ILE
61	N5	88	MET
61	N5	104	GLU
61	N5	108	LEU
61	N5	112	THR
61	N5	115	ARG
61	N5	130	TYR
61	N5	135	ILE
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	5	SER
62	N6	8	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
62	N6	17	LYS
62	N6	32	SER
62	N6	36	SER
62	N6	37	LYS
62	N6	39	LEU
62	N6	42	GLN
62	N6	45	ILE
62	N6	48	LEU
62	N6	56	VAL
62	N6	57	LEU
62	N6	71	SER
62	N6	76	LEU
62	N6	88	GLU
62	N6	112	ASP
62	N6	113	LYS
62	N6	115	ARG
62	N6	120	GLN
62	N6	122	LYS
62	N6	125	LYS
62	N6	126	LEU
62	N6	127	GLU
63	N7	14	VAL
63	N7	17	ARG
63	N7	21	LYS
63	N7	24	VAL
63	N7	29	HIS
63	N7	34	LYS
63	N7	46	ILE
63	N7	53	VAL
63	N7	57	HIS
63	N7	72	ILE
63	N7	81	LEU
63	N7	86	THR
63	N7	89	VAL
63	N7	90	GLU
63	N7	99	GLU
63	N7	103	GLN
63	N7	121	ARG
63	N7	134	LEU
64	N8	2	PRO
64	N8	4	ARG
64	N8	6	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
64	N8	8	THR
64	N8	12	ARG
64	N8	14	HIS
64	N8	22	ILE
64	N8	42	ARG
64	N8	46	ASP
64	N8	60	TYR
64	N8	72	VAL
64	N8	74	ASN
64	N8	76	ASP
64	N8	91	LEU
64	N8	115	LYS
64	N8	120	ASN
64	N8	130	VAL
64	N8	133	LEU
64	N8	135	GLU
65	N9	14	ARG
65	N9	18	ARG
65	N9	22	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	38	LYS
65	N9	59	LYS
66	O0	11	ASN
66	O0	14	LEU
66	O0	16	LEU
66	O0	18	ILE
66	O0	30	THR
66	O0	33	SER
66	O0	41	LEU
66	O0	48	THR
66	O0	52	ARG
66	O0	55	GLU
66	O0	61	MET
66	O0	63	SER
66	O0	76	GLU
66	O0	79	THR
66	O0	83	LYS
66	O0	87	VAL
66	O0	98	SER
67	O1	6	ASP
67	O1	12	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
67	O1	13	THR
67	O1	26	LYS
67	O1	31	ARG
67	O1	64	VAL
67	O1	75	ILE
67	O1	76	SER
67	O1	79	ARG
67	O1	84	ASP
67	O1	86	LYS
67	O1	106	THR
67	O1	107	VAL
68	O2	3	SER
68	O2	14	THR
68	O2	19	ARG
68	O2	24	ARG
68	O2	27	ARG
68	O2	31	ASN
68	O2	33	ARG
68	O2	41	VAL
68	O2	44	ARG
68	O2	61	LYS
68	O2	62	LYS
68	O2	63	THR
68	O2	72	LYS
68	O2	73	THR
68	O2	76	VAL
68	O2	83	GLU
68	O2	84	THR
68	O2	95	GLU
68	O2	107	VAL
68	O2	125	ARG
68	O2	128	LEU
69	O3	4	SER
69	O3	6	ARG
69	O3	7	LEU
69	O3	15	SER
69	O3	20	LYS
69	O3	21	ARG
69	O3	28	SER
69	O3	37	THR
69	O3	45	LEU
69	O3	56	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
69	O3	59	VAL
69	O3	63	LYS
69	O3	70	LYS
69	O3	78	SER
69	O3	82	ARG
69	O3	93	THR
69	O3	98	VAL
69	O3	107	ILE
70	O4	3	GLN
70	O4	16	ARG
70	O4	20	ILE
70	O4	24	LYS
70	O4	29	ILE
70	O4	51	LEU
70	O4	58	ARG
70	O4	65	VAL
70	O4	79	SER
70	O4	86	LYS
70	O4	87	GLU
70	O4	101	VAL
70	O4	105	VAL
71	O5	13	SER
71	O5	15	GLU
71	O5	27	GLU
71	O5	28	LEU
71	O5	46	THR
71	O5	49	LYS
71	O5	71	LYS
71	O5	73	LYS
71	O5	81	ARG
71	O5	89	ARG
71	O5	119	LYS
72	O6	9	ILE
72	O6	11	LEU
72	O6	21	THR
72	O6	25	LYS
72	O6	26	ILE
72	O6	28	TYR
72	O6	36	ARG
72	O6	45	ARG
72	O6	52	PRO
72	O6	57	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
72	O6	58	ILE
72	O6	60	LEU
72	O6	62	ARG
72	O6	68	ARG
72	O6	76	ARG
72	O6	80	PHE
72	O6	88	GLU
72	O6	100	HIS
73	O7	3	LYS
73	O7	12	HIS
73	O7	13	ASN
73	O7	15	SER
73	O7	22	CYS
73	O7	25	ARG
73	O7	36	SER
73	O7	55	ARG
73	O7	61	THR
73	O7	75	LYS
73	O7	82	SER
73	O7	84	SER
74	O8	5	ILE
74	O8	6	THR
74	O8	8	ILE
74	O8	22	THR
74	O8	45	VAL
74	O8	46	ARG
74	O8	48	SER
74	O8	53	THR
74	O8	61	LYS
74	O8	64	LYS
74	O8	65	LEU
74	O8	67	GLN
74	O8	68	SER
74	O8	69	LEU
74	O8	77	ARG
74	O8	78	LEU
75	O9	4	GLN
75	O9	11	GLN
75	O9	19	GLN
75	O9	21	ARG
75	O9	23	LEU
75	O9	32	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
75	O9	34	THR
75	O9	41	ARG
76	Q0	78	ILE
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	94	SER
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	127	LEU
77	Q1	9	ARG
77	Q1	11	ARG
77	Q1	21	ARG
77	Q1	25	LYS
78	Q2	2	VAL
78	Q2	3	ASN
78	Q2	7	THR
78	Q2	8	ARG
78	Q2	16	THR
78	Q2	20	HIS
78	Q2	26	THR
78	Q2	35	LEU
78	Q2	38	GLN
78	Q2	47	GLN
78	Q2	56	PRO
78	Q2	58	PHE
78	Q2	60	LYS
78	Q2	61	LYS
78	Q2	65	THR
78	Q2	71	ARG
78	Q2	72	LEU
78	Q2	78	LYS
78	Q2	79	THR
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	93	LEU
78	Q2	99	GLN
78	Q2	104	LEU
79	Q3	11	THR
79	Q3	13	LYS
79	Q3	16	VAL
79	Q3	20	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
79	Q3	24	ARG
79	Q3	28	LYS
79	Q3	40	SER
79	Q3	45	LYS
79	Q3	70	THR
79	Q3	73	THR
79	Q3	81	SER
79	Q3	91	GLU
2	s0	8	ASP
2	s0	9	LEU
2	s0	12	GLU
2	s0	24	LEU
2	s0	28	ASN
2	s0	30	GLN
2	s0	31	VAL
2	s0	45	VAL
2	s0	59	LEU
2	s0	69	ASN
2	s0	71	GLU
2	s0	80	THR
2	s0	81	PHE
2	s0	93	THR
2	s0	110	TYR
2	s0	113	ARG
2	s0	119	ARG
2	s0	131	GLN
2	s0	135	GLU
2	s0	139	VAL
2	s0	144	ILE
2	s0	153	SER
2	s0	158	VAL
2	s0	162	CYS
2	s0	167	LYS
2	s0	172	LEU
2	s0	185	ARG
2	s0	189	VAL
2	s0	198	MET
2	s0	203	PHE
3	s1	21	VAL
3	s1	31	ASP
3	s1	47	LEU
3	s1	48	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	s1	55	LYS
3	s1	62	LYS
3	s1	65	VAL
3	s1	68	VAL
3	s1	70	LEU
3	s1	81	PHE
3	s1	83	LYS
3	s1	91	VAL
3	s1	103	MET
3	s1	104	ASP
3	s1	105	PHE
3	s1	106	THR
3	s1	110	LEU
3	s1	115	ARG
3	s1	118	GLN
3	s1	120	LEU
3	s1	125	VAL
3	s1	137	ILE
3	s1	148	ASN
3	s1	150	VAL
3	s1	154	SER
3	s1	159	SER
3	s1	169	SER
3	s1	173	THR
3	s1	180	THR
3	s1	181	LEU
3	s1	185	THR
3	s1	189	ILE
3	s1	194	ASN
3	s1	209	ASN
3	s1	215	VAL
3	s1	219	LYS
3	s1	222	LYS
3	s1	223	PHE
3	s1	229	MET
3	s1	232	HIS
3	s1	234	GLU
4	s2	41	LEU
4	s2	53	ILE
4	s2	55	GLU
4	s2	58	LEU
4	s2	67	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	s2	70	ASP
4	s2	72	LEU
4	s2	78	ASP
4	s2	81	MET
4	s2	82	ASN
4	s2	83	ILE
4	s2	89	GLN
4	s2	91	ARG
4	s2	95	ARG
4	s2	97	ARG
4	s2	111	VAL
4	s2	117	THR
4	s2	139	ILE
4	s2	141	ARG
4	s2	146	THR
4	s2	150	GLN
4	s2	152	HIS
4	s2	153	SER
4	s2	159	THR
4	s2	166	THR
4	s2	169	LEU
4	s2	170	ILE
4	s2	181	SER
4	s2	185	LYS
4	s2	187	LEU
4	s2	194	GLU
4	s2	218	ILE
4	s2	221	THR
4	s2	222	TYR
4	s2	228	ASN
4	s2	229	LEU
4	s2	232	GLU
4	s2	233	GLN
4	s2	237	VAL
4	s2	238	SER
4	s2	246	GLU
5	s3	4	LEU
5	s3	34	TYR
5	s3	53	THR
5	s3	55	THR
5	s3	59	LEU
5	s3	61	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	s3	67	ASN
5	s3	84	ILE
5	s3	90	ARG
5	s3	91	VAL
5	s3	111	ASN
5	s3	115	ILE
5	s3	116	ARG
5	s3	117	ARG
5	s3	127	MET
5	s3	128	GLU
5	s3	142	LEU
5	s3	158	ILE
5	s3	162	GLN
5	s3	168	ILE
5	s3	176	LEU
5	s3	177	MET
5	s3	196	ARG
5	s3	202	LEU
5	s3	204	ASP
5	s3	212	LYS
5	s3	223	LYS
5	s3	224	ASP
6	s4	12	LEU
6	s4	23	LEU
6	s4	24	SER
6	s4	26	CYS
6	s4	36	HIS
6	s4	38	LEU
6	s4	39	ARG
6	s4	49	ARG
6	s4	51	ARG
6	s4	73	ASP
6	s4	86	PHE
6	s4	98	ASN
6	s4	104	ASP
6	s4	108	ARG
6	s4	109	PHE
6	s4	116	ASP
6	s4	123	LEU
6	s4	126	VAL
6	s4	128	LYS
6	s4	130	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	s4	131	LEU
6	s4	140	VAL
6	s4	147	ILE
6	s4	148	ARG
6	s4	160	VAL
6	s4	163	ASP
6	s4	180	LEU
6	s4	182	TYR
6	s4	191	ARG
6	s4	221	ARG
6	s4	222	LEU
6	s4	237	SER
6	s4	246	LEU
6	s4	252	ARG
7	s5	25	LEU
7	s5	39	GLU
7	s5	48	PHE
7	s5	51	VAL
7	s5	63	GLN
7	s5	68	ILE
7	s5	76	ARG
7	s5	93	LEU
7	s5	99	MET
7	s5	100	ASN
7	s5	112	ARG
7	s5	125	THR
7	s5	128	ASN
7	s5	148	ARG
7	s5	149	VAL
7	s5	156	ARG
7	s5	157	ARG
7	s5	160	VAL
7	s5	194	LEU
7	s5	199	ILE
7	s5	203	LYS
7	s5	216	GLU
7	s5	219	ARG
7	s5	224	ASN
8	s6	7	TYR
8	s6	10	ASN
8	s6	18	ILE
8	s6	21	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	s6	22	HIS
8	s6	34	GLN
8	s6	35	GLU
8	s6	43	ASP
8	s6	71	THR
8	s6	73	ILE
8	s6	76	LEU
8	s6	78	THR
8	s6	93	LYS
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	120	GLU
8	s6	121	LEU
8	s6	126	ASP
8	s6	127	THR
8	s6	143	LYS
8	s6	151	ASP
8	s6	153	VAL
8	s6	155	ASP
8	s6	156	PHE
8	s6	157	VAL
8	s6	170	THR
8	s6	171	LYS
8	s6	177	ARG
8	s6	179	VAL
8	s6	180	THR
8	s6	191	ARG
8	s6	215	ARG
9	s7	11	GLN
9	s7	24	PHE
9	s7	28	GLU
9	s7	41	LEU
9	s7	45	SER
9	s7	50	ASP
9	s7	51	VAL
9	s7	62	VAL
9	s7	66	SER
9	s7	88	ARG
9	s7	106	SER
9	s7	108	GLN
9	s7	109	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	s7	114	ARG
9	s7	116	ARG
9	s7	122	HIS
9	s7	126	LEU
9	s7	129	LEU
9	s7	148	LYS
9	s7	159	VAL
9	s7	162	ILE
9	s7	185	ILE
10	s8	4	SER
10	s8	25	ARG
10	s8	29	LEU
10	s8	36	THR
10	s8	46	VAL
10	s8	59	ARG
10	s8	74	LYS
10	s8	88	ASN
10	s8	111	GLN
10	s8	121	LEU
10	s8	138	ASN
10	s8	149	SER
10	s8	151	LYS
10	s8	152	ILE
10	s8	155	SER
10	s8	165	LEU
10	s8	175	GLN
10	s8	183	ILE
10	s8	184	LEU
11	s9	3	ARG
11	s9	7	THR
11	s9	9	SER
11	s9	28	LEU
11	s9	49	LEU
11	s9	71	PHE
11	s9	78	ARG
11	s9	82	ARG
11	s9	94	ASP
11	s9	109	LEU
11	s9	110	GLN
11	s9	120	LYS
11	s9	121	SER
11	s9	126	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	s9	130	THR
11	s9	132	ARG
11	s9	134	ILE
11	s9	141	VAL
11	s9	145	SER
11	s9	151	ASP
11	s9	154	LYS
11	s9	161	THR
11	s9	175	ARG
11	s9	180	LYS
81	c0	2	LEU
81	c0	15	LEU
81	c0	20	VAL
81	c0	27	PHE
81	c0	33	GLU
81	c0	47	GLN
81	c0	55	VAL
13	c1	3	THR
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	26	LYS
13	c1	27	THR
13	c1	28	SER
13	c1	31	THR
13	c1	33	ARG
13	c1	56	LYS
13	c1	60	PHE
13	c1	67	ARG
13	c1	74	THR
13	c1	80	MET
13	c1	83	THR
13	c1	90	TYR
13	c1	98	ASN
13	c1	119	VAL
13	c1	125	VAL
14	c2	28	LEU
14	c2	43	ARG
14	c2	45	LEU
14	c2	61	VAL
14	c2	62	LEU
14	c2	66	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	c2	71	ILE
14	c2	74	LEU
14	c2	85	LYS
14	c2	89	ILE
14	c2	91	VAL
14	c2	103	LEU
14	c2	121	VAL
14	c2	131	ASP
14	c2	132	GLU
14	c2	140	PHE
15	c3	16	ILE
15	c3	20	ARG
15	c3	28	LEU
15	c3	58	HIS
15	c3	64	ARG
15	c3	65	VAL
15	c3	66	ILE
15	c3	70	LYS
15	c3	75	LEU
15	c3	76	LYS
15	c3	78	ASN
15	c3	83	GLU
15	c3	84	ILE
15	c3	88	LEU
15	c3	92	ILE
15	c3	94	LYS
15	c3	110	ASP
15	c3	115	LEU
15	c3	125	LEU
15	c3	139	TRP
16	c4	18	ARG
16	c4	34	SER
16	c4	42	VAL
16	c4	56	SER
16	c4	61	MET
16	c4	81	VAL
16	c4	102	LEU
16	c4	107	ARG
16	c4	114	ARG
16	c4	123	SER
16	c4	124	ASP
16	c4	133	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	c4	136	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	24	LYS
17	c5	27	GLU
17	c5	36	LEU
17	c5	52	LYS
17	c5	69	GLU
17	c5	71	GLU
17	c5	77	ARG
17	c5	78	THR
17	c5	96	ILE
17	c5	97	TYR
17	c5	107	ILE
17	c5	110	GLU
17	c5	121	ILE
17	c5	124	THR
17	c5	127	ARG
18	c6	6	SER
18	c6	17	THR
18	c6	23	LYS
18	c6	28	LEU
18	c6	36	ILE
18	c6	43	ILE
18	c6	53	LEU
18	c6	57	LEU
18	c6	58	ASP
18	c6	67	VAL
18	c6	68	ARG
18	c6	69	VAL
18	c6	90	VAL
18	c6	97	VAL
18	c6	98	ASP
18	c6	114	ARG
18	c6	117	LEU
18	c6	137	ARG
18	c6	140	LYS
82	c7	3	ARG
82	c7	5	ARG
82	c7	6	THR
82	c7	25	THR
82	c7	27	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
82	c7	29	GLN
82	c7	34	LEU
82	c7	38	ILE
82	c7	46	LEU
82	c7	47	ARG
82	c7	69	ILE
82	c7	70	SER
82	c7	77	GLU
82	c7	85	VAL
82	c7	88	VAL
82	c7	104	ASN
82	c7	105	GLN
82	c7	108	ASP
82	c7	110	VAL
82	c7	113	LEU
20	c8	3	LEU
20	c8	4	VAL
20	c8	6	GLN
20	c8	10	SER
20	c8	13	HIS
20	c8	15	LEU
20	c8	20	THR
20	c8	27	LYS
20	c8	40	ARG
20	c8	51	ASP
20	c8	74	GLN
20	c8	75	ASN
20	c8	85	PHE
20	c8	89	GLN
20	c8	92	ILE
20	c8	100	THR
20	c8	104	ASN
20	c8	120	ARG
20	c8	133	VAL
20	c8	138	THR
20	c8	144	ARG
21	c9	6	VAL
21	c9	7	ARG
21	c9	28	LEU
21	c9	70	GLN
21	c9	71	VAL
21	c9	75	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	c9	86	ARG
21	c9	123	ARG
21	c9	126	GLU
21	c9	131	ASP
21	c9	139	THR
21	c9	140	LEU
22	d0	15	GLN
22	d0	21	LYS
22	d0	22	ILE
22	d0	23	ARG
22	d0	30	LYS
22	d0	31	VAL
22	d0	34	LEU
22	d0	44	ASN
22	d0	57	ARG
22	d0	60	THR
22	d0	65	ILE
22	d0	70	THR
22	d0	72	ASN
22	d0	77	LYS
22	d0	81	THR
22	d0	99	ILE
22	d0	102	ARG
22	d0	103	ILE
22	d0	105	GLN
22	d0	115	GLU
22	d0	118	VAL
23	d1	2	GLU
23	d1	5	LYS
23	d1	10	GLU
23	d1	27	ASP
23	d1	39	VAL
23	d1	49	GLU
23	d1	52	THR
24	d2	7	LEU
24	d2	9	ASP
24	d2	11	LEU
24	d2	23	ARG
24	d2	28	ARG
24	d2	37	PHE
24	d2	93	LEU
24	d2	98	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	d2	103	ILE
24	d2	117	ARG
24	d2	126	LEU
24	d2	129	VAL
25	d3	7	ARG
25	d3	9	LEU
25	d3	16	ARG
25	d3	19	ARG
25	d3	41	SER
25	d3	55	GLU
25	d3	56	LYS
25	d3	66	SER
25	d3	69	ARG
25	d3	72	VAL
25	d3	73	ARG
25	d3	79	ASN
25	d3	84	THR
25	d3	96	VAL
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	128	SER
25	d3	130	VAL
25	d3	133	LEU
25	d3	138	GLU
26	d4	5	VAL
26	d4	26	ASP
26	d4	34	ASN
26	d4	35	VAL
26	d4	43	LYS
26	d4	44	LEU
26	d4	49	LYS
26	d4	51	GLU
26	d4	58	PHE
26	d4	62	THR
26	d4	77	ASN
26	d4	78	SER
26	d4	81	GLU
26	d4	83	LYS
26	d4	88	THR
26	d4	96	LEU
26	d4	121	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	d4	125	LEU
26	d4	128	LYS
26	d4	133	ASN
27	d5	41	ILE
27	d5	45	GLU
27	d5	52	LYS
27	d5	53	GLU
27	d5	57	TYR
27	d5	60	VAL
27	d5	81	ARG
27	d5	102	THR
28	d6	2	PRO
28	d6	4	LYS
28	d6	11	ASN
28	d6	21	VAL
28	d6	26	CYS
28	d6	33	ASP
28	d6	39	MET
28	d6	53	LEU
28	d6	54	SER
28	d6	67	THR
28	d6	72	HIS
28	d6	74	CYS
28	d6	82	ARG
28	d6	84	VAL
28	d6	87	ARG
28	d6	90	GLU
28	d6	91	ASP
29	d7	3	LEU
29	d7	21	LEU
29	d7	26	GLN
29	d7	34	ASP
29	d7	41	LEU
29	d7	43	ILE
29	d7	44	THR
29	d7	46	VAL
29	d7	52	THR
29	d7	72	LYS
29	d7	77	THR
29	d7	81	ARG
29	d7	82	LYS
30	d8	14	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	d8	15	VAL
30	d8	19	THR
30	d8	22	ARG
30	d8	27	GLN
30	d8	28	VAL
30	d8	29	ARG
30	d8	30	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	40	ILE
30	d8	54	LEU
30	d8	58	GLU
30	d8	64	ARG
30	d8	65	ARG
31	d9	10	HIS
31	d9	21	CYS
31	d9	28	THR
31	d9	30	LEU
31	d9	36	LEU
31	d9	40	ARG
31	d9	42	CYS
31	d9	54	LYS
32	e0	4	VAL
32	e0	10	ARG
32	e0	13	LYS
32	e0	24	THR
32	e0	28	LYS
32	e0	29	LYS
32	e0	44	PHE
32	e0	56	MET
33	e1	78	LYS
33	e1	86	THR
33	e1	90	LYS
33	e1	91	ILE
33	e1	96	LYS
33	e1	98	VAL
33	e1	100	LEU
33	e1	102	VAL
33	e1	106	TYR
33	e1	107	LYS
33	e1	108	VAL
33	e1	113	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	e1	115	THR
33	e1	116	LYS
33	e1	135	HIS
33	e1	147	VAL
83	sR	51	ASP
83	sR	52	GLN
83	sR	59	ARG
83	sR	66	HIS
83	sR	76	ASP
83	sR	96	THR
83	sR	106	HIS
83	sR	115	ILE
83	sR	145	LEU
83	sR	149	ASP
83	sR	166	SER
83	sR	167	VAL
83	sR	168	THR
83	sR	176	LYS
83	sR	207	ASP
83	sR	210	LEU
83	sR	232	TYR
83	sR	275	ARG
83	sR	286	GLU
83	sR	290	VAL
83	sR	297	ASP
83	sR	300	THR
84	sM	34	LYS
84	sM	43	ASP
84	sM	48	ARG
84	sM	49	LYS
84	sM	68	ARG
84	sM	70	ASN
84	sM	71	ASN
84	sM	74	LYS
84	sM	75	ASP
84	sM	82	THR
39	l2	15	ILE
39	l2	19	HIS
39	l2	20	THR
39	l2	23	ARG
39	l2	31	THR
39	l2	32	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	l2	44	ILE
39	l2	46	LYS
39	l2	48	ILE
39	l2	61	VAL
39	l2	74	GLU
39	l2	84	THR
39	l2	96	LEU
39	l2	98	VAL
39	l2	101	VAL
39	l2	104	LEU
39	l2	109	GLU
39	l2	114	SER
39	l2	119	LYS
39	l2	134	VAL
39	l2	137	ILE
39	l2	147	ARG
39	l2	155	LYS
39	l2	157	VAL
39	l2	179	LEU
39	l2	190	ARG
39	l2	193	ARG
39	l2	204	MET
39	l2	208	ASP
39	l2	218	HIS
39	l2	224	THR
39	l2	241	ARG
39	l2	246	LEU
40	l3	3	HIS
40	l3	4	ARG
40	l3	5	LYS
40	l3	17	LEU
40	l3	19	ARG
40	l3	21	ARG
40	l3	28	ARG
40	l3	37	ARG
40	l3	39	LYS
40	l3	41	VAL
40	l3	43	LEU
40	l3	47	LEU
40	l3	50	LYS
40	l3	55	THR
40	l3	77	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	l3	81	THR
40	l3	82	PRO
40	l3	95	THR
40	l3	103	THR
40	l3	110	LEU
40	l3	114	VAL
40	l3	120	LYS
40	l3	127	LYS
40	l3	139	GLN
40	l3	146	ARG
40	l3	148	LEU
40	l3	153	LYS
40	l3	197	GLU
40	l3	202	THR
40	l3	205	VAL
40	l3	208	VAL
40	l3	212	ASN
40	l3	232	ARG
40	l3	235	THR
40	l3	246	LEU
40	l3	249	VAL
40	l3	282	ILE
40	l3	284	ARG
40	l3	287	LYS
40	l3	300	ARG
40	l3	301	THR
40	l3	304	THR
40	l3	319	ASN
40	l3	332	ARG
40	l3	338	LEU
40	l3	340	LYS
40	l3	347	SER
40	l3	348	ARG
40	l3	356	LEU
40	l3	367	LYS
40	l3	383	LEU
41	l4	3	ARG
41	l4	11	LEU
41	l4	25	VAL
41	l4	47	ARG
41	l4	53	SER
41	l4	55	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	l4	60	THR
41	l4	92	ASN
41	l4	93	MET
41	l4	94	CYS
41	l4	98	ARG
41	l4	105	THR
41	l4	120	TYR
41	l4	122	THR
41	l4	135	VAL
41	l4	136	LEU
41	l4	138	ARG
41	l4	144	LYS
41	l4	145	ILE
41	l4	148	ILE
41	l4	150	LEU
41	l4	151	VAL
41	l4	152	VAL
41	l4	156	LEU
41	l4	158	SER
41	l4	163	LYS
41	l4	176	SER
41	l4	177	ASP
41	l4	179	LEU
41	l4	186	LYS
41	l4	187	LEU
41	l4	193	LYS
41	l4	203	ARG
41	l4	206	LEU
41	l4	220	ARG
41	l4	222	VAL
41	l4	223	PRO
41	l4	246	ARG
41	l4	247	PHE
41	l4	258	LEU
41	l4	259	ASP
41	l4	261	VAL
41	l4	265	GLU
41	l4	276	LEU
41	l4	282	SER
41	l4	283	THR
41	l4	284	SER
41	l4	288	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	14	289	ILE
41	14	292	SER
41	14	307	GLN
41	14	313	LEU
41	14	316	ASN
41	14	327	LEU
41	14	333	VAL
41	14	347	THR
41	14	356	THR
42	15	5	LYS
42	15	34	LYS
42	15	35	ARG
42	15	51	LEU
42	15	62	CYS
42	15	65	ILE
42	15	69	ILE
42	15	70	THR
42	15	74	VAL
42	15	75	LEU
42	15	84	PRO
42	15	89	THR
42	15	101	THR
42	15	110	LEU
42	15	112	LYS
42	15	113	LEU
42	15	123	GLU
42	15	124	GLU
42	15	128	GLU
42	15	132	THR
42	15	133	GLU
42	15	146	LEU
42	15	148	ILE
42	15	155	THR
42	15	177	GLU
42	15	189	GLU
42	15	190	ILE
42	15	192	PRO
42	15	194	LEU
42	15	195	LEU
42	15	196	ARG
42	15	237	GLU
42	15	241	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	15	254	LYS
42	15	258	LYS
42	15	259	LYS
42	15	261	THR
42	15	268	GLU
42	15	273	ARG
42	15	277	LEU
42	15	282	ARG
42	15	293	LEU
43	16	8	LYS
43	16	20	LYS
43	16	21	THR
43	16	31	ARG
43	16	52	VAL
43	16	64	LEU
43	16	65	ILE
43	16	84	VAL
43	16	93	VAL
43	16	99	GLU
43	16	108	LYS
43	16	129	GLU
43	16	152	THR
43	16	162	SER
43	16	165	LEU
43	16	170	LYS
44	17	26	VAL
44	17	38	LYS
44	17	41	ARG
44	17	52	GLN
44	17	56	GLU
44	17	60	ARG
44	17	77	VAL
44	17	83	LEU
44	17	84	VAL
44	17	87	VAL
44	17	95	ILE
44	17	98	LYS
44	17	113	SER
44	17	118	LYS
44	17	121	LYS
44	17	124	LEU
44	17	138	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	17	150	LYS
44	17	151	ARG
44	17	153	PHE
44	17	156	ILE
44	17	158	LYS
44	17	175	LYS
44	17	178	ILE
44	17	179	LEU
44	17	183	ASP
44	17	184	LEU
44	17	208	SER
44	17	216	VAL
44	17	218	ARG
44	17	229	PHE
44	17	239	LEU
86	18	26	LEU
86	18	41	GLN
86	18	68	ARG
86	18	69	LEU
86	18	74	THR
86	18	79	GLN
86	18	81	THR
86	18	89	GLU
86	18	90	THR
86	18	95	ASN
86	18	109	LEU
86	18	126	SER
86	18	136	LEU
86	18	149	LYS
86	18	153	ILE
86	18	157	VAL
86	18	160	ILE
86	18	169	LEU
86	18	172	LYS
86	18	180	VAL
86	18	183	LYS
86	18	200	LEU
86	18	211	LEU
86	18	213	LYS
86	18	214	LEU
86	18	224	ASP
86	18	229	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
86	18	230	LYS
86	18	241	LYS
86	18	248	LYS
46	19	5	GLN
46	19	6	THR
46	19	18	VAL
46	19	20	ILE
46	19	31	ARG
46	19	33	THR
46	19	34	LEU
46	19	48	VAL
46	19	55	VAL
46	19	68	LEU
46	19	69	ARG
46	19	70	THR
46	19	82	VAL
46	19	90	MET
46	19	92	TYR
46	19	93	VAL
46	19	104	VAL
46	19	105	GLU
46	19	118	LEU
46	19	120	ASP
46	19	129	ARG
46	19	132	VAL
46	19	133	THR
46	19	140	VAL
46	19	143	GLU
46	19	144	ILE
46	19	146	LEU
46	19	147	SER
46	19	149	ASN
46	19	151	VAL
46	19	155	SER
46	19	157	ASN
46	19	161	LEU
46	19	162	GLN
46	19	167	VAL
46	19	179	ILE
46	19	182	SER
47	m0	3	ARG
47	m0	4	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
47	m0	15	LYS
47	m0	21	ARG
47	m0	22	TYR
47	m0	26	VAL
47	m0	27	PRO
47	m0	28	ASP
47	m0	31	ILE
47	m0	35	ASP
47	m0	36	LEU
47	m0	42	THR
47	m0	44	ASP
47	m0	48	LEU
47	m0	52	LEU
47	m0	57	LEU
47	m0	71	CYS
47	m0	76	MET
47	m0	80	SER
47	m0	82	ARG
47	m0	83	ASP
47	m0	87	LEU
47	m0	99	ILE
47	m0	121	LYS
47	m0	131	ILE
47	m0	139	ARG
47	m0	142	ASP
47	m0	153	ARG
47	m0	162	GLN
47	m0	167	LEU
47	m0	169	LYS
47	m0	177	ASP
47	m0	178	ARG
47	m0	185	ARG
47	m0	197	VAL
47	m0	200	LEU
47	m0	205	SER
47	m0	206	LEU
47	m0	208	ASN
47	m0	212	GLU
48	m1	10	ARG
48	m1	13	LYS
48	m1	17	LEU
48	m1	31	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	m1	44	THR
48	m1	52	TYR
48	m1	55	ARG
48	m1	85	LYS
48	m1	92	ARG
48	m1	93	ASP
48	m1	97	SER
48	m1	106	ILE
48	m1	107	ASP
48	m1	112	LEU
48	m1	119	SER
48	m1	129	VAL
48	m1	130	VAL
48	m1	140	ARG
48	m1	155	THR
48	m1	157	GLU
48	m1	160	VAL
49	m3	13	HIS
49	m3	46	ILE
49	m3	53	LEU
49	m3	54	LEU
49	m3	55	ARG
49	m3	58	VAL
49	m3	59	ARG
49	m3	62	THR
49	m3	63	VAL
49	m3	67	ARG
49	m3	69	VAL
49	m3	73	ARG
49	m3	79	GLU
49	m3	85	LEU
49	m3	86	THR
49	m3	97	VAL
49	m3	104	ARG
49	m3	107	GLU
49	m3	123	ILE
49	m3	124	ILE
49	m3	131	LYS
49	m3	149	GLN
49	m3	150	PRO
49	m3	162	ASN
49	m3	164	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
49	m3	186	ARG
49	m3	189	GLU
50	m4	3	THR
50	m4	6	ILE
50	m4	12	TRP
50	m4	21	VAL
50	m4	37	GLU
50	m4	38	ILE
50	m4	63	VAL
50	m4	66	THR
50	m4	69	THR
50	m4	72	LEU
50	m4	90	VAL
50	m4	107	GLU
50	m4	108	ARG
50	m4	125	LYS
50	m4	128	ARG
50	m4	130	THR
50	m4	135	LEU
51	m5	5	LYS
51	m5	7	LEU
51	m5	10	LEU
51	m5	12	ARG
51	m5	22	LEU
51	m5	49	ARG
51	m5	50	ARG
51	m5	65	ARG
51	m5	68	ARG
51	m5	71	ARG
51	m5	73	ARG
51	m5	75	VAL
51	m5	80	THR
51	m5	84	PRO
51	m5	85	THR
51	m5	96	ARG
51	m5	99	ARG
51	m5	104	GLU
51	m5	108	ARG
51	m5	138	GLN
51	m5	153	ASP
51	m5	165	THR
51	m5	175	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	m5	176	LYS
51	m5	187	ARG
51	m5	188	ARG
51	m5	201	ARG
52	m6	3	VAL
52	m6	4	GLU
52	m6	66	LYS
52	m6	67	THR
52	m6	77	SER
52	m6	78	ARG
52	m6	85	ARG
52	m6	87	MET
52	m6	100	GLU
52	m6	106	GLU
52	m6	110	PRO
52	m6	117	ARG
52	m6	118	VAL
52	m6	119	VAL
52	m6	124	LEU
52	m6	130	LYS
52	m6	143	THR
52	m6	160	ARG
52	m6	166	GLU
52	m6	171	LYS
52	m6	175	THR
52	m6	180	SER
52	m6	182	ASN
52	m6	184	THR
52	m6	197	LEU
53	m7	7	THR
53	m7	20	SER
53	m7	32	THR
53	m7	41	LEU
53	m7	45	GLN
53	m7	52	LEU
53	m7	61	ARG
53	m7	80	LYS
53	m7	89	LYS
53	m7	94	LEU
53	m7	96	GLN
53	m7	97	ASN
53	m7	107	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
53	m7	110	THR
53	m7	112	LEU
53	m7	114	VAL
53	m7	118	GLN
53	m7	120	ASN
53	m7	127	ARG
53	m7	129	THR
53	m7	136	ILE
53	m7	138	LYS
53	m7	142	SER
53	m7	143	PRO
53	m7	150	VAL
53	m7	155	GLU
54	m8	3	ILE
54	m8	12	ARG
54	m8	13	SER
54	m8	17	THR
54	m8	22	ASP
54	m8	24	VAL
54	m8	26	LEU
54	m8	32	LEU
54	m8	39	ARG
54	m8	49	LEU
54	m8	55	SER
54	m8	63	SER
54	m8	64	VAL
54	m8	80	THR
54	m8	81	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	98	LYS
54	m8	105	ARG
54	m8	122	ILE
54	m8	129	VAL
54	m8	135	GLN
54	m8	144	ARG
54	m8	146	SER
54	m8	147	ARG
54	m8	165	ILE
54	m8	176	ARG
54	m8	178	ARG
55	m9	5	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	m9	7	GLN
55	m9	10	LEU
55	m9	13	SER
55	m9	17	VAL
55	m9	20	ARG
55	m9	29	THR
55	m9	30	SER
55	m9	36	ASN
55	m9	46	LYS
55	m9	47	ASN
55	m9	56	THR
55	m9	59	SER
55	m9	63	THR
55	m9	70	LYS
55	m9	74	ARG
55	m9	84	THR
55	m9	88	ARG
55	m9	99	LEU
55	m9	103	ARG
55	m9	111	ASP
55	m9	116	ASP
55	m9	117	LYS
55	m9	126	GLU
55	m9	134	HIS
55	m9	139	VAL
55	m9	143	ILE
55	m9	152	GLU
55	m9	153	LYS
55	m9	164	LEU
55	m9	171	ASP
55	m9	186	LYS
56	n0	3	HIS
56	n0	16	THR
56	n0	21	GLU
56	n0	28	ARG
56	n0	32	SER
56	n0	58	ILE
56	n0	62	ASN
56	n0	73	LYS
56	n0	80	ARG
56	n0	88	HIS
56	n0	97	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
56	n0	103	VAL
56	n0	105	THR
56	n0	113	ARG
56	n0	117	ARG
56	n0	119	ARG
56	n0	120	SER
56	n0	123	ILE
56	n0	130	GLU
56	n0	137	ARG
56	n0	142	GLN
56	n0	145	THR
56	n0	155	ARG
56	n0	162	THR
56	n0	166	LYS
56	n0	172	TYR
57	n1	27	LEU
57	n1	35	LYS
57	n1	36	VAL
57	n1	41	ASP
57	n1	60	LYS
57	n1	64	VAL
57	n1	68	THR
57	n1	69	LYS
57	n1	78	LYS
57	n1	79	MET
57	n1	80	VAL
57	n1	83	ARG
57	n1	93	VAL
57	n1	94	GLU
57	n1	96	ILE
57	n1	104	GLU
57	n1	110	LYS
57	n1	118	GLU
57	n1	126	VAL
57	n1	131	GLN
57	n1	139	ARG
57	n1	143	THR
57	n1	149	GLN
57	n1	150	THR
58	n2	14	THR
58	n2	20	SER
58	n2	27	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
58	n2	28	PHE
58	n2	37	LEU
58	n2	50	LEU
58	n2	54	VAL
58	n2	55	THR
58	n2	57	THR
58	n2	61	THR
58	n2	63	VAL
58	n2	75	TYR
58	n2	94	ARG
58	n2	98	THR
58	n2	105	LEU
59	n3	4	ASN
59	n3	13	ILE
59	n3	45	ARG
59	n3	57	MET
59	n3	58	VAL
59	n3	66	LYS
59	n3	73	VAL
59	n3	88	ARG
59	n3	91	VAL
59	n3	112	SER
59	n3	115	THR
88	n4	1	MET
88	n4	5	ILE
88	n4	7	SER
88	n4	17	ARG
88	n4	23	ARG
88	n4	25	ASP
88	n4	26	SER
88	n4	41	LYS
88	n4	58	HIS
88	n4	63	ILE
88	n4	89	LEU
88	n4	104	ASN
88	n4	127	LYS
61	n5	24	LEU
61	n5	27	ARG
61	n5	34	LEU
61	n5	37	THR
61	n5	39	LYS
61	n5	45	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
61	n5	51	VAL
61	n5	52	PRO
61	n5	56	ARG
61	n5	58	ASP
61	n5	63	ILE
61	n5	65	GLN
61	n5	71	THR
61	n5	73	MET
61	n5	74	LYS
61	n5	78	ASP
61	n5	108	LEU
61	n5	109	LYS
61	n5	115	ARG
61	n5	125	ARG
61	n5	133	LEU
61	n5	135	ILE
61	n5	137	ASN
61	n5	138	ARG
62	n6	3	LYS
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	32	SER
62	n6	37	LYS
62	n6	40	ARG
62	n6	45	ILE
62	n6	50	ILE
62	n6	51	ARG
62	n6	56	VAL
62	n6	57	LEU
62	n6	62	SER
62	n6	71	SER
62	n6	74	TYR
62	n6	76	LEU
62	n6	83	ASP
62	n6	102	SER
62	n6	111	LEU
62	n6	112	ASP
62	n6	120	GLN
63	n7	3	LYS
63	n7	17	ARG
63	n7	18	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
63	n7	24	VAL
63	n7	34	LYS
63	n7	46	ILE
63	n7	52	LYS
63	n7	53	VAL
63	n7	64	LYS
63	n7	72	ILE
63	n7	73	LYS
63	n7	81	LEU
63	n7	83	THR
63	n7	95	VAL
63	n7	99	GLU
63	n7	100	THR
63	n7	102	GLU
63	n7	121	ARG
63	n7	134	LEU
64	n8	4	ARG
64	n8	8	THR
64	n8	9	ARG
64	n8	10	LYS
64	n8	22	ILE
64	n8	26	ARG
64	n8	34	MET
64	n8	42	ARG
64	n8	60	TYR
64	n8	65	GLN
64	n8	72	VAL
64	n8	73	LEU
64	n8	78	LEU
64	n8	80	THR
64	n8	91	LEU
64	n8	97	GLU
64	n8	133	LEU
65	n9	13	THR
65	n9	14	ARG
65	n9	26	THR
65	n9	38	LYS
65	n9	42	ASN
65	n9	58	LYS
65	n9	59	LYS
66	o0	8	GLU
66	o0	12	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
66	o0	33	SER
66	o0	40	LYS
66	o0	41	LEU
66	o0	48	THR
66	o0	61	MET
66	o0	76	GLU
66	o0	86	ARG
66	o0	87	VAL
66	o0	91	SER
66	o0	99	ASP
66	o0	101	LEU
67	o1	6	ASP
67	o1	13	THR
67	o1	16	LEU
67	o1	19	ARG
67	o1	24	SER
67	o1	26	LYS
67	o1	31	ARG
67	o1	34	LYS
67	o1	44	MET
67	o1	50	ARG
67	o1	55	LEU
67	o1	64	VAL
67	o1	68	GLU
67	o1	76	SER
67	o1	81	GLU
67	o1	82	GLU
67	o1	89	LEU
67	o1	90	PHE
67	o1	102	LYS
67	o1	106	THR
68	o2	4	LEU
68	o2	10	VAL
68	o2	14	THR
68	o2	21	HIS
68	o2	24	ARG
68	o2	33	ARG
68	o2	34	LYS
68	o2	41	VAL
68	o2	42	VAL
68	o2	44	ARG
68	o2	45	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
68	o2	49	ASN
68	o2	50	ILE
68	o2	51	SER
68	o2	61	LYS
68	o2	67	SER
68	o2	69	SER
68	o2	73	THR
68	o2	75	LEU
68	o2	81	ASP
68	o2	82	LEU
68	o2	86	THR
68	o2	89	THR
68	o2	125	ARG
68	o2	126	LEU
68	o2	128	LEU
69	o3	9	VAL
69	o3	19	SER
69	o3	22	VAL
69	o3	28	SER
69	o3	31	LYS
69	o3	37	THR
69	o3	56	SER
69	o3	59	VAL
69	o3	74	THR
69	o3	80	VAL
69	o3	81	VAL
69	o3	93	THR
69	o3	97	SER
69	o3	98	VAL
69	o3	105	SER
69	o3	107	ILE
70	o4	20	ILE
70	o4	21	LYS
70	o4	29	ILE
70	o4	58	ARG
70	o4	64	THR
70	o4	65	VAL
70	o4	68	THR
70	o4	71	THR
70	o4	80	ARG
70	o4	83	ASN
70	o4	88	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
70	o4	98	GLN
71	o5	11	THR
71	o5	15	GLU
71	o5	20	GLN
71	o5	23	ASP
71	o5	27	GLU
71	o5	28	LEU
71	o5	45	LYS
71	o5	47	VAL
71	o5	48	ARG
71	o5	53	CYS
71	o5	62	GLN
71	o5	63	ARG
71	o5	67	ARG
71	o5	69	LEU
71	o5	80	LEU
71	o5	81	ARG
71	o5	89	ARG
71	o5	90	ARG
71	o5	99	GLN
71	o5	113	GLN
71	o5	119	LYS
72	o6	9	ILE
72	o6	11	LEU
72	o6	17	VAL
72	o6	21	THR
72	o6	35	ASN
72	o6	36	ARG
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	62	ARG
72	o6	68	ARG
72	o6	76	ARG
72	o6	81	THR
72	o6	88	GLU
72	o6	94	ILE
72	o6	98	ARG
73	o7	7	SER
73	o7	15	SER
73	o7	21	ARG
73	o7	22	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
73	o7	25	ARG
73	o7	26	SER
73	o7	33	THR
73	o7	36	SER
73	o7	40	PRO
73	o7	45	ARG
73	o7	55	ARG
73	o7	58	THR
73	o7	59	THR
73	o7	64	MET
73	o7	65	ARG
73	o7	67	LEU
74	o8	17	ARG
74	o8	31	LEU
74	o8	41	THR
74	o8	51	LEU
74	o8	52	TYR
74	o8	53	THR
74	o8	61	LYS
74	o8	64	LYS
74	o8	65	LEU
75	o9	5	LYS
75	o9	11	GLN
75	o9	15	LYS
75	o9	21	ARG
75	o9	45	ARG
76	q0	79	GLU
76	q0	85	LEU
76	q0	88	LYS
76	q0	106	ARG
76	q0	112	LYS
76	q0	113	ARG
76	q0	127	LEU
77	q1	2	ARG
77	q1	6	ARG
77	q1	10	THR
77	q1	13	LEU
77	q1	18	ARG
77	q1	19	LYS
77	q1	21	ARG
77	q1	23	ARG
77	q1	25	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
78	q2	2	VAL
78	q2	8	ARG
78	q2	16	THR
78	q2	45	ARG
78	q2	55	LYS
78	q2	60	LYS
78	q2	61	LYS
78	q2	64	THR
78	q2	71	ARG
78	q2	72	LEU
78	q2	78	LYS
78	q2	84	THR
78	q2	93	LEU
78	q2	96	GLU
78	q2	98	LYS
78	q2	99	GLN
78	q2	100	LYS
78	q2	105	GLN
78	q2	106	PHE
79	q3	3	LYS
79	q3	4	ARG
79	q3	23	ARG
79	q3	41	PHE
79	q3	46	THR
79	q3	54	ILE
79	q3	56	THR
79	q3	58	SER
79	q3	59	CYS
79	q3	73	THR
79	q3	79	VAL
79	q3	81	SER
79	q3	89	MET
89	p0	4	ILE
89	p0	5	ARG
89	p0	15	LEU
89	p0	39	HIS
89	p0	51	VAL
89	p0	55	LYS
89	p0	57	THR
89	p0	67	LEU
89	p0	68	SER
89	p0	70	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
89	p0	84	VAL
89	p0	91	GLU
89	p0	93	LEU
89	p0	97	LYS
89	p0	104	ARG
89	p0	196	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (90) such sidechains are listed below:

Mol	Chain	Res	Type
3	S1	199	ASN
3	S1	209	ASN
4	S2	152	HIS
4	S2	209	ASN
5	S3	165	ASN
7	S5	86	GLN
7	S5	186	ASN
9	S7	71	HIS
19	C7	29	GLN
19	C7	105	GLN
20	C8	78	HIS
20	C8	99	HIS
21	C9	43	ASN
21	C9	48	GLN
21	C9	101	ASN
23	D1	75	ASN
24	D2	64	GLN
34	SR	268	GLN
39	L2	209	HIS
39	L2	233	GLN
40	L3	231	HIS
40	L3	279	ASN
40	L3	345	ASN
41	L4	48	GLN
41	L4	304	GLN
42	L5	81	HIS
42	L5	264	GLN
45	L8	28	HIS
45	L8	138	HIS
47	M0	73	ASN
47	M0	163	GLN
48	M1	7	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
49	M3	19	GLN
50	M4	56	GLN
51	M5	57	GLN
52	M6	31	GLN
55	M9	66	HIS
56	N0	89	ASN
57	N1	54	HIS
59	N3	33	ASN
68	O2	35	GLN
69	O3	106	ASN
70	O4	18	ASN
70	O4	98	GLN
78	Q2	23	HIS
78	Q2	47	GLN
78	Q2	102	GLN
79	Q3	34	HIS
2	s0	32	HIS
2	s0	46	HIS
3	s1	118	GLN
3	s1	209	ASN
9	s7	71	HIS
10	s8	138	ASN
11	s9	110	GLN
11	s9	124	HIS
81	c0	32	HIS
82	c7	104	ASN
82	c7	105	GLN
24	d2	24	GLN
24	d2	44	HIS
25	d3	27	ASN
26	d4	22	GLN
28	d6	43	ASN
30	d8	27	GLN
32	e0	63	GLN
39	l2	215	ASN
40	l3	371	GLN
41	l4	92	ASN
41	l4	304	GLN
42	l5	57	ASN
86	l8	38	GLN
46	l9	58	HIS
46	l9	162	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
47	m0	55	ASN
47	m0	113	GLN
52	m6	26	GLN
55	m9	121	HIS
57	n1	49	GLN
59	n3	33	ASN
63	n7	57	HIS
67	o1	57	GLN
68	o2	71	HIS
71	o5	99	GLN
72	o6	63	ASN
75	o9	4	GLN
78	q2	102	GLN
79	q3	34	HIS
89	p0	36	GLN
89	p0	83	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1776/1812 (98%)	474 (26%)	0
36	1	3145/3149 (99%)	753 (23%)	0
37	3	120/121 (99%)	16 (13%)	0
37	7	120/121 (99%)	21 (17%)	0
38	4	157/158 (99%)	46 (29%)	0
38	8	157/158 (99%)	39 (24%)	0
80	6	1791/1800 (99%)	461 (25%)	0
85	5	3145/3150 (99%)	767 (24%)	0
91	P	1/5 (20%)	0	0
91	p	1/5 (20%)	0	0
All	All	10413/10479 (99%)	2577 (24%)	0

All (2577) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	17	C
1	2	25	C
1	2	26	A
1	2	27	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	34	G
1	2	42	G
1	2	45	U
1	2	46	A
1	2	47	A
1	2	56	U
1	2	57	G
1	2	60	U
1	2	66	U
1	2	67	A
1	2	68	A
1	2	69	G
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	76	A
1	2	77	U
1	2	101	U
1	2	104	A
1	2	114	C
1	2	126	A
1	2	127	G
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U
1	2	143	G
1	2	144	U
1	2	145	A
1	2	146	U
1	2	153	G
1	2	158	U
1	2	159	U
1	2	166	C
1	2	169	A
1	2	178	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	179	A
1	2	185	U
1	2	186	C
1	2	188	A
1	2	190	C
1	2	191	C
1	2	192	U
1	2	193	U
1	2	194	U
1	2	195	G
1	2	197	A
1	2	200	A
1	2	215	A
1	2	217	A
1	2	219	A
1	2	226	A
1	2	227	U
1	2	228	G
1	2	229	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	236	A
1	2	238	U
1	2	239	C
1	2	240	U
1	2	241	U
1	2	250	C
1	2	254	A
1	2	261	U
1	2	265	A
1	2	269	G
1	2	271	A
1	2	272	U
1	2	275	C
1	2	276	C
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G
1	2	284	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	288	A
1	2	299	A
1	2	302	U
1	2	309	C
1	2	314	C
1	2	316	A
1	2	319	U
1	2	321	C
1	2	333	A
1	2	337	G
1	2	338	C
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	380	U
1	2	390	G
1	2	393	C
1	2	399	A
1	2	402	C
1	2	404	G
1	2	416	A
1	2	418	G
1	2	421	A
1	2	423	G
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	433	C
1	2	434	G
1	2	437	A
1	2	439	U
1	2	444	C
1	2	448	C
1	2	452	A
1	2	454	U
1	2	455	C
1	2	464	A
1	2	468	A
1	2	470	A
1	2	475	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	484	C
1	2	485	A
1	2	486	G
1	2	488	G
1	2	493	U
1	2	494	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G
1	2	499	U
1	2	500	C
1	2	502	U
1	2	503	G
1	2	504	U
1	2	505	A
1	2	506	A
1	2	507	U
1	2	508	U
1	2	510	G
1	2	511	A
1	2	513	U
1	2	514	G
1	2	515	A
1	2	516	G
1	2	520	A
1	2	527	A
1	2	532	U
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	548	G
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	565	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	578	U
1	2	579	A
1	2	580	A
1	2	585	A
1	2	594	A
1	2	595	G
1	2	606	A
1	2	619	A
1	2	620	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	629	U
1	2	635	A
1	2	639	U
1	2	640	U
1	2	649	U
1	2	650	U
1	2	653	C
1	2	654	C
1	2	655	G
1	2	656	G
1	2	657	U
1	2	658	C
1	2	660	G
1	2	662	U
1	2	663	U
1	2	665	C
1	2	667	A
1	2	669	C
1	2	677	U
1	2	679	C
1	2	680	C
1	2	683	C
1	2	685	G
1	2	686	G
1	2	687	C
1	2	688	U
1	2	689	A
1	2	690	A
1	2	692	C
1	2	693	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	694	U
1	2	695	G
1	2	697	G
1	2	700	C
1	2	701	U
1	2	702	U
1	2	703	G
1	2	704	U
1	2	705	G
1	2	706	G
1	2	708	U
1	2	710	U
1	2	713	G
1	2	714	C
1	2	715	G
1	2	716	A
1	2	717	A
1	2	718	C
1	2	719	C
1	2	720	A
1	2	721	G
1	2	725	U
1	2	726	U
1	2	728	U
1	2	737	A
1	2	738	A
1	2	739	A
1	2	742	U
1	2	748	G
1	2	749	U
1	2	754	A
1	2	757	A
1	2	758	G
1	2	761	G
1	2	764	U
1	2	765	U
1	2	766	G
1	2	767	C
1	2	772	A
1	2	776	A
1	2	777	U
1	2	795	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	798	G
1	2	799	G
1	2	801	C
1	2	802	G
1	2	803	U
1	2	804	U
1	2	806	G
1	2	807	G
1	2	812	A
1	2	813	U
1	2	814	U
1	2	816	U
1	2	829	G
1	2	831	C
1	2	835	C
1	2	839	A
1	2	845	A
1	2	846	A
1	2	848	A
1	2	879	U
1	2	881	A
1	2	895	U
1	2	897	G
1	2	899	U
1	2	904	U
1	2	909	A
1	2	916	A
1	2	917	C
1	2	918	U
1	2	925	G
1	2	927	A
1	2	934	A
1	2	943	U
1	2	949	A
1	2	971	A
1	2	975	A
1	2	976	A
1	2	980	G
1	2	986	A
1	2	987	U
1	2	988	A
1	2	1009	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	1011	C
1	2	1022	A
1	2	1023	G
1	2	1035	U
1	2	1036	G
1	2	1041	U
1	2	1042	U
1	2	1044	A
1	2	1057	G
1	2	1062	U
1	2	1064	A
1	2	1065	C
1	2	1069	A
1	2	1074	A
1	2	1075	A
1	2	1079	C
1	2	1080	U
1	2	1083	G
1	2	1121	A
1	2	1129	G
1	2	1132	G
1	2	1133	G
1	2	1134	A
1	2	1141	C
1	2	1142	C
1	2	1143	A
1	2	1147	G
1	2	1150	G
1	2	1168	U
1	2	1174	U
1	2	1177	A
1	2	1179	A
1	2	1180	C
1	2	1181	G
1	2	1182	G
1	2	1183	G
1	2	1185	A
1	2	1190	C
1	2	1191	A
1	2	1200	A
1	2	1201	G
1	2	1210	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	1211	G
1	2	1212	G
1	2	1213	A
1	2	1226	G
1	2	1227	A
1	2	1228	G
1	2	1234	U
1	2	1235	C
1	2	1241	U
1	2	1259	U
1	2	1267	C
1	2	1269	U
1	2	1297	U
1	2	1298	U
1	2	1299	G
1	2	1303	U
1	2	1304	A
1	2	1320	A
1	2	1322	C
1	2	1323	U
1	2	1327	A
1	2	1328	A
1	2	1329	A
1	2	1332	G
1	2	1337	G
1	2	1338	C
1	2	1345	U
1	2	1346	U
1	2	1347	G
1	2	1353	U
1	2	1354	A
1	2	1355	U
1	2	1361	U
1	2	1365	A
1	2	1366	G
1	2	1367	A
1	2	1373	U
1	2	1381	U
1	2	1382	C
1	2	1393	A
1	2	1395	G
1	2	1396	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	1398	U
1	2	1401	G
1	2	1407	A
1	2	1410	A
1	2	1411	G
1	2	1415	U
1	2	1418	G
1	2	1419	A
1	2	1420	U
1	2	1429	A
1	2	1431	G
1	2	1439	C
1	2	1440	C
1	2	1442	C
1	2	1443	A
1	2	1454	A
1	2	1456	U
1	2	1457	G
1	2	1458	A
1	2	1460	G
1	2	1465	C
1	2	1469	G
1	2	1472	U
1	2	1473	C
1	2	1474	U
1	2	1475	A
1	2	1476	A
1	2	1484	C
1	2	1489	G
1	2	1497	U
1	2	1499	A
1	2	1500	U
1	2	1506	G
1	2	1507	A
1	2	1509	A
1	2	1510	C
1	2	1518	U
1	2	1519	G
1	2	1520	C
1	2	1521	U
1	2	1523	G
1	2	1525	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	1540	U
1	2	1542	A
1	2	1552	A
1	2	1555	G
1	2	1557	G
1	2	1567	G
1	2	1573	G
1	2	1584	G
1	2	1588	G
1	2	1597	A
1	2	1599	G
1	2	1609	U
1	2	1614	A
1	2	1617	C
1	2	1618	A
1	2	1619	C
1	2	1621	G
1	2	1640	U
1	2	1641	G
1	2	1656	G
1	2	1663	G
1	2	1666	C
1	2	1667	U
1	2	1713	A
1	2	1714	A
1	2	1743	G
1	2	1745	A
1	2	1749	A
1	2	1752	U
1	2	1763	G
1	2	1765	A
1	2	1766	C
1	2	1768	U
1	2	1775	G
1	2	1776	G
1	2	1777	A
1	2	1778	U
1	2	1779	C
1	2	1781	U
1	2	1793	G
1	2	1794	G
1	2	1795	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	2	1796	C
1	2	1797	A
1	2	1798	A
1	2	1807	C
1	2	1808	A
1	2	1809	G
36	1	10	C
36	1	11	A
36	1	14	U
36	1	16	A
36	1	26	A
36	1	40	A
36	1	43	A
36	1	45	A
36	1	49	A
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	72	C
36	1	73	C
36	1	74	G
36	1	75	G
36	1	76	G
36	1	79	U
36	1	83	U
36	1	92	G
36	1	93	C
36	1	94	G
36	1	97	U
36	1	99	A
36	1	105	C
36	1	109	A
36	1	110	G
36	1	111	C
36	1	113	C
36	1	116	A
36	1	117	U
36	1	121	A
36	1	122	A
36	1	126	U
36	1	133	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	135	C
36	1	136	G
36	1	142	C
36	1	147	U
36	1	154	U
36	1	156	G
36	1	166	C
36	1	170	G
36	1	173	G
36	1	187	A
36	1	190	U
36	1	191	U
36	1	192	C
36	1	201	A
36	1	205	C
36	1	206	G
36	1	210	U
36	1	213	A
36	1	218	G
36	1	219	A
36	1	234	G
36	1	237	G
36	1	240	U
36	1	241	G
36	1	243	G
36	1	245	U
36	1	249	U
36	1	250	U
36	1	251	G
36	1	252	U
36	1	257	U
36	1	269	G
36	1	275	U
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	301	G
36	1	305	U
36	1	315	C
36	1	316	U
36	1	323	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	329	U
36	1	336	A
36	1	338	A
36	1	339	C
36	1	349	A
36	1	350	C
36	1	366	A
36	1	370	U
36	1	376	G
36	1	383	G
36	1	395	A
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	404	G
36	1	421	G
36	1	422	A
36	1	429	U
36	1	438	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	498	A
36	1	520	U
36	1	521	A
36	1	535	G
36	1	543	C
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	552	G
36	1	555	U
36	1	557	A
36	1	559	A
36	1	560	G
36	1	578	A
36	1	579	G
36	1	585	A
36	1	591	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	592	A
36	1	604	G
36	1	609	G
36	1	611	A
36	1	619	A
36	1	620	U
36	1	621	A
36	1	622	A
36	1	623	U
36	1	636	C
36	1	637	C
36	1	638	C
36	1	640	U
36	1	649	A
36	1	657	A
36	1	660	A
36	1	662	U
36	1	677	A
36	1	681	U
36	1	691	A
36	1	705	A
36	1	708	G
36	1	709	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	719	U
36	1	720	A
36	1	758	C
36	1	764	U
36	1	765	C
36	1	766	U
36	1	767	U
36	1	775	A
36	1	776	U
36	1	777	U
36	1	780	A
36	1	781	G
36	1	785	G
36	1	786	A
36	1	791	A
36	1	792	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	799	G
36	1	806	A
36	1	816	A
36	1	817	A
36	1	830	A
36	1	834	U
36	1	849	C
36	1	861	C
36	1	868	C
36	1	874	U
36	1	879	U
36	1	883	A
36	1	890	C
36	1	907	G
36	1	908	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	923	C
36	1	924	G
36	1	929	A
36	1	937	G
36	1	944	C
36	1	953	G
36	1	959	C
36	1	960	U
36	1	967	A
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	993	G
36	1	994	G
36	1	1001	G
36	1	1002	A
36	1	1006	A
36	1	1010	G
36	1	1013	G
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1021	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1036	A
36	1	1037	C
36	1	1038	C
36	1	1047	A
36	1	1049	C
36	1	1052	U
36	1	1063	G
36	1	1064	A
36	1	1065	A
36	1	1071	U
36	1	1072	G
36	1	1081	U
36	1	1082	U
36	1	1083	G
36	1	1085	A
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1096	U
36	1	1097	G
36	1	1098	A
36	1	1101	G
36	1	1103	A
36	1	1104	G
36	1	1111	U
36	1	1117	G
36	1	1131	G
36	1	1143	A
36	1	1144	U
36	1	1153	A
36	1	1154	A
36	1	1159	A
36	1	1160	C
36	1	1178	G
36	1	1179	A
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1190	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	1191	U
36	1	1192	C
36	1	1196	C
36	1	1197	A
36	1	1200	A
36	1	1201	C
36	1	1202	A
36	1	1209	G
36	1	1216	C
36	1	1217	A
36	1	1221	A
36	1	1222	G
36	1	1225	A
36	1	1227	C
36	1	1232	C
36	1	1236	G
36	1	1237	G
36	1	1241	U
36	1	1243	G
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G
36	1	1253	U
36	1	1254	C
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1266	G
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1274	A
36	1	1278	A
36	1	1279	C
36	1	1285	G
36	1	1286	A
36	1	1287	A
36	1	1300	G
36	1	1303	A
36	1	1305	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	1308	A
36	1	1309	U
36	1	1313	G
36	1	1314	C
36	1	1318	A
36	1	1323	G
36	1	1330	A
36	1	1337	A
36	1	1348	U
36	1	1349	G
36	1	1351	U
36	1	1352	A
36	1	1353	U
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1380	G
36	1	1386	A
36	1	1391	C
36	1	1392	G
36	1	1399	A
36	1	1400	G
36	1	1406	A
36	1	1407	A
36	1	1409	G
36	1	1415	U
36	1	1416	C
36	1	1417	G
36	1	1418	A
36	1	1419	A
36	1	1426	C
36	1	1431	G
36	1	1433	A
36	1	1434	G
36	1	1437	C
36	1	1446	A
36	1	1450	G
36	1	1453	A
36	1	1455	U
36	1	1460	A
36	1	1466	G
36	1	1475	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1489	A
36	1	1493	G
36	1	1502	C
36	1	1508	C
36	1	1524	A
36	1	1527	C
36	1	1536	G
36	1	1555	U
36	1	1556	C
36	1	1557	A
36	1	1560	G
36	1	1561	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1566	A
36	1	1567	U
36	1	1568	U
36	1	1569	U
36	1	1570	U
36	1	1572	U
36	1	1576	G
36	1	1580	A
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1596	C
36	1	1607	U
36	1	1620	U
36	1	1629	U
36	1	1633	C
36	1	1639	C
36	1	1641	U
36	1	1642	A
36	1	1643	A
36	1	1645	U
36	1	1657	C
36	1	1658	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	1683	A
36	1	1688	U
36	1	1689	U
36	1	1713	G
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1730	G
36	1	1736	G
36	1	1741	A
36	1	1742	U
36	1	1750	A
36	1	1751	G
36	1	1761	C
36	1	1762	C
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1770	G
36	1	1775	G
36	1	1780	G
36	1	1781	C
36	1	1794	G
36	1	1797	A
36	1	1807	G
36	1	1808	G
36	1	1810	A
36	1	1812	G
36	1	1814	A
36	1	1815	U
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1822	C
36	1	1835	A
36	1	1837	U
36	1	1839	A
36	1	1841	A
36	1	1842	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	1846	C
36	1	1849	C
36	1	1850	A
36	1	1863	G
36	1	1866	C
36	1	1879	A
36	1	1880	U
36	1	1896	A
36	1	1901	A
36	1	1906	G
36	1	1935	G
36	1	1948	G
36	1	1951	C
36	1	1952	G
36	1	1954	G
36	1	2101	C
36	1	2102	U
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2121	G
36	1	2122	G
36	1	2130	G
36	1	2131	A
36	1	2134	G
36	1	2137	U
36	1	2140	U
36	1	2144	A
36	1	2147	A
36	1	2149	A
36	1	2152	A
36	1	2158	A
36	1	2164	A
36	1	2169	G
36	1	2170	U
36	1	2179	C
36	1	2188	A
36	1	2195	C
36	1	2198	A
36	1	2205	U
36	1	2208	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	2209	U
36	1	2210	G
36	1	2223	A
36	1	2228	A
36	1	2242	A
36	1	2244	A
36	1	2249	G
36	1	2250	G
36	1	2255	A
36	1	2256	A
36	1	2257	C
36	1	2270	A
36	1	2272	G
36	1	2276	G
36	1	2280	A
36	1	2281	A
36	1	2282	U
36	1	2283	G
36	1	2284	C
36	1	2288	G
36	1	2307	G
36	1	2308	C
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2324	A
36	1	2331	C
36	1	2334	U
36	1	2336	U
36	1	2350	C
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2388	U
36	1	2393	G
36	1	2394	G
36	1	2397	A
36	1	2401	A
36	1	2402	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	2403	G
36	1	2404	A
36	1	2411	U
36	1	2418	G
36	1	2419	A
36	1	2427	U
36	1	2429	G
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2504	U
36	1	2507	C
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2525	G
36	1	2530	G
36	1	2531	C
36	1	2532	U
36	1	2533	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2544	U
36	1	2547	A
36	1	2548	C
36	1	2549	G
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2561	A
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	2573	G
36	1	2576	G
36	1	2580	A
36	1	2581	U
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2594	C
36	1	2598	G
36	1	2599	U
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2626	A
36	1	2634	U
36	1	2652	U
36	1	2656	A
36	1	2664	C
36	1	2674	A
36	1	2675	C
36	1	2676	A
36	1	2677	G
36	1	2689	A
36	1	2690	G
36	1	2691	A
36	1	2692	A
36	1	2694	A
36	1	2696	A
36	1	2705	A
36	1	2709	C
36	1	2714	G
36	1	2725	U
36	1	2727	A
36	1	2728	G
36	1	2729	U
36	1	2734	A
36	1	2735	U
36	1	2737	C
36	1	2742	C
36	1	2752	U
36	1	2753	G
36	1	2755	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	2762	A
36	1	2772	C
36	1	2773	C
36	1	2776	C
36	1	2777	G
36	1	2778	G
36	1	2779	A
36	1	2795	U
36	1	2796	G
36	1	2797	C
36	1	2799	A
36	1	2800	G
36	1	2801	A
36	1	2802	A
36	1	2803	A
36	1	2810	C
36	1	2814	G
36	1	2815	G
36	1	2817	A
36	1	2818	U
36	1	2819	A
36	1	2827	U
36	1	2834	G
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2849	C
36	1	2859	U
36	1	2867	C
36	1	2869	U
36	1	2870	C
36	1	2871	G
36	1	2872	A
36	1	2875	U
36	1	2876	C
36	1	2878	G
36	1	2886	U
36	1	2887	A
36	1	2889	C
36	1	2898	G
36	1	2899	C
36	1	2900	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	2901	G
36	1	2914	G
36	1	2923	U
36	1	2927	C
36	1	2935	U
36	1	2936	A
36	1	2938	G
36	1	2941	A
36	1	2942	C
36	1	2945	G
36	1	2946	A
36	1	2947	G
36	1	2951	G
36	1	2972	G
36	1	2979	U
36	1	2983	C
36	1	2990	G
36	1	3003	G
36	1	3004	C
36	1	3005	A
36	1	3012	A
36	1	3025	C
36	1	3030	G
36	1	3049	A
36	1	3056	U
36	1	3057	U
36	1	3058	U
36	1	3059	G
36	1	3065	G
36	1	3066	U
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3086	A
36	1	3090	U
36	1	3092	C
36	1	3093	C
36	1	3104	U
36	1	3116	G
36	1	3122	A
36	1	3129	A
36	1	3131	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	3142	A
36	1	3143	C
36	1	3151	U
36	1	3153	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U
36	1	3158	G
36	1	3164	C
36	1	3165	A
36	1	3168	A
36	1	3170	A
36	1	3171	U
36	1	3172	A
36	1	3173	G
36	1	3174	A
36	1	3176	G
36	1	3179	U
36	1	3181	C
36	1	3187	A
36	1	3195	U
36	1	3196	U
36	1	3197	G
36	1	3206	C
36	1	3207	U
36	1	3209	A
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3229	G
36	1	3235	C
36	1	3239	G
36	1	3243	A
36	1	3244	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3258	U
36	1	3259	U
36	1	3263	G
36	1	3268	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	3269	U
36	1	3270	U
36	1	3272	C
36	1	3273	A
36	1	3276	G
36	1	3277	U
36	1	3279	A
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3289	G
36	1	3294	A
36	1	3295	A
36	1	3304	U
36	1	3307	A
36	1	3313	U
36	1	3316	A
36	1	3317	U
36	1	3318	G
36	1	3319	U
36	1	3328	G
36	1	3334	U
36	1	3341	U
36	1	3342	A
36	1	3345	G
36	1	3347	A
36	1	3349	C
36	1	3350	C
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3359	A
36	1	3360	C
36	1	3368	U
36	1	3369	G
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3382	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	1	3389	U
36	1	3390	G
36	1	3396	U
37	3	7	G
37	3	13	A
37	3	14	U
37	3	22	A
37	3	41	G
37	3	51	A
37	3	53	U
37	3	65	G
37	3	74	C
37	3	76	A
37	3	82	G
37	3	102	A
37	3	104	A
37	3	112	G
37	3	114	U
37	3	121	U
38	4	23	U
38	4	26	U
38	4	34	U
38	4	35	C
38	4	42	G
38	4	50	C
38	4	51	G
38	4	56	G
38	4	57	C
38	4	59	A
38	4	62	C
38	4	63	G
38	4	69	U
38	4	71	A
38	4	79	A
38	4	80	A
38	4	81	U
38	4	82	U
38	4	83	C
38	4	84	C
38	4	85	G
38	4	86	U
38	4	87	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	4	90	U
38	4	93	U
38	4	95	G
38	4	100	U
38	4	102	U
38	4	104	A
38	4	105	A
38	4	106	C
38	4	107	G
38	4	111	A
38	4	112	U
38	4	113	U
38	4	125	U
38	4	126	A
38	4	127	U
38	4	128	U
38	4	138	A
38	4	146	U
38	4	148	G
38	4	152	G
38	4	155	A
38	4	157	U
38	4	158	U
80	6	4	C
80	6	8	U
80	6	25	C
80	6	26	A
80	6	27	U
80	6	34	G
80	6	45	U
80	6	46	A
80	6	47	A
80	6	54	C
80	6	57	G
80	6	60	U
80	6	63	G
80	6	66	U
80	6	67	A
80	6	68	A
80	6	69	G
80	6	72	A
80	6	75	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	76	A
80	6	77	U
80	6	103	A
80	6	104	A
80	6	114	C
80	6	115	G
80	6	116	U
80	6	137	U
80	6	138	A
80	6	140	A
80	6	141	U
80	6	144	U
80	6	145	A
80	6	146	U
80	6	153	G
80	6	158	U
80	6	159	U
80	6	166	C
80	6	178	U
80	6	185	U
80	6	188	A
80	6	190	C
80	6	191	C
80	6	192	U
80	6	193	U
80	6	194	U
80	6	195	G
80	6	199	G
80	6	200	A
80	6	215	A
80	6	216	U
80	6	217	A
80	6	218	A
80	6	219	A
80	6	220	A
80	6	222	A
80	6	224	C
80	6	226	A
80	6	227	U
80	6	228	G
80	6	230	C
80	6	231	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	232	U
80	6	233	C
80	6	235	G
80	6	240	U
80	6	241	U
80	6	249	U
80	6	250	C
80	6	260	U
80	6	261	U
80	6	265	A
80	6	271	A
80	6	272	U
80	6	273	G
80	6	274	G
80	6	277	U
80	6	278	U
80	6	280	U
80	6	290	G
80	6	297	U
80	6	299	A
80	6	302	U
80	6	304	U
80	6	309	C
80	6	314	C
80	6	316	A
80	6	320	U
80	6	321	C
80	6	322	G
80	6	324	U
80	6	333	A
80	6	337	G
80	6	338	C
80	6	341	A
80	6	352	A
80	6	359	A
80	6	360	A
80	6	361	C
80	6	369	A
80	6	370	A
80	6	384	G
80	6	400	A
80	6	401	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	402	C
80	6	404	G
80	6	409	C
80	6	416	A
80	6	418	G
80	6	424	C
80	6	425	A
80	6	426	G
80	6	428	A
80	6	434	G
80	6	439	U
80	6	444	C
80	6	445	A
80	6	446	A
80	6	448	C
80	6	454	U
80	6	460	A
80	6	468	A
80	6	472	U
80	6	475	A
80	6	477	A
80	6	484	C
80	6	485	A
80	6	486	G
80	6	487	G
80	6	488	G
80	6	489	C
80	6	490	C
80	6	492	A
80	6	493	U
80	6	494	U
80	6	496	G
80	6	497	G
80	6	500	C
80	6	501	U
80	6	504	U
80	6	505	A
80	6	506	A
80	6	508	U
80	6	510	G
80	6	511	A
80	6	512	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	513	U
80	6	515	A
80	6	518	A
80	6	519	C
80	6	527	A
80	6	536	C
80	6	539	G
80	6	540	G
80	6	541	A
80	6	542	A
80	6	543	C
80	6	544	A
80	6	548	G
80	6	555	A
80	6	556	A
80	6	557	G
80	6	558	U
80	6	559	C
80	6	564	G
80	6	565	C
80	6	574	G
80	6	578	U
80	6	579	A
80	6	580	A
80	6	582	U
80	6	583	C
80	6	594	A
80	6	595	G
80	6	596	C
80	6	606	A
80	6	607	G
80	6	610	G
80	6	611	U
80	6	619	A
80	6	620	A
80	6	622	A
80	6	623	A
80	6	630	A
80	6	637	C
80	6	639	U
80	6	641	G
80	6	644	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	652	G
80	6	653	C
80	6	654	C
80	6	661	A
80	6	662	U
80	6	665	U
80	6	667	U
80	6	670	U
80	6	676	G
80	6	678	A
80	6	679	U
80	6	680	U
80	6	681	U
80	6	682	C
80	6	683	C
80	6	684	A
80	6	685	A
80	6	691	C
80	6	696	C
80	6	697	C
80	6	698	U
80	6	709	C
80	6	710	U
80	6	711	U
80	6	714	G
80	6	718	U
80	6	719	U
80	6	720	G
80	6	721	U
80	6	722	G
80	6	730	G
80	6	743	U
80	6	744	U
80	6	751	G
80	6	754	A
80	6	755	A
80	6	756	A
80	6	765	G
80	6	774	A
80	6	775	G
80	6	780	A
80	6	781	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	782	U
80	6	783	G
80	6	787	G
80	6	789	A
80	6	793	A
80	6	794	U
80	6	796	A
80	6	801	G
80	6	806	A
80	6	811	A
80	6	812	A
80	6	814	A
80	6	815	G
80	6	823	G
80	6	824	G
80	6	825	U
80	6	826	U
80	6	829	A
80	6	830	U
80	6	831	U
80	6	832	U
80	6	834	G
80	6	835	U
80	6	856	A
80	6	861	U
80	6	862	A
80	6	863	A
80	6	876	G
80	6	886	U
80	6	898	A
80	6	904	G
80	6	906	A
80	6	913	G
80	6	914	G
80	6	926	A
80	6	928	U
80	6	933	A
80	6	935	U
80	6	942	G
80	6	944	A
80	6	949	C
80	6	959	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	960	U
80	6	966	A
80	6	969	C
80	6	971	A
80	6	977	A
80	6	987	G
80	6	988	A
80	6	992	A
80	6	995	A
80	6	996	U
80	6	998	A
80	6	1003	A
80	6	1004	U
80	6	1005	A
80	6	1021	C
80	6	1026	A
80	6	1028	C
80	6	1029	U
80	6	1039	A
80	6	1040	G
80	6	1052	U
80	6	1053	G
80	6	1057	U
80	6	1058	U
80	6	1059	U
80	6	1060	U
80	6	1061	A
80	6	1076	A
80	6	1082	C
80	6	1092	A
80	6	1096	C
80	6	1097	U
80	6	1098	U
80	6	1099	U
80	6	1100	G
80	6	1101	G
80	6	1109	G
80	6	1111	G
80	6	1124	A
80	6	1127	G
80	6	1137	A
80	6	1138	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	1150	G
80	6	1151	A
80	6	1154	G
80	6	1155	G
80	6	1158	C
80	6	1159	C
80	6	1160	A
80	6	1161	C
80	6	1167	G
80	6	1185	U
80	6	1191	U
80	6	1194	A
80	6	1196	A
80	6	1197	C
80	6	1199	G
80	6	1200	G
80	6	1202	A
80	6	1208	A
80	6	1217	A
80	6	1218	G
80	6	1226	A
80	6	1227	A
80	6	1228	G
80	6	1229	G
80	6	1230	A
80	6	1231	U
80	6	1239	U
80	6	1240	U
80	6	1241	G
80	6	1242	A
80	6	1243	G
80	6	1244	A
80	6	1245	G
80	6	1252	C
80	6	1254	U
80	6	1255	G
80	6	1256	A
80	6	1257	U
80	6	1258	U
80	6	1286	U
80	6	1291	G
80	6	1314	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	1315	U
80	6	1316	G
80	6	1321	A
80	6	1335	U
80	6	1343	U
80	6	1345	A
80	6	1346	A
80	6	1353	U
80	6	1354	G
80	6	1361	U
80	6	1362	U
80	6	1363	U
80	6	1364	G
80	6	1367	G
80	6	1370	U
80	6	1371	A
80	6	1388	A
80	6	1390	U
80	6	1398	U
80	6	1399	C
80	6	1400	A
80	6	1401	A
80	6	1402	G
80	6	1412	G
80	6	1413	U
80	6	1415	U
80	6	1427	A
80	6	1428	G
80	6	1445	G
80	6	1446	A
80	6	1448	G
80	6	1458	G
80	6	1459	C
80	6	1460	A
80	6	1461	C
80	6	1471	A
80	6	1482	C
80	6	1486	G
80	6	1490	C
80	6	1491	U
80	6	1492	A
80	6	1493	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	1494	C
80	6	1506	G
80	6	1514	U
80	6	1515	A
80	6	1516	A
80	6	1521	G
80	6	1523	G
80	6	1524	A
80	6	1535	U
80	6	1536	G
80	6	1537	C
80	6	1538	U
80	6	1540	G
80	6	1554	U
80	6	1557	U
80	6	1559	A
80	6	1569	A
80	6	1573	A
80	6	1574	G
80	6	1584	G
80	6	1590	G
80	6	1601	G
80	6	1621	U
80	6	1626	U
80	6	1634	C
80	6	1636	C
80	6	1637	C
80	6	1638	G
80	6	1639	C
80	6	1650	U
80	6	1651	A
80	6	1657	U
80	6	1658	G
80	6	1683	C
80	6	1697	G
80	6	1698	G
80	6	1699	G
80	6	1700	C
80	6	1701	A
80	6	1702	A
80	6	1703	C
80	6	1704	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
80	6	1712	A
80	6	1713	G
80	6	1716	C
80	6	1717	G
80	6	1730	A
80	6	1731	A
80	6	1736	G
80	6	1755	A
80	6	1760	G
80	6	1762	A
80	6	1766	A
80	6	1767	G
80	6	1769	U
80	6	1780	G
80	6	1782	A
80	6	1783	C
80	6	1792	G
80	6	1794	A
80	6	1795	U
80	6	1796	C
80	6	1799	U
80	6	1800	A
85	5	15	C
85	5	17	G
85	5	26	A
85	5	30	G
85	5	31	C
85	5	40	A
85	5	43	A
85	5	49	A
85	5	57	A
85	5	59	G
85	5	60	A
85	5	63	A
85	5	65	A
85	5	66	A
85	5	68	C
85	5	73	C
85	5	76	G
85	5	84	U
85	5	89	A
85	5	92	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	93	C
85	5	96	G
85	5	105	C
85	5	109	A
85	5	110	G
85	5	113	C
85	5	116	A
85	5	117	U
85	5	121	A
85	5	122	A
85	5	133	U
85	5	134	U
85	5	135	C
85	5	136	G
85	5	152	U
85	5	155	G
85	5	156	G
85	5	157	A
85	5	165	A
85	5	169	U
85	5	170	G
85	5	171	G
85	5	172	G
85	5	173	G
85	5	174	C
85	5	178	U
85	5	182	U
85	5	183	G
85	5	187	A
85	5	190	U
85	5	191	U
85	5	192	C
85	5	200	C
85	5	203	G
85	5	210	U
85	5	211	A
85	5	213	A
85	5	218	G
85	5	219	A
85	5	221	A
85	5	231	G
85	5	234	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	235	A
85	5	237	G
85	5	239	G
85	5	240	U
85	5	244	G
85	5	246	U
85	5	248	U
85	5	249	U
85	5	250	U
85	5	251	G
85	5	252	U
85	5	253	A
85	5	254	A
85	5	263	C
85	5	269	G
85	5	282	G
85	5	283	G
85	5	284	A
85	5	285	A
85	5	286	U
85	5	295	A
85	5	297	G
85	5	298	U
85	5	315	C
85	5	316	U
85	5	323	A
85	5	329	U
85	5	334	A
85	5	339	C
85	5	349	A
85	5	350	C
85	5	351	A
85	5	352	A
85	5	354	U
85	5	366	A
85	5	370	U
85	5	372	A
85	5	375	A
85	5	376	G
85	5	382	U
85	5	388	G
85	5	395	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	398	A
85	5	399	A
85	5	401	U
85	5	402	A
85	5	403	C
85	5	417	A
85	5	421	G
85	5	422	A
85	5	429	U
85	5	436	A
85	5	437	G
85	5	438	A
85	5	439	C
85	5	440	A
85	5	441	U
85	5	442	G
85	5	492	U
85	5	495	G
85	5	503	C
85	5	520	U
85	5	521	A
85	5	531	G
85	5	535	G
85	5	538	G
85	5	542	G
85	5	546	C
85	5	547	G
85	5	548	G
85	5	557	A
85	5	559	A
85	5	578	A
85	5	579	G
85	5	581	U
85	5	592	A
85	5	594	U
85	5	602	A
85	5	604	G
85	5	609	G
85	5	610	G
85	5	611	A
85	5	619	A
85	5	620	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	636	C
85	5	637	C
85	5	649	A
85	5	651	G
85	5	660	A
85	5	662	U
85	5	677	A
85	5	681	U
85	5	691	A
85	5	692	A
85	5	705	A
85	5	709	A
85	5	712	G
85	5	715	A
85	5	716	A
85	5	719	U
85	5	726	G
85	5	727	G
85	5	758	C
85	5	762	U
85	5	765	C
85	5	766	U
85	5	767	U
85	5	768	C
85	5	776	U
85	5	777	U
85	5	780	A
85	5	781	G
85	5	785	G
85	5	786	A
85	5	806	A
85	5	816	A
85	5	817	A
85	5	821	U
85	5	826	G
85	5	830	A
85	5	837	A
85	5	861	C
85	5	867	G
85	5	874	U
85	5	875	G
85	5	879	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	881	C
85	5	882	A
85	5	883	A
85	5	890	C
85	5	896	A
85	5	907	G
85	5	908	G
85	5	910	G
85	5	914	A
85	5	916	G
85	5	917	A
85	5	921	A
85	5	922	U
85	5	923	C
85	5	924	G
85	5	937	G
85	5	943	U
85	5	944	C
85	5	948	C
85	5	953	G
85	5	959	C
85	5	960	U
85	5	963	G
85	5	974	G
85	5	979	U
85	5	984	G
85	5	993	G
85	5	994	G
85	5	1001	G
85	5	1002	A
85	5	1006	A
85	5	1010	G
85	5	1015	U
85	5	1016	C
85	5	1017	C
85	5	1018	G
85	5	1021	G
85	5	1024	G
85	5	1025	A
85	5	1026	A
85	5	1027	A
85	5	1028	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	1029	G
85	5	1032	C
85	5	1033	U
85	5	1034	U
85	5	1035	G
85	5	1036	A
85	5	1047	A
85	5	1048	A
85	5	1049	C
85	5	1064	A
85	5	1065	A
85	5	1072	G
85	5	1081	U
85	5	1082	U
85	5	1085	A
85	5	1087	G
85	5	1088	U
85	5	1093	A
85	5	1094	U
85	5	1095	U
85	5	1096	U
85	5	1098	A
85	5	1103	A
85	5	1104	G
85	5	1117	G
85	5	1129	A
85	5	1131	G
85	5	1143	A
85	5	1144	U
85	5	1152	G
85	5	1153	A
85	5	1159	A
85	5	1160	C
85	5	1161	G
85	5	1179	A
85	5	1180	A
85	5	1181	U
85	5	1182	A
85	5	1190	A
85	5	1191	U
85	5	1192	C
85	5	1201	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	1209	G
85	5	1212	A
85	5	1221	A
85	5	1222	G
85	5	1223	A
85	5	1232	C
85	5	1235	U
85	5	1236	G
85	5	1237	G
85	5	1239	C
85	5	1241	U
85	5	1242	G
85	5	1243	G
85	5	1245	A
85	5	1246	G
85	5	1251	A
85	5	1252	A
85	5	1253	U
85	5	1258	U
85	5	1262	G
85	5	1263	A
85	5	1264	G
85	5	1265	U
85	5	1266	G
85	5	1284	C
85	5	1285	G
85	5	1304	A
85	5	1305	U
85	5	1308	A
85	5	1309	U
85	5	1313	G
85	5	1314	C
85	5	1324	U
85	5	1330	A
85	5	1331	U
85	5	1332	A
85	5	1337	A
85	5	1342	C
85	5	1348	U
85	5	1349	G
85	5	1351	U
85	5	1352	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	1353	U
85	5	1355	A
85	5	1356	U
85	5	1357	G
85	5	1370	G
85	5	1385	C
85	5	1386	A
85	5	1399	A
85	5	1400	G
85	5	1407	A
85	5	1408	G
85	5	1416	C
85	5	1419	A
85	5	1431	G
85	5	1432	C
85	5	1433	A
85	5	1434	G
85	5	1437	C
85	5	1446	A
85	5	1450	G
85	5	1465	A
85	5	1471	U
85	5	1472	U
85	5	1481	A
85	5	1482	A
85	5	1484	U
85	5	1490	A
85	5	1495	U
85	5	1508	C
85	5	1511	U
85	5	1515	A
85	5	1525	G
85	5	1527	C
85	5	1536	G
85	5	1547	G
85	5	1554	U
85	5	1555	U
85	5	1556	C
85	5	1560	G
85	5	1561	G
85	5	1562	C
85	5	1566	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	1567	U
85	5	1569	U
85	5	1570	U
85	5	1571	A
85	5	1572	U
85	5	1574	C
85	5	1575	A
85	5	1576	G
85	5	1577	G
85	5	1578	C
85	5	1579	C
85	5	1581	C
85	5	1582	C
85	5	1583	A
85	5	1587	A
85	5	1589	A
85	5	1593	A
85	5	1603	A
85	5	1607	U
85	5	1608	C
85	5	1620	U
85	5	1629	U
85	5	1639	C
85	5	1641	U
85	5	1642	A
85	5	1643	A
85	5	1644	C
85	5	1645	U
85	5	1655	G
85	5	1658	G
85	5	1673	G
85	5	1677	G
85	5	1683	A
85	5	1684	U
85	5	1687	U
85	5	1694	U
85	5	1704	A
85	5	1716	U
85	5	1717	U
85	5	1724	U
85	5	1735	G
85	5	1750	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	1751	G
85	5	1760	A
85	5	1762	C
85	5	1764	U
85	5	1765	U
85	5	1766	G
85	5	1770	G
85	5	1778	G
85	5	1780	G
85	5	1793	C
85	5	1797	A
85	5	1810	A
85	5	1813	A
85	5	1814	A
85	5	1815	U
85	5	1816	A
85	5	1817	G
85	5	1818	U
85	5	1821	U
85	5	1829	G
85	5	1839	A
85	5	1841	A
85	5	1842	A
85	5	1846	C
85	5	1849	C
85	5	1850	A
85	5	1851	G
85	5	1863	G
85	5	1866	C
85	5	1878	G
85	5	1879	A
85	5	1880	U
85	5	1881	A
85	5	1886	A
85	5	1888	U
85	5	1890	U
85	5	1895	A
85	5	1906	G
85	5	1908	A
85	5	1923	C
85	5	1935	G
85	5	1953	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	2100	A
85	5	2101	C
85	5	2102	U
85	5	2112	U
85	5	2113	A
85	5	2121	G
85	5	2122	G
85	5	2129	U
85	5	2131	A
85	5	2134	G
85	5	2140	U
85	5	2144	A
85	5	2149	A
85	5	2158	A
85	5	2169	G
85	5	2170	U
85	5	2176	U
85	5	2178	A
85	5	2187	G
85	5	2188	A
85	5	2192	C
85	5	2198	A
85	5	2204	C
85	5	2205	U
85	5	2206	G
85	5	2208	A
85	5	2210	G
85	5	2213	A
85	5	2225	U
85	5	2229	A
85	5	2244	A
85	5	2249	G
85	5	2250	G
85	5	2253	G
85	5	2255	A
85	5	2256	A
85	5	2257	C
85	5	2258	U
85	5	2270	A
85	5	2273	G
85	5	2276	G
85	5	2279	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	2281	A
85	5	2286	U
85	5	2288	G
85	5	2298	U
85	5	2304	C
85	5	2307	G
85	5	2308	C
85	5	2310	U
85	5	2313	A
85	5	2315	G
85	5	2334	U
85	5	2335	G
85	5	2336	U
85	5	2356	A
85	5	2357	A
85	5	2370	G
85	5	2373	A
85	5	2374	C
85	5	2375	G
85	5	2383	C
85	5	2385	G
85	5	2392	C
85	5	2393	G
85	5	2396	G
85	5	2397	A
85	5	2401	A
85	5	2402	A
85	5	2403	G
85	5	2404	A
85	5	2406	C
85	5	2411	U
85	5	2413	A
85	5	2414	G
85	5	2418	G
85	5	2419	A
85	5	2425	G
85	5	2436	U
85	5	2438	A
85	5	2439	A
85	5	2441	A
85	5	2443	A
85	5	2444	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	2505	U
85	5	2508	U
85	5	2510	U
85	5	2511	A
85	5	2512	C
85	5	2514	U
85	5	2515	A
85	5	2520	A
85	5	2523	A
85	5	2524	A
85	5	2525	G
85	5	2526	C
85	5	2529	A
85	5	2531	C
85	5	2535	A
85	5	2538	U
85	5	2539	C
85	5	2540	A
85	5	2543	U
85	5	2549	G
85	5	2552	C
85	5	2555	G
85	5	2559	U
85	5	2560	C
85	5	2566	C
85	5	2567	C
85	5	2568	C
85	5	2569	A
85	5	2570	U
85	5	2571	U
85	5	2572	C
85	5	2573	G
85	5	2574	G
85	5	2580	A
85	5	2584	G
85	5	2585	G
85	5	2589	G
85	5	2593	A
85	5	2594	C
85	5	2599	U
85	5	2600	C
85	5	2606	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	2607	G
85	5	2614	G
85	5	2615	G
85	5	2619	G
85	5	2622	C
85	5	2626	A
85	5	2629	U
85	5	2637	A
85	5	2647	A
85	5	2652	U
85	5	2656	A
85	5	2662	G
85	5	2663	G
85	5	2674	A
85	5	2676	A
85	5	2677	G
85	5	2683	U
85	5	2689	A
85	5	2691	A
85	5	2694	A
85	5	2696	A
85	5	2703	A
85	5	2705	A
85	5	2714	G
85	5	2727	A
85	5	2728	G
85	5	2729	U
85	5	2734	A
85	5	2752	U
85	5	2753	G
85	5	2755	C
85	5	2762	A
85	5	2771	U
85	5	2772	C
85	5	2773	C
85	5	2777	G
85	5	2778	G
85	5	2779	A
85	5	2783	U
85	5	2795	U
85	5	2796	G
85	5	2797	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	2799	A
85	5	2800	G
85	5	2801	A
85	5	2802	A
85	5	2804	A
85	5	2810	C
85	5	2814	G
85	5	2817	A
85	5	2818	U
85	5	2821	C
85	5	2838	A
85	5	2839	G
85	5	2844	C
85	5	2845	A
85	5	2846	U
85	5	2847	A
85	5	2848	G
85	5	2849	C
85	5	2851	A
85	5	2852	C
85	5	2853	A
85	5	2855	U
85	5	2860	U
85	5	2869	U
85	5	2871	G
85	5	2872	A
85	5	2873	U
85	5	2875	U
85	5	2876	C
85	5	2880	U
85	5	2887	A
85	5	2898	G
85	5	2899	C
85	5	2904	U
85	5	2914	G
85	5	2915	U
85	5	2922	G
85	5	2923	U
85	5	2935	U
85	5	2936	A
85	5	2942	C
85	5	2945	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	2956	A
85	5	2957	G
85	5	2971	A
85	5	2972	G
85	5	2979	U
85	5	2983	C
85	5	2989	U
85	5	2992	U
85	5	2996	U
85	5	2997	G
85	5	3012	A
85	5	3018	C
85	5	3028	G
85	5	3049	A
85	5	3056	U
85	5	3059	G
85	5	3069	G
85	5	3074	G
85	5	3078	U
85	5	3079	U
85	5	3086	A
85	5	3092	C
85	5	3093	C
85	5	3098	G
85	5	3122	A
85	5	3130	A
85	5	3131	U
85	5	3142	A
85	5	3143	C
85	5	3144	G
85	5	3145	C
85	5	3150	A
85	5	3153	U
85	5	3155	U
85	5	3156	U
85	5	3157	U
85	5	3158	G
85	5	3164	C
85	5	3165	A
85	5	3168	A
85	5	3170	A
85	5	3172	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	3173	G
85	5	3174	A
85	5	3176	G
85	5	3179	U
85	5	3181	C
85	5	3187	A
85	5	3195	U
85	5	3196	U
85	5	3198	U
85	5	3207	U
85	5	3213	A
85	5	3215	A
85	5	3217	C
85	5	3218	A
85	5	3219	G
85	5	3223	A
85	5	3224	G
85	5	3227	A
85	5	3229	G
85	5	3239	G
85	5	3242	G
85	5	3243	A
85	5	3245	A
85	5	3246	G
85	5	3247	G
85	5	3253	G
85	5	3259	U
85	5	3261	C
85	5	3270	U
85	5	3272	C
85	5	3273	A
85	5	3275	U
85	5	3276	G
85	5	3277	U
85	5	3279	A
85	5	3280	U
85	5	3281	U
85	5	3282	U
85	5	3285	C
85	5	3286	G
85	5	3288	G
85	5	3289	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
85	5	3290	G
85	5	3294	A
85	5	3295	A
85	5	3304	U
85	5	3305	A
85	5	3306	U
85	5	3309	G
85	5	3311	C
85	5	3313	U
85	5	3317	U
85	5	3318	G
85	5	3319	U
85	5	3341	U
85	5	3342	A
85	5	3345	G
85	5	3350	C
85	5	3351	U
85	5	3352	U
85	5	3354	U
85	5	3355	U
85	5	3356	G
85	5	3358	U
85	5	3362	A
85	5	3363	U
85	5	3367	C
85	5	3368	U
85	5	3369	G
85	5	3378	C
85	5	3383	G
85	5	3389	U
85	5	3390	G
85	5	3393	U
85	5	3396	U
37	7	7	G
37	7	11	A
37	7	22	A
37	7	27	A
37	7	33	U
37	7	51	A
37	7	54	U
37	7	55	A
37	7	58	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	7	60	G
37	7	65	G
37	7	73	C
37	7	74	C
37	7	75	G
37	7	76	A
37	7	84	A
37	7	93	C
37	7	99	G
37	7	102	A
37	7	103	A
37	7	112	G
38	8	20	U
38	8	21	C
38	8	23	U
38	8	34	U
38	8	35	C
38	8	48	A
38	8	50	C
38	8	51	G
38	8	52	A
38	8	54	A
38	8	59	A
38	8	60	U
38	8	62	C
38	8	63	G
38	8	79	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	83	C
38	8	84	C
38	8	86	U
38	8	87	G
38	8	88	A
38	8	90	U
38	8	95	G
38	8	97	A
38	8	104	A
38	8	106	C
38	8	111	A
38	8	113	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	8	122	U
38	8	125	U
38	8	126	A
38	8	127	U
38	8	146	U
38	8	152	G
38	8	156	U
38	8	157	U
38	8	158	U

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2310 ligands modelled in this entry, 1207 are monoatomic - leaving 1103 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
95	PHE	1	3401	-	11,11,12	2.33	3 (27%)	12,13,15	0.79	0
96	LEU	1	3402	-	7,7,8	1.36	1 (14%)	6,8,10	0.81	0
97	SPS	1	3403	93	20,23,23	3.45	9 (45%)	18,30,30	5.11	12 (66%)
92	OHX	1	3404	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3406	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3408	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3409	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3412	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3413	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3417	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3420	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3423	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3424	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3428	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3429	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3430	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3432	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3435	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3437	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3438	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3442	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3444	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3445	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3448	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3449	36	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3450	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3451	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3454	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3455	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3456	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3457	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3459	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3460	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3461	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3462	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3465	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3470	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3472	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3473	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3474	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3475	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3476	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3478	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3480	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3481	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3483	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3485	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3486	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3487	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3488	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3489	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3491	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3492	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3494	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3495	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3496	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3498	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3499	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3500	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3510	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3511	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3512	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3513	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3514	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3515	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3517	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3521	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3522	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3523	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3525	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3526	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3528	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3530	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3531	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3532	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3533	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3534	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3535	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3536	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3537	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3540	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3541	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3542	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3543	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3544	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3545	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3549	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3551	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3552	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3553	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3554	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3557	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3562	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3564	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3565	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3566	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3567	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3573	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3574	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3577	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3578	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3579	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3580	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3583	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3584	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3585	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3586	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3587	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3589	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3590	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3591	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3593	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3596	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3597	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3598	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3599	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3600	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3601	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3605	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3607	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3609	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3616	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3617	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3621	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3622	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3623	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3624	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3625	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3626	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3627	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3628	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3629	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3630	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3631	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3632	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3633	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3634	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3635	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3636	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3637	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3638	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3639	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3640	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3641	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3642	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3643	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3644	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3645	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3646	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3647	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3648	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3649	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3650	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3651	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3652	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3653	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3654	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3655	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3656	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3657	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3658	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3659	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3660	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3661	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3662	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3663	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3664	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3665	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3666	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3667	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3668	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3669	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3670	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3671	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3672	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3673	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3674	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3675	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3676	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3677	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3678	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3679	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3680	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3681	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3682	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3683	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3684	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3685	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3686	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3687	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3688	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3689	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3690	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3691	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3692	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3693	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3694	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3695	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3696	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3697	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3698	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3699	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3700	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3701	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3702	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3703	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3704	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3705	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3706	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3707	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	1	3708	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3709	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3710	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3711	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3712	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3713	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3714	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3715	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3716	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3717	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3718	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3719	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3720	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3721	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3722	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3723	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3724	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3725	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3726	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3727	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3728	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3729	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3730	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3731	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1902	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1903	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1904	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1905	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1907	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1908	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1909	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1911	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1913	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1914	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1915	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1917	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1918	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1919	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	2	1920	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1921	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1922	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1923	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1924	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1926	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1927	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1928	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1929	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1930	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1931	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1932	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1935	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1936	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1939	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1940	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1941	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1942	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1944	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1945	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1946	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1948	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1950	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1951	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1952	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1953	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1954	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1955	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1957	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1958	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1960	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1962	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	2	1963	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1964	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1966	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1967	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1968	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1969	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1970	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1971	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1972	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1973	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1974	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1975	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1976	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1977	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1981	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1982	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1983	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1986	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1987	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1989	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1991	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1993	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1994	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1996	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1997	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1998	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1999	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2000	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2002	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2003	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2004	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2005	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	2	2006	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2007	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2008	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2009	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2010	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2011	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2012	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2013	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2014	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2015	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2016	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2017	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2018	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2019	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2020	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2021	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2022	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2023	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2025	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2026	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2028	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2029	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2030	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2031	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2032	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2033	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2034	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2035	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2036	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2037	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2039	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2040	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2042	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2043	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2047	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2048	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	2	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2050	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2051	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	203	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	205	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	206	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	207	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	209	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	210	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	202	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	203	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	205	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	206	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	207	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	209	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	210	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	211	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	212	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	213	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	214	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	215	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	216	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	217	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	218	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	219	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	220	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	221	-	0,6,6	0.00	-	0,15,15	0.00	-
95	PHE	5	3401	-	11,11,12	2.33	3 (27%)	12,13,15	0.79	0
96	LEU	5	3402	-	7,7,8	1.37	1 (14%)	6,8,10	0.81	0
97	SPS	5	3403	93	20,23,23	3.53	10 (50%)	18,30,30	5.05	12 (66%)
92	OHX	5	3404	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3406	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3408	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3409	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3412	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3413	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3417	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3420	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3423	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3424	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3428	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3429	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3430	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3432	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3435	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3437	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3438	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3442	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3444	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3445	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3448	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3449	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3450	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3451	85	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3454	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3455	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3456	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3457	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3459	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3460	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3461	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3462	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3465	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3470	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3472	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3473	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3474	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3475	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3476	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3478	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3480	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3481	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3483	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3485	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3486	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3487	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3488	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3489	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3491	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3492	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3494	85	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3495	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3496	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3498	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3499	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3500	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3502	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3510	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3511	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3512	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3513	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3514	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3515	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3517	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3521	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3522	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3523	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3525	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3526	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3528	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3530	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3531	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3532	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3533	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3534	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3535	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3536	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3537	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3540	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3541	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3542	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3543	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3544	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3545	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3549	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3551	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3552	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3553	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3554	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3557	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3562	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3564	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3565	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3566	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3567	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3573	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3574	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3577	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3578	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3579	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3580	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3583	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3584	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3585	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3586	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3587	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3589	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3590	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3591	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3593	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3596	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3597	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3598	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3599	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3600	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3601	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3605	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3607	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3609	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3616	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3617	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3621	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3622	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3623	85	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3624	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3625	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3626	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3627	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3628	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3629	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3630	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3631	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3632	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3633	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3634	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3635	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3636	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3637	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3638	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3639	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3640	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3641	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3642	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3643	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3644	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3645	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3646	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3647	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3648	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3649	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3650	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3651	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3652	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3653	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3654	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3655	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3656	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3657	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3658	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3659	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3660	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3661	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3662	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3663	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3664	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3665	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3666	85	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3667	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3668	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3669	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3670	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3671	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3672	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3673	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3674	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3675	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3676	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3677	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3678	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3679	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3680	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3681	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3682	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3683	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3684	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3685	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3686	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3687	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3688	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3689	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3690	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3691	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3692	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3693	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3694	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3695	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3696	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3697	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3698	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3699	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3700	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3701	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3702	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3703	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3704	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3705	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3706	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3707	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3708	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3709	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	5	3710	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3711	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3712	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3713	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3714	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3715	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3716	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3717	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3718	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3719	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3720	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3721	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3722	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3723	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3724	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3725	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3726	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3727	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3728	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3729	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3730	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3731	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3732	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3733	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3734	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3735	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3736	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3737	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3738	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3739	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3740	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3741	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3742	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3743	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3744	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3745	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3746	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3747	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3748	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3749	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1902	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1903	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	6	1904	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1905	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1907	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1908	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1909	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1911	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1913	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1914	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1915	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1917	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1918	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1919	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1920	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1921	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1922	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1923	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1924	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1926	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1927	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1928	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1929	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1930	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1931	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1932	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1935	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1936	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1939	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1940	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1941	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1942	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1944	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1945	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1946	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	6	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1948	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1950	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1951	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1952	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1953	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1954	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1955	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1957	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1958	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1960	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1962	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1963	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1964	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1966	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1967	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1968	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1969	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1970	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1971	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1972	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1973	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1974	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1975	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1976	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1977	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1981	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1982	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1983	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1986	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1987	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1989	80	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	6	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1991	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1993	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1994	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1996	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1997	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1998	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1999	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2000	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2002	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2003	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2004	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2005	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2006	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2007	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2008	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2009	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2010	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2011	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2012	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2013	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2014	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2015	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2016	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2017	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2018	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2019	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2020	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2021	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2022	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2023	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2025	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2026	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2028	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2029	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2030	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2031	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2032	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	6	2033	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2034	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2035	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2036	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2037	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2039	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2040	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2042	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2043	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2047	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2048	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2050	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2051	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2052	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2053	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2054	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2055	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2056	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2057	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2058	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2059	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	202	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	203	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	205	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	206	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	207	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	209	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	210	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	211	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	202	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	203	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	205	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	8	206	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	207	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	209	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	210	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	211	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	212	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	213	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	214	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	215	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	216	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C8	201	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	D9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L3	401	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L3	402	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L4	401	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L6	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L6	202	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M5	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M6	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	N9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	O3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	O4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	O7	102	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	O9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
98	8AN	P	101	91,93	17,24,25	1.15	1 (5%)	14,35,38	2.25	5 (35%)
92	OHX	Q2	502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	S8	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	S9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	SR	401	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	c3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	c5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	c8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	d4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l3	401	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
92	OHX	l3	402	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l5	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m0	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m0	303	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m5	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m6	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	n9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	o3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	o7	502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	o7	503	-	0,6,6	0.00	-	0,15,15	0.00	-
98	8AN	p	101	91,93	17,24,25	1.14	1 (5%)	14,35,38	2.27	5 (35%)
92	OHX	q2	502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s1	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s4	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s8	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	sR	401	-	0,6,6	0.00	-	0,15,15	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
95	PHE	1	3401	-	-	0/4/6/8	0/1/1/1
96	LEU	1	3402	-	-	0/4/6/8	0/0/0/0
97	SPS	1	3403	93	-	0/15/18/18	0/1/1/1
92	OHX	1	3404	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3405	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3406	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3407	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3408	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3409	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3410	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3411	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3412	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3413	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3414	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3415	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3416	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3417	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3418	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3419	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3420	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3421	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3422	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3423	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3424	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3425	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3426	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3427	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3428	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3429	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3430	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3431	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3432	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3433	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3434	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3435	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3436	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3437	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3438	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3439	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3440	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3441	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3442	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3443	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3444	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3445	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3446	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3447	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3448	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3449	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3450	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3451	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3452	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3453	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3454	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3455	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3456	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3457	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3458	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3459	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3460	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3461	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3462	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3463	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3464	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3465	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3466	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3467	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3468	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3469	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3470	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3471	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3472	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3473	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3474	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3475	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3476	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3477	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3478	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3479	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3480	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3481	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3482	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3483	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3484	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3485	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3486	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3487	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3488	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3489	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3490	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3491	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3492	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3493	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3494	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3495	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3496	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3497	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3498	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3499	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3500	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3501	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3502	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3503	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3504	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3505	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3506	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3507	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3508	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3509	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3510	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3511	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3512	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3513	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3514	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3515	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3516	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3517	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3518	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3519	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3520	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3521	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3522	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3523	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3524	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3525	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3526	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3527	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3528	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3529	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3530	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3531	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3532	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3533	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3534	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3535	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3536	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3537	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3538	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3539	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3540	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3541	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3542	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3543	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3544	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3545	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3546	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3547	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3548	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3549	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3550	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3551	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3552	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3553	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3554	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3555	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3556	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3557	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3558	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3559	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3560	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3561	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3562	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3563	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3564	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3565	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3566	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3567	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3568	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3569	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3570	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3571	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3572	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3573	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3574	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3575	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3576	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3577	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3578	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3579	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3580	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3581	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3582	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3583	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3584	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3585	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3586	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3587	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3588	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3589	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3590	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3591	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3592	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3593	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3594	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3595	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3596	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3597	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3598	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3599	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3600	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3601	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3602	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3603	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3604	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3605	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3606	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3607	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3608	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3609	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3610	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3611	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3612	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3613	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3614	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3615	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3616	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3617	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3618	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3619	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3620	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3621	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3622	36	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3623	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3624	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3625	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3626	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3627	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3628	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3629	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3630	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3631	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3632	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3633	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3634	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3635	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3636	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3637	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3638	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3639	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3640	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3641	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3642	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3643	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3644	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3645	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3646	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3647	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3648	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3649	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3650	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3651	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3652	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3653	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3654	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3655	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3656	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3657	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3658	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3659	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3660	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3661	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3662	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3663	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3664	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3665	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3666	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3667	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3668	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3669	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3670	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3671	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3672	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3673	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3674	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3675	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3676	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3677	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3678	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3679	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3680	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3681	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3682	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3683	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3684	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3685	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3686	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3687	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3688	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3689	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3690	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3691	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3692	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3693	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3694	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3695	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3696	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3697	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3698	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3699	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3700	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3701	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3702	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3703	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3704	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3705	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3706	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3707	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3708	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3709	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3710	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3711	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3712	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3713	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3714	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3715	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3716	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3717	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3718	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3719	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3720	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3721	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3722	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3723	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3724	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3725	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3726	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3727	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3728	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3729	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3730	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3731	36	-	0/0/0/0	0/0/0/0
92	OHX	2	1901	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1902	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1903	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1904	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1905	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1906	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1907	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1908	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1909	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1910	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1911	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1912	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1913	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1914	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1915	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1916	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1917	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	1918	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1919	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1920	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1921	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1922	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1923	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1924	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1925	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1926	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1927	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1928	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1929	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1930	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1931	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1932	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1933	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1934	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1935	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1936	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1937	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1938	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1939	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1940	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1941	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1942	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1943	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1944	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1945	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1946	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1947	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1948	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1949	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1950	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1951	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1952	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1953	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1954	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1955	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1956	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1957	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1958	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1959	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	1960	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1961	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1962	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1963	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1964	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1965	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1966	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1967	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1968	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1969	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1970	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1971	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1972	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1973	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1974	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1975	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1976	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1977	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1978	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1979	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1980	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1981	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1982	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1983	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1984	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1985	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1986	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1987	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1988	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1989	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1990	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1991	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1992	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1993	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1994	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1995	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1996	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1997	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1998	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1999	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2000	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2001	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	2002	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2003	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2004	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2005	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2006	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2007	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2008	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2009	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2010	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2011	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2012	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2013	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2014	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2015	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2016	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2017	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2018	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2019	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2020	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2021	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2022	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2023	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2024	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2025	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2026	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2027	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2028	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2029	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2030	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2031	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2032	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2033	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2034	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2035	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2036	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2037	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2038	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2039	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2040	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2041	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2042	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2043	1	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	2044	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2045	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2046	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2047	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2048	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2049	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2050	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2051	-	-	0/0/0/0	0/0/0/0
92	OHX	3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	3	202	-	-	0/0/0/0	0/0/0/0
92	OHX	3	203	-	-	0/0/0/0	0/0/0/0
92	OHX	3	204	-	-	0/0/0/0	0/0/0/0
92	OHX	3	205	-	-	0/0/0/0	0/0/0/0
92	OHX	3	206	-	-	0/0/0/0	0/0/0/0
92	OHX	3	207	-	-	0/0/0/0	0/0/0/0
92	OHX	3	208	-	-	0/0/0/0	0/0/0/0
92	OHX	3	209	-	-	0/0/0/0	0/0/0/0
92	OHX	3	210	-	-	0/0/0/0	0/0/0/0
92	OHX	4	201	-	-	0/0/0/0	0/0/0/0
92	OHX	4	202	-	-	0/0/0/0	0/0/0/0
92	OHX	4	203	-	-	0/0/0/0	0/0/0/0
92	OHX	4	204	-	-	0/0/0/0	0/0/0/0
92	OHX	4	205	38	-	0/0/0/0	0/0/0/0
92	OHX	4	206	38	-	0/0/0/0	0/0/0/0
92	OHX	4	207	-	-	0/0/0/0	0/0/0/0
92	OHX	4	208	-	-	0/0/0/0	0/0/0/0
92	OHX	4	209	-	-	0/0/0/0	0/0/0/0
92	OHX	4	210	-	-	0/0/0/0	0/0/0/0
92	OHX	4	211	-	-	0/0/0/0	0/0/0/0
92	OHX	4	212	-	-	0/0/0/0	0/0/0/0
92	OHX	4	213	-	-	0/0/0/0	0/0/0/0
92	OHX	4	214	-	-	0/0/0/0	0/0/0/0
92	OHX	4	215	38	-	0/0/0/0	0/0/0/0
92	OHX	4	216	-	-	0/0/0/0	0/0/0/0
92	OHX	4	217	-	-	0/0/0/0	0/0/0/0
92	OHX	4	218	-	-	0/0/0/0	0/0/0/0
92	OHX	4	219	-	-	0/0/0/0	0/0/0/0
92	OHX	4	220	-	-	0/0/0/0	0/0/0/0
92	OHX	4	221	-	-	0/0/0/0	0/0/0/0
95	PHE	5	3401	-	-	0/4/6/8	0/1/1/1
96	LEU	5	3402	-	-	0/4/6/8	0/0/0/0
97	SPS	5	3403	93	-	0/15/18/18	0/1/1/1

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3404	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3405	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3406	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3407	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3408	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3409	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3410	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3411	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3412	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3413	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3414	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3415	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3416	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3417	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3418	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3419	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3420	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3421	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3422	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3423	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3424	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3425	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3426	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3427	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3428	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3429	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3430	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3431	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3432	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3433	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3434	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3435	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3436	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3437	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3438	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3439	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3440	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3441	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3442	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3443	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3444	37	-	0/0/0/0	0/0/0/0
92	OHX	5	3445	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3446	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3447	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3448	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3449	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3450	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3451	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3452	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3453	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3454	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3455	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3456	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3457	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3458	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3459	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3460	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3461	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3462	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3463	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3464	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3465	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3466	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3467	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3468	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3469	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3470	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3471	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3472	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3473	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3474	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3475	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3476	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3477	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3478	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3479	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3480	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3481	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3482	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3483	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3484	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3485	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3486	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3487	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3488	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3489	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3490	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3491	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3492	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3493	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3494	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3495	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3496	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3497	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3498	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3499	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3500	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3501	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3502	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3503	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3504	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3505	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3506	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3507	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3508	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3509	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3510	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3511	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3512	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3513	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3514	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3515	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3516	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3517	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3518	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3519	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3520	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3521	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3522	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3523	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3524	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3525	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3526	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3527	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3528	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3529	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3530	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3531	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3532	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3533	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3534	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3535	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3536	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3537	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3538	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3539	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3540	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3541	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3542	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3543	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3544	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3545	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3546	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3547	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3548	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3549	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3550	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3551	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3552	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3553	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3554	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3555	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3556	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3557	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3558	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3559	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3560	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3561	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3562	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3563	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3564	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3565	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3566	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3567	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3568	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3569	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3570	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3571	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3572	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3573	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3574	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3575	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3576	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3577	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3578	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3579	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3580	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3581	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3582	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3583	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3584	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3585	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3586	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3587	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3588	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3589	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3590	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3591	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3592	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3593	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3594	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3595	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3596	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3597	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3598	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3599	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3600	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3601	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3602	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3603	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3604	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3605	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3606	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3607	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3608	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3609	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3610	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3611	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3612	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3613	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3614	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3615	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3616	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3617	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3618	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3619	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3620	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3621	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3622	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3623	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3624	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3625	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3626	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3627	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3628	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3629	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3630	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3631	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3632	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3633	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3634	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3635	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3636	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3637	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3638	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3639	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3640	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3641	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3642	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3643	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3644	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3645	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3646	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3647	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3648	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3649	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3650	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3651	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3652	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3653	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3654	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3655	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3656	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3657	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3658	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3659	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3660	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3661	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3662	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3663	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3664	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3665	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3666	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3667	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3668	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3669	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3670	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3671	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3672	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3673	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3674	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3675	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3676	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3677	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3678	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3679	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3680	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3681	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3682	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3683	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3684	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3685	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3686	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3687	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3688	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3689	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3690	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3691	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3692	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3693	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3694	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3695	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3696	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3697	85	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3698	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3699	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3700	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3701	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3702	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3703	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3704	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3705	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3706	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3707	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3708	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3709	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3710	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3711	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3712	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3713	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3714	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3715	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3716	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3717	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3718	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3719	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3720	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3721	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3722	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3723	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3724	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3725	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3726	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3727	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3728	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3729	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3730	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3731	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3732	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3733	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3734	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3735	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3736	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3737	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3738	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3739	85	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3740	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3741	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3742	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3743	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3744	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3745	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3746	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3747	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3748	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3749	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1901	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1902	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1903	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1904	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1905	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1906	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1907	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1908	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1909	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1910	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1911	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1912	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1913	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1914	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1915	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1916	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1917	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1918	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1919	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1920	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1921	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1922	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1923	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1924	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1925	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1926	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1927	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1928	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1929	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1930	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1931	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1932	80	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	1933	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1934	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1935	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1936	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1937	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1938	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1939	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1940	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1941	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1942	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1943	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1944	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1945	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1946	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1947	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1948	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1949	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1950	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1951	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1952	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1953	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1954	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1955	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1956	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1957	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1958	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1959	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1960	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1961	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1962	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1963	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1964	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1965	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1966	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1967	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1968	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1969	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1970	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1971	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1972	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1973	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1974	80	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	1975	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1976	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1977	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1978	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1979	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1980	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1981	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1982	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1983	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1984	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1985	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1986	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1987	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1988	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1989	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1990	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1991	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1992	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1993	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1994	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1995	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1996	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1997	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1998	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1999	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2000	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2001	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2002	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2003	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2004	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2005	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2006	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2007	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2008	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2009	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2010	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2011	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2012	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2013	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2014	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2015	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2016	80	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	2017	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2018	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2019	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2020	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2021	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2022	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2023	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2024	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2025	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2026	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2027	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2028	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2029	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2030	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2031	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2032	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2033	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2034	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2035	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2036	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2037	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2038	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2039	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2040	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2041	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2042	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2043	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2044	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2045	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2046	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2047	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2048	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2049	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2050	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2051	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2052	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2053	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2054	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2055	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2056	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2057	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2058	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	2059	-	-	0/0/0/0	0/0/0/0
92	OHX	7	201	-	-	0/0/0/0	0/0/0/0
92	OHX	7	202	37	-	0/0/0/0	0/0/0/0
92	OHX	7	203	37	-	0/0/0/0	0/0/0/0
92	OHX	7	204	-	-	0/0/0/0	0/0/0/0
92	OHX	7	205	37	-	0/0/0/0	0/0/0/0
92	OHX	7	206	37	-	0/0/0/0	0/0/0/0
92	OHX	7	207	37	-	0/0/0/0	0/0/0/0
92	OHX	7	208	-	-	0/0/0/0	0/0/0/0
92	OHX	7	209	37	-	0/0/0/0	0/0/0/0
92	OHX	7	210	-	-	0/0/0/0	0/0/0/0
92	OHX	7	211	-	-	0/0/0/0	0/0/0/0
92	OHX	8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	8	202	38	-	0/0/0/0	0/0/0/0
92	OHX	8	203	-	-	0/0/0/0	0/0/0/0
92	OHX	8	204	-	-	0/0/0/0	0/0/0/0
92	OHX	8	205	-	-	0/0/0/0	0/0/0/0
92	OHX	8	206	38	-	0/0/0/0	0/0/0/0
92	OHX	8	207	38	-	0/0/0/0	0/0/0/0
92	OHX	8	208	-	-	0/0/0/0	0/0/0/0
92	OHX	8	209	38	-	0/0/0/0	0/0/0/0
92	OHX	8	210	38	-	0/0/0/0	0/0/0/0
92	OHX	8	211	-	-	0/0/0/0	0/0/0/0
92	OHX	8	212	38	-	0/0/0/0	0/0/0/0
92	OHX	8	213	-	-	0/0/0/0	0/0/0/0
92	OHX	8	214	38	-	0/0/0/0	0/0/0/0
92	OHX	8	215	38	-	0/0/0/0	0/0/0/0
92	OHX	8	216	38	-	0/0/0/0	0/0/0/0
92	OHX	C3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	C5	201	-	-	0/0/0/0	0/0/0/0
92	OHX	C7	201	-	-	0/0/0/0	0/0/0/0
92	OHX	C8	201	36	-	0/0/0/0	0/0/0/0
92	OHX	D9	102	-	-	0/0/0/0	0/0/0/0
92	OHX	L3	401	-	-	0/0/0/0	0/0/0/0
92	OHX	L3	402	-	-	0/0/0/0	0/0/0/0
92	OHX	L4	401	-	-	0/0/0/0	0/0/0/0
92	OHX	L6	201	-	-	0/0/0/0	0/0/0/0
92	OHX	L6	202	-	-	0/0/0/0	0/0/0/0
92	OHX	M0	301	-	-	0/0/0/0	0/0/0/0
92	OHX	M5	301	-	-	0/0/0/0	0/0/0/0
92	OHX	M5	302	-	-	0/0/0/0	0/0/0/0
92	OHX	M6	201	-	-	0/0/0/0	0/0/0/0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	M7	201	-	-	0/0/0/0	0/0/0/0
92	OHX	M8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	M9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	N9	101	-	-	0/0/0/0	0/0/0/0
92	OHX	O3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	O4	201	-	-	0/0/0/0	0/0/0/0
92	OHX	O7	102	-	-	0/0/0/0	0/0/0/0
92	OHX	O9	101	-	-	0/0/0/0	0/0/0/0
98	8AN	P	101	91,93	-	0/3/25/26	0/3/3/3
92	OHX	Q2	502	-	-	0/0/0/0	0/0/0/0
92	OHX	S8	301	-	-	0/0/0/0	0/0/0/0
92	OHX	S9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	SR	401	-	-	0/0/0/0	0/0/0/0
92	OHX	c3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	c5	201	-	-	0/0/0/0	0/0/0/0
92	OHX	c8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	d4	201	-	-	0/0/0/0	0/0/0/0
92	OHX	l3	401	-	-	0/0/0/0	0/0/0/0
92	OHX	l3	402	-	-	0/0/0/0	0/0/0/0
92	OHX	l5	301	-	-	0/0/0/0	0/0/0/0
92	OHX	l5	302	-	-	0/0/0/0	0/0/0/0
92	OHX	l9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	m0	301	-	-	0/0/0/0	0/0/0/0
92	OHX	m0	302	-	-	0/0/0/0	0/0/0/0
92	OHX	m0	303	-	-	0/0/0/0	0/0/0/0
92	OHX	m5	301	-	-	0/0/0/0	0/0/0/0
92	OHX	m5	302	-	-	0/0/0/0	0/0/0/0
92	OHX	m6	201	-	-	0/0/0/0	0/0/0/0
92	OHX	m8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	m9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	n9	101	-	-	0/0/0/0	0/0/0/0
92	OHX	o3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	o7	502	-	-	0/0/0/0	0/0/0/0
92	OHX	o7	503	-	-	0/0/0/0	0/0/0/0
98	8AN	p	101	91,93	-	0/3/25/26	0/3/3/3
92	OHX	q2	502	-	-	0/0/0/0	0/0/0/0
92	OHX	s1	301	-	-	0/0/0/0	0/0/0/0
92	OHX	s4	301	-	-	0/0/0/0	0/0/0/0
92	OHX	s8	301	-	-	0/0/0/0	0/0/0/0
92	OHX	s9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	sR	401	-	-	0/0/0/0	0/0/0/0

All (29) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
97	5	3403	SPS	C9-C10	-8.22	1.32	1.48
97	1	3403	SPS	C9-C10	-6.63	1.35	1.48
97	1	3403	SPS	O13-C13	-5.02	1.21	1.42
97	5	3403	SPS	O13-C13	-4.91	1.21	1.42
97	5	3403	SPS	C6-C5	-4.66	1.33	1.41
97	5	3403	SPS	C1-C6	-3.72	1.36	1.44
97	5	3403	SPS	O10-C10	-3.49	1.17	1.24
97	1	3403	SPS	C3-N4	-3.08	1.32	1.38
97	1	3403	SPS	C1-C6	-2.93	1.37	1.44
97	5	3403	SPS	O1-C1	-2.56	1.18	1.24
97	5	3403	SPS	C3-N4	-2.55	1.33	1.38
95	1	3401	PHE	CE1-CD1	2.10	1.42	1.38
95	5	3401	PHE	CE1-CD1	2.14	1.43	1.38
95	1	3401	PHE	CZ-CE1	2.69	1.44	1.38
95	5	3401	PHE	CZ-CE1	2.70	1.44	1.38
97	5	3403	SPS	C6-C8	2.70	1.53	1.47
98	p	101	8AN	C5-C4	3.14	1.47	1.40
98	P	101	8AN	C5-C4	3.15	1.47	1.40
97	1	3403	SPS	C13-C12	3.45	1.58	1.52
96	1	3402	LEU	CA-C	3.45	1.54	1.50
96	5	3402	LEU	CA-C	3.48	1.54	1.50
97	5	3403	SPS	C10-N11	3.61	1.44	1.34
97	1	3403	SPS	C6-C8	4.26	1.56	1.47
97	1	3403	SPS	O15-S15	4.34	1.64	1.50
97	1	3403	SPS	C10-N11	4.49	1.46	1.34
95	1	3401	PHE	CA-C	6.51	1.58	1.50
95	5	3401	PHE	CA-C	6.52	1.58	1.50
97	5	3403	SPS	C9-C8	7.43	1.53	1.32
97	1	3403	SPS	C9-C8	7.98	1.54	1.32

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
97	5	3403	SPS	C7-C5-C6	-11.29	112.86	122.69
97	1	3403	SPS	C6-C1-N2	-9.45	117.79	124.45
97	1	3403	SPS	C7-C5-C6	-7.98	115.75	122.69
97	5	3403	SPS	C6-C1-N2	-6.65	119.76	124.45
97	5	3403	SPS	O15-S15-C14	-5.96	97.53	106.08
98	p	101	8AN	N3-C2-N1	-5.95	123.67	128.86
98	P	101	8AN	N3-C2-N1	-5.87	123.75	128.86
97	1	3403	SPS	C12-N11-C10	-5.09	115.65	122.63
97	5	3403	SPS	O10-C10-N11	-4.61	115.60	122.31
97	5	3403	SPS	C6-C8-C9	-3.53	116.45	127.13

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
98	p	101	8AN	C4-C5-N7	-2.95	106.56	109.41
98	P	101	8AN	C4-C5-N7	-2.94	106.57	109.41
97	1	3403	SPS	O10-C10-N11	-2.83	118.18	122.31
97	5	3403	SPS	C5-C6-C8	-2.27	114.86	120.05
97	5	3403	SPS	C12-N11-C10	-2.09	119.76	122.63
97	1	3403	SPS	C7-C5-N4	2.03	119.56	116.52
98	P	101	8AN	C1'-C2'-C3'	2.32	106.31	102.13
98	p	101	8AN	C1'-C2'-C3'	2.32	106.32	102.13
97	1	3403	SPS	C14-C12-C13	2.43	116.95	111.98
98	p	101	8AN	O4'-C4'-C3'	2.55	107.80	104.15
98	P	101	8AN	O4'-C4'-C3'	2.57	107.83	104.15
97	1	3403	SPS	C6-C5-N4	2.57	124.70	121.92
98	P	101	8AN	C2'-C3'-C4'	2.60	106.31	102.68
98	p	101	8AN	C2'-C3'-C4'	2.60	106.31	102.68
97	1	3403	SPS	C8-C9-C10	2.64	127.01	121.54
97	1	3403	SPS	C13-C12-N11	3.72	118.25	109.56
97	5	3403	SPS	C9-C10-N11	4.12	122.63	114.43
97	5	3403	SPS	C7-C5-N4	4.77	123.64	116.52
97	5	3403	SPS	C18-S17-C16	5.51	116.05	100.15
97	1	3403	SPS	O15-S15-C14	5.67	114.21	106.08
97	5	3403	SPS	O13-C13-C12	6.18	128.28	111.95
97	1	3403	SPS	O13-C13-C12	7.31	131.24	111.95
97	5	3403	SPS	C1-N2-C3	9.61	123.57	115.16
97	1	3403	SPS	C1-N2-C3	12.35	125.96	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

500 monomers are involved in 860 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
96	1	3402	LEU	3	0
97	1	3403	SPS	13	0
92	1	3407	OHX	1	0
92	1	3408	OHX	2	0
92	1	3414	OHX	1	0
92	1	3415	OHX	2	0
92	1	3417	OHX	1	0
92	1	3418	OHX	2	0
92	1	3419	OHX	2	0
92	1	3420	OHX	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3422	OHX	1	0
92	1	3425	OHX	1	0
92	1	3429	OHX	1	0
92	1	3430	OHX	1	0
92	1	3431	OHX	1	0
92	1	3438	OHX	1	0
92	1	3441	OHX	1	0
92	1	3443	OHX	2	0
92	1	3446	OHX	2	0
92	1	3447	OHX	1	0
92	1	3449	OHX	2	0
92	1	3451	OHX	1	0
92	1	3455	OHX	1	0
92	1	3458	OHX	1	0
92	1	3460	OHX	1	0
92	1	3463	OHX	1	0
92	1	3464	OHX	1	0
92	1	3466	OHX	1	0
92	1	3467	OHX	1	0
92	1	3468	OHX	1	0
92	1	3470	OHX	1	0
92	1	3471	OHX	1	0
92	1	3474	OHX	1	0
92	1	3475	OHX	1	0
92	1	3476	OHX	1	0
92	1	3477	OHX	1	0
92	1	3479	OHX	1	0
92	1	3480	OHX	1	0
92	1	3484	OHX	2	0
92	1	3487	OHX	1	0
92	1	3489	OHX	1	0
92	1	3490	OHX	1	0
92	1	3493	OHX	1	0
92	1	3494	OHX	6	0
92	1	3496	OHX	1	0
92	1	3500	OHX	3	0
92	1	3501	OHX	2	0
92	1	3502	OHX	2	0
92	1	3507	OHX	8	0
92	1	3508	OHX	2	0
92	1	3511	OHX	6	0
92	1	3513	OHX	3	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3515	OHX	2	0
92	1	3516	OHX	1	0
92	1	3517	OHX	1	0
92	1	3518	OHX	2	0
92	1	3521	OHX	1	0
92	1	3523	OHX	1	0
92	1	3525	OHX	4	0
92	1	3526	OHX	2	0
92	1	3528	OHX	1	0
92	1	3531	OHX	1	0
92	1	3532	OHX	2	0
92	1	3534	OHX	3	0
92	1	3536	OHX	1	0
92	1	3537	OHX	2	0
92	1	3540	OHX	1	0
92	1	3542	OHX	1	0
92	1	3543	OHX	1	0
92	1	3547	OHX	1	0
92	1	3552	OHX	1	0
92	1	3558	OHX	1	0
92	1	3560	OHX	2	0
92	1	3562	OHX	1	0
92	1	3563	OHX	6	0
92	1	3565	OHX	7	0
92	1	3566	OHX	2	0
92	1	3568	OHX	2	0
92	1	3571	OHX	2	0
92	1	3572	OHX	2	0
92	1	3574	OHX	1	0
92	1	3575	OHX	1	0
92	1	3576	OHX	4	0
92	1	3577	OHX	3	0
92	1	3578	OHX	5	0
92	1	3580	OHX	2	0
92	1	3583	OHX	4	0
92	1	3585	OHX	4	0
92	1	3586	OHX	2	0
92	1	3589	OHX	4	0
92	1	3590	OHX	4	0
92	1	3591	OHX	1	0
92	1	3597	OHX	1	0
92	1	3599	OHX	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3600	OHX	6	0
92	1	3603	OHX	2	0
92	1	3604	OHX	1	0
92	1	3605	OHX	2	0
92	1	3606	OHX	1	0
92	1	3607	OHX	1	0
92	1	3609	OHX	1	0
92	1	3611	OHX	1	0
92	1	3612	OHX	5	0
92	1	3616	OHX	4	0
92	1	3620	OHX	1	0
92	1	3624	OHX	1	0
92	1	3626	OHX	2	0
92	1	3627	OHX	1	0
92	1	3631	OHX	1	0
92	1	3635	OHX	1	0
92	1	3638	OHX	2	0
92	1	3640	OHX	1	0
92	1	3641	OHX	1	0
92	1	3644	OHX	1	0
92	1	3648	OHX	7	0
92	1	3651	OHX	2	0
92	1	3652	OHX	2	0
92	1	3654	OHX	2	0
92	1	3655	OHX	1	0
92	1	3657	OHX	1	0
92	1	3660	OHX	1	0
92	1	3662	OHX	4	0
92	1	3665	OHX	2	0
92	1	3668	OHX	2	0
92	1	3670	OHX	3	0
92	1	3671	OHX	1	0
92	1	3674	OHX	2	0
92	1	3675	OHX	1	0
92	1	3677	OHX	1	0
92	1	3679	OHX	1	0
92	1	3683	OHX	1	0
92	1	3684	OHX	4	0
92	1	3687	OHX	1	0
92	1	3689	OHX	2	0
92	1	3690	OHX	6	0
92	1	3691	OHX	7	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3694	OHX	6	0
92	1	3697	OHX	1	0
92	1	3698	OHX	1	0
92	1	3699	OHX	2	0
92	1	3702	OHX	5	0
92	1	3703	OHX	1	0
92	1	3705	OHX	2	0
92	1	3707	OHX	1	0
92	1	3709	OHX	1	0
92	1	3710	OHX	4	0
92	1	3711	OHX	5	0
92	1	3713	OHX	2	0
92	1	3714	OHX	1	0
92	1	3715	OHX	1	0
92	1	3720	OHX	1	0
92	1	3721	OHX	1	0
92	1	3728	OHX	2	0
92	1	3729	OHX	3	0
92	1	3731	OHX	1	0
92	2	1909	OHX	1	0
92	2	1911	OHX	1	0
92	2	1912	OHX	1	0
92	2	1913	OHX	2	0
92	2	1914	OHX	4	0
92	2	1916	OHX	1	0
92	2	1917	OHX	2	0
92	2	1919	OHX	1	0
92	2	1920	OHX	2	0
92	2	1921	OHX	6	0
92	2	1922	OHX	1	0
92	2	1924	OHX	1	0
92	2	1928	OHX	1	0
92	2	1929	OHX	1	0
92	2	1931	OHX	1	0
92	2	1938	OHX	3	0
92	2	1940	OHX	2	0
92	2	1942	OHX	1	0
92	2	1944	OHX	2	0
92	2	1949	OHX	2	0
92	2	1952	OHX	1	0
92	2	1955	OHX	2	0
92	2	1956	OHX	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	1960	OHX	2	0
92	2	1961	OHX	2	0
92	2	1962	OHX	1	0
92	2	1966	OHX	3	0
92	2	1967	OHX	3	0
92	2	1969	OHX	1	0
92	2	1970	OHX	5	0
92	2	1971	OHX	1	0
92	2	1972	OHX	3	0
92	2	1973	OHX	1	0
92	2	1974	OHX	1	0
92	2	1976	OHX	1	0
92	2	1977	OHX	1	0
92	2	1980	OHX	1	0
92	2	1982	OHX	2	0
92	2	1983	OHX	1	0
92	2	1985	OHX	5	0
92	2	1986	OHX	2	0
92	2	1988	OHX	2	0
92	2	1989	OHX	3	0
92	2	1993	OHX	1	0
92	2	1994	OHX	1	0
92	2	1997	OHX	1	0
92	2	1999	OHX	1	0
92	2	2005	OHX	2	0
92	2	2006	OHX	1	0
92	2	2009	OHX	2	0
92	2	2013	OHX	2	0
92	2	2020	OHX	1	0
92	2	2023	OHX	2	0
92	2	2026	OHX	1	0
92	2	2027	OHX	1	0
92	2	2028	OHX	1	0
92	2	2029	OHX	2	0
92	2	2035	OHX	2	0
92	2	2038	OHX	2	0
92	2	2040	OHX	7	0
92	2	2043	OHX	1	0
92	2	2046	OHX	1	0
92	2	2050	OHX	1	0
92	2	2051	OHX	1	0
92	3	203	OHX	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	3	204	OHX	8	0
92	3	206	OHX	1	0
92	3	207	OHX	1	0
92	4	201	OHX	1	0
92	4	202	OHX	1	0
92	4	203	OHX	1	0
92	4	204	OHX	1	0
92	4	206	OHX	1	0
92	4	207	OHX	1	0
92	4	208	OHX	2	0
92	4	209	OHX	1	0
92	4	210	OHX	2	0
92	4	211	OHX	1	0
92	4	213	OHX	1	0
92	4	215	OHX	1	0
92	4	216	OHX	1	0
92	4	217	OHX	2	0
92	4	218	OHX	2	0
92	4	220	OHX	1	0
95	5	3401	PHE	5	0
96	5	3402	LEU	3	0
97	5	3403	SPS	7	0
92	5	3404	OHX	2	0
92	5	3406	OHX	2	0
92	5	3407	OHX	1	0
92	5	3412	OHX	1	0
92	5	3413	OHX	1	0
92	5	3415	OHX	1	0
92	5	3422	OHX	1	0
92	5	3428	OHX	1	0
92	5	3430	OHX	1	0
92	5	3431	OHX	1	0
92	5	3433	OHX	2	0
92	5	3435	OHX	1	0
92	5	3437	OHX	1	0
92	5	3438	OHX	1	0
92	5	3440	OHX	1	0
92	5	3446	OHX	1	0
92	5	3447	OHX	1	0
92	5	3450	OHX	1	0
92	5	3453	OHX	1	0
92	5	3456	OHX	3	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3457	OHX	2	0
92	5	3459	OHX	1	0
92	5	3460	OHX	2	0
92	5	3463	OHX	1	0
92	5	3464	OHX	1	0
92	5	3465	OHX	2	0
92	5	3467	OHX	1	0
92	5	3470	OHX	1	0
92	5	3472	OHX	2	0
92	5	3475	OHX	3	0
92	5	3477	OHX	1	0
92	5	3479	OHX	1	0
92	5	3480	OHX	1	0
92	5	3481	OHX	4	0
92	5	3485	OHX	1	0
92	5	3487	OHX	1	0
92	5	3488	OHX	1	0
92	5	3489	OHX	1	0
92	5	3493	OHX	1	0
92	5	3498	OHX	1	0
92	5	3500	OHX	1	0
92	5	3503	OHX	6	0
92	5	3505	OHX	1	0
92	5	3506	OHX	8	0
92	5	3509	OHX	1	0
92	5	3511	OHX	2	0
92	5	3512	OHX	2	0
92	5	3518	OHX	1	0
92	5	3519	OHX	1	0
92	5	3521	OHX	1	0
92	5	3522	OHX	6	0
92	5	3524	OHX	4	0
92	5	3525	OHX	1	0
92	5	3527	OHX	1	0
92	5	3528	OHX	1	0
92	5	3529	OHX	1	0
92	5	3530	OHX	2	0
92	5	3531	OHX	1	0
92	5	3532	OHX	1	0
92	5	3533	OHX	1	0
92	5	3534	OHX	6	0
92	5	3539	OHX	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3541	OHX	1	0
92	5	3542	OHX	1	0
92	5	3544	OHX	1	0
92	5	3545	OHX	1	0
92	5	3550	OHX	1	0
92	5	3551	OHX	1	0
92	5	3555	OHX	11	0
92	5	3565	OHX	4	0
92	5	3566	OHX	5	0
92	5	3570	OHX	1	0
92	5	3571	OHX	1	0
92	5	3572	OHX	1	0
92	5	3574	OHX	4	0
92	5	3576	OHX	5	0
92	5	3578	OHX	1	0
92	5	3579	OHX	1	0
92	5	3580	OHX	7	0
92	5	3583	OHX	1	0
92	5	3588	OHX	2	0
92	5	3589	OHX	1	0
92	5	3590	OHX	1	0
92	5	3591	OHX	4	0
92	5	3592	OHX	1	0
92	5	3594	OHX	1	0
92	5	3600	OHX	2	0
92	5	3601	OHX	2	0
92	5	3602	OHX	1	0
92	5	3604	OHX	2	0
92	5	3605	OHX	2	0
92	5	3606	OHX	2	0
92	5	3608	OHX	1	0
92	5	3609	OHX	2	0
92	5	3612	OHX	1	0
92	5	3617	OHX	1	0
92	5	3622	OHX	1	0
92	5	3625	OHX	3	0
92	5	3627	OHX	3	0
92	5	3628	OHX	2	0
92	5	3633	OHX	1	0
92	5	3634	OHX	4	0
92	5	3635	OHX	1	0
92	5	3637	OHX	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3638	OHX	1	0
92	5	3640	OHX	4	0
92	5	3641	OHX	1	0
92	5	3643	OHX	3	0
92	5	3645	OHX	1	0
92	5	3646	OHX	2	0
92	5	3649	OHX	2	0
92	5	3652	OHX	1	0
92	5	3653	OHX	1	0
92	5	3655	OHX	1	0
92	5	3656	OHX	1	0
92	5	3658	OHX	2	0
92	5	3659	OHX	1	0
92	5	3660	OHX	1	0
92	5	3662	OHX	2	0
92	5	3663	OHX	1	0
92	5	3670	OHX	1	0
92	5	3671	OHX	6	0
92	5	3675	OHX	2	0
92	5	3677	OHX	1	0
92	5	3681	OHX	1	0
92	5	3683	OHX	2	0
92	5	3686	OHX	2	0
92	5	3687	OHX	2	0
92	5	3688	OHX	2	0
92	5	3692	OHX	5	0
92	5	3694	OHX	5	0
92	5	3696	OHX	1	0
92	5	3698	OHX	1	0
92	5	3700	OHX	2	0
92	5	3702	OHX	8	0
92	5	3703	OHX	7	0
92	5	3705	OHX	3	0
92	5	3706	OHX	5	0
92	5	3712	OHX	1	0
92	5	3718	OHX	3	0
92	5	3721	OHX	8	0
92	5	3724	OHX	4	0
92	5	3725	OHX	1	0
92	5	3727	OHX	1	0
92	5	3729	OHX	2	0
92	5	3730	OHX	3	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3731	OHX	1	0
92	5	3732	OHX	1	0
92	5	3733	OHX	1	0
92	5	3734	OHX	1	0
92	5	3738	OHX	1	0
92	5	3740	OHX	3	0
92	5	3742	OHX	1	0
92	5	3744	OHX	1	0
92	5	3745	OHX	1	0
92	5	3746	OHX	1	0
92	5	3747	OHX	2	0
92	6	1906	OHX	1	0
92	6	1908	OHX	1	0
92	6	1910	OHX	1	0
92	6	1911	OHX	2	0
92	6	1913	OHX	1	0
92	6	1914	OHX	4	0
92	6	1915	OHX	1	0
92	6	1916	OHX	1	0
92	6	1917	OHX	1	0
92	6	1920	OHX	3	0
92	6	1921	OHX	3	0
92	6	1923	OHX	1	0
92	6	1925	OHX	1	0
92	6	1927	OHX	3	0
92	6	1929	OHX	2	0
92	6	1934	OHX	1	0
92	6	1938	OHX	4	0
92	6	1939	OHX	1	0
92	6	1943	OHX	1	0
92	6	1944	OHX	1	0
92	6	1948	OHX	2	0
92	6	1949	OHX	1	0
92	6	1950	OHX	1	0
92	6	1951	OHX	3	0
92	6	1952	OHX	2	0
92	6	1953	OHX	1	0
92	6	1955	OHX	3	0
92	6	1956	OHX	2	0
92	6	1957	OHX	1	0
92	6	1960	OHX	1	0
92	6	1962	OHX	3	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	6	1965	OHX	1	0
92	6	1968	OHX	1	0
92	6	1970	OHX	2	0
92	6	1973	OHX	1	0
92	6	1976	OHX	2	0
92	6	1978	OHX	4	0
92	6	1982	OHX	1	0
92	6	1988	OHX	1	0
92	6	1990	OHX	1	0
92	6	1994	OHX	2	0
92	6	1995	OHX	1	0
92	6	1996	OHX	2	0
92	6	1998	OHX	4	0
92	6	1999	OHX	1	0
92	6	2000	OHX	1	0
92	6	2001	OHX	4	0
92	6	2005	OHX	3	0
92	6	2007	OHX	1	0
92	6	2012	OHX	2	0
92	6	2016	OHX	3	0
92	6	2017	OHX	1	0
92	6	2018	OHX	3	0
92	6	2022	OHX	1	0
92	6	2023	OHX	1	0
92	6	2030	OHX	2	0
92	6	2031	OHX	2	0
92	6	2032	OHX	1	0
92	6	2033	OHX	2	0
92	6	2034	OHX	2	0
92	6	2038	OHX	2	0
92	6	2039	OHX	3	0
92	6	2046	OHX	1	0
92	6	2048	OHX	4	0
92	6	2049	OHX	3	0
92	6	2052	OHX	1	0
92	6	2053	OHX	1	0
92	6	2058	OHX	4	0
92	7	202	OHX	1	0
92	7	205	OHX	2	0
92	7	208	OHX	1	0
92	7	209	OHX	6	0
92	8	201	OHX	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	8	202	OHX	1	0
92	8	203	OHX	1	0
92	8	205	OHX	1	0
92	8	206	OHX	1	0
92	8	208	OHX	2	0
92	8	210	OHX	3	0
92	8	216	OHX	1	0
92	C3	201	OHX	6	0
92	C5	201	OHX	4	0
92	C7	201	OHX	2	0
92	D9	102	OHX	1	0
92	L3	402	OHX	3	0
92	L4	401	OHX	3	0
92	L6	202	OHX	2	0
92	M0	301	OHX	2	0
92	M5	301	OHX	1	0
92	M5	302	OHX	1	0
92	M6	201	OHX	1	0
92	M7	201	OHX	1	0
92	M8	201	OHX	1	0
92	M9	201	OHX	2	0
92	O3	201	OHX	3	0
92	O7	102	OHX	7	0
92	O9	101	OHX	2	0
98	P	101	8AN	28	0
92	Q2	502	OHX	4	0
92	S8	301	OHX	3	0
92	S9	201	OHX	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
36	1	3
85	5	3
87	m2	2

Continued on next page...

Continued from previous page...

Mol	Chain	Number of breaks
84	sM	2
41	l4	2
1	2	2
35	SM	1
10	S8	1
68	O2	1
89	p0	1
19	C7	1
81	c0	1
40	l3	1
13	C1	1
6	S4	1
57	n1	1
82	c7	1
10	s8	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	1781:U	O3'	1782:C	P	145.43
1	sM	85:SER	C	119:UNK	N	43.83
1	sM	139:UNK	C	155:UNK	N	38.91
1	1	1955:U	O3'	2093:A	P	25.58
1	SM	141:ALA	C	151:UNK	N	25.40
1	s8	123:LYS	C	135:LYS	N	21.59
1	S8	123:LYS	C	135:LYS	N	19.74
1	5	2444:C	O3'	2503:G	P	19.59
1	2	658:C	O3'	659:G	P	18.47
1	5	1953:G	O3'	2093:A	P	16.42
1	5	443:G	O3'	491:C	P	16.33
1	1	2445:A	O3'	2501:U	P	14.71
1	1	440:A	O3'	494:G	P	13.75
1	p0	107:ALA	C	184:GLY	N	8.24
1	c0	84:UNK	C	87:UNK	N	7.95
1	C7	89:SER	C	95:ARG	N	4.01
1	m2	52:UNK	C	54:UNK	N	3.57
1	m2	23:UNK	C	28:UNK	N	3.35
1	c7	90:ALA	C	95:ARG	N	2.92
1	C1	15:LYS	C	16:GLN	N	1.20
1	l4	222:VAL	C	223:PRO	N	1.20
1	n1	51:GLY	C	52:MET	N	1.20
1	O2	3:SER	C	4:LEU	N	1.19
1	l3	168:LYS	C	169:THR	N	1.14

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I4	299:ILE	C	300:ARG	N	1.12
1	S4	82:TYR	C	83:PRO	N	1.03

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	2	1781/1812 (98%)	0.53	125 (7%) 17 15	60, 89, 120, 149	0
2	S0	206/206 (100%)	1.31	51 (24%) 1 1	93, 99, 105, 107	0
2	s0	206/206 (100%)	0.53	17 (8%) 12 12	77, 83, 89, 90	0
3	S1	214/216 (99%)	0.52	10 (4%) 32 26	95, 106, 113, 113	0
3	s1	216/216 (100%)	0.56	11 (5%) 29 23	70, 75, 81, 84	0
4	S2	217/217 (100%)	1.26	54 (24%) 1 1	81, 88, 96, 99	0
4	s2	217/217 (100%)	0.85	30 (13%) 3 4	67, 73, 79, 81	0
5	S3	223/223 (100%)	1.26	49 (21%) 1 1	85, 96, 110, 115	0
5	s3	223/223 (100%)	1.36	61 (27%) 1 1	91, 102, 113, 114	0
6	S4	260/260 (100%)	0.85	24 (9%) 10 10	75, 88, 91, 93	0
6	s4	260/260 (100%)	0.42	7 (2%) 55 46	59, 73, 78, 80	0
7	S5	206/206 (100%)	1.35	54 (26%) 1 1	97, 105, 111, 113	0
7	s5	206/206 (100%)	0.87	43 (20%) 1 1	90, 95, 101, 103	0
8	S6	226/226 (100%)	0.82	32 (14%) 3 4	62, 76, 96, 101	0
8	s6	218/226 (96%)	0.90	37 (16%) 2 2	55, 63, 82, 86	0
9	S7	184/186 (98%)	0.49	13 (7%) 17 15	92, 102, 108, 109	0
9	s7	186/186 (100%)	0.02	3 (1%) 72 64	75, 90, 101, 104	0
10	S8	188/188 (100%)	1.02	26 (13%) 3 4	72, 78, 92, 95	0
10	s8	188/188 (100%)	0.66	18 (9%) 9 9	57, 68, 89, 95	0
11	S9	185/185 (100%)	1.02	32 (17%) 2 2	81, 89, 99, 103	0
11	s9	185/185 (100%)	0.10	3 (1%) 72 64	63, 74, 82, 84	0
12	C0	83/96 (86%)	0.60	7 (8%) 12 12	94, 100, 105, 107	0
13	C1	146/155 (94%)	1.14	27 (18%) 1 2	75, 79, 85, 89	0
13	c1	146/155 (94%)	0.38	6 (4%) 38 31	62, 67, 81, 92	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
14	C2	119/124 (95%)	1.43	35 (29%) 1 1	111, 116, 118, 119	0
14	c2	119/124 (95%)	1.47	32 (26%) 1 1	133, 142, 148, 149	0
15	C3	150/150 (100%)	0.38	9 (6%) 23 19	80, 88, 92, 94	0
15	c3	150/150 (100%)	-0.01	2 (1%) 77 69	65, 75, 80, 82	0
16	C4	127/128 (99%)	0.34	10 (7%) 13 13	82, 105, 111, 112	0
16	c4	128/128 (100%)	0.78	13 (10%) 7 8	63, 74, 79, 80	0
17	C5	122/135 (90%)	0.43	4 (3%) 47 39	80, 90, 96, 101	0
17	c5	125/135 (92%)	0.30	7 (5%) 25 21	65, 91, 98, 100	0
18	C6	141/142 (99%)	2.04	69 (48%) 0 0	88, 105, 109, 110	0
18	c6	142/142 (100%)	1.40	38 (26%) 1 1	90, 98, 102, 104	0
19	C7	120/120 (100%)	1.42	38 (31%) 0 0	98, 104, 108, 109	0
20	C8	145/145 (100%)	0.55	7 (4%) 31 25	83, 95, 107, 110	0
20	c8	145/145 (100%)	0.36	8 (5%) 26 21	69, 86, 93, 97	0
21	C9	143/143 (100%)	1.25	31 (21%) 1 1	92, 101, 106, 108	0
21	c9	143/143 (100%)	0.42	9 (6%) 21 17	87, 92, 96, 98	0
22	D0	107/110 (97%)	0.94	19 (17%) 2 2	87, 100, 105, 106	0
22	d0	110/110 (100%)	1.86	43 (39%) 0 0	92, 104, 110, 111	0
23	D1	87/87 (100%)	0.79	16 (18%) 1 2	90, 94, 102, 106	0
23	d1	87/87 (100%)	0.53	5 (5%) 24 20	74, 78, 86, 89	0
24	D2	129/129 (100%)	1.23	27 (20%) 1 1	82, 88, 92, 98	0
24	d2	129/129 (100%)	0.22	0 100 100	67, 73, 75, 76	0
25	D3	144/144 (100%)	0.29	5 (3%) 44 38	71, 76, 79, 80	0
25	d3	144/144 (100%)	0.07	2 (1%) 75 67	57, 59, 64, 66	0
26	D4	134/134 (100%)	0.27	3 (2%) 62 53	76, 88, 92, 94	0
26	d4	134/134 (100%)	0.04	4 (2%) 51 42	60, 71, 74, 76	0
27	D5	70/70 (100%)	0.68	10 (14%) 3 4	104, 108, 111, 112	0
27	d5	69/70 (98%)	0.45	5 (7%) 16 14	93, 97, 100, 101	0
28	D6	97/97 (100%)	1.75	38 (39%) 0 0	84, 91, 112, 113	0
28	d6	97/97 (100%)	1.67	34 (35%) 0 0	65, 72, 81, 83	0
29	D7	81/81 (100%)	1.13	14 (17%) 2 2	90, 94, 99, 100	0
29	d7	81/81 (100%)	0.67	4 (4%) 30 24	74, 80, 88, 89	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
30	D8	63/63 (100%)	2.13	34 (53%) 0 0	98, 107, 112, 113	0
30	d8	63/63 (100%)	2.20	33 (52%) 0 0	90, 95, 99, 100	0
31	D9	53/53 (100%)	0.32	2 (3%) 41 35	89, 91, 96, 97	0
31	d9	53/53 (100%)	1.23	14 (26%) 1 1	93, 97, 113, 120	0
32	E0	60/62 (96%)	0.85	8 (13%) 4 5	72, 87, 97, 101	0
32	e0	62/62 (100%)	0.24	5 (8%) 13 12	58, 72, 77, 80	0
33	E1	71/76 (93%)	0.61	8 (11%) 6 7	92, 108, 113, 113	0
33	e1	76/76 (100%)	1.04	16 (21%) 1 1	99, 127, 139, 140	0
34	SR	318/318 (100%)	1.24	77 (24%) 1 1	104, 111, 118, 122	0
35	SM	121/159 (76%)	1.02	18 (14%) 3 3	55, 83, 96, 98	0
36	1	3149/3149 (100%)	0.08	53 (1%) 70 62	31, 49, 82, 154	0
37	3	121/121 (100%)	-0.23	0 100 100	41, 59, 64, 65	0
37	7	121/121 (100%)	-0.30	1 (0%) 86 79	36, 47, 51, 54	0
38	4	158/158 (100%)	-0.09	1 (0%) 89 84	33, 45, 63, 84	0
38	8	158/158 (100%)	-0.05	1 (0%) 89 84	37, 49, 68, 76	0
39	L2	252/252 (100%)	0.24	3 (1%) 79 71	40, 52, 61, 73	0
39	l2	252/252 (100%)	0.08	4 (1%) 72 64	39, 53, 62, 66	0
40	L3	386/386 (100%)	-0.25	2 (0%) 90 86	38, 50, 58, 62	0
40	l3	386/386 (100%)	-0.37	1 (0%) 93 90	32, 39, 47, 58	0
41	L4	361/361 (100%)	-0.35	0 100 100	31, 37, 47, 51	0
41	l4	361/361 (100%)	-0.30	0 100 100	33, 41, 48, 58	0
42	L5	296/296 (100%)	0.56	26 (8%) 11 11	50, 60, 67, 69	0
42	l5	294/296 (99%)	-0.03	3 (1%) 82 75	43, 49, 57, 66	0
43	L6	156/175 (89%)	-0.38	0 100 100	38, 46, 49, 55	0
43	l6	157/175 (89%)	-0.34	0 100 100	40, 46, 49, 52	0
44	L7	222/223 (99%)	-0.16	0 100 100	36, 40, 48, 50	0
44	l7	223/223 (100%)	-0.34	0 100 100	34, 38, 48, 54	0
45	L8	233/233 (100%)	0.19	5 (2%) 64 55	54, 60, 74, 77	0
46	L9	191/191 (100%)	0.19	5 (2%) 56 47	48, 51, 53, 59	0
46	l9	191/191 (100%)	0.12	2 (1%) 82 75	39, 44, 52, 63	0
47	M0	211/220 (95%)	-0.16	0 100 100	39, 48, 61, 66	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
47	m0	213/220 (96%)	0.08	6 (2%) 53 45	36, 42, 57, 67	0
48	M1	169/169 (100%)	0.71	15 (8%) 10 10	57, 67, 73, 76	0
48	m1	169/169 (100%)	-0.29	0 100 100	44, 54, 59, 63	0
49	M3	193/194 (99%)	-0.06	1 (0%) 90 86	33, 46, 59, 74	0
49	m3	194/194 (100%)	-0.11	2 (1%) 82 75	35, 50, 61, 70	0
50	M4	136/137 (99%)	-0.27	2 (1%) 74 66	45, 49, 54, 56	0
50	m4	137/137 (100%)	-0.40	0 100 100	39, 43, 53, 60	0
51	M5	203/203 (100%)	0.03	0 100 100	35, 46, 54, 56	0
51	m5	203/203 (100%)	-0.03	1 (0%) 90 86	38, 50, 57, 59	0
52	M6	197/197 (100%)	-0.17	1 (0%) 90 86	39, 42, 50, 52	0
52	m6	197/197 (100%)	-0.37	0 100 100	32, 36, 49, 50	0
53	M7	183/183 (100%)	0.00	9 (4%) 30 24	38, 43, 58, 62	0
53	m7	155/183 (84%)	-0.38	0 100 100	34, 37, 40, 43	0
54	M8	185/185 (100%)	-0.00	0 100 100	36, 44, 54, 61	0
54	m8	185/185 (100%)	-0.05	0 100 100	35, 44, 48, 50	0
55	M9	188/188 (100%)	0.14	7 (3%) 42 35	49, 61, 103, 111	0
55	m9	188/188 (100%)	-0.09	0 100 100	43, 55, 98, 106	0
56	N0	172/172 (100%)	0.58	16 (9%) 9 10	42, 46, 51, 53	0
56	n0	172/172 (100%)	-0.17	1 (0%) 89 84	36, 39, 44, 48	0
57	N1	159/159 (100%)	0.30	4 (2%) 58 48	40, 47, 56, 57	0
57	n1	159/159 (100%)	0.28	1 (0%) 89 84	36, 42, 53, 55	0
58	N2	100/100 (100%)	0.36	6 (6%) 23 19	65, 69, 72, 73	0
58	n2	98/100 (98%)	0.14	3 (3%) 49 41	56, 59, 60, 61	0
59	N3	136/136 (100%)	-0.01	2 (1%) 74 66	43, 49, 52, 54	0
59	n3	136/136 (100%)	-0.05	0 100 100	33, 37, 41, 43	0
60	N4	98/98 (100%)	1.74	31 (31%) 0 0	49, 59, 89, 91	0
61	N5	121/121 (100%)	0.11	1 (0%) 86 79	43, 45, 62, 72	0
61	n5	120/121 (99%)	0.02	1 (0%) 86 79	44, 48, 65, 67	0
62	N6	126/126 (100%)	-0.10	1 (0%) 86 79	35, 41, 44, 45	0
62	n6	126/126 (100%)	-0.25	0 100 100	38, 45, 49, 50	0
63	N7	135/135 (100%)	0.48	7 (5%) 28 23	62, 67, 76, 79	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
63	n7	135/135 (100%)	0.40	6 (4%) 35 28	65, 71, 78, 83	0
64	N8	148/148 (100%)	-0.08	0 100 100	31, 43, 50, 57	0
64	n8	148/148 (100%)	-0.05	1 (0%) 87 82	31, 45, 48, 50	0
65	N9	58/58 (100%)	0.14	0 100 100	36, 49, 66, 71	0
65	n9	58/58 (100%)	0.17	2 (3%) 46 38	34, 45, 52, 53	0
66	O0	97/100 (97%)	0.05	3 (3%) 49 41	60, 64, 70, 71	0
66	o0	100/100 (100%)	0.36	3 (3%) 51 42	61, 66, 73, 75	0
67	O1	109/109 (100%)	0.17	0 100 100	51, 55, 59, 67	0
67	o1	109/109 (100%)	0.08	2 (1%) 69 60	41, 43, 47, 49	0
68	O2	127/127 (100%)	-0.28	0 100 100	32, 39, 41, 43	0
68	o2	127/127 (100%)	-0.26	0 100 100	31, 40, 43, 45	0
69	O3	106/106 (100%)	-0.26	0 100 100	37, 42, 50, 52	0
69	o3	106/106 (100%)	-0.15	0 100 100	34, 40, 50, 51	0
70	O4	112/112 (100%)	0.45	3 (2%) 55 46	47, 60, 70, 73	0
70	o4	112/112 (100%)	0.45	2 (1%) 69 60	46, 62, 70, 72	0
71	O5	119/119 (100%)	-0.07	0 100 100	42, 44, 56, 58	0
71	o5	119/119 (100%)	-0.25	0 100 100	46, 48, 60, 64	0
72	O6	99/99 (100%)	-0.18	2 (2%) 65 57	44, 54, 62, 66	0
72	o6	99/99 (100%)	-0.32	0 100 100	48, 57, 62, 66	0
73	O7	87/87 (100%)	0.02	1 (1%) 80 72	35, 41, 46, 49	0
73	o7	87/87 (100%)	0.14	2 (2%) 61 51	37, 42, 51, 58	0
74	O8	77/77 (100%)	-0.40	0 100 100	57, 60, 66, 66	0
74	o8	77/77 (100%)	0.49	3 (3%) 40 33	59, 63, 66, 68	0
75	O9	50/50 (100%)	-0.03	0 100 100	40, 42, 44, 45	0
75	o9	50/50 (100%)	0.12	0 100 100	40, 44, 46, 49	0
76	Q0	52/52 (100%)	-0.16	1 (1%) 67 59	46, 49, 50, 52	0
76	q0	52/52 (100%)	-0.35	0 100 100	38, 39, 43, 45	0
77	Q1	25/25 (100%)	-0.14	0 100 100	60, 70, 78, 78	0
77	q1	25/25 (100%)	-0.39	0 100 100	49, 56, 59, 60	0
78	Q2	105/105 (100%)	0.55	9 (8%) 11 11	38, 49, 58, 66	0
78	q2	105/105 (100%)	0.55	7 (6%) 19 16	37, 44, 49, 57	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
79	Q3	91/91 (100%)	0.22	2 (2%) 62 53	49, 53, 57, 58	0
79	q3	91/91 (100%)	0.04	2 (2%) 62 53	45, 53, 60, 64	0
80	6	1795/1800 (99%)	0.39	114 (6%) 20 17	46, 75, 111, 134	0
81	c0	79/96 (82%)	1.21	16 (20%) 1 1	105, 116, 121, 122	0
82	c7	117/121 (96%)	0.73	15 (12%) 4 5	86, 94, 99, 100	0
83	sR	318/318 (100%)	1.40	92 (28%) 1 1	90, 107, 111, 114	0
84	sM	63/104 (60%)	0.46	6 (9%) 9 9	45, 78, 89, 91	0
85	5	3150/3150 (100%)	0.08	44 (1%) 75 67	31, 45, 82, 107	0
86	l8	225/231 (97%)	0.18	9 (4%) 39 32	58, 64, 78, 81	0
87	m2	0/150	-	-	-	-
88	n4	135/135 (100%)	0.85	29 (21%) 1 1	37, 62, 81, 82	0
89	p0	120/143 (83%)	1.18	24 (20%) 1 1	78, 91, 98, 104	0
90	p1	0/47	-	-	-	-
90	p2	0/47	-	-	-	-
91	P	2/5 (40%)	-0.07	0 100 100	38, 38, 38, 40	0
91	p	2/5 (40%)	0.79	0 100 100	34, 34, 34, 38	0
All	All	32929/33525 (98%)	0.32	2121 (6%) 20 17	31, 60, 107, 154	0

All (2121) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
60	N4	88	ASP	11.4
1	2	1807	C	11.2
1	2	1805	C	10.2
1	2	1789	A	9.6
60	N4	75	THR	9.5
1	2	1782	C	9.5
1	2	1804	U	9.3
60	N4	70	LYS	8.8
13	C1	147	ALA	8.7
1	2	1795	G	8.6
1	2	1794	G	8.6
80	6	662	U	8.5
7	S5	37	GLN	8.2
60	N4	76	VAL	7.7
7	S5	152	GLY	7.6
80	6	663	U	7.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2	1790	A	7.5
1	2	1806	U	7.5
60	N4	90	ILE	7.4
1	2	1796	C	7.3
5	s3	151	LYS	7.3
13	C1	146	ALA	7.3
4	s2	92	ALA	7.2
14	c2	30	VAL	7.1
7	s5	37	GLN	7.1
36	1	1568	U	7.1
4	s2	90	THR	7.0
7	S5	71	ALA	6.9
83	sR	121	MET	6.9
14	c2	123	VAL	6.9
1	2	1798	A	6.7
1	2	1793	G	6.7
32	E0	53	LYS	6.6
21	C9	5	SER	6.6
14	c2	114	LYS	6.6
1	2	1808	A	6.5
1	2	1788	G	6.5
2	S0	97	PRO	6.5
60	N4	87	LEU	6.5
1	2	698	U	6.4
13	C1	145	ALA	6.4
30	D8	21	SER	6.3
8	s6	169	TYR	6.3
80	6	664	U	6.2
83	sR	168	THR	6.2
56	N0	1	MET	6.2
5	s3	118	ALA	6.2
18	c6	19	VAL	6.2
18	C6	20	ALA	6.1
1	2	1783	U	6.0
5	s3	148	LYS	6.0
80	6	678	A	6.0
60	N4	81	PRO	6.0
80	6	656	G	6.0
47	m0	221	ALA	5.9
1	2	1809	G	5.9
35	SM	88	ARG	5.8
5	s3	153	ALA	5.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
28	D6	94	ASN	5.8
85	5	1567	U	5.8
60	N4	86	SER	5.8
1	2	1800	U	5.7
80	6	676	G	5.7
36	1	1571	A	5.7
32	e0	63	GLN	5.7
60	N4	95	SER	5.6
80	6	668	C	5.6
18	c6	17	THR	5.6
1	2	1792	G	5.6
5	s3	145	ALA	5.6
34	SR	262	VAL	5.6
18	C6	17	THR	5.6
85	5	1569	U	5.6
1	2	1778	U	5.6
6	s4	184	THR	5.5
5	s3	144	ALA	5.5
35	SM	85	SER	5.5
1	2	1801	C	5.5
7	s5	68	ILE	5.5
14	c2	63	VAL	5.5
18	C6	21	HIS	5.5
1	2	697	G	5.4
14	C2	57	ALA	5.4
80	6	658	C	5.4
60	N4	82	ILE	5.4
1	2	1803	A	5.4
16	C4	15	GLY	5.3
22	d0	64	LYS	5.3
5	S3	88	ALA	5.3
22	d0	115	GLU	5.3
60	N4	74	LYS	5.3
8	s6	167	LYS	5.3
60	N4	77	LYS	5.3
80	6	1711	C	5.2
1	2	135	A	5.2
80	6	659	C	5.2
28	D6	49	ALA	5.2
32	E0	54	ARG	5.2
22	d0	100	VAL	5.2
5	S3	148	LYS	5.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	S0	98	ILE	5.2
36	1	1567	U	5.2
7	S5	153	GLY	5.2
35	SM	22	PRO	5.2
11	S9	181	ALA	5.2
14	c2	136	ILE	5.1
34	SR	81	LEU	5.1
78	Q2	106	PHE	5.1
1	2	1791	G	5.1
88	n4	68	ALA	5.1
83	sR	253	ALA	5.1
2	S0	196	SER	5.1
1	2	696	A	5.1
83	sR	245	PHE	5.1
1	2	896	G	5.0
36	1	1570	U	5.0
1	2	1786	G	5.0
1	2	1787	A	5.0
83	sR	82	SER	5.0
1	2	1799	C	5.0
14	C2	141	SER	5.0
29	D7	49	HIS	5.0
83	sR	186	PHE	5.0
80	6	1700	C	4.9
80	6	675	U	4.9
11	S9	97	LEU	4.9
21	C9	6	VAL	4.9
5	s3	33	GLY	4.9
13	C1	2	SER	4.9
85	5	2539	C	4.9
2	S0	131	GLN	4.9
18	C6	66	ARG	4.9
14	C2	62	LEU	4.9
30	D8	43	ASN	4.9
80	6	1710	U	4.8
4	s2	87	GLN	4.8
9	s7	52	ALA	4.8
33	e1	145	HIS	4.8
18	C6	28	LEU	4.8
28	D6	93	LYS	4.8
1	2	701	U	4.8
78	Q2	102	GLN	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
88	n4	83	THR	4.8
30	D8	16	LEU	4.8
1	2	238	U	4.7
18	C6	11	GLY	4.7
14	c2	29	LYS	4.7
85	5	2503	G	4.7
53	M7	166	VAL	4.7
13	C1	72	THR	4.7
28	d6	98	PRO	4.7
7	S5	86	GLN	4.7
83	sR	46	LYS	4.7
18	C6	16	ALA	4.7
80	6	1712	A	4.6
9	S7	80	GLU	4.6
60	N4	93	ARG	4.6
8	s6	147	LEU	4.6
80	6	1800	A	4.6
34	SR	106	HIS	4.6
19	C7	71	PHE	4.6
5	s3	136	VAL	4.5
34	SR	212	ALA	4.5
5	S3	143	ARG	4.5
60	N4	67	VAL	4.5
80	6	1702	A	4.5
36	1	1572	U	4.5
18	C6	54	LEU	4.5
18	C6	70	THR	4.5
30	D8	15	VAL	4.5
83	sR	72	THR	4.5
84	sM	23	LYS	4.5
7	S5	151	GLY	4.5
83	sR	202	LEU	4.5
28	d6	69	ASN	4.5
5	s3	137	VAL	4.5
5	s3	123	VAL	4.5
83	sR	205	SER	4.5
55	M9	186	LYS	4.5
22	d0	18	GLN	4.5
28	D6	85	ARG	4.5
7	S5	70	VAL	4.5
36	1	252	U	4.5
4	s2	96	THR	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
8	S6	170	THR	4.5
53	M7	167	ARG	4.4
14	c2	124	LYS	4.4
89	p0	3	GLY	4.4
7	S5	150	GLY	4.4
6	S4	54	TYR	4.4
34	SR	196	ASN	4.4
7	S5	222	LYS	4.4
13	c1	3	THR	4.4
88	n4	87	LEU	4.4
30	d8	61	ARG	4.4
4	S2	223	GLY	4.4
1	2	239	C	4.4
60	N4	78	ALA	4.4
18	c6	114	ARG	4.4
4	S2	64	LYS	4.4
7	S5	41	LYS	4.4
2	S0	166	GLY	4.4
14	C2	49	THR	4.4
60	N4	94	ARG	4.3
88	n4	84	GLY	4.3
34	SR	79	TYR	4.3
18	C6	8	GLN	4.3
80	6	1707	A	4.3
18	C6	26	LYS	4.3
30	D8	67	ARG	4.3
30	d8	65	ARG	4.3
80	6	718	U	4.3
21	C9	71	VAL	4.3
14	C2	138	GLU	4.3
36	1	2539	C	4.3
27	D5	48	ASP	4.3
36	1	1569	U	4.3
2	S0	199	PRO	4.3
18	C6	39	VAL	4.3
5	S3	87	TYR	4.3
42	L5	146	LEU	4.3
18	C6	29	ILE	4.3
83	sR	104	VAL	4.3
28	D6	2	PRO	4.3
18	c6	7	VAL	4.2
5	s3	134	CYS	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
5	s3	152	PHE	4.2
83	sR	252	LEU	4.2
1	2	1779	C	4.2
28	D6	80	HIS	4.2
14	C2	85	LYS	4.2
26	d4	133	ASN	4.2
5	S3	142	LEU	4.2
34	SR	254	ALA	4.2
80	6	669	G	4.2
24	D2	73	GLY	4.2
33	E1	151	ASN	4.2
80	6	665	U	4.2
28	d6	84	VAL	4.2
30	D8	48	VAL	4.2
2	S0	198	MET	4.2
5	S3	190	ARG	4.2
1	2	656	G	4.2
13	C1	3	THR	4.2
34	SR	284	ALA	4.2
30	D8	44	VAL	4.2
35	SM	89	ARG	4.2
30	d8	67	ARG	4.1
19	C7	123	ASN	4.1
36	1	1259	A	4.1
36	1	1955	U	4.1
11	S9	105	LEU	4.1
5	S3	54	ARG	4.1
1	2	261	U	4.1
19	C7	60	ARG	4.1
36	1	1762	C	4.1
83	sR	134	TRP	4.1
6	s4	183	VAL	4.1
7	S5	164	PRO	4.1
29	D7	38	PRO	4.1
5	s3	176	LEU	4.1
80	6	677	G	4.1
5	s3	208	ILE	4.1
22	d0	121	ASN	4.1
80	6	232	U	4.1
81	c0	22	VAL	4.1
24	D2	85	ASP	4.1
1	2	260	U	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	D8	45	LYS	4.0
5	s3	150	MET	4.0
1	2	134	U	4.0
31	d9	52	PHE	4.0
60	N4	92	GLU	4.0
23	D1	34	ILE	4.0
20	c8	18	LEU	4.0
22	d0	102	ARG	4.0
80	6	655	G	4.0
80	6	679	U	4.0
16	C4	16	VAL	4.0
83	sR	106	HIS	4.0
34	SR	146	GLY	4.0
80	6	239	C	4.0
83	sR	24	ALA	4.0
32	e0	62	VAL	4.0
18	C6	7	VAL	4.0
80	6	1686	C	4.0
80	6	666	U	4.0
5	S3	149	ALA	4.0
30	d8	26	THR	3.9
7	S5	68	ILE	3.9
22	d0	57	ARG	3.9
4	S2	86	VAL	3.9
29	D7	51	GLN	3.9
60	N4	68	ALA	3.9
30	D8	27	GLN	3.9
89	p0	81	LYS	3.9
18	C6	3	ALA	3.9
36	1	1581	C	3.9
18	c6	20	ALA	3.9
28	D6	69	ASN	3.9
81	c0	64	TYR	3.9
28	d6	80	HIS	3.9
2	S0	18	LEU	3.9
4	s2	64	LYS	3.9
7	s5	151	GLY	3.9
11	S9	95	TYR	3.9
85	5	2538	U	3.9
4	s2	84	LYS	3.9
14	C2	32	LEU	3.9
19	C7	38	ILE	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	d5	105	THR	3.9
30	d8	43	ASN	3.9
11	S9	96	VAL	3.9
28	D6	90	GLU	3.9
1	2	1812	C	3.9
34	SR	59	ARG	3.9
13	C1	144	ALA	3.9
18	C6	52	LEU	3.9
80	6	1693	A	3.9
85	5	1566	A	3.9
24	D2	70	ASN	3.9
35	SM	21	PRO	3.9
35	SM	110	TRP	3.9
33	e1	85	TYR	3.9
46	l9	191	LEU	3.9
83	sR	180	ALA	3.9
88	n4	65	GLU	3.9
8	S6	149	LYS	3.9
14	c2	105	LYS	3.9
28	d6	45	VAL	3.9
19	C7	86	PRO	3.9
28	D6	98	PRO	3.9
5	s3	135	GLU	3.8
5	S3	139	SER	3.8
14	C2	41	LEU	3.8
18	C6	96	TYR	3.8
1	2	702	U	3.8
2	S0	107	PHE	3.8
83	sR	172	ALA	3.8
14	C2	111	ASN	3.8
88	n4	82	ILE	3.8
56	N0	74	ASN	3.8
58	N2	27	VAL	3.8
60	N4	89	LEU	3.8
28	D6	8	ASN	3.8
33	E1	152	ALA	3.8
11	S9	186	GLU	3.8
30	D8	28	VAL	3.8
88	n4	94	ARG	3.8
7	s5	62	VAL	3.8
11	S9	60	LEU	3.8
8	s6	164	LYS	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
11	S9	5	PRO	3.8
28	d6	73	TYR	3.8
80	6	719	U	3.8
29	D7	33	LEU	3.8
30	d8	15	VAL	3.8
58	N2	89	LEU	3.8
83	sR	303	ALA	3.8
1	2	143	G	3.8
28	D6	55	GLU	3.8
31	d9	56	ARG	3.8
53	M7	174	GLY	3.8
78	Q2	104	LEU	3.8
18	C6	6	SER	3.8
80	6	1694	A	3.8
1	2	1781	U	3.8
22	D0	92	ASP	3.7
7	s5	165	LEU	3.7
18	C6	57	LEU	3.7
34	SR	35	SER	3.7
34	SR	36	ALA	3.7
7	S5	66	GLN	3.7
1	2	1780	A	3.7
34	SR	45	TRP	3.7
28	D6	52	ASP	3.7
80	6	661	A	3.7
60	N4	84	GLY	3.7
19	C7	8	THR	3.7
22	d0	67	THR	3.7
5	S3	150	MET	3.7
1	2	1797	A	3.7
4	s2	97	ARG	3.7
14	C2	112	ALA	3.7
18	C6	14	LYS	3.7
18	C6	95	LYS	3.7
8	s6	170	THR	3.7
20	c8	146	ALA	3.7
1	2	699	C	3.7
34	SR	44	SER	3.7
83	sR	83	ALA	3.7
21	C9	141	GLU	3.7
22	d0	93	LEU	3.7
80	6	1799	U	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
83	sR	123	ILE	3.7
1	2	1271	G	3.7
22	d0	114	VAL	3.7
8	s6	158	ILE	3.7
78	Q2	99	GLN	3.7
31	d9	4	GLU	3.7
17	c5	50	THR	3.7
34	SR	115	ILE	3.7
83	sR	36	ALA	3.7
14	C2	86	VAL	3.7
19	C7	85	VAL	3.7
28	D6	44	ILE	3.7
5	S3	116	ARG	3.7
66	o0	105	ALA	3.7
60	N4	69	LYS	3.7
80	6	1699	G	3.7
5	S3	153	ALA	3.7
17	c5	85	ILE	3.6
17	c5	132	GLY	3.6
18	C6	51	PRO	3.6
32	E0	49	LEU	3.6
4	s2	88	LYS	3.6
5	s3	209	ILE	3.6
21	C9	4	VAL	3.6
83	sR	10	ARG	3.6
2	S0	201	LEU	3.6
4	s2	91	ARG	3.6
28	d6	49	ALA	3.6
88	n4	85	ALA	3.6
19	C7	59	LYS	3.6
30	d8	9	LEU	3.6
30	d8	55	VAL	3.6
19	C7	53	TYR	3.6
81	c0	71	GLU	3.6
85	5	1349	G	3.6
5	s3	187	LYS	3.6
8	s6	33	GLY	3.6
2	S0	203	PHE	3.6
5	s3	195	SER	3.6
18	C6	55	VAL	3.6
35	SM	84	LYS	3.6
80	6	1059	U	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2	136	C	3.6
13	c1	2	SER	3.6
7	s5	152	GLY	3.6
34	SR	7	LEU	3.6
22	d0	81	THR	3.6
19	C7	24	LEU	3.6
83	sR	183	LEU	3.6
23	D1	65	SER	3.6
18	C6	44	LEU	3.6
5	S3	50	ILE	3.5
11	S9	184	SER	3.5
4	S2	97	ARG	3.5
18	C6	64	ASP	3.5
80	6	240	U	3.5
30	d8	56	LEU	3.5
28	D6	92	ARG	3.5
36	1	1579	C	3.5
2	S0	28	ASN	3.5
1	2	194	U	3.5
5	S3	184	ILE	3.5
5	s3	114	ALA	3.5
7	s5	43	PHE	3.5
21	C9	2	PRO	3.5
4	s2	208	GLU	3.5
8	S6	77	LEU	3.5
24	D2	37	PHE	3.5
88	n4	66	GLU	3.5
18	c6	29	ILE	3.5
88	n4	67	VAL	3.5
13	c1	5	LEU	3.5
18	c6	11	GLY	3.5
33	e1	95	HIS	3.5
83	sR	55	GLY	3.5
80	6	1687	U	3.5
34	SR	2	ALA	3.5
5	s3	159	HIS	3.5
88	n4	95	SER	3.5
18	c6	36	ILE	3.5
60	N4	98	PRO	3.5
30	d8	27	GLN	3.5
81	c0	25	LYS	3.5
6	s4	124	GLY	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	S5	161	ASP	3.5
1	2	131	C	3.5
1	2	1664	A	3.5
1	2	1802	C	3.5
4	S2	190	LEU	3.5
8	s6	131	LYS	3.5
18	C6	116	LEU	3.5
35	SM	105	LYS	3.5
4	S2	66	PHE	3.5
22	D0	87	HIS	3.5
88	n4	90	ILE	3.5
80	6	667	U	3.5
5	s3	157	LEU	3.5
11	S9	185	GLY	3.5
30	D8	62	GLU	3.5
30	d8	63	ALA	3.5
4	S2	151	PRO	3.5
4	S2	154	LEU	3.5
4	s2	95	ARG	3.5
5	S3	217	ILE	3.5
2	S0	138	TYR	3.5
80	6	794	U	3.5
4	S2	90	THR	3.5
16	c4	83	ILE	3.5
21	C9	105	LEU	3.5
14	C2	26	ASP	3.5
5	s3	185	LYS	3.5
8	s6	157	VAL	3.5
14	C2	88	LEU	3.5
28	D6	95	ARG	3.5
30	D8	26	THR	3.5
85	5	252	U	3.5
6	S4	123	LEU	3.4
42	L5	131	LEU	3.4
85	5	1562	C	3.4
8	S6	78	THR	3.4
53	M7	161	ALA	3.4
18	C6	49	TYR	3.4
34	SR	252	LEU	3.4
46	l9	190	ASP	3.4
4	S2	145	GLY	3.4
7	S5	69	PHE	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
88	n4	79	GLN	3.4
23	D1	23	ILE	3.4
4	s2	85	PRO	3.4
5	S3	37	VAL	3.4
7	s5	122	ASN	3.4
10	S8	2	GLY	3.4
11	s9	184	SER	3.4
80	6	1708	U	3.4
6	s4	146	THR	3.4
8	S6	180	THR	3.4
8	s6	168	THR	3.4
33	e1	89	LYS	3.4
17	C5	13	LYS	3.4
18	C6	67	VAL	3.4
34	SR	23	LEU	3.4
82	c7	42	GLN	3.4
18	c6	88	GLY	3.4
4	S2	57	PHE	3.4
31	d9	37	ASN	3.4
83	sR	244	ALA	3.4
8	S6	175	ILE	3.4
19	C7	7	LYS	3.4
10	S8	37	LYS	3.4
60	N4	85	ALA	3.4
60	N4	73	ARG	3.4
5	S3	132	LYS	3.4
22	d0	99	ILE	3.4
28	D6	79	ILE	3.4
10	s8	46	VAL	3.4
28	D6	86	VAL	3.4
34	SR	263	PHE	3.4
80	6	673	A	3.4
48	M1	60	ARG	3.4
30	D8	9	LEU	3.3
10	S8	167	ALA	3.3
73	o7	87	SER	3.3
18	C6	30	LYS	3.3
1	2	700	C	3.3
81	c0	23	ALA	3.3
19	C7	80	ARG	3.3
22	d0	19	ILE	3.3
30	d8	5	THR	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
14	c2	28	LEU	3.3
7	s5	84	LYS	3.3
89	p0	187	VAL	3.3
83	sR	92	TRP	3.3
28	D6	96	ALA	3.3
18	C6	56	GLY	3.3
17	C5	50	THR	3.3
22	D0	93	LEU	3.3
36	1	1764	U	3.3
4	s2	93	GLY	3.3
18	c6	37	THR	3.3
13	C1	92	HIS	3.3
14	c2	121	VAL	3.3
18	C6	92	TYR	3.3
29	D7	47	PHE	3.3
85	5	1570	U	3.3
15	C3	61	THR	3.3
22	d0	107	THR	3.3
39	L2	72	ARG	3.3
5	s3	147	ALA	3.3
34	SR	221	MET	3.3
5	s3	143	ARG	3.3
32	E0	55	ARG	3.3
36	1	1952	G	3.3
80	6	1426	C	3.3
14	C2	80	ASN	3.3
8	s6	161	GLU	3.3
13	C1	59	PRO	3.3
18	C6	88	GLY	3.3
60	N4	83	THR	3.3
85	5	1103	A	3.3
81	c0	78	GLU	3.3
1	2	1784	U	3.3
18	C6	93	HIS	3.3
18	C6	105	LEU	3.3
34	SR	236	ALA	3.3
1	2	712	G	3.3
60	N4	66	GLU	3.3
80	6	235	G	3.3
13	C1	143	SER	3.3
28	D6	81	ALA	3.2
83	sR	107	LYS	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
34	SR	43	ILE	3.2
84	sM	28	SER	3.2
14	C2	78	LEU	3.2
82	c7	25	THR	3.2
2	S0	49	ASN	3.2
29	D7	75	GLU	3.2
18	C6	117	LEU	3.2
22	d0	85	ARG	3.2
56	N0	76	GLY	3.2
4	S2	224	PHE	3.2
34	SR	99	THR	3.2
80	6	652	G	3.2
7	S5	149	VAL	3.2
4	S2	76	LEU	3.2
89	p0	31	ASP	3.2
7	S5	96	SER	3.2
18	c6	80	ALA	3.2
34	SR	211	ILE	3.2
18	c6	3	ALA	3.2
5	S3	221	SER	3.2
7	S5	77	TYR	3.2
85	5	1574	C	3.2
5	S3	135	GLU	3.2
6	S4	199	GLU	3.2
36	1	2205	U	3.2
8	s6	116	LYS	3.2
22	d0	34	LEU	3.2
53	M7	160	ALA	3.2
14	c2	40	GLY	3.2
80	6	754	A	3.2
88	n4	92	GLU	3.2
12	C0	40	LEU	3.2
18	c6	68	ARG	3.2
34	SR	285	ALA	3.2
8	S6	140	ASN	3.2
11	S9	3	ARG	3.2
19	C7	70	SER	3.2
2	S0	152	PRO	3.2
83	sR	66	HIS	3.2
83	sR	125	GLY	3.2
5	S3	22	ASN	3.2
22	D0	121	ASN	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	S0	104	PRO	3.2
4	S2	215	PHE	3.2
4	s2	86	VAL	3.2
83	sR	25	THR	3.2
2	s0	149	LEU	3.2
7	S5	91	GLU	3.2
88	n4	93	ARG	3.2
80	6	506	A	3.2
83	sR	17	ASN	3.2
83	sR	116	ASP	3.2
80	6	75	U	3.2
7	S5	94	THR	3.2
85	5	1581	C	3.2
6	S4	124	GLY	3.2
7	S5	20	PHE	3.2
14	c2	64	SER	3.2
88	n4	81	PRO	3.2
34	SR	32	LEU	3.2
19	C7	18	GLU	3.2
21	C9	9	VAL	3.2
1	2	776	A	3.1
30	d8	17	GLY	3.1
2	S0	22	THR	3.1
3	s1	114	VAL	3.1
36	1	3275	U	3.1
18	C6	65	ILE	3.1
21	C9	72	GLY	3.1
21	C9	132	LEU	3.1
83	sR	310	ILE	3.1
5	S3	216	PRO	3.1
6	S4	208	VAL	3.1
14	c2	115	VAL	3.1
4	S2	222	TYR	3.1
4	S2	144	TRP	3.1
27	d5	87	GLY	3.1
42	L5	130	GLU	3.1
55	M9	181	ARG	3.1
28	D6	11	ASN	3.1
17	c5	104	GLN	3.1
18	C6	50	GLU	3.1
18	c6	44	LEU	3.1
1	2	1667	U	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
18	C6	123	ARG	3.1
30	d8	7	VAL	3.1
28	d6	44	ILE	3.1
3	s1	52	THR	3.1
7	s5	38	THR	3.1
19	C7	74	GLN	3.1
10	S8	123	LYS	3.1
18	c6	51	PRO	3.1
80	6	229	U	3.1
10	S8	148	ALA	3.1
80	6	660	G	3.1
89	p0	86	PHE	3.1
7	S5	181	GLU	3.1
7	S5	25	LEU	3.1
74	o8	73	LEU	3.1
24	D2	53	ILE	3.1
83	sR	302	PHE	3.1
1	2	777	U	3.1
30	d8	64	ARG	3.1
83	sR	294	TRP	3.1
80	6	1692	G	3.1
2	S0	205	ARG	3.1
4	S2	95	ARG	3.1
85	5	1571	A	3.1
21	C9	119	LYS	3.1
22	d0	58	LEU	3.1
34	SR	266	ASP	3.1
22	d0	87	HIS	3.1
22	d0	98	GLN	3.1
1	2	493	U	3.1
4	S2	158	THR	3.1
6	S4	22	LYS	3.1
1	2	1668	G	3.1
1	2	1700	G	3.1
7	S5	60	ASP	3.1
11	S9	94	ASP	3.1
36	1	1580	A	3.1
19	C7	65	PRO	3.1
24	D2	33	VAL	3.1
82	c7	57	LEU	3.1
7	S5	137	ILE	3.1
80	6	1420	C	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	S0	164	ASN	3.1
3	S1	47	LEU	3.1
9	s7	93	LEU	3.1
32	e0	51	ASN	3.1
28	D6	91	ASP	3.0
83	sR	309	VAL	3.0
14	C2	82	PRO	3.0
24	D2	71	LYS	3.0
29	D7	67	THR	3.0
33	E1	87	THR	3.0
48	M1	122	ILE	3.0
63	n7	11	ALA	3.0
40	l3	387	LEU	3.0
80	6	194	U	3.0
80	6	1698	G	3.0
85	5	1555	U	3.0
26	D4	58	PHE	3.0
7	s5	34	GLN	3.0
18	C6	12	LYS	3.0
18	C6	112	TYR	3.0
85	5	1352	A	3.0
28	d6	46	GLU	3.0
32	E0	45	VAL	3.0
83	sR	129	LYS	3.0
42	L5	127	GLY	3.0
83	sR	105	GLY	3.0
7	S5	129	PRO	3.0
18	C6	121	SER	3.0
18	c6	34	SER	3.0
23	D1	10	GLU	3.0
4	S2	236	PRO	3.0
8	S6	162	VAL	3.0
10	s8	200	LYS	3.0
70	O4	21	LYS	3.0
22	d0	113	ASP	3.0
5	S3	183	GLY	3.0
16	c4	101	ALA	3.0
34	SR	253	ALA	3.0
30	D8	41	VAL	3.0
33	E1	116	LYS	3.0
13	C1	68	GLY	3.0
36	1	2522	G	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	7	73	C	3.0
60	N4	91	LYS	3.0
80	6	654	C	3.0
85	5	2506	U	3.0
34	SR	33	LEU	3.0
56	N0	134	ASP	3.0
7	s5	82	PHE	3.0
5	s3	188	ILE	3.0
22	d0	22	ILE	3.0
55	M9	185	LEU	3.0
19	C7	41	ILE	3.0
24	D2	129	VAL	3.0
42	L5	126	GLU	3.0
30	d8	19	THR	3.0
34	SR	130	THR	3.0
14	c2	126	TRP	3.0
31	d9	16	LYS	3.0
83	sR	127	ARG	3.0
16	c4	48	VAL	3.0
88	n4	99	GLU	3.0
15	C3	13	SER	3.0
1	2	1282	G	3.0
80	6	1491	U	3.0
80	6	1696	G	3.0
2	S0	78	SER	3.0
30	d8	59	SER	3.0
83	sR	61	PHE	3.0
1	2	183	U	3.0
34	SR	178	VAL	3.0
14	c2	107	ASP	3.0
36	1	1547	G	3.0
36	1	1576	G	3.0
36	1	1577	G	3.0
63	n7	135	ARG	3.0
16	c4	112	ILE	3.0
83	sR	122	ILE	3.0
1	2	942	U	3.0
2	S0	206	ASP	3.0
80	6	1058	U	3.0
7	S5	154	ALA	2.9
14	c2	102	GLY	2.9
5	S3	44	THR	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
28	D6	41	ILE	2.9
30	D8	31	GLU	2.9
7	s5	48	PHE	2.9
10	S8	21	PHE	2.9
14	c2	26	ASP	2.9
30	D8	30	VAL	2.9
34	SR	69	GLN	2.9
34	SR	60	SER	2.9
48	M1	27	GLY	2.9
59	N3	5	GLY	2.9
83	sR	88	THR	2.9
82	c7	3	ARG	2.9
16	c4	41	ARG	2.9
83	sR	81	LEU	2.9
31	d9	5	ASN	2.9
14	c2	34	THR	2.9
13	c1	146	ALA	2.9
18	c6	8	GLN	2.9
28	d6	70	LYS	2.9
2	s0	24	LEU	2.9
32	E0	46	ASN	2.9
36	1	1349	G	2.9
83	sR	32	LEU	2.9
30	D8	47	PRO	2.9
5	S3	206	VAL	2.9
20	c8	22	VAL	2.9
21	C9	104	VAL	2.9
3	S1	92	GLN	2.9
83	sR	311	ARG	2.9
85	5	1268	G	2.9
5	s3	189	MET	2.9
6	S4	105	VAL	2.9
34	SR	308	ASN	2.9
34	SR	117	LYS	2.9
34	SR	213	SER	2.9
7	S5	156	ARG	2.9
16	c4	135	ARG	2.9
23	d1	82	VAL	2.9
30	D8	25	VAL	2.9
24	D2	27	ILE	2.9
82	c7	66	VAL	2.9
85	5	2505	U	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
4	s2	63	VAL	2.9
27	D5	60	VAL	2.9
3	s1	152	ARG	2.9
31	d9	34	TYR	2.9
4	S2	164	SER	2.9
5	s3	11	LEU	2.9
24	D2	104	LEU	2.9
80	6	1713	G	2.9
80	6	1709	C	2.9
83	sR	62	LYS	2.9
30	D8	19	THR	2.9
2	s0	156	VAL	2.9
83	sR	124	SER	2.9
4	S2	94	GLN	2.9
4	S2	156	THR	2.9
5	s3	146	ARG	2.9
36	1	1573	G	2.9
1	2	1665	U	2.9
85	5	1582	C	2.9
8	S6	157	VAL	2.9
14	C2	83	GLU	2.9
1	2	506	A	2.9
34	SR	102	ARG	2.9
83	sR	169	ILE	2.9
85	5	1580	A	2.9
16	c4	59	ALA	2.9
21	C9	83	ALA	2.9
29	d7	53	ALA	2.9
28	D6	97	PRO	2.8
28	d6	10	ARG	2.8
73	O7	84	SER	2.8
16	c4	60	ALA	2.8
19	C7	101	ASN	2.8
30	d8	10	ALA	2.8
42	L5	162	ALA	2.8
56	N0	2	ALA	2.8
80	6	1193	A	2.8
7	s5	156	ARG	2.8
8	S6	168	THR	2.8
19	C7	58	MET	2.8
4	S2	161	LYS	2.8
4	S2	155	ALA	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	S7	74	GLN	2.8
21	C9	108	LEU	2.8
24	D2	39	GLN	2.8
34	SR	237	GLN	2.8
85	5	1568	U	2.8
11	S9	2	PRO	2.8
53	M7	162	GLU	2.8
28	d6	94	ASN	2.8
83	sR	150	TRP	2.8
18	C6	90	VAL	2.8
28	D6	40	ALA	2.8
21	C9	35	ASP	2.8
33	e1	102	VAL	2.8
7	s5	159	ALA	2.8
17	C5	10	ARG	2.8
33	e1	77	GLY	2.8
19	C7	105	GLN	2.8
20	c8	71	GLN	2.8
22	d0	101	LYS	2.8
33	e1	94	LYS	2.8
36	1	3287	U	2.8
81	c0	79	TYR	2.8
11	s9	181	ALA	2.8
28	D6	5	ARG	2.8
2	S0	170	ILE	2.8
5	s3	158	ILE	2.8
10	S8	72	ILE	2.8
18	c6	81	ILE	2.8
30	d8	13	ILE	2.8
18	C6	48	VAL	2.8
2	s0	25	GLY	2.8
6	S4	134	LYS	2.8
34	SR	114	ASP	2.8
7	s5	44	ASN	2.8
6	S4	77	ARG	2.8
18	c6	142	TYR	2.8
4	S2	249	ALA	2.8
4	s2	99	LYS	2.8
16	c4	97	GLY	2.8
22	D0	101	LYS	2.8
30	D8	20	GLY	2.8
83	sR	132	LYS	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2	491	C	2.8
20	C8	17	LEU	2.8
20	c8	17	LEU	2.8
1	2	132	U	2.8
4	s2	94	GLN	2.8
46	L9	44	THR	2.8
7	S5	223	SER	2.8
33	e1	146	SER	2.8
80	6	1695	G	2.8
8	S6	179	VAL	2.8
14	c2	143	GLN	2.8
19	C7	67	ARG	2.8
82	c7	53	TYR	2.8
1	2	1061	C	2.8
20	C8	10	SER	2.8
28	d6	76	SER	2.8
80	6	1796	C	2.8
2	s0	41	ARG	2.8
5	S3	137	VAL	2.8
22	D0	84	MET	2.8
30	D8	42	ARG	2.8
2	S0	80	THR	2.8
15	c3	14	SER	2.8
21	C9	41	SER	2.8
4	S2	85	PRO	2.8
7	s5	29	ILE	2.8
28	D6	3	LYS	2.8
36	1	1563	C	2.8
36	1	1578	C	2.8
53	M7	163	LYS	2.8
80	6	653	C	2.8
88	n4	88	ASP	2.8
19	C7	126	ALA	2.8
39	L2	71	LEU	2.8
58	n2	14	THR	2.8
5	S3	75	LYS	2.7
6	S4	65	LEU	2.7
7	S5	165	LEU	2.7
83	sR	214	ALA	2.7
2	S0	101	ARG	2.7
2	s0	101	ARG	2.7
22	D0	20	ILE	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
80	6	238	U	2.7
80	6	1398	U	2.7
8	s6	166	GLU	2.7
5	s3	120	TYR	2.7
24	D2	46	TYR	2.7
5	s3	173	ARG	2.7
14	C2	58	LEU	2.7
83	sR	212	ALA	2.7
4	S2	88	LYS	2.7
7	S5	83	ARG	2.7
11	S9	113	VAL	2.7
30	d8	53	ILE	2.7
27	d5	102	THR	2.7
59	N3	4	ASN	2.7
60	N4	65	GLU	2.7
4	S2	188	LEU	2.7
88	n4	89	LEU	2.7
4	S2	89	GLN	2.7
34	SR	181	TRP	2.7
80	6	657	U	2.7
85	5	249	U	2.7
10	s8	116	HIS	2.7
2	s0	98	ILE	2.7
20	C8	22	VAL	2.7
28	D6	89	ARG	2.7
30	d8	29	ARG	2.7
36	1	1217	A	2.7
89	p0	188	VAL	2.7
7	S5	52	GLU	2.7
22	D0	69	LYS	2.7
33	e1	90	LYS	2.7
82	c7	67	ARG	2.7
34	SR	19	TRP	2.7
29	d7	57	GLU	2.7
3	s1	96	LEU	2.7
9	S7	153	LEU	2.7
18	C6	60	PHE	2.7
1	2	723	A	2.7
16	C4	41	ARG	2.7
28	d6	3	LYS	2.7
28	d6	57	SER	2.7
2	s0	170	ILE	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
82	c7	56	HIS	2.7
14	c2	56	GLU	2.7
5	s3	191	ASP	2.7
89	p0	192	ASP	2.7
10	s8	36	THR	2.7
28	D6	6	ALA	2.7
83	sR	126	SER	2.7
10	S8	103	GLN	2.7
14	C2	68	GLU	2.7
21	c9	80	TYR	2.7
27	D5	94	LYS	2.7
33	e1	148	TYR	2.7
40	L3	387	LEU	2.7
18	c6	4	VAL	2.7
29	D7	30	SER	2.7
30	D8	17	GLY	2.7
48	M1	66	ALA	2.7
80	6	260	U	2.7
83	sR	213	SER	2.7
23	d1	87	ARG	2.7
29	d7	24	LEU	2.7
83	sR	103	PHE	2.7
7	s5	83	ARG	2.7
20	C8	40	ARG	2.7
28	D6	56	ALA	2.7
30	D8	24	GLY	2.7
34	SR	73	LEU	2.7
42	L5	92	LEU	2.7
78	Q2	92	GLU	2.7
7	S5	75	GLY	2.7
19	C7	69	ILE	2.7
7	S5	84	LYS	2.7
8	S6	143	LYS	2.7
20	c8	100	THR	2.7
22	D0	81	THR	2.7
35	SM	87	THR	2.7
78	q2	100	LYS	2.7
16	c4	28	VAL	2.7
21	C9	37	VAL	2.7
35	SM	106	VAL	2.7
6	s4	185	GLY	2.7
35	SM	90	ALA	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	4	158	U	2.7
80	6	1191	U	2.7
5	S3	173	ARG	2.7
18	C6	143	ARG	2.7
31	d9	30	LEU	2.7
35	SM	54	PRO	2.7
65	n9	25	LYS	2.7
84	sM	85	SER	2.7
5	s3	186	VAL	2.7
8	S6	139	ASN	2.7
66	O0	105	ALA	2.7
17	c5	127	ARG	2.7
58	N2	94	ARG	2.7
5	S3	189	MET	2.7
24	D2	55	ASP	2.7
1	2	695	G	2.7
8	s6	143	LYS	2.7
19	C7	68	GLY	2.7
28	d6	66	LYS	2.7
8	s6	88	ARG	2.6
80	6	1228	G	2.7
4	S2	77	GLN	2.6
6	S4	88	ASP	2.6
1	2	1602	C	2.6
14	C2	42	ALA	2.6
19	C7	14	LYS	2.6
23	D1	19	ALA	2.6
6	S4	44	LEU	2.6
80	6	1397	U	2.6
4	S2	138	PRO	2.6
2	S0	15	GLN	2.6
1	2	713	G	2.6
2	S0	25	GLY	2.6
25	D3	106	GLY	2.6
30	D8	10	ALA	2.6
42	L5	185	PHE	2.6
11	S9	101	VAL	2.6
2	s0	97	PRO	2.6
4	s2	82	ASN	2.6
20	c8	67	GLU	2.6
80	6	1390	U	2.6
8	s6	50	PHE	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	S7	108	GLN	2.6
27	D5	98	GLN	2.6
86	l8	161	GLU	2.6
2	S0	21	ASN	2.6
22	d0	36	ASN	2.6
5	S3	124	ARG	2.6
5	s3	131	ALA	2.6
36	1	3288	G	2.6
83	sR	210	LEU	2.6
22	d0	30	LYS	2.6
5	s3	115	ILE	2.6
7	s5	86	GLN	2.6
14	c2	96	GLN	2.6
27	D5	65	LEU	2.6
34	SR	24	ALA	2.6
60	N4	72	SER	2.6
89	p0	24	SER	2.6
32	E0	48	THR	2.6
1	2	708	U	2.6
25	D3	6	PRO	2.6
80	6	714	G	2.6
85	5	547	G	2.6
8	S6	146	GLY	2.6
34	SR	34	LEU	2.6
1	2	1289	C	2.6
19	C7	13	SER	2.6
22	d0	51	VAL	2.6
28	d6	19	LYS	2.6
28	d6	93	LYS	2.6
29	D7	37	CYS	2.6
36	1	1352	A	2.6
7	S5	138	THR	2.6
18	C6	9	THR	2.6
19	C7	28	PHE	2.6
33	e1	80	ARG	2.6
7	S5	22	PRO	2.6
7	s5	58	LEU	2.6
28	d6	64	LEU	2.6
1	2	1297	U	2.6
18	C6	77	GLN	2.6
36	1	3156	U	2.6
2	S0	128	SER	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
6	S4	41	SER	2.6
2	S0	197	ILE	2.6
10	S8	65	PHE	2.6
7	S5	133	VAL	2.6
18	C6	5	PRO	2.6
20	C8	39	GLY	2.6
21	c9	17	ALA	2.6
1	2	1383	A	2.6
1	2	1380	U	2.6
20	c8	15	LEU	2.6
21	C9	114	VAL	2.6
7	s5	69	PHE	2.6
14	C2	126	TRP	2.6
83	sR	67	ILE	2.6
11	S9	148	VAL	2.6
11	S9	180	LYS	2.6
27	d5	60	VAL	2.6
30	d8	12	VAL	2.6
10	S8	22	ARG	2.6
12	C0	34	GLU	2.6
14	c2	142	GLN	2.6
24	D2	28	ARG	2.6
85	5	1572	U	2.6
18	C6	85	ILE	2.6
23	D1	8	LEU	2.6
74	o8	26	LYS	2.6
42	L5	203	HIS	2.6
83	sR	227	ALA	2.6
46	L9	9	GLN	2.6
48	M1	123	PHE	2.6
16	C4	102	LEU	2.6
34	SR	121	MET	2.6
1	2	133	U	2.6
33	e1	98	VAL	2.6
80	6	727	U	2.6
7	s5	30	PRO	2.6
34	SR	206	PRO	2.6
6	S4	70	VAL	2.6
24	D2	74	VAL	2.6
45	L8	122	LYS	2.6
1	2	1810	A	2.6
5	S3	141	LYS	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
14	C2	28	LEU	2.6
14	C2	50	LYS	2.6
30	D8	56	LEU	2.6
70	o4	21	LYS	2.6
86	l8	245	LYS	2.6
4	s2	101	VAL	2.6
8	s6	52	ILE	2.5
24	D2	125	ILE	2.5
78	Q2	22	GLN	2.5
8	S6	186	ARG	2.5
21	C9	7	ARG	2.5
79	q3	66	GLY	2.5
56	N0	75	PHE	2.5
5	S3	185	LYS	2.5
8	S6	79	LYS	2.5
10	S8	165	LEU	2.5
42	l5	290	ILE	2.5
14	C2	91	VAL	2.5
55	M9	187	GLU	2.5
57	n1	86	GLU	2.5
19	C7	54	THR	2.5
21	C9	50	ALA	2.5
16	C4	11	SER	2.5
50	M4	6	ILE	2.5
19	C7	66	VAL	2.5
42	L5	144	VAL	2.5
81	c0	21	VAL	2.5
83	sR	315	VAL	2.5
8	S6	1	MET	2.5
2	S0	127	ARG	2.5
7	S5	35	GLN	2.5
10	S8	56	ARG	2.5
64	n8	44	ASN	2.5
3	S1	25	THR	2.5
13	C1	134	THR	2.5
14	C2	51	ALA	2.5
10	S8	104	ILE	2.5
16	c4	102	LEU	2.5
25	D3	114	LYS	2.5
30	d8	16	LEU	2.5
47	m0	184	LYS	2.5
78	q2	15	LYS	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
83	sR	108	SER	2.5
86	l8	246	MET	2.5
10	s8	177	GLY	2.5
14	C2	84	ASN	2.5
26	D4	22	GLN	2.5
83	sR	28	GLY	2.5
21	C9	84	LYS	2.5
36	1	1350	A	2.5
80	6	1284	C	2.5
13	C1	141	LYS	2.5
32	E0	52	GLY	2.5
80	6	1199	G	2.5
8	S6	147	LEU	2.5
20	C8	44	ASN	2.5
83	sR	301	LEU	2.5
4	s2	146	THR	2.5
8	s6	78	THR	2.5
18	c6	48	VAL	2.5
21	C9	66	TYR	2.5
14	c2	65	SER	2.5
80	6	172	C	2.5
7	s5	81	ARG	2.5
23	D1	53	TYR	2.5
28	d6	90	GLU	2.5
81	c0	63	TYR	2.5
1	2	703	G	2.5
2	S0	155	PHE	2.5
7	s5	164	PRO	2.5
10	S8	181	GLY	2.5
33	e1	81	LYS	2.5
10	s8	57	ALA	2.5
14	c2	59	LEU	2.5
15	c3	15	ALA	2.5
23	D1	54	ALA	2.5
34	SR	180	ALA	2.5
13	C1	140	VAL	2.5
22	d0	20	ILE	2.5
2	S0	129	ASP	2.5
18	c6	49	TYR	2.5
21	C9	67	MET	2.5
30	d8	8	THR	2.5
48	M1	49	LYS	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	8	80	A	2.5
46	L9	191	LEU	2.5
34	SR	52	GLN	2.5
4	S2	59	HIS	2.5
1	2	558	U	2.5
8	S6	74	LYS	2.5
22	d0	80	GLU	2.5
24	D2	82	LYS	2.5
88	n4	69	LYS	2.5
33	E1	115	THR	2.5
5	s3	142	LEU	2.5
88	n4	96	LEU	2.5
89	p0	107	ALA	2.5
28	D6	84	VAL	2.5
66	o0	67	VAL	2.5
83	sR	187	GLN	2.5
80	6	1227	A	2.5
82	c7	35	CYS	2.5
21	c9	32	GLY	2.5
39	L2	79	ASN	2.5
2	S0	76	ILE	2.5
8	S6	73	ILE	2.5
24	D2	89	TRP	2.5
1	2	704	U	2.5
45	L8	121	SER	2.5
62	N6	127	GLU	2.5
15	C3	59	GLY	2.5
18	c6	93	HIS	2.5
1	2	490	C	2.5
8	S6	177	ARG	2.5
14	c2	125	ASN	2.5
19	C7	120	SER	2.5
80	6	1421	A	2.5
10	s8	44	HIS	2.5
18	c6	117	LEU	2.5
26	d4	18	LEU	2.5
80	6	1688	U	2.5
8	S6	89	ASP	2.5
18	C6	58	ASP	2.5
42	L5	122	VAL	2.5
19	C7	40	THR	2.5
48	M1	85	LYS	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
57	N1	127	GLN	2.5
19	C7	100	LEU	2.5
1	2	680	C	2.5
5	S3	39	VAL	2.5
5	s3	201	ALA	2.5
6	S4	25	GLY	2.5
8	S6	154	ARG	2.5
8	S6	158	ILE	2.5
28	d6	63	ALA	2.5
30	D8	40	ILE	2.5
1	2	1290	U	2.5
6	S4	78	THR	2.5
22	d0	82	TYR	2.5
42	L5	145	PHE	2.5
80	6	670	U	2.5
7	s5	35	GLN	2.5
14	C2	48	SER	2.5
29	D7	48	SER	2.5
4	s2	118	ALA	2.5
5	s3	149	ALA	2.5
18	C6	74	HIS	2.5
7	s5	28	PRO	2.4
17	c5	134	THR	2.4
30	D8	50	GLU	2.4
31	d9	36	LEU	2.4
18	c6	130	GLY	2.4
83	sR	90	ARG	2.4
34	SR	144	LEU	2.4
66	O0	101	LEU	2.4
14	c2	113	ARG	2.4
25	D3	51	GLY	2.4
83	sR	177	MET	2.4
49	M3	191	ALA	2.4
10	S8	166	TYR	2.4
19	C7	56	HIS	2.4
80	6	712	G	2.4
8	s6	129	VAL	2.4
9	S7	101	LYS	2.4
30	d8	48	VAL	2.4
22	d0	103	ILE	2.4
22	d0	119	ALA	2.4
34	SR	4	ASN	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
81	c0	19	GLY	2.4
8	s6	36	VAL	2.4
21	C9	57	ARG	2.4
23	D1	32	VAL	2.4
33	e1	111	GLU	2.4
26	d4	134	ALA	2.4
23	D1	35	ASN	2.4
39	l2	252	THR	2.4
67	o1	112	ASP	2.4
1	2	1392	G	2.4
42	L5	167	SER	2.4
83	sR	130	THR	2.4
85	5	1565	G	2.4
18	C6	89	LEU	2.4
5	S3	122	VAL	2.4
7	S5	31	GLU	2.4
31	d9	33	LYS	2.4
84	sM	49	LYS	2.4
27	D5	100	ILE	2.4
2	s0	20	ALA	2.4
48	M1	127	PHE	2.4
56	n0	2	ALA	2.4
8	s6	217	SER	2.4
1	2	1353	U	2.4
4	S2	157	LYS	2.4
4	S2	187	LEU	2.4
5	S3	117	ARG	2.4
28	D6	82	ARG	2.4
28	D6	87	ARG	2.4
42	L5	236	LEU	2.4
13	C1	4	GLU	2.4
30	d8	31	GLU	2.4
85	5	1573	G	2.4
78	q2	72	LEU	2.4
83	sR	34	LEU	2.4
5	s3	128	GLU	2.4
3	S1	121	ILE	2.4
7	s5	137	ILE	2.4
7	s5	202	ALA	2.4
8	S6	66	GLY	2.4
14	c2	27	ALA	2.4
14	c2	92	ALA	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	S0	113	ARG	2.4
2	s0	165	ARG	2.4
24	D2	11	LEU	2.4
35	SM	96	ARG	2.4
2	S0	147	THR	2.4
78	q2	79	THR	2.4
83	sR	167	VAL	2.4
85	5	544	C	2.4
28	d6	72	HIS	2.4
36	1	3286	G	2.4
5	S3	21	LEU	2.4
13	C1	69	LYS	2.4
70	o4	33	GLN	2.4
2	S0	175	TYR	2.4
5	S3	169	ASP	2.4
6	S4	50	ASN	2.4
16	C4	29	HIS	2.4
30	D8	22	ARG	2.4
30	D8	54	LEU	2.4
86	l8	77	GLN	2.4
10	S8	113	PHE	2.4
19	C7	125	SER	2.4
25	d3	145	SER	2.4
21	C9	103	LYS	2.4
34	SR	25	THR	2.4
1	2	137	U	2.4
82	c7	60	ARG	2.4
7	S5	24	VAL	2.4
49	m3	182	ILE	2.4
11	S9	138	LYS	2.4
13	C1	38	ALA	2.4
55	M9	188	ASP	2.4
5	s3	41	VAL	2.4
22	D0	26	LEU	2.4
56	N0	95	ARG	2.4
60	N4	96	LEU	2.4
18	c6	79	TYR	2.4
81	c0	58	GLN	2.4
7	s5	153	GLY	2.4
8	s6	115	LYS	2.4
80	6	261	U	2.4
7	s5	155	ALA	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
22	D0	97	VAL	2.4
83	sR	300	THR	2.4
89	p0	186	THR	2.4
7	S5	139	ASN	2.4
7	s5	158	GLN	2.4
22	d0	83	GLU	2.4
36	1	1219	C	2.4
36	1	1260	A	2.4
85	5	2540	A	2.4
28	D6	10	ARG	2.4
4	S2	111	VAL	2.4
50	M4	138	ALA	2.4
1	2	280	U	2.4
22	d0	78	THR	2.4
34	SR	306	THR	2.4
36	1	1763	U	2.4
13	C1	66	ILE	2.4
24	D2	124	LYS	2.4
60	N4	79	GLN	2.4
56	N0	114	HIS	2.4
8	S6	172	ALA	2.4
4	S2	84	LYS	2.4
14	c2	93	ASP	2.4
8	s6	113	ILE	2.3
80	6	1632	C	2.4
89	p0	4	ILE	2.3
9	S7	42	GLN	2.3
22	d0	111	GLY	2.3
72	O6	99	ARG	2.3
80	6	1276	U	2.3
79	q3	65	ALA	2.3
18	C6	81	ILE	2.3
34	SR	193	ILE	2.3
80	6	1288	G	2.3
12	C0	13	GLN	2.3
7	s5	154	ALA	2.3
13	C1	139	VAL	2.3
14	C2	127	GLY	2.3
36	1	1566	A	2.3
48	M1	40	LEU	2.3
78	Q2	105	GLN	2.3
89	p0	80	VAL	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2	494	U	2.3
1	2	775	U	2.3
16	c4	70	LYS	2.3
22	D0	64	LYS	2.3
21	c9	18	TYR	2.3
88	n4	86	SER	2.3
3	s1	97	LEU	2.3
8	s6	102	VAL	2.3
9	S7	22	GLN	2.3
34	SR	41	THR	2.3
56	N0	138	GLN	2.3
13	c1	145	ALA	2.3
83	sR	226	ALA	2.3
2	S0	116	LYS	2.3
3	s1	95	ASN	2.3
5	S3	159	HIS	2.3
6	S4	197	HIS	2.3
12	C0	12	HIS	2.3
23	D1	21	ASN	2.3
81	c0	28	ASN	2.3
84	sM	84	LYS	2.3
80	6	1697	G	2.3
47	m0	186	GLU	2.3
56	N0	128	GLU	2.3
76	Q0	106	ARG	2.3
1	2	1785	A	2.3
2	S0	125	ASP	2.3
80	6	1399	C	2.3
18	c6	30	LYS	2.3
24	D2	128	PHE	2.3
2	S0	84	ARG	2.3
24	D2	72	CYS	2.3
30	D8	65	ARG	2.3
55	M9	50	ILE	2.3
83	sR	102	ARG	2.3
21	C9	40	SER	2.3
42	L5	194	LEU	2.3
5	S3	144	ALA	2.3
57	N1	148	PRO	2.3
82	c7	59	LYS	2.3
8	s6	156	PHE	2.3
16	C4	27	PHE	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
80	6	1715	G	2.3
1	2	1344	U	2.3
14	C2	52	LEU	2.3
85	5	1579	C	2.3
18	C6	15	SER	2.3
21	C9	61	VAL	2.3
7	s5	85	ALA	2.3
22	d0	32	LYS	2.3
28	D6	9	GLY	2.3
63	N7	70	PRO	2.3
8	s6	32	ILE	2.3
8	s6	159	ARG	2.3
83	sR	43	ILE	2.3
6	s4	203	GLY	2.3
10	S8	64	ASN	2.3
18	C6	22	VAL	2.3
1	2	1566	A	2.3
8	s6	144	PHE	2.3
15	C3	14	SER	2.3
18	c6	16	ALA	2.3
1	2	1403	C	2.3
1	2	1510	C	2.3
4	S2	69	ILE	2.3
18	C6	122	ARG	2.3
85	5	442	G	2.3
12	C0	67	THR	2.3
22	D0	82	TYR	2.3
15	C3	107	LYS	2.3
83	sR	138	GLY	2.3
21	C9	101	ASN	2.3
4	S2	189	GLN	2.3
2	S0	143	VAL	2.3
6	S4	159	THR	2.3
8	s6	162	VAL	2.3
33	e1	150	VAL	2.3
34	SR	113	VAL	2.3
1	2	217	A	2.3
1	2	1408	A	2.3
3	s1	153	HIS	2.3
36	1	621	A	2.3
1	2	1347	G	2.3
80	6	1703	C	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
5	S3	168	ILE	2.3
30	d8	21	SER	2.3
9	S7	38	LEU	2.3
5	s3	103	GLU	2.3
5	s3	175	VAL	2.3
6	S4	245	LYS	2.3
8	S6	67	VAL	2.3
18	c6	12	LYS	2.3
9	S7	87	ASP	2.3
42	L5	189	GLU	2.3
28	d6	39	MET	2.3
45	L8	114	ALA	2.3
3	S1	45	LYS	2.3
5	s3	43	PRO	2.3
24	D2	19	LYS	2.3
28	d6	18	VAL	2.3
10	S8	61	GLU	2.3
42	L5	133	GLU	2.3
12	C0	59	PHE	2.3
18	C6	27	GLY	2.3
5	s3	171	ALA	2.3
85	5	2522	G	2.3
5	s3	200	LYS	2.3
12	C0	66	TYR	2.3
18	c6	53	LEU	2.3
21	c9	119	LYS	2.3
23	D1	25	LYS	2.3
30	d8	11	LYS	2.3
47	m0	111	LEU	2.3
81	c0	65	TYR	2.3
83	sR	243	LEU	2.3
34	SR	174	ASN	2.3
89	p0	59	VAL	2.3
36	1	3351	U	2.3
42	L5	117	GLU	2.3
42	L5	200	PHE	2.3
4	s2	117	THR	2.3
7	S5	221	ALA	2.3
7	s5	145	ASP	2.3
35	SM	36	ASP	2.3
79	Q3	36	ARG	2.3
3	S1	96	LEU	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
34	SR	129	LYS	2.3
80	6	674	C	2.3
81	c0	66	TYR	2.3
83	sR	60	SER	2.3
86	l8	121	SER	2.3
8	S6	90	GLY	2.3
80	6	720	G	2.3
80	6	723	G	2.3
8	S6	152	ASP	2.3
4	S2	63	VAL	2.3
11	S9	76	LEU	2.3
15	C3	66	ILE	2.3
22	D0	27	THR	2.3
5	s3	125	TYR	2.3
17	c5	86	VAL	2.3
36	1	1765	U	2.3
66	O0	104	LEU	2.3
4	S2	87	GLN	2.3
26	d4	106	GLN	2.3
29	D7	68	GLY	2.3
61	N5	33	ARG	2.3
36	1	551	A	2.3
80	6	579	A	2.3
11	S9	156	ILE	2.3
82	c7	38	ILE	2.3
7	S5	55	ASP	2.3
84	sM	82	THR	2.3
47	m0	217	PHE	2.3
83	sR	263	PHE	2.3
1	2	1137	G	2.2
8	S6	148	SER	2.2
16	C4	96	PRO	2.2
29	d7	82	LYS	2.2
81	c0	48	SER	2.2
21	c9	19	ALA	2.2
21	c9	36	ILE	2.2
24	D2	6	VAL	2.2
4	s2	177	GLY	2.2
9	S7	76	LYS	2.2
15	C3	5	HIS	2.2
27	d5	86	GLU	2.2
33	E1	129	GLY	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	S0	19	ALA	2.2
80	6	726	C	2.2
18	c6	39	VAL	2.2
1	2	488	G	2.2
33	e1	86	THR	2.2
35	SM	23	LYS	2.2
80	6	234	G	2.2
83	sR	87	LYS	2.2
89	p0	47	GLY	2.2
42	L5	65	ILE	2.2
66	o0	100	ILE	2.2
4	S2	65	GLU	2.2
11	S9	29	LYS	2.2
5	S3	179	GLN	2.2
18	c6	83	GLN	2.2
73	o7	12	HIS	2.2
78	q2	99	GLN	2.2
5	s3	109	LEU	2.2
45	L8	116	VAL	2.2
5	s3	9	ARG	2.2
78	q2	106	PHE	2.2
79	Q3	37	TYR	2.2
2	s0	21	ASN	2.2
31	D9	54	LYS	2.2
88	n4	70	LYS	2.2
30	d8	39	THR	2.2
32	e0	52	GLY	2.2
1	2	1509	A	2.2
34	SR	310	ILE	2.2
7	S5	106	LYS	2.2
18	c6	121	SER	2.2
31	d9	22	ARG	2.2
48	M1	167	TYR	2.2
49	m3	190	LYS	2.2
63	N7	22	LYS	2.2
5	S3	136	VAL	2.2
5	s3	105	MET	2.2
11	S9	116	LEU	2.2
18	C6	103	ASN	2.2
21	C9	120	GLY	2.2
8	s6	163	THR	2.2
18	C6	83	GLN	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
31	d9	38	ILE	2.2
10	s8	59	ARG	2.2
13	C1	13	PHE	2.2
9	s7	187	SER	2.2
18	C6	87	LYS	2.2
46	L9	3	TYR	2.2
89	p0	22	TYR	2.2
3	s1	90	GLU	2.2
23	d1	34	ILE	2.2
34	SR	312	VAL	2.2
36	1	1287	A	2.2
88	n4	107	GLU	2.2
89	p0	44	GLU	2.2
1	2	146	U	2.2
4	S2	115	ILE	2.2
5	s3	86	LEU	2.2
11	S9	86	LEU	2.2
18	c6	52	LEU	2.2
1	2	1409	C	2.2
5	S3	201	ALA	2.2
35	SM	141	ALA	2.2
42	L5	151	GLN	2.2
80	6	73	U	2.2
56	N0	78	TRP	2.2
58	N2	33	TYR	2.2
82	c7	54	THR	2.2
5	S3	214	GLU	2.2
10	s8	179	CYS	2.2
29	D7	74	SER	2.2
34	SR	65	SER	2.2
8	s6	133	LEU	2.2
34	SR	199	ILE	2.2
42	L5	195	LEU	2.2
78	Q2	96	GLU	2.2
5	s3	127	MET	2.2
6	S4	127	LYS	2.2
1	2	1567	G	2.2
18	C6	62	ASN	2.2
2	s0	46	HIS	2.2
9	S7	105	THR	2.2
80	6	71	A	2.2
2	s0	173	ILE	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	S1	20	VAL	2.2
4	S2	218	ILE	2.2
8	s6	148	SER	2.2
10	s8	60	ILE	2.2
13	c1	4	GLU	2.2
34	SR	3	SER	2.2
34	SR	6	VAL	2.2
2	S0	40	ALA	2.2
4	S2	98	PHE	2.2
10	s8	79	ALA	2.2
34	SR	192	PHE	2.2
89	p0	38	MET	2.2
2	S0	23	HIS	2.2
14	C2	55	GLY	2.2
14	C2	71	ILE	2.2
14	C2	89	ILE	2.2
22	D0	80	GLU	2.2
34	SR	72	THR	2.2
28	D6	7	SER	2.2
28	d6	27	SER	2.2
35	SM	131	ILE	2.2
83	sR	157	VAL	2.2
88	n4	106	GLU	2.2
1	2	277	U	2.2
18	C6	18	ALA	2.2
34	SR	296	ALA	2.2
80	6	241	U	2.2
80	6	680	U	2.2
86	l8	32	LYS	2.2
80	6	1701	A	2.2
1	2	658	C	2.2
4	S2	221	THR	2.2
7	S5	175	LEU	2.2
11	s9	148	VAL	2.2
36	1	1562	C	2.2
85	5	1277	C	2.2
31	d9	50	ILE	2.2
11	S9	147	MET	2.2
16	C4	14	PHE	2.2
20	C8	2	SER	2.2
34	SR	261	LYS	2.2
23	d1	33	GLN	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
14	c2	74	LEU	2.2
80	6	493	U	2.2
4	s2	205	ARG	2.2
5	s3	65	ARG	2.2
89	p0	87	VAL	2.2
8	S6	156	PHE	2.2
22	D0	88	LYS	2.2
34	SR	18	GLY	2.2
34	SR	288	HIS	2.2
56	N0	96	ASP	2.2
80	6	1217	A	2.2
7	S5	56	ALA	2.2
28	D6	88	SER	2.2
21	c9	33	TYR	2.2
2	S0	181	VAL	2.2
22	d0	26	LEU	2.2
3	S1	93	GLY	2.2
7	S5	172	ILE	2.2
10	S8	152	ILE	2.2
13	C1	136	ARG	2.2
57	N1	87	LYS	2.2
13	C1	115	PHE	2.2
4	S2	146	THR	2.2
28	d6	33	ASP	2.2
52	M6	42	ASN	2.2
85	5	620	U	2.2
10	s8	111	GLN	2.2
11	S9	118	LEU	2.2
22	d0	63	LEU	2.2
33	E1	106	TYR	2.2
85	5	1350	A	2.2
88	n4	91	LYS	2.2
4	S2	171	PRO	2.2
4	s2	247	ALA	2.2
80	6	230	C	2.2
85	5	251	G	2.2
85	5	1354	G	2.2
6	S4	220	THR	2.2
10	S8	4	SER	2.2
10	s8	117	TYR	2.2
14	C2	121	VAL	2.2
27	D5	61	SER	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2	657	U	2.2
10	S8	70	GLU	2.2
11	S9	106	GLU	2.2
21	C9	70	GLN	2.2
47	m0	204	GLY	2.1
48	M1	73	GLY	2.1
56	N0	143	PHE	2.2
7	S5	155	ALA	2.1
53	M7	156	ALA	2.1
1	2	737	A	2.1
4	S2	141	ARG	2.1
5	S3	138	VAL	2.1
56	N0	92	LYS	2.1
89	p0	75	LYS	2.1
42	L5	193	GLU	2.1
1	2	1701	G	2.1
36	1	1256	G	2.1
80	6	405	C	2.1
85	5	1561	G	2.1
89	p0	82	GLY	2.1
1	2	231	U	2.1
10	s8	41	LYS	2.1
22	d0	90	TYR	2.1
23	D1	22	ARG	2.1
32	e0	53	LYS	2.1
34	SR	225	LEU	2.1
10	S8	43	ILE	2.1
28	d6	8	ASN	2.1
58	N2	93	ILE	2.1
2	s0	100	GLY	2.1
18	C6	94	GLN	2.1
45	L8	59	GLN	2.1
18	C6	80	ALA	2.1
24	D2	111	MET	2.1
36	1	2207	A	2.1
4	S2	140	ARG	2.1
5	S3	146	ARG	2.1
89	p0	76	LEU	2.1
1	2	1346	U	2.1
4	S2	153	SER	2.1
56	N0	93	GLU	2.1
74	o8	32	ASN	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
80	6	1285	U	2.1
82	c7	87	GLU	2.1
14	c2	128	ALA	2.1
27	D5	97	LYS	2.1
28	d6	40	ALA	2.1
83	sR	296	ALA	2.1
19	C7	99	VAL	2.1
42	L5	159	VAL	2.1
2	S0	54	TRP	2.1
8	s6	11	GLY	2.1
8	s6	35	GLU	2.1
13	C1	138	ASN	2.1
14	C2	130	THR	2.1
36	1	440	A	2.1
7	s5	160	VAL	2.1
10	s8	42	ARG	2.1
10	s8	58	LEU	2.1
30	D8	49	ARG	2.1
34	SR	214	ALA	2.1
1	2	259	U	2.1
1	2	1042	U	2.1
7	s5	77	TYR	2.1
24	D2	79	PHE	2.1
34	SR	186	PHE	2.1
63	N7	118	PHE	2.1
85	5	2537	U	2.1
86	l8	49	TYR	2.1
80	6	1265	G	2.1
18	C6	140	LYS	2.1
42	l5	295	GLY	2.1
83	sR	251	TRP	2.1
3	S1	135	LEU	2.1
5	s3	182	LEU	2.1
13	C1	142	VAL	2.1
18	c6	139	GLN	2.1
22	d0	25	THR	2.1
27	D5	81	ARG	2.1
30	d8	36	THR	2.1
55	M9	175	GLN	2.1
18	c6	89	LEU	2.1
2	S0	81	PHE	2.1
14	C2	129	GLU	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
14	c2	132	GLU	2.1
1	2	678	U	2.1
31	d9	29	GLY	2.1
2	s0	124	THR	2.1
7	s5	47	SER	2.1
18	C6	68	ARG	2.1
36	1	1351	U	2.1
53	M7	184	ALA	2.1
70	O4	34	HIS	2.1
85	5	1597	C	2.1
7	s5	161	ASP	2.1
46	L9	49	ASN	2.1
1	2	234	G	2.1
1	2	706	G	2.1
5	S3	209	ILE	2.1
85	5	443	G	2.1
10	S8	174	GLY	2.1
15	C3	25	TRP	2.1
25	D3	124	VAL	2.1
28	d6	7	SER	2.1
78	q2	91	PHE	2.1
83	sR	111	MET	2.1
83	sR	120	SER	2.1
28	d6	20	PRO	2.1
80	6	1798	U	2.1
4	S2	208	GLU	2.1
5	s3	194	LYS	2.1
22	D0	54	GLY	2.1
33	E1	120	GLU	2.1
39	l2	36	GLU	2.1
2	S0	146	LEU	2.1
7	s5	42	LEU	2.1
56	N0	135	VAL	2.1
7	S5	163	SER	2.1
19	C7	21	TYR	2.1
21	C9	138	GLN	2.1
65	n9	27	TYR	2.1
63	n7	21	LYS	2.1
80	6	1433	G	2.1
8	S6	33	GLY	2.1
1	2	504	U	2.1
3	s1	91	VAL	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	d8	49	ARG	2.1
34	SR	208	GLY	2.1
80	6	1422	A	2.1
11	S9	36	LEU	2.1
58	n2	105	LEU	2.1
63	n7	75	VAL	2.1
83	sR	54	PHE	2.1
22	d0	41	ILE	2.1
4	s2	158	THR	2.1
4	s2	166	THR	2.1
5	s3	165	ASN	2.1
23	d1	75	ASN	2.1
88	n4	76	VAL	2.1
28	D6	48	ALA	2.1
4	s2	89	GLN	2.1
5	s3	101	GLN	2.1
9	S7	86	GLN	2.1
83	sR	29	GLN	2.1
5	s3	124	ARG	2.1
7	S5	140	THR	2.1
83	sR	5	GLU	2.1
86	l8	247	ASP	2.1
1	2	1601	C	2.1
36	1	3285	C	2.1
58	N2	28	PHE	2.1
88	n4	128	ALA	2.1
8	s6	51	LYS	2.1
22	d0	53	LYS	2.1
48	M1	65	ILE	2.1
81	c0	54	TYR	2.1
86	l8	120	LYS	2.1
9	S7	17	GLU	2.1
10	S8	63	GLY	2.1
19	C7	46	LEU	2.1
39	l2	167	GLY	2.1
42	L5	175	HIS	2.1
83	sR	47	LEU	2.1
83	sR	112	SER	2.1
5	s3	8	LYS	2.1
10	s8	162	ALA	2.1
13	C1	57	LYS	2.1
36	1	3290	G	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
80	6	231	U	2.1
21	c9	55	TYR	2.1
80	6	1256	A	2.1
80	6	1425	A	2.1
85	5	1592	G	2.1
5	S3	27	ARG	2.1
18	C6	45	ARG	2.1
3	s1	217	LEU	2.1
4	S2	225	LEU	2.1
5	s3	25	PHE	2.1
11	S9	102	GLU	2.1
36	1	3360	C	2.1
70	O4	72	VAL	2.1
80	6	490	C	2.1
89	p0	25	LEU	2.1
3	S1	132	ASP	2.1
29	D7	70	LYS	2.1
61	n5	23	ALA	2.1
78	Q2	9	LYS	2.1
4	s2	201	ASN	2.1
7	S5	79	ASN	2.1
11	S9	12	TYR	2.1
18	C6	43	ILE	2.1
31	D9	50	ILE	2.1
88	n4	101	ARG	2.1
2	S0	139	VAL	2.1
6	S4	207	LEU	2.1
7	s5	127	GLN	2.1
85	5	1564	U	2.1
8	s6	218	GLU	2.1
11	S9	87	SER	2.0
1	2	854	G	2.0
5	S3	205	ALA	2.0
7	S5	210	ALA	2.0
23	D1	52	THR	2.0
36	1	251	G	2.0
48	M1	45	PRO	2.0
63	n7	2	ALA	2.0
85	5	1246	G	2.0
18	C6	120	ASP	2.0
22	D0	31	VAL	2.0
25	d3	10	ASN	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	1	1582	C	2.0
67	o1	82	GLU	2.0
4	S2	83	ILE	2.0
11	S9	121	SER	2.0
22	D0	96	PRO	2.0
27	D5	88	ILE	2.0
28	d6	65	PRO	2.0
30	D8	18	ARG	2.0
36	1	1028	U	2.0
83	sR	135	THR	2.0
6	S4	183	VAL	2.0
11	S9	30	LEU	2.0
63	N7	95	VAL	2.0
63	n7	74	VAL	2.0
10	S8	39	GLY	2.0
63	N7	4	PHE	2.0
63	N7	52	LYS	2.0
80	6	1718	G	2.0
1	2	1382	C	2.0
8	s6	175	ILE	2.0
30	d8	42	ARG	2.0
48	M1	162	TRP	2.0
5	s3	122	VAL	2.0
6	s4	208	VAL	2.0
30	D8	66	LEU	2.0
10	s8	103	GLN	2.0
17	C5	27	GLU	2.0
26	D4	67	GLY	2.0
40	L3	94	GLU	2.0
57	N1	159	PHE	2.0
2	S0	75	ALA	2.0
2	S0	132	ALA	2.0
18	c6	86	ALA	2.0
34	SR	17	ASN	2.0
72	O6	98	ARG	2.0
89	p0	103	ASN	2.0
19	C7	89	SER	2.0
4	S2	169	LEU	2.0
2	s0	112	THR	2.0
7	S5	21	THR	2.0
16	c4	98	GLY	2.0
80	6	199	G	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	S0	144	ILE	2.0
13	C1	82	ARG	2.0
1	2	1345	U	2.0
4	s2	81	MET	2.0
30	D8	53	ILE	2.0
7	s5	61	TYR	2.0
23	D1	51	VAL	2.0
7	S5	72	HIS	2.0
28	d6	71	LEU	2.0
35	SM	28	SER	2.0
29	D7	77	THR	2.0
30	d8	58	GLU	2.0
39	l2	73	GLU	2.0
83	sR	140	CYS	2.0
13	C1	122	ILE	2.0
18	c6	134	ALA	2.0
22	d0	95	ALA	2.0
28	d6	96	ALA	2.0
58	n2	106	ALA	2.0
23	D1	36	VAL	2.0
24	D2	80	ASN	2.0
42	L5	49	TYR	2.0
42	l5	135	VAL	2.0
48	M1	80	LEU	2.0
51	m5	129	TYR	2.0
82	c7	65	PRO	2.0
83	sR	3	SER	2.0
1	2	679	C	2.0
1	2	1666	C	2.0
7	s5	91	GLU	2.0
16	C4	98	GLY	2.0
5	S3	154	ASP	2.0
22	d0	33	GLN	2.0
22	d0	65	ILE	2.0
34	SR	233	THR	2.0
83	sR	109	ASP	2.0
10	S8	193	LEU	2.0
28	D6	75	VAL	2.0
34	SR	62	LYS	2.0
89	p0	53	MET	2.0
15	C3	26	PHE	2.0
1	2	1393	A	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	s1	101	HIS	2.0
7	s5	31	GLU	2.0
28	d6	17	HIS	2.0
63	N7	132	SER	2.0
83	sR	35	SER	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
93	MG	1	3897	1/1	0.94	0.67	65.16	44,44,44,44	0
93	MG	5	4100	1/1	0.94	1.47	60.36	32,32,32,32	0
93	MG	1	3921	1/1	0.95	0.91	58.20	34,34,34,34	0
93	MG	5	3847	1/1	0.97	0.64	44.76	32,32,32,32	0
93	MG	1	3876	1/1	0.96	0.63	41.06	45,45,45,45	0
93	MG	1	4056	1/1	0.88	0.97	39.52	32,32,32,32	0
93	MG	5	3928	1/1	0.97	0.73	39.39	32,32,32,32	0
93	MG	1	4102	1/1	0.93	0.94	38.75	43,43,43,43	0
93	MG	6	2083	1/1	0.92	0.76	37.29	56,56,56,56	0
93	MG	5	3911	1/1	0.92	0.58	36.82	31,31,31,31	0
93	MG	6	2074	1/1	0.84	0.62	36.13	88,88,88,88	0
93	MG	1	3898	1/1	0.98	0.67	34.58	30,30,30,30	0
93	MG	5	3903	1/1	0.96	0.75	32.05	39,39,39,39	0
93	MG	5	3974	1/1	0.90	0.43	31.32	37,37,37,37	0
93	MG	1	3852	1/1	0.95	0.63	31.14	36,36,36,36	0
93	MG	5	3918	1/1	0.93	0.72	29.72	44,44,44,44	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	3874	1/1	0.98	0.56	29.42	31,31,31,31	0
93	MG	1	4027	1/1	0.82	0.69	29.20	39,39,39,39	0
93	MG	1	3859	1/1	0.95	0.62	28.59	32,32,32,32	0
93	MG	5	4082	1/1	0.95	0.88	27.21	40,40,40,40	0
93	MG	5	4023	1/1	0.73	0.78	26.90	33,33,33,33	0
93	MG	6	2109	1/1	0.89	0.82	25.82	90,90,90,90	0
93	MG	1	3784	1/1	0.85	0.76	25.59	39,39,39,39	0
93	MG	5	3906	1/1	0.96	0.65	25.48	32,32,32,32	0
93	MG	1	3983	1/1	0.85	0.57	25.21	48,48,48,48	0
93	MG	5	3895	1/1	0.88	0.61	24.97	47,47,47,47	0
93	MG	5	3990	1/1	0.67	0.79	24.95	35,35,35,35	0
93	MG	1	3877	1/1	0.91	0.70	24.80	43,43,43,43	0
93	MG	1	3889	1/1	0.97	0.75	24.77	39,39,39,39	0
93	MG	5	3908	1/1	0.90	0.62	24.50	33,33,33,33	0
93	MG	5	3929	1/1	0.97	0.53	24.34	34,34,34,34	0
93	MG	N8	203	1/1	0.88	0.89	24.23	32,32,32,32	0
93	MG	6	2100	1/1	0.94	0.84	24.21	45,45,45,45	0
92	OHX	1	3710	7/7	0.96	0.45	23.47	47,47,47,47	0
93	MG	5	3913	1/1	0.97	0.69	23.34	37,37,37,37	0
93	MG	1	3911	1/1	0.95	0.43	23.34	38,38,38,38	0
93	MG	1	3912	1/1	0.91	0.81	22.86	52,52,52,52	0
93	MG	5	3945	1/1	0.70	0.60	22.68	44,44,44,44	0
93	MG	5	3898	1/1	0.96	0.63	22.59	44,44,44,44	0
93	MG	1	3840	1/1	0.92	0.55	22.48	42,42,42,42	0
93	MG	1	4055	1/1	0.95	0.51	22.31	38,38,38,38	0
93	MG	1	3825	1/1	0.90	0.60	22.24	38,38,38,38	0
93	MG	5	4115	1/1	0.97	0.57	22.21	35,35,35,35	0
93	MG	5	3853	1/1	0.98	0.85	22.18	40,40,40,40	0
93	MG	5	4170	1/1	0.96	0.50	21.87	33,33,33,33	0
93	MG	5	3759	1/1	0.89	0.54	21.26	43,43,43,43	0
93	MG	o3	203	1/1	0.90	0.65	21.02	36,36,36,36	0
93	MG	1	3836	1/1	0.90	0.73	20.77	32,32,32,32	0
93	MG	5	3917	1/1	0.97	0.55	20.64	36,36,36,36	0
93	MG	6	2131	1/1	0.94	0.47	20.26	60,60,60,60	0
93	MG	1	3790	1/1	0.91	0.50	19.98	33,33,33,33	0
93	MG	5	3811	1/1	0.70	0.48	19.81	39,39,39,39	0
93	MG	1	3984	1/1	0.98	0.47	19.58	37,37,37,37	0
93	MG	5	3851	1/1	0.88	0.62	19.45	31,31,31,31	0
93	MG	5	3865	1/1	0.91	0.54	19.35	38,38,38,38	0
93	MG	5	3942	1/1	0.88	0.44	18.94	34,34,34,34	0
93	MG	1	3909	1/1	0.93	0.58	18.92	41,41,41,41	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	1	4036	1/1	0.94	0.56	18.80	37,37,37,37	0
93	MG	1	3914	1/1	0.97	0.56	18.23	49,49,49,49	0
93	MG	5	4034	1/1	0.97	0.61	18.16	34,34,34,34	0
93	MG	2	2126	1/1	0.89	0.57	17.78	78,78,78,78	0
93	MG	1	3989	1/1	0.94	0.69	17.63	59,59,59,59	0
93	MG	1	4072	1/1	0.93	0.65	17.51	34,34,34,34	0
93	MG	1	3739	1/1	0.86	0.47	17.40	37,37,37,37	0
95	PHE	5	3401	11/12	0.68	0.49	17.21	31,31,41,41	0
93	MG	L4	406	1/1	0.96	0.73	17.20	33,33,33,33	0
93	MG	5	3962	1/1	0.97	0.48	17.09	39,39,39,39	0
93	MG	5	3840	1/1	0.69	0.50	16.55	45,45,45,45	0
93	MG	1	3919	1/1	0.97	0.50	16.36	32,32,32,32	0
93	MG	1	3845	1/1	0.94	0.64	16.00	39,39,39,39	0
93	MG	5	3912	1/1	0.99	0.42	15.96	34,34,34,34	0
93	MG	5	3755	1/1	0.71	0.53	15.78	45,45,45,45	0
93	MG	1	3896	1/1	0.96	0.62	15.70	37,37,37,37	0
93	MG	1	4104	1/1	0.94	0.40	15.44	39,39,39,39	0
93	MG	5	3820	1/1	0.97	0.49	15.23	31,31,31,31	0
93	MG	1	3851	1/1	0.95	0.45	15.22	33,33,33,33	0
93	MG	1	4045	1/1	0.97	0.40	15.17	35,35,35,35	0
93	MG	N3	201	1/1	0.94	0.50	14.40	41,41,41,41	0
93	MG	5	3894	1/1	0.88	0.60	14.06	43,43,43,43	0
93	MG	1	3894	1/1	0.95	0.50	14.01	46,46,46,46	0
93	MG	1	3971	1/1	0.96	0.52	14.00	37,37,37,37	0
93	MG	1	3867	1/1	0.99	0.54	13.98	40,40,40,40	0
92	OHX	5	3718	7/7	0.97	0.39	13.75	48,48,48,48	0
93	MG	1	4077	1/1	0.78	0.52	13.49	51,51,51,51	0
93	MG	5	3858	1/1	0.84	0.45	13.49	42,42,42,42	0
93	MG	5	4094	1/1	0.79	0.38	13.29	34,34,34,34	0
93	MG	N0	201	1/1	0.93	0.93	13.15	43,43,43,43	0
93	MG	6	2084	1/1	0.83	0.42	13.15	60,60,60,60	0
93	MG	5	3930	1/1	0.98	0.58	13.11	29,29,29,29	0
92	OHX	1	3727	7/7	0.95	0.37	13.06	69,69,69,69	0
93	MG	5	3754	1/1	0.93	0.38	12.73	43,43,43,43	0
92	OHX	5	3658	7/7	0.96	0.27	12.61	50,50,50,50	0
92	OHX	1	3729	7/7	0.97	0.35	12.60	55,55,55,55	0
92	OHX	5	3617	7/7	0.97	0.34	12.32	63,63,63,63	0
92	OHX	1	3703	7/7	0.98	0.33	12.31	49,49,49,49	0
93	MG	1	3786	1/1	0.77	0.49	12.19	51,51,51,51	0
93	MG	5	3934	1/1	0.97	0.72	12.14	41,41,41,41	0
93	MG	5	3766	1/1	0.95	0.49	12.02	31,31,31,31	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	3868	1/1	0.82	0.40	11.97	33,33,33,33	0
93	MG	1	3844	1/1	0.99	0.45	11.95	36,36,36,36	0
93	MG	2	2060	1/1	0.92	0.71	11.89	74,74,74,74	0
93	MG	5	3937	1/1	0.96	0.50	11.82	34,34,34,34	0
93	MG	5	4013	1/1	0.91	0.46	11.51	32,32,32,32	0
93	MG	5	3925	1/1	0.92	0.48	11.50	38,38,38,38	0
92	OHX	1	3599	7/7	0.98	0.32	11.43	50,50,50,50	0
93	MG	5	3941	1/1	0.86	0.53	11.38	38,38,38,38	0
93	MG	5	3844	1/1	0.92	0.61	11.35	38,38,38,38	0
93	MG	1	3944	1/1	0.84	0.34	11.27	47,47,47,47	0
93	MG	2	2076	1/1	0.73	0.42	11.25	86,86,86,86	0
92	OHX	4	215	7/7	0.98	0.32	11.19	48,48,48,48	0
92	OHX	5	3707	7/7	0.98	0.44	11.17	76,76,76,76	0
93	MG	5	4071	1/1	0.93	0.41	10.92	33,33,33,33	0
93	MG	L3	405	1/1	0.93	0.79	10.91	41,41,41,41	0
93	MG	1	4074	1/1	0.96	0.60	10.84	41,41,41,41	0
93	MG	5	4169	1/1	0.93	1.01	10.83	44,44,44,44	0
93	MG	1	4014	1/1	0.92	0.38	10.78	37,37,37,37	0
93	MG	5	4140	1/1	0.93	0.45	10.78	38,38,38,38	0
92	OHX	1	3712	7/7	0.99	0.30	10.66	58,58,58,58	0
93	MG	2	2071	1/1	0.96	0.51	10.66	79,79,79,79	0
93	MG	5	3933	1/1	0.96	0.39	10.63	31,31,31,31	0
93	MG	1	3853	1/1	0.89	0.63	10.60	52,52,52,52	0
92	OHX	5	3609	7/7	0.99	0.36	10.57	67,67,67,67	0
93	MG	5	3854	1/1	0.96	0.59	10.48	31,31,31,31	0
93	MG	5	4119	1/1	0.73	0.44	10.42	43,43,43,43	0
93	MG	1	4123	1/1	0.98	0.27	10.14	37,37,37,37	0
93	MG	1	3949	1/1	0.94	0.45	10.06	48,48,48,48	0
93	MG	6	2068	1/1	0.90	0.45	9.93	105,105,105,105	0
93	MG	5	4078	1/1	0.98	0.32	9.81	61,61,61,61	0
93	MG	5	4110	1/1	0.95	0.39	9.74	32,32,32,32	0
93	MG	1	3824	1/1	0.97	0.31	9.70	37,37,37,37	0
93	MG	6	2079	1/1	0.85	0.41	9.69	72,72,72,72	0
93	MG	1	3918	1/1	0.98	0.56	9.55	32,32,32,32	0
93	MG	5	4025	1/1	0.93	0.55	9.55	41,41,41,41	0
92	OHX	6	2029	7/7	0.97	0.44	9.53	69,69,69,69	0
93	MG	l3	406	1/1	0.92	0.77	9.52	34,34,34,34	0
93	MG	1	3907	1/1	0.91	0.45	9.41	49,49,49,49	0
93	MG	1	3800	1/1	0.96	0.41	9.25	39,39,39,39	0
93	MG	1	3966	1/1	0.90	0.34	9.14	44,44,44,44	0
93	MG	6	2105	1/1	0.83	0.56	9.04	65,65,65,65	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3661	7/7	0.97	0.38	8.94	58,58,58,58	0
93	MG	d3	201	1/1	0.79	0.50	8.89	55,55,55,55	0
93	MG	5	3893	1/1	0.73	0.28	8.82	43,43,43,43	0
93	MG	5	3916	1/1	0.94	0.50	8.81	48,48,48,48	0
93	MG	1	3737	1/1	0.87	0.36	8.77	47,47,47,47	0
92	OHX	1	3646	7/7	0.95	0.33	8.61	57,57,57,57	0
93	MG	5	3932	1/1	0.96	0.57	8.60	37,37,37,37	0
93	MG	1	3835	1/1	0.94	0.38	8.54	35,35,35,35	0
92	OHX	1	3648	7/7	0.99	0.33	8.51	55,55,55,55	0
93	MG	2	2110	1/1	0.74	0.45	8.51	76,76,76,76	0
93	MG	6	2128	1/1	0.82	0.36	8.27	88,88,88,88	0
93	MG	5	3768	1/1	0.97	0.55	8.25	36,36,36,36	0
93	MG	1	3937	1/1	0.90	0.33	8.23	40,40,40,40	0
93	MG	1	3841	1/1	0.96	0.39	8.17	41,41,41,41	0
93	MG	5	3867	1/1	0.90	0.46	8.09	44,44,44,44	0
92	OHX	5	3689	7/7	0.98	0.40	8.08	59,59,59,59	0
93	MG	M7	204	1/1	0.91	0.45	8.05	38,38,38,38	0
93	MG	5	3901	1/1	0.96	0.34	7.97	32,32,32,32	0
93	MG	5	4159	1/1	0.93	0.32	7.91	39,39,39,39	0
92	OHX	1	3685	7/7	0.94	0.37	7.91	65,65,65,65	0
93	MG	1	3868	1/1	0.96	0.39	7.88	44,44,44,44	0
93	MG	5	3837	1/1	0.98	0.39	7.88	34,34,34,34	0
93	MG	2	2141	1/1	0.61	0.57	7.82	79,79,79,79	0
92	OHX	1	3699	7/7	0.98	0.28	7.75	60,60,60,60	0
92	OHX	5	3698	7/7	0.98	0.36	7.64	59,59,59,59	0
93	MG	1	3916	1/1	0.97	0.50	7.62	34,34,34,34	0
92	OHX	1	3654	7/7	0.98	0.31	7.59	60,60,60,60	0
92	OHX	8	210	7/7	0.98	0.30	7.47	57,57,57,57	0
93	MG	1	3882	1/1	0.98	0.30	7.44	33,33,33,33	0
92	OHX	1	3642	7/7	0.97	0.25	7.43	64,64,64,64	0
92	OHX	7	211	7/7	0.96	0.30	7.43	69,69,69,69	0
93	MG	l3	405	1/1	0.87	0.37	7.42	38,38,38,38	0
92	OHX	1	3728	7/7	0.92	0.35	7.40	50,50,50,50	0
93	MG	1	3932	1/1	0.76	0.25	7.34	37,37,37,37	0
92	OHX	5	3551	7/7	0.98	0.26	7.30	49,49,49,49	0
93	MG	1	4088	1/1	0.90	0.98	7.30	34,34,34,34	0
92	OHX	5	3662	7/7	0.98	0.37	7.27	51,51,51,51	0
93	MG	5	3983	1/1	0.90	0.35	7.26	35,35,35,35	0
92	OHX	1	3579	7/7	0.97	0.30	7.25	59,59,59,59	0
93	MG	1	4097	1/1	0.82	0.30	7.25	49,49,49,49	0
93	MG	5	3961	1/1	0.94	0.31	7.23	41,41,41,41	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3740	7/7	0.96	0.35	7.21	55,55,55,55	0
92	OHX	1	3665	7/7	0.98	0.27	7.19	66,66,66,66	0
93	MG	5	3859	1/1	0.96	0.44	7.03	32,32,32,32	0
93	MG	5	3801	1/1	0.91	0.33	7.00	31,31,31,31	0
93	MG	8	218	1/1	0.94	0.34	6.91	37,37,37,37	0
92	OHX	1	3688	7/7	0.98	0.36	6.88	58,58,58,58	0
93	MG	2	2123	1/1	0.87	0.49	6.88	96,96,96,96	0
93	MG	1	3826	1/1	0.78	0.33	6.86	49,49,49,49	0
92	OHX	4	212	7/7	0.98	0.25	6.85	50,50,50,50	0
92	OHX	5	3670	7/7	0.97	0.31	6.77	50,50,50,50	0
93	MG	1	4100	1/1	0.94	0.82	6.76	45,45,45,45	0
93	MG	5	4113	1/1	0.94	0.29	6.68	35,35,35,35	0
92	OHX	5	3623	7/7	0.95	0.24	6.66	59,59,59,59	0
92	OHX	8	211	7/7	0.96	0.27	6.59	60,60,60,60	0
93	MG	1	3899	1/1	0.97	0.44	6.57	34,34,34,34	0
92	OHX	6	2037	7/7	0.93	0.38	6.56	77,77,77,77	0
93	MG	1	3812	1/1	0.98	0.35	6.53	40,40,40,40	0
93	MG	m5	303	1/1	0.90	0.38	6.53	37,37,37,37	0
93	MG	2	2062	1/1	0.77	0.29	6.53	98,98,98,98	0
92	OHX	1	3721	7/7	0.95	0.30	6.50	61,61,61,61	0
93	MG	5	3813	1/1	0.96	0.42	6.45	44,44,44,44	0
92	OHX	5	3664	7/7	0.97	0.30	6.43	71,71,71,71	0
92	OHX	6	2051	7/7	0.96	0.36	6.41	84,84,84,84	0
92	OHX	5	3684	7/7	0.98	0.44	6.40	72,72,72,72	0
92	OHX	1	3597	7/7	0.98	0.28	6.40	56,56,56,56	0
93	MG	5	4112	1/1	0.86	0.93	6.34	45,45,45,45	0
92	OHX	8	213	7/7	0.96	0.32	6.28	62,62,62,62	0
93	MG	6	2069	1/1	0.95	0.35	6.27	61,61,61,61	0
92	OHX	5	3565	7/7	0.98	0.26	6.25	59,59,59,59	0
93	MG	n3	201	1/1	0.90	0.39	6.23	32,32,32,32	0
92	OHX	4	218	7/7	0.96	0.34	6.20	67,67,67,67	0
92	OHX	5	3573	7/7	0.98	0.22	6.19	54,54,54,54	0
92	OHX	5	3721	7/7	0.98	0.25	6.19	49,49,49,49	0
93	MG	1	3969	1/1	0.97	0.27	6.13	42,42,42,42	0
93	MG	2	2099	1/1	0.89	0.60	6.13	80,80,80,80	0
93	MG	6	2080	1/1	0.69	0.63	6.10	63,63,63,63	0
93	MG	5	4145	1/1	0.98	0.36	6.10	34,34,34,34	0
93	MG	1	3801	1/1	0.97	0.37	6.09	32,32,32,32	0
92	OHX	5	3632	7/7	0.96	0.31	6.07	51,51,51,51	0
92	OHX	1	3626	7/7	0.96	0.34	6.06	70,70,70,70	0
92	OHX	1	3621	7/7	0.96	0.25	6.05	70,70,70,70	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3647	7/7	0.98	0.41	5.98	63,63,63,63	0
96	LEU	5	3402	8/9	0.79	0.36	5.97	36,36,36,36	0
92	OHX	2	2025	7/7	0.94	0.36	5.97	85,85,85,85	0
93	MG	2	2095	1/1	0.81	0.39	5.94	80,80,80,80	0
93	MG	5	3780	1/1	0.71	0.32	5.94	57,57,57,57	0
92	OHX	5	3705	7/7	0.98	0.34	5.92	59,59,59,59	0
92	OHX	5	3671	7/7	0.95	0.33	5.91	40,40,40,40	0
93	MG	4	227	1/1	0.97	0.35	5.91	36,36,36,36	0
93	MG	5	3785	1/1	0.97	0.27	5.87	33,33,33,33	0
93	MG	5	3773	1/1	0.98	0.31	5.77	38,38,38,38	0
92	OHX	5	3716	7/7	0.96	0.36	5.76	59,59,59,59	0
93	MG	5	4022	1/1	0.76	0.38	5.72	65,65,65,65	0
93	MG	1	3952	1/1	0.80	0.27	5.68	32,32,32,32	0
93	MG	1	4073	1/1	0.88	0.75	5.62	37,37,37,37	0
93	MG	7	222	1/1	0.95	0.31	5.59	35,35,35,35	0
92	OHX	5	3636	7/7	0.98	0.27	5.58	46,46,46,46	0
92	OHX	1	3614	7/7	0.95	0.34	5.58	58,58,58,58	0
92	OHX	5	3694	7/7	0.98	0.25	5.57	63,63,63,63	0
92	OHX	5	3643	7/7	0.98	0.30	5.54	49,49,49,49	0
92	OHX	1	3560	7/7	0.95	0.31	5.52	54,54,54,54	0
93	MG	1	3883	1/1	0.93	0.34	5.45	44,44,44,44	0
92	OHX	5	3659	7/7	0.96	0.30	5.42	58,58,58,58	0
92	OHX	5	3720	7/7	0.97	0.28	5.38	67,67,67,67	0
93	MG	1	3892	1/1	0.98	0.45	5.37	33,33,33,33	0
93	MG	n0	202	1/1	0.97	0.60	5.36	37,37,37,37	0
93	MG	2	2065	1/1	0.91	0.39	5.35	88,88,88,88	0
93	MG	5	4070	1/1	0.87	0.69	5.33	40,40,40,40	0
92	OHX	1	3590	7/7	0.98	0.29	5.26	53,53,53,53	0
93	MG	2	2089	1/1	0.72	0.39	5.23	85,85,85,85	0
92	OHX	1	3667	7/7	0.94	0.32	5.16	81,81,81,81	0
93	MG	N5	201	1/1	0.95	0.37	5.15	43,43,43,43	0
93	MG	4	228	1/1	0.93	0.27	5.14	32,32,32,32	0
93	MG	5	3793	1/1	0.92	0.26	5.14	42,42,42,42	0
93	MG	O5	201	1/1	0.92	0.55	5.09	42,42,42,42	0
93	MG	5	3890	1/1	0.92	0.41	5.06	48,48,48,48	0
92	OHX	1	3594	7/7	0.93	0.32	5.05	66,66,66,66	0
93	MG	1	4108	1/1	0.96	0.36	5.05	48,48,48,48	0
92	OHX	5	3695	7/7	0.98	0.30	5.05	55,55,55,55	0
92	OHX	5	3739	7/7	0.93	0.44	5.04	69,69,69,69	0
93	MG	5	4069	1/1	0.95	0.43	5.03	35,35,35,35	0
93	MG	5	3789	1/1	0.98	0.33	5.00	32,32,32,32	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3688	7/7	0.96	0.38	4.98	66,66,66,66	0
93	MG	P	102	1/1	0.96	0.40	4.97	39,39,39,39	0
92	OHX	5	3700	7/7	0.94	0.33	4.92	63,63,63,63	0
92	OHX	1	3718	7/7	0.98	0.32	4.90	64,64,64,64	0
93	MG	M7	206	1/1	0.98	0.58	4.86	37,37,37,37	0
92	OHX	5	3570	7/7	0.97	0.23	4.86	63,63,63,63	0
92	OHX	1	3649	7/7	0.98	0.30	4.80	65,65,65,65	0
93	MG	12	303	1/1	0.98	0.93	4.77	44,44,44,44	0
92	OHX	5	3645	7/7	0.97	0.31	4.74	53,53,53,53	0
93	MG	1	3922	1/1	0.87	0.23	4.74	42,42,42,42	0
93	MG	1	4098	1/1	0.94	0.32	4.73	41,41,41,41	0
93	MG	5	4053	1/1	0.94	0.37	4.73	34,34,34,34	0
92	OHX	2	1995	7/7	0.94	0.27	4.69	103,103,103,103	0
93	MG	2	2115	1/1	0.87	0.62	4.68	84,84,84,84	0
93	MG	n8	203	1/1	0.95	0.80	4.65	34,34,34,34	0
93	MG	1	4099	1/1	0.84	0.54	4.63	58,58,58,58	0
93	MG	5	4098	1/1	0.82	0.37	4.63	45,45,45,45	0
92	OHX	7	209	7/7	0.98	0.25	4.62	46,46,46,46	0
93	MG	1	4082	1/1	0.96	0.27	4.60	38,38,38,38	0
93	MG	1	3977	1/1	0.83	0.51	4.59	36,36,36,36	0
93	MG	1	3814	1/1	0.98	0.29	4.58	44,44,44,44	0
93	MG	5	3869	1/1	0.87	0.27	4.57	40,40,40,40	0
93	MG	1	4071	1/1	0.97	0.25	4.57	35,35,35,35	0
92	OHX	1	3653	7/7	0.98	0.26	4.56	57,57,57,57	0
92	OHX	1	3671	7/7	0.97	0.32	4.55	65,65,65,65	0
92	OHX	1	3675	7/7	0.96	0.32	4.53	61,61,61,61	0
93	MG	5	4168	1/1	0.97	0.23	4.49	32,32,32,32	0
92	OHX	5	3729	7/7	0.96	0.33	4.49	49,49,49,49	0
93	MG	1	3822	1/1	0.96	0.31	4.43	40,40,40,40	0
93	MG	1	4091	1/1	0.97	0.55	4.39	42,42,42,42	0
92	OHX	5	3531	7/7	0.97	0.25	4.35	55,55,55,55	0
92	OHX	6	2035	7/7	0.96	0.41	4.34	84,84,84,84	0
92	OHX	5	3660	7/7	0.97	0.30	4.29	70,70,70,70	0
92	OHX	5	3630	7/7	0.97	0.31	4.28	53,53,53,53	0
92	OHX	1	3660	7/7	0.98	0.32	4.26	70,70,70,70	0
92	OHX	1	3687	7/7	0.97	0.27	4.24	67,67,67,67	0
92	OHX	5	3687	7/7	0.98	0.37	4.23	58,58,58,58	0
93	MG	5	3892	1/1	0.85	0.32	4.23	40,40,40,40	0
92	OHX	5	3554	7/7	0.95	0.31	4.22	50,50,50,50	0
93	MG	5	4079	1/1	0.94	0.46	4.21	43,43,43,43	0
93	MG	4	233	1/1	0.89	0.35	4.17	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	2	2029	7/7	0.97	0.29	4.14	79,79,79,79	0
93	MG	1	3925	1/1	0.98	0.26	4.12	42,42,42,42	0
92	OHX	1	3662	7/7	0.98	0.32	4.11	50,50,50,50	0
92	OHX	5	3693	7/7	0.96	0.27	4.11	70,70,70,70	0
92	OHX	5	3681	7/7	0.98	0.31	4.07	45,45,45,45	0
93	MG	sM	202	1/1	0.97	0.61	4.02	45,45,45,45	0
92	OHX	5	3599	7/7	0.96	0.28	4.01	68,68,68,68	0
93	MG	1	3809	1/1	0.66	0.32	3.97	37,37,37,37	0
93	MG	L3	403	1/1	0.90	0.57	3.97	51,51,51,51	0
93	MG	5	3752	1/1	0.75	0.32	3.96	45,45,45,45	0
92	OHX	1	3508	7/7	0.99	0.20	3.93	51,51,51,51	0
92	OHX	1	3576	7/7	0.97	0.28	3.93	47,47,47,47	0
92	OHX	1	3537	7/7	0.98	0.25	3.87	61,61,61,61	0
93	MG	5	3944	1/1	0.94	0.37	3.85	40,40,40,40	0
93	MG	5	4174	1/1	0.81	0.45	3.85	31,31,31,31	0
93	MG	1	3745	1/1	0.95	0.36	3.85	41,41,41,41	0
92	OHX	1	3655	7/7	0.97	0.29	3.82	55,55,55,55	0
93	MG	L7	302	1/1	0.90	0.61	3.80	39,39,39,39	0
92	OHX	2	2031	7/7	0.93	0.31	3.79	103,103,103,103	0
92	OHX	5	3706	7/7	0.98	0.36	3.78	54,54,54,54	0
98	8AN	P	101	22/23	0.91	0.25	3.78	37,38,38,38	0
92	OHX	1	3525	7/7	0.98	0.24	3.77	57,57,57,57	0
92	OHX	5	3549	7/7	0.98	0.24	3.74	49,49,49,49	0
92	OHX	6	2032	7/7	0.95	0.26	3.74	92,92,92,92	0
92	OHX	5	3590	7/7	0.98	0.28	3.71	47,47,47,47	0
93	MG	1	4002	1/1	0.92	0.28	3.70	52,52,52,52	0
92	OHX	6	2033	7/7	0.96	0.37	3.69	78,78,78,78	0
93	MG	7	221	1/1	0.82	0.51	3.68	47,47,47,47	0
93	MG	1	4093	1/1	0.96	0.59	3.68	33,33,33,33	0
93	MG	O7	105	1/1	0.73	0.53	3.68	42,42,42,42	0
93	MG	M7	205	1/1	0.90	0.31	3.63	38,38,38,38	0
93	MG	N3	203	1/1	0.96	0.34	3.63	46,46,46,46	0
92	OHX	2	2047	7/7	0.94	0.44	3.61	105,105,105,105	0
93	MG	1	3767	1/1	0.98	0.33	3.60	36,36,36,36	0
92	OHX	5	3527	7/7	0.97	0.24	3.60	47,47,47,47	0
92	OHX	5	3607	7/7	0.98	0.31	3.56	59,59,59,59	0
93	MG	2	2069	1/1	0.97	0.35	3.54	79,79,79,79	0
92	OHX	m0	303	7/7	0.98	0.32	3.54	53,53,53,53	0
92	OHX	5	3606	7/7	0.98	0.25	3.53	61,61,61,61	0
92	OHX	5	3578	7/7	0.96	0.30	3.52	50,50,50,50	0
92	OHX	5	3652	7/7	0.95	0.37	3.51	48,48,48,48	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3714	7/7	0.96	0.36	3.46	72,72,72,72	0
92	OHX	1	3674	7/7	0.97	0.40	3.44	73,73,73,73	0
92	OHX	1	3643	7/7	0.98	0.27	3.43	77,77,77,77	0
92	OHX	5	3644	7/7	0.96	0.26	3.42	48,48,48,48	0
92	OHX	1	3702	7/7	0.93	0.27	3.38	38,38,38,38	0
92	OHX	8	212	7/7	0.97	0.34	3.37	76,76,76,76	0
92	OHX	6	2024	7/7	0.96	0.39	3.37	103,103,103,103	0
92	OHX	1	3684	7/7	0.99	0.25	3.35	56,56,56,56	0
93	MG	6	2118	1/1	0.92	0.30	3.35	96,96,96,96	0
93	MG	1	3875	1/1	0.93	0.49	3.34	44,44,44,44	0
92	OHX	1	3670	7/7	0.98	0.25	3.32	60,60,60,60	0
92	OHX	5	3724	7/7	0.95	0.30	3.31	36,36,36,36	0
92	OHX	1	3645	7/7	0.98	0.32	3.29	61,61,61,61	0
92	OHX	1	3605	7/7	0.93	0.37	3.28	43,43,43,43	0
92	OHX	5	3582	7/7	0.99	0.23	3.28	56,56,56,56	0
92	OHX	5	3709	7/7	0.98	0.31	3.28	68,68,68,68	0
93	MG	6	2071	1/1	0.81	0.55	3.27	63,63,63,63	0
93	MG	d6	102	1/1	0.91	0.59	3.26	64,64,64,64	0
92	OHX	3	208	7/7	0.97	0.21	3.24	81,81,81,81	0
92	OHX	1	3693	7/7	0.98	0.26	3.23	69,69,69,69	0
92	OHX	1	3678	7/7	0.97	0.32	3.22	54,54,54,54	0
92	OHX	5	3641	7/7	0.99	0.27	3.22	59,59,59,59	0
93	MG	2	2080	1/1	0.96	0.31	3.21	82,82,82,82	0
93	MG	1	4107	1/1	0.84	0.27	3.16	39,39,39,39	0
93	MG	1	4034	1/1	0.92	0.25	3.13	34,34,34,34	0
93	MG	6	2090	1/1	0.97	0.26	3.11	56,56,56,56	0
93	MG	M7	202	1/1	0.63	0.77	3.08	52,52,52,52	0
93	MG	6	2113	1/1	0.90	0.42	3.06	55,55,55,55	0
92	OHX	6	2058	7/7	0.96	0.29	3.04	100,100,100,100	0
92	OHX	2	2021	7/7	0.96	0.31	3.04	110,110,110,110	0
93	MG	17	301	1/1	0.99	0.42	3.03	34,34,34,34	0
93	MG	5	4054	1/1	0.92	0.52	3.02	65,65,65,65	0
93	MG	2	2131	1/1	0.82	0.35	3.01	80,80,80,80	0
92	OHX	5	3648	7/7	0.91	0.34	3.01	64,64,64,64	0
93	MG	1	3832	1/1	0.75	0.39	2.95	31,31,31,31	0
92	OHX	1	3726	7/7	0.96	0.39	2.92	87,87,87,87	0
92	OHX	6	2009	7/7	0.97	0.26	2.91	88,88,88,88	0
93	MG	6	2175	1/1	0.77	0.29	2.86	64,64,64,64	0
92	OHX	5	3602	7/7	0.94	0.24	2.82	84,84,84,84	0
93	MG	7	223	1/1	0.84	0.25	2.81	36,36,36,36	0
93	MG	1	3763	1/1	0.93	0.26	2.81	34,34,34,34	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3663	7/7	0.98	0.25	2.80	71,71,71,71	0
93	MG	1	3807	1/1	0.96	0.28	2.79	41,41,41,41	0
93	MG	6	2134	1/1	0.97	0.28	2.78	57,57,57,57	0
92	OHX	8	214	7/7	0.96	0.33	2.78	59,59,59,59	0
93	MG	1	3816	1/1	0.95	0.29	2.76	41,41,41,41	0
92	OHX	6	1992	7/7	0.98	0.26	2.72	88,88,88,88	0
92	OHX	2	2049	7/7	0.91	0.37	2.71	108,108,108,108	0
92	OHX	6	2012	7/7	0.97	0.29	2.71	76,76,76,76	0
93	MG	1	3923	1/1	0.96	0.28	2.70	34,34,34,34	0
92	OHX	5	3611	7/7	0.99	0.26	2.70	45,45,45,45	0
92	OHX	5	3598	7/7	0.96	0.30	2.66	51,51,51,51	0
93	MG	5	3753	1/1	0.88	0.29	2.65	32,32,32,32	0
93	MG	1	3741	1/1	0.92	0.27	2.64	48,48,48,48	0
92	OHX	1	3569	7/7	0.97	0.29	2.61	63,63,63,63	0
93	MG	5	3775	1/1	0.98	0.28	2.60	33,33,33,33	0
93	MG	1	4052	1/1	0.97	0.38	2.58	33,33,33,33	0
92	OHX	5	3580	7/7	0.97	0.30	2.57	53,53,53,53	0
92	OHX	5	3591	7/7	0.98	0.28	2.56	60,60,60,60	0
92	OHX	S9	201	7/7	0.94	0.46	2.54	93,93,93,93	0
92	OHX	6	2057	7/7	0.93	0.41	2.54	92,92,92,92	0
93	MG	5	3804	1/1	0.87	0.32	2.52	38,38,38,38	0
93	MG	6	2171	1/1	0.89	0.90	2.52	68,68,68,68	0
93	MG	2	2061	1/1	0.83	0.46	2.50	83,83,83,83	0
92	OHX	2	1976	7/7	0.93	0.40	2.49	110,110,110,110	0
93	MG	1	4030	1/1	0.96	0.52	2.47	44,44,44,44	0
93	MG	2	2109	1/1	0.93	0.27	2.45	80,80,80,80	0
92	OHX	1	3538	7/7	0.96	0.28	2.44	66,66,66,66	0
92	OHX	5	3737	7/7	0.98	0.26	2.43	85,85,85,85	0
93	MG	6	2064	1/1	0.81	0.42	2.40	68,68,68,68	0
93	MG	1	3904	1/1	0.84	0.41	2.39	48,48,48,48	0
92	OHX	6	2054	7/7	0.96	0.28	2.38	89,89,89,89	0
93	MG	5	4030	1/1	0.88	0.36	2.37	36,36,36,36	0
93	MG	6	2126	1/1	0.98	0.46	2.35	62,62,62,62	0
92	OHX	1	3607	7/7	0.98	0.21	2.35	62,62,62,62	0
92	OHX	5	3601	7/7	0.95	0.25	2.32	44,44,44,44	0
92	OHX	5	3638	7/7	0.98	0.26	2.32	41,41,41,41	0
93	MG	s6	301	1/1	0.56	0.95	2.32	67,67,67,67	0
93	MG	L4	405	1/1	0.97	0.36	2.31	37,37,37,37	0
92	OHX	1	3629	7/7	0.98	0.22	2.28	79,79,79,79	0
93	MG	1	3864	1/1	0.91	0.26	2.28	30,30,30,30	0
92	OHX	1	3603	7/7	0.97	0.23	2.27	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	1	4033	1/1	0.98	0.26	2.26	47,47,47,47	0
92	OHX	6	1990	7/7	0.97	0.21	2.24	79,79,79,79	0
92	OHX	2	1979	7/7	0.98	0.24	2.24	82,82,82,82	0
93	MG	1	3831	1/1	0.96	0.34	2.24	38,38,38,38	0
93	MG	N6	201	1/1	0.80	0.39	2.21	40,40,40,40	0
93	MG	1	3820	1/1	0.98	0.21	2.21	43,43,43,43	0
92	OHX	5	3597	7/7	0.95	0.22	2.20	68,68,68,68	0
93	MG	6	2107	1/1	0.86	0.37	2.16	63,63,63,63	0
92	OHX	2	2043	7/7	0.97	0.33	2.16	85,85,85,85	0
93	MG	2	2087	1/1	0.90	0.29	2.12	77,77,77,77	0
92	OHX	5	3576	7/7	0.98	0.30	2.11	65,65,65,65	0
93	MG	6	2139	1/1	0.89	0.50	2.07	57,57,57,57	0
92	OHX	5	3624	7/7	0.98	0.23	2.07	58,58,58,58	0
92	OHX	1	3620	7/7	0.98	0.26	2.04	41,41,41,41	0
93	MG	m7	201	1/1	0.91	0.32	2.03	34,34,34,34	0
92	OHX	6	2042	7/7	0.94	0.26	2.03	94,94,94,94	0
93	MG	5	4005	1/1	0.96	0.23	2.02	36,36,36,36	0
92	OHX	1	3631	7/7	0.96	0.26	1.99	59,59,59,59	0
92	OHX	6	1977	7/7	0.97	0.21	1.99	97,97,97,97	0
92	OHX	5	3542	7/7	0.97	0.21	1.98	57,57,57,57	0
93	MG	8	217	1/1	0.90	0.21	1.97	36,36,36,36	0
93	MG	6	2063	1/1	0.88	0.24	1.97	89,89,89,89	0
93	MG	5	3998	1/1	0.95	0.32	1.96	35,35,35,35	0
92	OHX	2	1985	7/7	0.96	0.32	1.96	98,98,98,98	0
93	MG	1	4031	1/1	0.97	0.26	1.95	40,40,40,40	0
92	OHX	5	3676	7/7	0.98	0.25	1.94	59,59,59,59	0
92	OHX	1	3658	7/7	0.97	0.34	1.93	65,65,65,65	0
92	OHX	O4	201	7/7	0.97	0.45	1.93	73,73,73,73	0
93	MG	5	3986	1/1	0.95	0.19	1.93	49,49,49,49	0
93	MG	6	2092	1/1	0.60	0.18	1.93	88,88,88,88	0
92	OHX	5	3710	7/7	0.94	0.36	1.90	57,57,57,57	0
93	MG	m5	304	1/1	0.82	0.35	1.90	47,47,47,47	0
92	OHX	5	3604	7/7	0.98	0.26	1.89	57,57,57,57	0
92	OHX	1	3683	7/7	0.91	0.36	1.88	87,87,87,87	0
93	MG	5	3914	1/1	0.97	0.32	1.88	35,35,35,35	0
92	OHX	2	2035	7/7	0.94	0.26	1.88	107,107,107,107	0
92	OHX	3	210	7/7	0.96	0.40	1.86	85,85,85,85	0
93	MG	1	3803	1/1	0.88	0.36	1.85	36,36,36,36	0
93	MG	d4	202	1/1	0.75	0.26	1.85	65,65,65,65	0
93	MG	1	3752	1/1	0.81	0.30	1.85	38,38,38,38	0
92	OHX	6	1969	7/7	0.97	0.19	1.85	99,99,99,99	0
93	MG	6	2170	1/1	0.85	0.46	1.83	64,64,64,64	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3528	7/7	0.97	0.23	1.83	46,46,46,46	0
92	OHX	1	3640	7/7	0.98	0.34	1.81	63,63,63,63	0
93	MG	5	3838	1/1	0.92	0.36	1.79	37,37,37,37	0
92	OHX	1	3657	7/7	0.97	0.25	1.79	50,50,50,50	0
92	OHX	1	3669	7/7	0.97	0.27	1.78	63,63,63,63	0
92	OHX	5	3562	7/7	0.98	0.22	1.78	60,60,60,60	0
92	OHX	4	209	7/7	0.98	0.27	1.75	56,56,56,56	0
92	OHX	6	2013	7/7	0.96	0.28	1.75	72,72,72,72	0
92	OHX	4	211	7/7	0.98	0.22	1.75	63,63,63,63	0
92	OHX	6	2025	7/7	0.95	0.34	1.74	70,70,70,70	0
93	MG	5	3897	1/1	0.76	0.42	1.72	48,48,48,48	0
92	OHX	1	3676	7/7	0.96	0.26	1.70	64,64,64,64	0
93	MG	5	3885	1/1	0.97	0.41	1.70	32,32,32,32	0
93	MG	6	2168	1/1	0.96	0.24	1.68	57,57,57,57	0
92	OHX	4	221	7/7	0.97	0.30	1.67	61,61,61,61	0
92	OHX	1	3542	7/7	0.97	0.22	1.67	60,60,60,60	0
93	MG	C1	201	1/1	0.47	0.61	1.63	76,76,76,76	0
92	OHX	1	3566	7/7	0.98	0.23	1.63	57,57,57,57	0
93	MG	6	2094	1/1	0.83	0.26	1.63	77,77,77,77	0
92	OHX	1	3713	7/7	0.98	0.38	1.62	58,58,58,58	0
92	OHX	5	3587	7/7	0.97	0.25	1.61	47,47,47,47	0
92	OHX	2	2023	7/7	0.95	0.28	1.61	91,91,91,91	0
92	OHX	5	3619	7/7	0.97	0.30	1.60	68,68,68,68	0
92	OHX	5	3585	7/7	0.97	0.29	1.60	58,58,58,58	0
92	OHX	6	1965	7/7	0.98	0.24	1.59	77,77,77,77	0
93	MG	5	4049	1/1	0.88	0.27	1.57	36,36,36,36	0
92	OHX	2	2011	7/7	0.93	0.35	1.57	104,104,104,104	0
92	OHX	5	3628	7/7	0.97	0.17	1.54	60,60,60,60	0
92	OHX	2	1988	7/7	0.97	0.26	1.53	87,87,87,87	0
92	OHX	5	3743	7/7	0.97	0.29	1.49	70,70,70,70	0
92	OHX	1	3591	7/7	0.96	0.21	1.47	92,92,92,92	0
92	OHX	5	3634	7/7	0.97	0.45	1.46	70,70,70,70	0
92	OHX	2	1999	7/7	0.95	0.36	1.46	106,106,106,106	0
93	MG	5	3953	1/1	0.94	0.34	1.45	39,39,39,39	0
92	OHX	6	1976	7/7	0.99	0.21	1.44	58,58,58,58	0
93	MG	l2	302	1/1	0.92	0.34	1.42	41,41,41,41	0
92	OHX	1	3589	7/7	0.95	0.23	1.39	45,45,45,45	0
92	OHX	2	2048	7/7	0.88	0.25	1.37	100,100,100,100	0
92	OHX	4	220	7/7	0.97	0.32	1.37	66,66,66,66	0
92	OHX	1	3644	7/7	0.97	0.27	1.36	48,48,48,48	0
92	OHX	5	3536	7/7	0.96	0.18	1.35	65,65,65,65	0
92	OHX	2	2032	7/7	0.94	0.36	1.35	106,106,106,106	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	2	2122	1/1	0.93	0.26	1.33	74,74,74,74	0
92	OHX	2	1970	7/7	0.96	0.35	1.33	98,98,98,98	0
93	MG	5	3871	1/1	0.91	0.42	1.31	59,59,59,59	0
92	OHX	5	3646	7/7	0.96	0.32	1.29	56,56,56,56	0
93	MG	m7	203	1/1	0.89	0.29	1.28	33,33,33,33	0
92	OHX	5	3618	7/7	0.97	0.33	1.28	74,74,74,74	0
93	MG	5	4043	1/1	0.84	0.30	1.27	41,41,41,41	0
92	OHX	6	2002	7/7	0.94	0.27	1.27	71,71,71,71	0
93	MG	1	3931	1/1	0.92	0.39	1.26	60,60,60,60	0
93	MG	5	3888	1/1	0.94	0.32	1.26	61,61,61,61	0
92	OHX	6	1988	7/7	0.95	0.30	1.25	82,82,82,82	0
93	MG	n6	202	1/1	0.90	0.31	1.25	42,42,42,42	0
92	OHX	6	2044	7/7	0.95	0.29	1.25	63,63,63,63	0
92	OHX	5	3589	7/7	0.97	0.24	1.25	46,46,46,46	0
92	OHX	2	1941	7/7	0.98	0.25	1.23	93,93,93,93	0
92	OHX	1	3524	7/7	0.98	0.21	1.23	59,59,59,59	0
92	OHX	1	3528	7/7	0.98	0.28	1.21	52,52,52,52	0
92	OHX	8	216	7/7	0.97	0.38	1.18	60,60,60,60	0
93	MG	2	2092	1/1	0.74	0.37	1.17	80,80,80,80	0
93	MG	5	3899	1/1	0.95	0.34	1.15	37,37,37,37	0
93	MG	6	2116	1/1	0.93	0.33	1.14	63,63,63,63	0
92	OHX	6	1970	7/7	0.92	0.52	1.14	105,105,105,105	0
92	OHX	6	1984	7/7	0.98	0.36	1.12	87,87,87,87	0
92	OHX	s9	201	7/7	0.95	0.34	1.12	77,77,77,77	0
92	OHX	1	3587	7/7	0.98	0.21	1.12	46,46,46,46	0
93	MG	6	2121	1/1	0.93	0.32	1.11	62,62,62,62	0
92	OHX	2	1986	7/7	0.93	0.33	1.10	107,107,107,107	0
92	OHX	O9	101	7/7	0.97	0.38	1.10	49,49,49,49	0
93	MG	1	3893	1/1	0.94	0.30	1.09	32,32,32,32	0
93	MG	1	3817	1/1	0.94	0.23	1.08	34,34,34,34	0
93	MG	2	2086	1/1	0.87	0.29	1.08	71,71,71,71	0
92	OHX	5	3544	7/7	0.98	0.21	1.07	45,45,45,45	0
92	OHX	1	3623	7/7	0.99	0.27	1.06	54,54,54,54	0
92	OHX	1	3696	7/7	0.94	0.31	1.06	64,64,64,64	0
93	MG	2	2130	1/1	0.89	0.20	1.06	85,85,85,85	0
92	OHX	6	2040	7/7	0.93	0.34	1.05	72,72,72,72	0
92	OHX	1	3694	7/7	0.94	0.31	1.04	80,80,80,80	0
92	OHX	5	3669	7/7	0.96	0.30	1.03	60,60,60,60	0
92	OHX	2	1963	7/7	0.97	0.24	1.02	73,73,73,73	0
92	OHX	2	2046	7/7	0.94	0.39	1.02	100,100,100,100	0
92	OHX	6	2048	7/7	0.93	0.29	0.99	77,77,77,77	0
92	OHX	1	3716	7/7	0.95	0.29	0.99	51,51,51,51	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3611	7/7	0.98	0.29	0.99	64,64,64,64	0
92	OHX	6	1998	7/7	0.94	0.24	0.99	65,65,65,65	0
92	OHX	1	3711	7/7	0.98	0.24	0.98	56,56,56,56	0
93	MG	1	4086	1/1	0.97	0.37	0.98	39,39,39,39	0
93	MG	1	3775	1/1	0.94	0.34	0.97	44,44,44,44	0
93	MG	1	3891	1/1	0.92	0.32	0.95	40,40,40,40	0
92	OHX	2	2015	7/7	0.93	0.30	0.95	92,92,92,92	0
92	OHX	5	3574	7/7	0.99	0.19	0.95	60,60,60,60	0
92	OHX	1	3575	7/7	0.98	0.24	0.95	57,57,57,57	0
92	OHX	1	3616	7/7	0.98	0.19	0.95	64,64,64,64	0
92	OHX	1	3668	7/7	0.95	0.34	0.94	92,92,92,92	0
92	OHX	1	3723	7/7	0.95	0.37	0.93	76,76,76,76	0
92	OHX	5	3675	7/7	0.98	0.23	0.92	43,43,43,43	0
92	OHX	5	3496	7/7	0.99	0.25	0.91	47,47,47,47	0
92	OHX	1	3489	7/7	0.96	0.20	0.91	47,47,47,47	0
92	OHX	6	1993	7/7	0.96	0.20	0.90	99,99,99,99	0
92	OHX	1	3543	7/7	0.97	0.21	0.88	69,69,69,69	0
93	MG	5	3819	1/1	0.96	0.26	0.87	43,43,43,43	0
92	OHX	D9	102	7/7	0.96	0.37	0.87	98,98,98,98	0
93	MG	5	4074	1/1	0.98	0.30	0.87	37,37,37,37	0
93	MG	N0	202	1/1	0.82	0.37	0.86	44,44,44,44	0
92	OHX	5	3654	7/7	0.99	0.31	0.85	54,54,54,54	0
92	OHX	1	3689	7/7	0.97	0.32	0.85	65,65,65,65	0
93	MG	2	2096	1/1	0.87	0.22	0.82	75,75,75,75	0
93	MG	5	3846	1/1	0.99	0.22	0.81	45,45,45,45	0
92	OHX	1	3635	7/7	0.98	0.22	0.81	57,57,57,57	0
92	OHX	5	3605	7/7	0.97	0.26	0.81	46,46,46,46	0
93	MG	1	4057	1/1	0.98	0.22	0.80	34,34,34,34	0
92	OHX	2	1931	7/7	0.98	0.28	0.80	95,95,95,95	0
92	OHX	5	3745	7/7	0.96	0.18	0.80	59,59,59,59	0
93	MG	C9	201	1/1	0.82	0.49	0.79	96,96,96,96	0
92	OHX	6	2028	7/7	0.98	0.23	0.79	62,62,62,62	0
93	MG	1	3732	1/1	0.96	0.23	0.77	47,47,47,47	0
92	OHX	1	3619	7/7	0.97	0.28	0.74	59,59,59,59	0
93	MG	1	3813	1/1	0.99	0.23	0.74	47,47,47,47	0
93	MG	5	4105	1/1	0.92	0.31	0.74	38,38,38,38	0
93	MG	5	3765	1/1	0.94	0.23	0.74	34,34,34,34	0
93	MG	5	4132	1/1	0.99	0.21	0.71	32,32,32,32	0
92	OHX	2	1978	7/7	0.96	0.25	0.71	103,103,103,103	0
92	OHX	6	1978	7/7	0.98	0.24	0.70	90,90,90,90	0
92	OHX	1	3571	7/7	0.98	0.24	0.68	58,58,58,58	0
92	OHX	2	2020	7/7	0.95	0.27	0.68	96,96,96,96	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	3	206	7/7	0.97	0.15	0.68	69,69,69,69	0
92	OHX	5	3642	7/7	0.96	0.23	0.68	72,72,72,72	0
93	MG	L2	301	1/1	0.95	0.29	0.66	42,42,42,42	0
92	OHX	d4	201	7/7	0.96	0.39	0.66	84,84,84,84	0
92	OHX	1	3551	7/7	0.96	0.23	0.65	75,75,75,75	0
93	MG	5	4008	1/1	0.93	0.22	0.64	33,33,33,33	0
93	MG	L2	302	1/1	0.97	0.29	0.64	42,42,42,42	0
92	OHX	6	2019	7/7	0.94	0.34	0.64	75,75,75,75	0
93	MG	5	3750	1/1	0.96	0.22	0.62	36,36,36,36	0
92	OHX	6	2008	7/7	0.96	0.26	0.61	100,100,100,100	0
92	OHX	5	3656	7/7	0.97	0.20	0.60	71,71,71,71	0
92	OHX	1	3679	7/7	0.97	0.26	0.60	84,84,84,84	0
93	MG	5	3936	1/1	0.88	0.33	0.60	31,31,31,31	0
92	OHX	6	1996	7/7	0.97	0.31	0.59	78,78,78,78	0
92	OHX	5	3563	7/7	0.97	0.19	0.59	70,70,70,70	0
92	OHX	L6	202	7/7	0.99	0.32	0.58	62,62,62,62	0
92	OHX	6	2049	7/7	0.97	0.40	0.58	81,81,81,81	0
92	OHX	1	3695	7/7	0.96	0.27	0.57	73,73,73,73	0
92	OHX	6	2026	7/7	0.97	0.49	0.56	90,90,90,90	0
92	OHX	1	3612	7/7	0.98	0.25	0.54	57,57,57,57	0
92	OHX	5	3663	7/7	0.99	0.22	0.54	47,47,47,47	0
92	OHX	2	2012	7/7	0.90	0.26	0.54	108,108,108,108	0
92	OHX	M8	201	7/7	0.97	0.33	0.53	65,65,65,65	0
92	OHX	5	3616	7/7	0.98	0.21	0.53	54,54,54,54	0
92	OHX	m8	201	7/7	0.97	0.30	0.52	60,60,60,60	0
92	OHX	6	1985	7/7	0.98	0.30	0.52	91,91,91,91	0
92	OHX	5	3730	7/7	0.96	0.26	0.52	74,74,74,74	0
93	MG	D9	104	1/1	0.96	0.29	0.50	89,89,89,89	0
93	MG	1	3908	1/1	0.97	0.22	0.49	53,53,53,53	0
92	OHX	2	1994	7/7	0.90	0.30	0.49	98,98,98,98	0
92	OHX	2	1932	7/7	0.96	0.23	0.49	76,76,76,76	0
92	OHX	l3	402	7/7	0.94	0.46	0.48	67,67,67,67	0
92	OHX	1	3507	7/7	0.99	0.20	0.46	50,50,50,50	0
93	MG	5	4151	1/1	0.98	0.21	0.46	34,34,34,34	0
92	OHX	1	3608	7/7	0.97	0.20	0.46	63,63,63,63	0
93	MG	1	3924	1/1	0.98	0.23	0.44	41,41,41,41	0
92	OHX	L4	401	7/7	0.97	0.30	0.43	54,54,54,54	0
92	OHX	2	1982	7/7	0.95	0.24	0.42	94,94,94,94	0
93	MG	o2	202	1/1	0.88	0.32	0.42	32,32,32,32	0
92	OHX	1	3637	7/7	0.97	0.19	0.42	75,75,75,75	0
92	OHX	5	3692	7/7	0.98	0.27	0.41	64,64,64,64	0
92	OHX	5	3560	7/7	0.97	0.17	0.39	79,79,79,79	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	6	1966	7/7	0.97	0.25	0.38	69,69,69,69	0
92	OHX	5	3507	7/7	0.99	0.21	0.38	52,52,52,52	0
92	OHX	7	207	7/7	0.98	0.17	0.37	59,59,59,59	0
92	OHX	2	1972	7/7	0.97	0.26	0.37	105,105,105,105	0
92	OHX	2	1957	7/7	0.98	0.28	0.37	85,85,85,85	0
92	OHX	1	3548	7/7	0.99	0.17	0.36	58,58,58,58	0
92	OHX	5	3557	7/7	0.97	0.22	0.35	83,83,83,83	0
92	OHX	2	1962	7/7	0.98	0.20	0.33	86,86,86,86	0
92	OHX	1	3601	7/7	0.99	0.23	0.33	63,63,63,63	0
92	OHX	M0	301	7/7	0.97	0.25	0.32	55,55,55,55	0
93	MG	6	2077	1/1	0.86	0.29	0.31	55,55,55,55	0
92	OHX	1	3650	7/7	0.98	0.19	0.30	64,64,64,64	0
93	MG	5	3852	1/1	0.98	0.27	0.29	41,41,41,41	0
93	MG	N6	202	1/1	0.97	0.23	0.29	37,37,37,37	0
93	MG	c6	201	1/1	0.73	0.43	0.28	90,90,90,90	0
93	MG	1	4092	1/1	0.96	0.20	0.28	33,33,33,33	0
92	OHX	2	1993	7/7	0.97	0.24	0.27	96,96,96,96	0
93	MG	1	4076	1/1	0.78	0.29	0.27	59,59,59,59	0
92	OHX	6	1991	7/7	0.97	0.20	0.26	81,81,81,81	0
92	OHX	5	3651	7/7	0.98	0.23	0.26	50,50,50,50	0
92	OHX	6	2027	7/7	0.96	0.37	0.25	91,91,91,91	0
93	MG	N8	204	1/1	0.86	0.25	0.24	44,44,44,44	0
93	MG	1	3811	1/1	0.94	0.18	0.23	40,40,40,40	0
92	OHX	8	204	7/7	0.98	0.19	0.23	58,58,58,58	0
92	OHX	m0	302	7/7	0.99	0.26	0.22	49,49,49,49	0
92	OHX	L3	401	7/7	0.98	0.20	0.22	65,65,65,65	0
92	OHX	1	3554	7/7	0.98	0.21	0.22	63,63,63,63	0
93	MG	L4	404	1/1	0.98	0.20	0.20	33,33,33,33	0
92	OHX	2	2038	7/7	0.94	0.32	0.20	95,95,95,95	0
92	OHX	2	2001	7/7	0.97	0.22	0.18	99,99,99,99	0
92	OHX	5	3579	7/7	0.98	0.17	0.16	63,63,63,63	0
92	OHX	1	3427	7/7	0.99	0.15	0.14	58,58,58,58	0
93	MG	1	3785	1/1	0.86	0.30	0.13	57,57,57,57	0
98	8AN	p	101	22/23	0.91	0.24	0.13	33,34,35,35	0
92	OHX	8	208	7/7	0.98	0.17	0.12	66,66,66,66	0
93	MG	l3	404	1/1	0.86	0.25	0.11	32,32,32,32	0
92	OHX	2	1943	7/7	0.96	0.29	0.11	101,101,101,101	0
92	OHX	l9	201	7/7	0.98	0.21	0.10	60,60,60,60	0
92	OHX	6	2014	7/7	0.97	0.25	0.10	64,64,64,64	0
92	OHX	5	3685	7/7	0.98	0.22	0.09	73,73,73,73	0
97	SPS	1	3403	23/23	0.93	0.22	0.09	37,37,48,51	0
93	MG	6	2104	1/1	0.90	0.28	0.09	90,90,90,90	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	3909	1/1	0.98	0.20	0.08	31,31,31,31	0
92	OHX	6	1957	7/7	0.96	0.20	0.08	72,72,72,72	0
92	OHX	6	1980	7/7	0.94	0.18	0.07	112,112,112,112	0
92	OHX	2	2006	7/7	0.98	0.27	0.04	98,98,98,98	0
93	MG	N8	206	1/1	0.94	0.31	0.04	37,37,37,37	0
93	MG	1	4029	1/1	0.89	0.20	0.04	43,43,43,43	0
92	OHX	6	2023	7/7	0.94	0.43	0.03	91,91,91,91	0
93	MG	2	2073	1/1	0.85	0.29	0.02	93,93,93,93	0
92	OHX	5	3712	7/7	0.98	0.29	0.01	48,48,48,48	0
93	MG	7	220	1/1	0.95	0.14	-0.00	48,48,48,48	0
93	MG	2	2105	1/1	0.90	0.22	-0.00	96,96,96,96	0
92	OHX	5	3506	7/7	0.99	0.22	-0.01	39,39,39,39	0
92	OHX	5	3530	7/7	0.97	0.23	-0.01	42,42,42,42	0
92	OHX	1	3526	7/7	0.98	0.17	-0.01	77,77,77,77	0
92	OHX	5	3501	7/7	0.98	0.17	-0.01	63,63,63,63	0
93	MG	2	2098	1/1	0.71	0.21	-0.02	87,87,87,87	0
92	OHX	1	3656	7/7	0.98	0.23	-0.02	74,74,74,74	0
92	OHX	M5	302	7/7	0.98	0.22	-0.03	61,61,61,61	0
92	OHX	5	3603	7/7	0.99	0.22	-0.03	64,64,64,64	0
92	OHX	15	302	7/7	0.96	0.35	-0.04	70,70,70,70	0
92	OHX	5	3524	7/7	0.98	0.20	-0.06	50,50,50,50	0
92	OHX	6	1973	7/7	0.94	0.21	-0.06	68,68,68,68	0
92	OHX	1	3588	7/7	0.96	0.17	-0.06	81,81,81,81	0
92	OHX	6	1987	7/7	0.94	0.25	-0.07	89,89,89,89	0
92	OHX	2	2004	7/7	0.96	0.30	-0.07	96,96,96,96	0
92	OHX	5	3593	7/7	0.98	0.18	-0.08	54,54,54,54	0
92	OHX	1	3523	7/7	0.98	0.16	-0.09	58,58,58,58	0
93	MG	5	3770	1/1	0.94	0.19	-0.10	51,51,51,51	0
93	MG	sM	201	1/1	0.71	0.30	-0.10	45,45,45,45	0
92	OHX	5	3673	7/7	0.97	0.24	-0.11	76,76,76,76	0
93	MG	1	3738	1/1	0.90	0.21	-0.11	48,48,48,48	0
92	OHX	4	214	7/7	0.99	0.20	-0.12	70,70,70,70	0
92	OHX	6	2006	7/7	0.96	0.24	-0.12	72,72,72,72	0
92	OHX	2	1942	7/7	0.98	0.24	-0.13	84,84,84,84	0
93	MG	1	3878	1/1	0.98	0.24	-0.13	39,39,39,39	0
97	SPS	5	3403	23/23	0.93	0.24	-0.13	33,34,45,47	0
92	OHX	6	1971	7/7	0.98	0.21	-0.14	55,55,55,55	0
92	OHX	5	3552	7/7	0.97	0.20	-0.14	46,46,46,46	0
93	MG	1	4010	1/1	0.97	0.19	-0.17	37,37,37,37	0
92	OHX	5	3514	7/7	0.98	0.19	-0.18	52,52,52,52	0
92	OHX	6	1944	7/7	0.99	0.18	-0.18	71,71,71,71	0
93	MG	s4	302	1/1	0.91	0.25	-0.18	63,63,63,63	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	4	208	7/7	0.98	0.21	-0.20	69,69,69,69	0
92	OHX	6	1952	7/7	0.97	0.17	-0.20	80,80,80,80	0
93	MG	5	3967	1/1	0.96	0.21	-0.20	35,35,35,35	0
92	OHX	5	3555	7/7	0.99	0.18	-0.21	52,52,52,52	0
92	OHX	3	207	7/7	0.98	0.14	-0.21	68,68,68,68	0
93	MG	4	236	1/1	0.68	0.22	-0.22	43,43,43,43	0
93	MG	5	3763	1/1	0.85	0.18	-0.23	50,50,50,50	0
93	MG	1	3755	1/1	0.89	0.25	-0.23	35,35,35,35	0
93	MG	1	4012	1/1	0.96	0.16	-0.23	50,50,50,50	0
92	OHX	2	2003	7/7	0.95	0.23	-0.26	100,100,100,100	0
92	OHX	6	1989	7/7	0.96	0.34	-0.26	97,97,97,97	0
92	OHX	1	3574	7/7	0.98	0.17	-0.26	73,73,73,73	0
92	OHX	2	2000	7/7	0.97	0.23	-0.27	95,95,95,95	0
92	OHX	6	2039	7/7	0.94	0.22	-0.28	94,94,94,94	0
93	MG	O7	104	1/1	0.93	0.20	-0.28	42,42,42,42	0
92	OHX	6	1979	7/7	0.98	0.23	-0.28	62,62,62,62	0
92	OHX	5	3627	7/7	0.96	0.16	-0.29	84,84,84,84	0
92	OHX	4	205	7/7	0.99	0.19	-0.29	46,46,46,46	0
92	OHX	6	1997	7/7	0.96	0.29	-0.29	83,83,83,83	0
93	MG	5	3756	1/1	0.94	0.18	-0.30	34,34,34,34	0
92	OHX	6	1981	7/7	0.97	0.20	-0.30	87,87,87,87	0
92	OHX	1	3532	7/7	0.99	0.20	-0.30	55,55,55,55	0
92	OHX	5	3546	7/7	0.98	0.22	-0.31	49,49,49,49	0
92	OHX	5	3517	7/7	0.99	0.17	-0.31	51,51,51,51	0
92	OHX	1	3520	7/7	0.99	0.21	-0.32	53,53,53,53	0
92	OHX	5	3508	7/7	0.98	0.20	-0.33	61,61,61,61	0
93	MG	6	2060	1/1	0.96	0.22	-0.33	63,63,63,63	0
92	OHX	1	3563	7/7	0.98	0.19	-0.34	58,58,58,58	0
92	OHX	5	3621	7/7	0.98	0.18	-0.34	76,76,76,76	0
92	OHX	1	3496	7/7	0.97	0.14	-0.34	56,56,56,56	0
92	OHX	1	3530	7/7	0.97	0.21	-0.35	60,60,60,60	0
92	OHX	5	3409	7/7	0.99	0.17	-0.35	47,47,47,47	0
92	OHX	5	3566	7/7	0.99	0.16	-0.36	55,55,55,55	0
92	OHX	1	3535	7/7	0.98	0.13	-0.37	70,70,70,70	0
93	MG	6	2122	1/1	0.95	0.16	-0.37	74,74,74,74	0
92	OHX	5	3444	7/7	0.97	0.16	-0.37	51,51,51,51	0
92	OHX	5	3408	7/7	1.00	0.20	-0.38	44,44,44,44	0
93	MG	6	2112	1/1	0.96	0.22	-0.39	63,63,63,63	0
92	OHX	5	3495	7/7	0.97	0.17	-0.39	57,57,57,57	0
93	MG	5	3878	1/1	0.96	0.15	-0.39	45,45,45,45	0
93	MG	6	2149	1/1	0.94	0.20	-0.40	73,73,73,73	0
92	OHX	O7	102	7/7	0.96	0.20	-0.41	52,52,52,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	L3	402	7/7	0.97	0.19	-0.41	62,62,62,62	0
92	OHX	5	3497	7/7	0.99	0.19	-0.41	71,71,71,71	0
92	OHX	2	2022	7/7	0.97	0.24	-0.42	105,105,105,105	0
92	OHX	C7	201	7/7	0.96	0.25	-0.42	106,106,106,106	0
92	OHX	1	3503	7/7	0.98	0.19	-0.42	46,46,46,46	0
92	OHX	1	3690	7/7	0.97	0.20	-0.43	57,57,57,57	0
93	MG	1	4020	1/1	0.92	0.14	-0.43	49,49,49,49	0
92	OHX	2	1934	7/7	0.99	0.24	-0.43	94,94,94,94	0
92	OHX	5	3714	7/7	0.96	0.18	-0.44	39,39,39,39	0
92	OHX	1	3572	7/7	0.98	0.18	-0.44	64,64,64,64	0
92	OHX	2	1974	7/7	0.93	0.23	-0.44	112,112,112,112	0
92	OHX	1	3502	7/7	0.94	0.16	-0.45	66,66,66,66	0
92	OHX	1	3580	7/7	0.99	0.15	-0.46	67,67,67,67	0
92	OHX	1	3581	7/7	0.98	0.14	-0.46	79,79,79,79	0
92	OHX	5	3586	7/7	0.99	0.18	-0.47	51,51,51,51	0
92	OHX	5	3543	7/7	0.96	0.20	-0.48	53,53,53,53	0
92	OHX	s4	301	7/7	0.97	0.29	-0.49	90,90,90,90	0
92	OHX	O3	201	7/7	0.99	0.20	-0.49	55,55,55,55	0
93	MG	O4	202	1/1	0.85	0.20	-0.50	61,61,61,61	0
92	OHX	2	2050	7/7	0.93	0.20	-0.52	115,115,115,115	0
92	OHX	5	3612	7/7	0.97	0.21	-0.52	49,49,49,49	0
92	OHX	2	1983	7/7	0.98	0.20	-0.53	81,81,81,81	0
92	OHX	3	205	7/7	0.99	0.12	-0.53	69,69,69,69	0
92	OHX	5	3498	7/7	0.96	0.17	-0.56	62,62,62,62	0
92	OHX	1	3549	7/7	0.95	0.17	-0.57	91,91,91,91	0
92	OHX	5	3534	7/7	0.98	0.20	-0.58	51,51,51,51	0
92	OHX	1	3562	7/7	0.98	0.20	-0.58	64,64,64,64	0
93	MG	6	2146	1/1	0.92	0.18	-0.59	75,75,75,75	0
92	OHX	5	3584	7/7	0.99	0.16	-0.59	52,52,52,52	0
92	OHX	5	3550	7/7	0.98	0.14	-0.59	79,79,79,79	0
92	OHX	5	3476	7/7	0.96	0.20	-0.59	42,42,42,42	0
92	OHX	5	3672	7/7	0.94	0.22	-0.60	103,103,103,103	0
94	ZN	D7	101	1/1	0.71	0.28	-0.61	100,100,100,100	0
93	MG	6	2110	1/1	0.94	0.21	-0.61	91,91,91,91	0
93	MG	1	3746	1/1	0.96	0.17	-0.61	40,40,40,40	0
92	OHX	3	202	7/7	0.99	0.19	-0.61	54,54,54,54	0
92	OHX	1	3568	7/7	0.98	0.20	-0.63	45,45,45,45	0
92	OHX	2	2010	7/7	0.98	0.21	-0.63	85,85,85,85	0
93	MG	2	2090	1/1	0.95	0.17	-0.65	83,83,83,83	0
92	OHX	2	1987	7/7	0.98	0.17	-0.65	94,94,94,94	0
93	MG	6	2140	1/1	0.70	0.11	-0.65	71,71,71,71	0
92	OHX	2	1956	7/7	0.97	0.21	-0.65	92,92,92,92	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3521	7/7	0.99	0.16	-0.65	60,60,60,60	0
92	OHX	2	2040	7/7	0.97	0.22	-0.66	97,97,97,97	0
92	OHX	1	3518	7/7	0.97	0.18	-0.66	57,57,57,57	0
92	OHX	5	3595	7/7	0.97	0.17	-0.67	76,76,76,76	0
92	OHX	1	3407	7/7	0.99	0.14	-0.68	52,52,52,52	0
92	OHX	1	3506	7/7	0.98	0.19	-0.69	66,66,66,66	0
93	MG	c9	201	1/1	0.85	0.16	-0.69	90,90,90,90	0
92	OHX	5	3456	7/7	0.98	0.20	-0.69	41,41,41,41	0
92	OHX	5	3588	7/7	0.99	0.18	-0.70	44,44,44,44	0
92	OHX	sR	401	7/7	0.95	0.21	-0.70	116,116,116,116	0
92	OHX	6	2018	7/7	0.94	0.20	-0.71	114,114,114,114	0
92	OHX	5	3722	7/7	0.95	0.26	-0.71	99,99,99,99	0
92	OHX	1	3585	7/7	0.98	0.19	-0.71	80,80,80,80	0
92	OHX	3	204	7/7	0.98	0.19	-0.72	49,49,49,49	0
92	OHX	1	3409	7/7	0.99	0.12	-0.72	41,41,41,41	0
92	OHX	2	1946	7/7	0.96	0.17	-0.72	99,99,99,99	0
92	OHX	4	204	7/7	0.98	0.15	-0.72	51,51,51,51	0
93	MG	5	4051	1/1	0.98	0.14	-0.74	48,48,48,48	0
92	OHX	1	3730	7/7	0.98	0.13	-0.74	60,60,60,60	0
92	OHX	6	1962	7/7	0.99	0.17	-0.75	69,69,69,69	0
92	OHX	2	1967	7/7	0.97	0.16	-0.76	85,85,85,85	0
92	OHX	5	3715	7/7	0.97	0.24	-0.76	95,95,95,95	0
93	MG	5	3960	1/1	0.96	0.19	-0.77	39,39,39,39	0
92	OHX	2	1950	7/7	0.95	0.27	-0.77	101,101,101,101	0
92	OHX	1	3517	7/7	0.98	0.13	-0.78	73,73,73,73	0
92	OHX	5	3696	7/7	0.96	0.22	-0.79	92,92,92,92	0
92	OHX	C5	201	7/7	0.93	0.24	-0.79	105,105,105,105	0
93	MG	5	4014	1/1	0.98	0.18	-0.81	35,35,35,35	0
92	OHX	6	2059	7/7	0.94	0.28	-0.81	103,103,103,103	0
92	OHX	6	1960	7/7	0.96	0.17	-0.82	77,77,77,77	0
93	MG	6	2173	1/1	0.96	0.23	-0.82	70,70,70,70	0
93	MG	6	2089	1/1	0.91	0.24	-0.83	70,70,70,70	0
93	MG	5	3979	1/1	0.91	0.15	-0.84	48,48,48,48	0
92	OHX	1	3539	7/7	0.99	0.15	-0.84	54,54,54,54	0
92	OHX	5	3486	7/7	0.99	0.17	-0.85	52,52,52,52	0
93	MG	1	3995	1/1	0.99	0.19	-0.85	46,46,46,46	0
92	OHX	1	3433	7/7	0.98	0.15	-0.85	55,55,55,55	0
92	OHX	1	3552	7/7	0.97	0.20	-0.86	60,60,60,60	0
93	MG	2	2137	1/1	0.96	0.11	-0.86	85,85,85,85	0
92	OHX	5	3538	7/7	0.98	0.18	-0.86	73,73,73,73	0
93	MG	6	2097	1/1	0.89	0.18	-0.86	92,92,92,92	0
94	ZN	d7	101	1/1	0.86	0.21	-0.86	89,89,89,89	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	6	1958	7/7	0.96	0.19	-0.90	89,89,89,89	0
92	OHX	6	1919	7/7	0.97	0.16	-0.90	74,74,74,74	0
92	OHX	2	2005	7/7	0.98	0.21	-0.91	84,84,84,84	0
92	OHX	7	206	7/7	0.99	0.13	-0.91	56,56,56,56	0
92	OHX	1	3565	7/7	0.99	0.16	-0.92	50,50,50,50	0
92	OHX	2	1955	7/7	0.98	0.20	-0.93	96,96,96,96	0
93	MG	2	2129	1/1	0.95	0.14	-0.93	80,80,80,80	0
92	OHX	2	1971	7/7	0.95	0.17	-0.93	108,108,108,108	0
93	MG	5	4072	1/1	0.95	0.18	-0.94	40,40,40,40	0
93	MG	2	2116	1/1	0.91	0.14	-0.94	85,85,85,85	0
92	OHX	5	3540	7/7	0.98	0.18	-0.94	55,55,55,55	0
92	OHX	3	203	7/7	0.97	0.16	-0.95	59,59,59,59	0
92	OHX	5	3483	7/7	0.98	0.14	-0.95	57,57,57,57	0
92	OHX	1	3545	7/7	0.98	0.12	-0.98	77,77,77,77	0
93	MG	o4	201	1/1	0.89	0.14	-0.98	63,63,63,63	0
92	OHX	1	3522	7/7	0.99	0.13	-0.98	62,62,62,62	0
92	OHX	5	3608	7/7	0.99	0.19	-0.98	40,40,40,40	0
92	OHX	5	3414	7/7	0.99	0.15	-1.00	47,47,47,47	0
92	OHX	2	1925	7/7	0.96	0.15	-1.00	85,85,85,85	0
92	OHX	6	1953	7/7	0.96	0.14	-1.00	109,109,109,109	0
92	OHX	1	3536	7/7	0.96	0.18	-1.01	50,50,50,50	0
92	OHX	6	1949	7/7	0.96	0.19	-1.01	81,81,81,81	0
92	OHX	5	3553	7/7	0.98	0.17	-1.02	54,54,54,54	0
92	OHX	2	1945	7/7	0.95	0.16	-1.04	90,90,90,90	0
93	MG	5	3776	1/1	0.93	0.18	-1.05	33,33,33,33	0
93	MG	5	4036	1/1	0.76	0.23	-1.05	89,89,89,89	0
92	OHX	1	3586	7/7	0.98	0.16	-1.06	74,74,74,74	0
92	OHX	1	3405	7/7	0.99	0.18	-1.07	43,43,43,43	0
92	OHX	5	3520	7/7	0.99	0.19	-1.08	48,48,48,48	0
93	MG	1	3821	1/1	0.95	0.19	-1.08	49,49,49,49	0
94	ZN	q3	501	1/1	0.99	0.12	-1.08	55,55,55,55	0
92	OHX	1	3534	7/7	0.97	0.21	-1.09	55,55,55,55	0
92	OHX	o7	503	7/7	0.97	0.12	-1.10	59,59,59,59	0
92	OHX	S8	301	7/7	0.94	0.30	-1.10	96,96,96,96	0
92	OHX	l5	301	7/7	0.98	0.17	-1.11	77,77,77,77	0
92	OHX	2	1901	7/7	0.99	0.19	-1.11	78,78,78,78	0
92	OHX	2	1926	7/7	0.95	0.14	-1.11	91,91,91,91	0
92	OHX	2	1938	7/7	0.97	0.21	-1.11	79,79,79,79	0
92	OHX	8	203	7/7	0.98	0.15	-1.12	56,56,56,56	0
92	OHX	2	1921	7/7	0.98	0.21	-1.12	97,97,97,97	0
92	OHX	5	3532	7/7	0.97	0.15	-1.12	84,84,84,84	0
92	OHX	1	3686	7/7	0.98	0.20	-1.12	65,65,65,65	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	o7	502	7/7	0.99	0.13	-1.15	54,54,54,54	0
92	OHX	5	3469	7/7	0.97	0.11	-1.15	63,63,63,63	0
92	OHX	2	1948	7/7	0.96	0.18	-1.16	80,80,80,80	0
93	MG	2	2102	1/1	0.93	0.20	-1.16	98,98,98,98	0
92	OHX	6	1908	7/7	0.99	0.13	-1.17	65,65,65,65	0
92	OHX	1	3484	7/7	0.99	0.11	-1.17	72,72,72,72	0
92	OHX	1	3511	7/7	0.98	0.20	-1.17	58,58,58,58	0
94	ZN	d9	101	1/1	0.99	0.10	-1.18	97,97,97,97	0
92	OHX	6	1912	7/7	0.99	0.10	-1.20	74,74,74,74	0
92	OHX	m0	301	7/7	0.96	0.21	-1.20	68,68,68,68	0
92	OHX	6	1938	7/7	0.98	0.12	-1.20	76,76,76,76	0
92	OHX	1	3513	7/7	0.98	0.19	-1.20	48,48,48,48	0
92	OHX	5	3404	7/7	0.99	0.13	-1.21	43,43,43,43	0
93	MG	8	223	1/1	0.98	0.13	-1.23	47,47,47,47	0
92	OHX	M5	301	7/7	0.99	0.12	-1.24	46,46,46,46	0
92	OHX	2	1913	7/7	0.99	0.14	-1.24	84,84,84,84	0
92	OHX	1	3457	7/7	0.98	0.11	-1.24	73,73,73,73	0
92	OHX	1	3638	7/7	0.94	0.18	-1.24	145,145,145,145	0
93	MG	1	3901	1/1	0.90	0.19	-1.25	31,31,31,31	0
92	OHX	1	3531	7/7	0.99	0.15	-1.25	89,89,89,89	0
92	OHX	s8	301	7/7	0.97	0.27	-1.25	96,96,96,96	0
92	OHX	5	3478	7/7	0.97	0.13	-1.25	56,56,56,56	0
92	OHX	5	3519	7/7	0.96	0.14	-1.25	78,78,78,78	0
93	MG	1	3972	1/1	0.98	0.21	-1.26	44,44,44,44	0
92	OHX	6	1921	7/7	0.98	0.17	-1.26	64,64,64,64	0
92	OHX	6	1956	7/7	0.98	0.12	-1.27	79,79,79,79	0
92	OHX	5	3504	7/7	0.96	0.14	-1.27	61,61,61,61	0
92	OHX	6	1920	7/7	0.96	0.15	-1.28	95,95,95,95	0
92	OHX	5	3430	7/7	0.99	0.14	-1.30	47,47,47,47	0
93	MG	M0	302	1/1	0.86	0.12	-1.30	46,46,46,46	0
92	OHX	2	1910	7/7	0.98	0.10	-1.30	89,89,89,89	0
92	OHX	2	1915	7/7	0.95	0.13	-1.31	99,99,99,99	0
92	OHX	1	3582	7/7	0.98	0.18	-1.31	53,53,53,53	0
93	MG	6	2099	1/1	0.94	0.21	-1.34	65,65,65,65	0
92	OHX	7	202	7/7	0.98	0.12	-1.34	52,52,52,52	0
92	OHX	1	3533	7/7	0.99	0.14	-1.37	48,48,48,48	0
93	MG	2	2113	1/1	0.78	0.26	-1.37	101,101,101,101	0
92	OHX	1	3472	7/7	0.98	0.10	-1.39	62,62,62,62	0
93	MG	1	3754	1/1	0.97	0.14	-1.39	45,45,45,45	0
94	ZN	Q3	501	1/1	0.99	0.07	-1.40	55,55,55,55	0
92	OHX	5	3411	7/7	0.99	0.15	-1.40	45,45,45,45	0
92	OHX	5	3738	7/7	0.95	0.15	-1.41	56,56,56,56	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3443	7/7	0.99	0.12	-1.44	58,58,58,58	0
92	OHX	6	1939	7/7	0.95	0.14	-1.46	102,102,102,102	0
92	OHX	1	3463	7/7	0.98	0.10	-1.47	80,80,80,80	0
93	MG	2	2093	1/1	0.88	0.14	-1.47	81,81,81,81	0
92	OHX	6	2000	7/7	0.99	0.19	-1.49	69,69,69,69	0
92	OHX	4	206	7/7	0.98	0.13	-1.49	49,49,49,49	0
92	OHX	1	3460	7/7	0.99	0.11	-1.50	44,44,44,44	0
92	OHX	1	3606	7/7	0.98	0.12	-1.51	63,63,63,63	0
92	OHX	2	1924	7/7	0.99	0.08	-1.55	103,103,103,103	0
93	MG	C8	202	1/1	0.91	0.06	-1.56	94,94,94,94	0
94	ZN	d6	101	1/1	0.99	0.07	-1.56	67,67,67,67	0
93	MG	6	2179	1/1	0.99	0.12	-1.56	93,93,93,93	0
92	OHX	2	2039	7/7	0.93	0.21	-1.58	133,133,133,133	0
93	MG	5	4153	1/1	1.00	0.13	-1.59	37,37,37,37	0
92	OHX	1	3512	7/7	0.99	0.13	-1.61	45,45,45,45	0
92	OHX	6	1972	7/7	0.99	0.12	-1.61	67,67,67,67	0
94	ZN	Q0	500	1/1	0.98	0.10	-1.61	47,47,47,47	0
92	OHX	1	3697	7/7	0.98	0.14	-1.61	46,46,46,46	0
92	OHX	2	1966	7/7	0.98	0.17	-1.62	65,65,65,65	0
92	OHX	1	3441	7/7	0.98	0.18	-1.62	44,44,44,44	0
94	ZN	D9	101	1/1	0.98	0.07	-1.62	90,90,90,90	0
92	OHX	5	3541	7/7	0.97	0.10	-1.63	93,93,93,93	0
92	OHX	m5	302	7/7	0.99	0.17	-1.64	66,66,66,66	0
93	MG	1	3776	1/1	0.98	0.12	-1.64	44,44,44,44	0
92	OHX	6	1975	7/7	0.96	0.15	-1.64	93,93,93,93	0
92	OHX	6	1926	7/7	0.99	0.17	-1.65	67,67,67,67	0
93	MG	5	3769	1/1	0.92	0.16	-1.66	43,43,43,43	0
92	OHX	1	3498	7/7	0.98	0.15	-1.67	74,74,74,74	0
92	OHX	1	3529	7/7	0.98	0.12	-1.67	79,79,79,79	0
92	OHX	5	3450	7/7	0.99	0.11	-1.68	58,58,58,58	0
92	OHX	6	1927	7/7	0.95	0.11	-1.68	109,109,109,109	0
92	OHX	1	3482	7/7	0.97	0.15	-1.69	66,66,66,66	0
92	OHX	2	1917	7/7	0.98	0.15	-1.70	83,83,83,83	0
93	MG	5	3842	1/1	0.98	0.17	-1.70	35,35,35,35	0
92	OHX	5	3443	7/7	0.99	0.12	-1.71	59,59,59,59	0
92	OHX	1	3493	7/7	0.97	0.21	-1.72	61,61,61,61	0
92	OHX	l3	401	7/7	0.99	0.11	-1.73	52,52,52,52	0
92	OHX	6	1907	7/7	0.98	0.13	-1.73	77,77,77,77	0
92	OHX	2	1973	7/7	0.96	0.13	-1.74	112,112,112,112	0
93	MG	1	3747	1/1	0.94	0.13	-1.75	48,48,48,48	0
92	OHX	6	2056	7/7	0.94	0.16	-1.75	99,99,99,99	0
92	OHX	5	3525	7/7	0.97	0.12	-1.76	75,75,75,75	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3516	7/7	0.98	0.17	-1.76	47,47,47,47	0
92	OHX	5	3600	7/7	0.97	0.15	-1.76	83,83,83,83	0
93	MG	O7	106	1/1	0.97	0.12	-1.77	46,46,46,46	0
92	OHX	2	1923	7/7	0.98	0.11	-1.79	84,84,84,84	0
92	OHX	o3	201	7/7	0.98	0.16	-1.81	54,54,54,54	0
92	OHX	6	1951	7/7	0.96	0.14	-1.82	119,119,119,119	0
92	OHX	1	3426	7/7	0.99	0.10	-1.82	50,50,50,50	0
93	MG	6	2159	1/1	0.80	0.15	-1.82	88,88,88,88	0
94	ZN	O7	101	1/1	0.99	0.07	-1.83	39,39,39,39	0
92	OHX	1	3428	7/7	0.98	0.09	-1.84	52,52,52,52	0
92	OHX	7	201	7/7	0.99	0.07	-1.85	49,49,49,49	0
93	MG	5	4012	1/1	0.75	0.12	-1.86	44,44,44,44	0
93	MG	n8	201	1/1	0.90	0.12	-1.86	43,43,43,43	0
93	MG	5	3985	1/1	0.87	0.14	-1.87	41,41,41,41	0
92	OHX	5	3512	7/7	0.98	0.17	-1.87	42,42,42,42	0
92	OHX	6	1931	7/7	0.94	0.18	-1.87	86,86,86,86	0
92	OHX	L6	201	7/7	0.99	0.15	-1.87	44,44,44,44	0
92	OHX	1	3453	7/7	0.98	0.12	-1.88	46,46,46,46	0
92	OHX	5	3464	7/7	0.99	0.09	-1.89	50,50,50,50	0
92	OHX	2	1949	7/7	0.98	0.10	-1.89	94,94,94,94	0
93	MG	L7	301	1/1	0.98	0.16	-1.91	37,37,37,37	0
92	OHX	6	1902	7/7	0.97	0.14	-1.92	91,91,91,91	0
92	OHX	5	3436	7/7	0.99	0.10	-1.96	64,64,64,64	0
93	MG	5	3826	1/1	0.97	0.16	-1.97	45,45,45,45	0
92	OHX	1	3486	7/7	0.98	0.12	-1.98	69,69,69,69	0
92	OHX	5	3458	7/7	0.98	0.13	-1.98	57,57,57,57	0
94	ZN	q2	501	1/1	0.95	0.09	-1.99	47,47,47,47	0
93	MG	2	2120	1/1	0.96	0.05	-2.02	95,95,95,95	0
92	OHX	1	3577	7/7	0.99	0.13	-2.02	60,60,60,60	0
92	OHX	1	3540	7/7	0.99	0.16	-2.03	52,52,52,52	0
92	OHX	6	1955	7/7	0.99	0.08	-2.04	108,108,108,108	0
94	ZN	o7	501	1/1	0.99	0.09	-2.06	41,41,41,41	0
92	OHX	s1	301	7/7	0.98	0.14	-2.07	77,77,77,77	0
92	OHX	1	3494	7/7	0.99	0.14	-2.07	42,42,42,42	0
92	OHX	6	1901	7/7	0.99	0.15	-2.08	59,59,59,59	0
92	OHX	1	3418	7/7	0.99	0.18	-2.08	52,52,52,52	0
92	OHX	2	1907	7/7	0.98	0.12	-2.09	93,93,93,93	0
92	OHX	7	205	7/7	0.98	0.12	-2.09	55,55,55,55	0
92	OHX	m5	301	7/7	0.99	0.13	-2.09	48,48,48,48	0
94	ZN	q0	500	1/1	0.99	0.13	-2.10	37,37,37,37	0
92	OHX	2	1911	7/7	0.98	0.10	-2.10	98,98,98,98	0
92	OHX	5	3417	7/7	0.99	0.11	-2.11	43,43,43,43	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	6	1945	7/7	0.98	0.15	-2.14	72,72,72,72	0
92	OHX	2	1903	7/7	0.96	0.14	-2.17	95,95,95,95	0
92	OHX	5	3500	7/7	0.98	0.11	-2.20	72,72,72,72	0
92	OHX	2	1975	7/7	0.95	0.13	-2.21	77,77,77,77	0
92	OHX	1	3731	7/7	0.95	0.16	-2.22	94,94,94,94	0
92	OHX	6	1922	7/7	0.99	0.14	-2.22	60,60,60,60	0
93	MG	5	4044	1/1	0.98	0.15	-2.22	35,35,35,35	0
92	OHX	5	3515	7/7	0.98	0.11	-2.23	85,85,85,85	0
92	OHX	5	3472	7/7	0.98	0.10	-2.23	66,66,66,66	0
93	MG	5	3943	1/1	0.98	0.16	-2.23	41,41,41,41	0
92	OHX	Q2	502	7/7	1.00	0.05	-2.24	41,41,41,41	0
92	OHX	2	1902	7/7	0.99	0.13	-2.25	81,81,81,81	0
92	OHX	6	1923	7/7	0.97	0.12	-2.26	81,81,81,81	0
92	OHX	2	1914	7/7	0.99	0.09	-2.26	78,78,78,78	0
92	OHX	1	3471	7/7	0.99	0.12	-2.30	48,48,48,48	0
92	OHX	6	1946	7/7	0.98	0.14	-2.31	79,79,79,79	0
92	OHX	5	3482	7/7	0.99	0.08	-2.31	49,49,49,49	0
93	MG	6	2177	1/1	0.93	0.10	-2.32	94,94,94,94	0
92	OHX	5	3433	7/7	0.99	0.17	-2.34	45,45,45,45	0
92	OHX	5	3529	7/7	0.99	0.14	-2.34	42,42,42,42	0
92	OHX	6	1950	7/7	0.99	0.14	-2.34	90,90,90,90	0
92	OHX	1	3422	7/7	0.99	0.13	-2.35	57,57,57,57	0
92	OHX	5	3490	7/7	0.99	0.11	-2.35	53,53,53,53	0
94	ZN	E1	501	1/1	0.93	0.06	-2.36	109,109,109,109	0
92	OHX	6	2052	7/7	0.97	0.13	-2.36	65,65,65,65	0
92	OHX	m6	201	7/7	0.98	0.10	-2.39	48,48,48,48	0
93	MG	5	3812	1/1	0.95	0.14	-2.39	89,89,89,89	0
92	OHX	1	3516	7/7	0.99	0.14	-2.42	39,39,39,39	0
92	OHX	5	3418	7/7	0.99	0.12	-2.42	41,41,41,41	0
94	ZN	Q2	501	1/1	0.99	0.03	-2.44	51,51,51,51	0
92	OHX	2	1951	7/7	0.97	0.13	-2.46	82,82,82,82	0
92	OHX	6	1918	7/7	0.99	0.08	-2.46	49,49,49,49	0
92	OHX	6	1911	7/7	0.99	0.08	-2.50	57,57,57,57	0
92	OHX	5	3460	7/7	0.99	0.08	-2.51	46,46,46,46	0
92	OHX	5	3452	7/7	0.98	0.11	-2.52	63,63,63,63	0
92	OHX	M6	201	7/7	0.99	0.12	-2.53	54,54,54,54	0
92	OHX	5	3457	7/7	0.98	0.09	-2.54	58,58,58,58	0
92	OHX	5	3502	7/7	0.96	0.14	-2.56	59,59,59,59	0
92	OHX	5	3575	7/7	0.98	0.16	-2.58	55,55,55,55	0
92	OHX	5	3465	7/7	0.99	0.06	-2.60	57,57,57,57	0
92	OHX	5	3451	7/7	0.99	0.10	-2.60	65,65,65,65	0
92	OHX	1	3500	7/7	0.99	0.10	-2.61	40,40,40,40	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3573	7/7	0.98	0.19	-2.63	60,60,60,60	0
93	MG	5	4093	1/1	1.00	0.12	-2.63	32,32,32,32	0
92	OHX	1	3411	7/7	0.99	0.14	-2.66	48,48,48,48	0
92	OHX	5	3503	7/7	0.98	0.16	-2.66	44,44,44,44	0
92	OHX	SR	401	7/7	0.92	0.21	-2.68	121,121,121,121	0
92	OHX	5	3748	7/7	0.97	0.14	-2.69	92,92,92,92	0
92	OHX	1	3514	7/7	0.99	0.14	-2.69	52,52,52,52	0
92	OHX	6	1906	7/7	0.99	0.13	-2.71	60,60,60,60	0
92	OHX	1	3416	7/7	0.99	0.11	-2.73	53,53,53,53	0
92	OHX	1	3447	7/7	0.97	0.15	-2.73	53,53,53,53	0
92	OHX	1	3404	7/7	1.00	0.14	-2.73	37,37,37,37	0
92	OHX	5	3474	7/7	0.98	0.15	-2.74	46,46,46,46	0
92	OHX	6	1954	7/7	0.98	0.10	-2.76	116,116,116,116	0
92	OHX	5	3511	7/7	0.99	0.07	-2.80	35,35,35,35	0
92	OHX	1	3434	7/7	0.98	0.14	-2.81	52,52,52,52	0
93	MG	c8	203	1/1	0.98	0.07	-2.81	86,86,86,86	0
92	OHX	5	3475	7/7	0.97	0.14	-2.86	47,47,47,47	0
92	OHX	2	1969	7/7	0.98	0.08	-2.90	87,87,87,87	0
92	OHX	2	1916	7/7	0.98	0.10	-2.91	84,84,84,84	0
92	OHX	6	1943	7/7	0.98	0.11	-2.93	102,102,102,102	0
92	OHX	5	3494	7/7	0.99	0.12	-2.95	51,51,51,51	0
92	OHX	5	3412	7/7	0.99	0.10	-2.96	44,44,44,44	0
92	OHX	6	1904	7/7	0.99	0.09	-2.99	68,68,68,68	0
93	MG	5	3955	1/1	0.96	0.16	-2.99	41,41,41,41	0
92	OHX	1	3449	7/7	0.99	0.06	-3.01	54,54,54,54	0
92	OHX	5	3462	7/7	0.98	0.10	-3.02	44,44,44,44	0
92	OHX	1	3448	7/7	0.99	0.13	-3.03	54,54,54,54	0
93	MG	M5	303	1/1	0.94	0.13	-3.05	37,37,37,37	0
92	OHX	6	1947	7/7	0.98	0.15	-3.06	71,71,71,71	0
92	OHX	2	2008	7/7	0.98	0.12	-3.08	106,106,106,106	0
92	OHX	6	1928	7/7	0.97	0.15	-3.10	105,105,105,105	0
92	OHX	5	3561	7/7	0.99	0.12	-3.11	41,41,41,41	0
92	OHX	5	3415	7/7	1.00	0.10	-3.12	42,42,42,42	0
93	MG	1	3927	1/1	0.95	0.12	-3.13	38,38,38,38	0
92	OHX	N9	101	7/7	0.99	0.11	-3.15	42,42,42,42	0
92	OHX	5	3406	7/7	0.99	0.18	-3.16	36,36,36,36	0
92	OHX	1	3452	7/7	0.98	0.09	-3.17	65,65,65,65	0
92	OHX	7	203	7/7	0.98	0.12	-3.17	48,48,48,48	0
92	OHX	5	3422	7/7	0.99	0.09	-3.18	44,44,44,44	0
92	OHX	1	3432	7/7	0.98	0.18	-3.19	46,46,46,46	0
92	OHX	6	1913	7/7	0.99	0.07	-3.21	80,80,80,80	0
92	OHX	1	3490	7/7	0.98	0.16	-3.24	51,51,51,51	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3455	7/7	0.98	0.10	-3.27	65,65,65,65	0
92	OHX	5	3461	7/7	0.98	0.09	-3.27	48,48,48,48	0
92	OHX	2	1909	7/7	0.95	0.13	-3.28	97,97,97,97	0
92	OHX	1	3473	7/7	0.99	0.09	-3.34	62,62,62,62	0
94	ZN	e1	501	1/1	0.80	0.06	-3.35	130,130,130,130	0
92	OHX	4	201	7/7	1.00	0.13	-3.35	41,41,41,41	0
92	OHX	1	3466	7/7	0.98	0.12	-3.40	70,70,70,70	0
92	OHX	2	1981	7/7	0.98	0.16	-3.40	75,75,75,75	0
92	OHX	5	3442	7/7	0.99	0.07	-3.40	57,57,57,57	0
92	OHX	5	3702	7/7	0.98	0.15	-3.40	50,50,50,50	0
92	OHX	7	204	7/7	0.99	0.14	-3.44	45,45,45,45	0
92	OHX	1	3479	7/7	0.99	0.15	-3.45	51,51,51,51	0
92	OHX	2	1905	7/7	0.99	0.14	-3.45	76,76,76,76	0
92	OHX	5	3505	7/7	0.99	0.09	-3.49	52,52,52,52	0
92	OHX	2	1964	7/7	0.98	0.14	-3.50	97,97,97,97	0
92	OHX	1	3488	7/7	0.98	0.11	-3.53	68,68,68,68	0
92	OHX	1	3481	7/7	0.98	0.10	-3.54	48,48,48,48	0
92	OHX	6	1910	7/7	0.99	0.12	-3.54	62,62,62,62	0
92	OHX	1	3470	7/7	0.99	0.16	-3.57	82,82,82,82	0
92	OHX	1	3406	7/7	0.99	0.13	-3.57	43,43,43,43	0
92	OHX	1	3435	7/7	0.99	0.12	-3.57	58,58,58,58	0
92	OHX	1	3419	7/7	0.99	0.16	-3.58	52,52,52,52	0
92	OHX	6	1924	7/7	0.98	0.09	-3.58	63,63,63,63	0
92	OHX	5	3484	7/7	0.99	0.13	-3.61	43,43,43,43	0
92	OHX	1	3478	7/7	0.99	0.14	-3.63	51,51,51,51	0
92	OHX	n9	101	7/7	0.99	0.07	-3.63	41,41,41,41	0
92	OHX	5	3480	7/7	0.98	0.09	-3.66	52,52,52,52	0
92	OHX	1	3430	7/7	0.99	0.10	-3.66	55,55,55,55	0
92	OHX	1	3412	7/7	0.99	0.09	-3.66	43,43,43,43	0
92	OHX	1	3515	7/7	0.98	0.16	-3.67	56,56,56,56	0
92	OHX	5	3405	7/7	0.99	0.14	-3.68	36,36,36,36	0
92	OHX	5	3454	7/7	0.99	0.07	-3.68	91,91,91,91	0
92	OHX	1	3485	7/7	0.98	0.10	-3.72	78,78,78,78	0
92	OHX	2	1904	7/7	0.98	0.08	-3.73	83,83,83,83	0
92	OHX	1	3501	7/7	0.98	0.14	-3.73	62,62,62,62	0
92	OHX	5	3499	7/7	0.98	0.15	-3.74	50,50,50,50	0
92	OHX	1	3461	7/7	0.98	0.10	-3.75	58,58,58,58	0
92	OHX	6	1932	7/7	0.97	0.14	-3.76	59,59,59,59	0
92	OHX	1	3425	7/7	0.99	0.12	-3.77	55,55,55,55	0
92	OHX	2	1940	7/7	0.98	0.08	-3.81	94,94,94,94	0
92	OHX	5	3610	7/7	0.99	0.14	-3.81	57,57,57,57	0
92	OHX	5	3407	7/7	1.00	0.13	-3.83	38,38,38,38	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	2	1918	7/7	0.96	0.14	-3.85	83,83,83,83	0
92	OHX	5	3446	7/7	0.99	0.12	-3.86	45,45,45,45	0
92	OHX	2	1908	7/7	0.97	0.10	-3.86	95,95,95,95	0
94	ZN	D6	500	1/1	0.98	0.03	-3.87	87,87,87,87	0
92	OHX	2	1935	7/7	0.97	0.12	-3.94	82,82,82,82	0
92	OHX	6	1914	7/7	0.97	0.12	-3.94	61,61,61,61	0
92	OHX	1	3444	7/7	0.99	0.07	-4.03	53,53,53,53	0
92	OHX	5	3439	7/7	0.99	0.08	-4.04	46,46,46,46	0
92	OHX	5	3489	7/7	0.99	0.11	-4.16	41,41,41,41	0
92	OHX	2	1936	7/7	0.97	0.12	-4.16	102,102,102,102	0
92	OHX	1	3439	7/7	0.99	0.11	-4.16	56,56,56,56	0
92	OHX	1	3408	7/7	1.00	0.10	-4.17	41,41,41,41	0
92	OHX	1	3544	7/7	0.99	0.14	-4.17	72,72,72,72	0
92	OHX	5	3426	7/7	1.00	0.06	-4.21	52,52,52,52	0
92	OHX	8	202	7/7	0.99	0.11	-4.21	40,40,40,40	0
92	OHX	2	1912	7/7	0.99	0.07	-4.21	93,93,93,93	0
93	MG	1	4060	1/1	0.97	0.09	-4.31	46,46,46,46	0
92	OHX	6	1929	7/7	0.98	0.11	-4.32	63,63,63,63	0
92	OHX	5	3438	7/7	0.99	0.09	-4.33	46,46,46,46	0
92	OHX	1	3417	7/7	1.00	0.07	-4.41	38,38,38,38	0
92	OHX	1	3465	7/7	0.96	0.12	-4.42	66,66,66,66	0
92	OHX	1	3483	7/7	0.98	0.12	-4.45	57,57,57,57	0
92	OHX	1	3415	7/7	0.99	0.07	-4.47	47,47,47,47	0
92	OHX	1	3424	7/7	0.99	0.10	-4.49	61,61,61,61	0
92	OHX	1	3630	7/7	0.99	0.12	-4.58	50,50,50,50	0
92	OHX	5	3427	7/7	0.99	0.14	-4.60	51,51,51,51	0
92	OHX	5	3424	7/7	0.99	0.10	-4.62	54,54,54,54	0
92	OHX	5	3440	7/7	0.99	0.09	-4.63	43,43,43,43	0
92	OHX	1	3469	7/7	0.98	0.11	-4.65	56,56,56,56	0
92	OHX	1	3429	7/7	1.00	0.07	-4.70	47,47,47,47	0
92	OHX	1	3446	7/7	0.98	0.09	-4.70	47,47,47,47	0
92	OHX	5	3463	7/7	0.97	0.14	-4.77	48,48,48,48	0
92	OHX	6	1903	7/7	0.99	0.12	-4.77	61,61,61,61	0
92	OHX	5	3445	7/7	0.99	0.08	-4.78	51,51,51,51	0
92	OHX	1	3431	7/7	0.99	0.08	-4.85	43,43,43,43	0
92	OHX	2	1922	7/7	0.99	0.06	-4.88	83,83,83,83	0
93	MG	1	3802	1/1	0.99	0.13	-4.90	37,37,37,37	0
92	OHX	5	3615	7/7	0.99	0.11	-4.90	47,47,47,47	0
92	OHX	q2	502	7/7	0.99	0.08	-4.94	45,45,45,45	0
92	OHX	1	3438	7/7	0.99	0.06	-4.99	47,47,47,47	0
92	OHX	1	3462	7/7	0.99	0.08	-5.01	43,43,43,43	0
92	OHX	5	3420	7/7	0.99	0.10	-5.04	50,50,50,50	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	6	2158	1/1	0.96	0.05	-5.06	54,54,54,54	0
92	OHX	5	3487	7/7	0.98	0.12	-5.09	53,53,53,53	0
92	OHX	5	3453	7/7	0.99	0.09	-5.11	55,55,55,55	0
92	OHX	5	3493	7/7	0.99	0.10	-5.16	48,48,48,48	0
92	OHX	6	1933	7/7	0.98	0.11	-5.19	98,98,98,98	0
92	OHX	4	203	7/7	0.98	0.10	-5.20	49,49,49,49	0
92	OHX	2	1919	7/7	0.99	0.07	-5.21	73,73,73,73	0
92	OHX	5	3577	7/7	0.99	0.13	-5.26	50,50,50,50	0
92	OHX	1	3421	7/7	0.99	0.10	-5.29	59,59,59,59	0
92	OHX	5	3432	7/7	0.99	0.10	-5.42	46,46,46,46	0
92	OHX	1	3499	7/7	0.98	0.12	-5.61	50,50,50,50	0
92	OHX	5	3523	7/7	0.99	0.12	-5.63	61,61,61,61	0
92	OHX	5	3481	7/7	0.98	0.10	-5.74	49,49,49,49	0
93	MG	1	3764	1/1	0.98	0.07	-5.78	50,50,50,50	0
92	OHX	1	3527	7/7	0.98	0.14	-5.78	69,69,69,69	0
92	OHX	5	3467	7/7	0.99	0.10	-5.80	45,45,45,45	0
92	OHX	1	3451	7/7	0.98	0.10	-5.84	62,62,62,62	0
92	OHX	5	3485	7/7	0.99	0.11	-5.84	48,48,48,48	0
92	OHX	5	3421	7/7	0.98	0.14	-5.85	44,44,44,44	0
92	OHX	1	3475	7/7	0.97	0.11	-5.98	51,51,51,51	0
92	OHX	5	3466	7/7	0.99	0.08	-6.06	56,56,56,56	0
92	OHX	1	3467	7/7	0.99	0.11	-6.41	43,43,43,43	0
92	OHX	5	3434	7/7	1.00	0.06	-6.54	39,39,39,39	0
92	OHX	6	1909	7/7	0.99	0.09	-6.55	91,91,91,91	0
92	OHX	5	3522	7/7	0.99	0.15	-6.67	47,47,47,47	0
92	OHX	1	3420	7/7	1.00	0.06	-6.67	38,38,38,38	0
92	OHX	6	1917	7/7	0.99	0.07	-6.87	55,55,55,55	0
92	OHX	1	3487	7/7	0.99	0.09	-6.88	57,57,57,57	0
92	OHX	5	3429	7/7	1.00	0.06	-6.95	37,37,37,37	0
92	OHX	5	3419	7/7	1.00	0.12	-7.01	40,40,40,40	0
92	OHX	1	3414	7/7	0.99	0.09	-7.09	45,45,45,45	0
92	OHX	6	1915	7/7	0.99	0.09	-7.17	62,62,62,62	0
92	OHX	5	3488	7/7	0.99	0.10	-7.30	47,47,47,47	0
93	MG	1	3928	1/1	0.94	0.15	-7.37	56,56,56,56	0
92	OHX	5	3441	7/7	0.99	0.06	-7.76	45,45,45,45	0
92	OHX	1	3413	7/7	0.99	0.09	-7.89	51,51,51,51	0
92	OHX	5	3416	7/7	0.99	0.09	-7.95	42,42,42,42	0
92	OHX	5	3492	7/7	1.00	0.06	-8.19	46,46,46,46	0
92	OHX	5	3428	7/7	0.99	0.05	-8.24	41,41,41,41	0
92	OHX	5	3410	7/7	0.99	0.13	-8.61	43,43,43,43	0
92	OHX	5	3473	7/7	0.98	0.09	-9.49	63,63,63,63	0
92	OHX	1	3474	7/7	0.99	0.09	-9.87	55,55,55,55	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3423	7/7	0.99	0.10	-10.60	55,55,55,55	0
92	OHX	5	3431	7/7	1.00	0.08	-10.98	53,53,53,53	0
93	MG	5	3751	1/1	0.88	0.70	-	60,60,60,60	0
92	OHX	1	3584	7/7	0.98	0.36	-	78,78,78,78	0
93	MG	6	2157	1/1	0.96	0.29	-	57,57,57,57	0
93	MG	5	4136	1/1	0.93	0.24	-	36,36,36,36	0
93	MG	3	214	1/1	0.96	0.42	-	59,59,59,59	0
93	MG	2	2106	1/1	0.63	0.24	-	96,96,96,96	0
92	OHX	2	1997	7/7	0.97	0.22	-	96,96,96,96	0
92	OHX	2	2013	7/7	0.95	0.22	-	104,104,104,104	0
93	MG	N3	202	1/1	0.96	0.16	-	51,51,51,51	0
92	OHX	5	3614	7/7	0.96	0.17	-	71,71,71,71	0
92	OHX	5	3708	7/7	0.97	0.41	-	67,67,67,67	0
92	OHX	5	3728	7/7	0.97	0.30	-	71,71,71,71	0
92	OHX	1	3595	7/7	0.94	0.39	-	68,68,68,68	0
92	OHX	5	3677	7/7	0.98	0.25	-	66,66,66,66	0
93	MG	1	3926	1/1	0.94	0.35	-	39,39,39,39	0
93	MG	1	3973	1/1	0.92	0.34	-	43,43,43,43	0
93	MG	5	3880	1/1	0.93	0.86	-	37,37,37,37	0
92	OHX	6	2020	7/7	0.97	0.28	-	94,94,94,94	0
93	MG	1	3963	1/1	0.91	0.63	-	54,54,54,54	0
92	OHX	6	1982	7/7	0.97	0.18	-	96,96,96,96	0
93	MG	5	4137	1/1	0.88	0.46	-	38,38,38,38	0
93	MG	1	4122	1/1	0.90	0.31	-	39,39,39,39	0
93	MG	6	2138	1/1	0.88	0.12	-	82,82,82,82	0
92	OHX	1	3553	7/7	0.95	0.26	-	58,58,58,58	0
93	MG	1	3871	1/1	0.89	0.46	-	52,52,52,52	0
92	OHX	5	3572	7/7	0.98	0.22	-	61,61,61,61	0
93	MG	5	4121	1/1	0.95	0.14	-	41,41,41,41	0
93	MG	2	2097	1/1	0.94	0.17	-	118,118,118,118	0
93	MG	1	3818	1/1	0.75	0.42	-	51,51,51,51	0
93	MG	5	3907	1/1	0.95	0.82	-	38,38,38,38	0
93	MG	1	3771	1/1	0.94	0.49	-	41,41,41,41	0
93	MG	1	4058	1/1	0.94	0.78	-	38,38,38,38	0
92	OHX	4	202	7/7	0.99	0.13	-	47,47,47,47	0
93	MG	5	3841	1/1	0.95	0.24	-	35,35,35,35	0
92	OHX	1	3632	7/7	0.98	0.28	-	88,88,88,88	0
93	MG	5	4154	1/1	0.83	0.27	-	46,46,46,46	0
92	OHX	1	3567	7/7	0.99	0.15	-	71,71,71,71	0
92	OHX	5	3448	7/7	0.99	0.08	-	41,41,41,41	0
92	OHX	1	3541	7/7	0.96	0.22	-	66,66,66,66	0
92	OHX	6	2001	7/7	0.96	0.26	-	93,93,93,93	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	3919	1/1	0.86	0.59	-	32,32,32,32	0
93	MG	O7	103	1/1	0.94	0.20	-	40,40,40,40	0
93	MG	5	3843	1/1	0.97	0.53	-	43,43,43,43	0
93	MG	1	3873	1/1	0.94	0.48	-	41,41,41,41	0
93	MG	5	3795	1/1	0.94	0.27	-	62,62,62,62	0
93	MG	5	4144	1/1	0.94	0.15	-	38,38,38,38	0
93	MG	1	3756	1/1	0.95	0.42	-	54,54,54,54	0
93	MG	1	3953	1/1	0.64	0.37	-	48,48,48,48	0
93	MG	1	4050	1/1	0.92	0.37	-	47,47,47,47	0
93	MG	1	3895	1/1	0.96	0.63	-	42,42,42,42	0
92	OHX	2	1958	7/7	0.96	0.19	-	109,109,109,109	0
92	OHX	5	3731	7/7	0.95	0.29	-	97,97,97,97	0
93	MG	5	3977	1/1	0.97	0.32	-	35,35,35,35	0
92	OHX	1	3666	7/7	0.97	0.25	-	87,87,87,87	0
93	MG	6	2086	1/1	0.41	0.26	-	75,75,75,75	0
93	MG	5	4065	1/1	0.97	0.16	-	38,38,38,38	0
93	MG	M3	1000	1/1	0.87	0.35	-	64,64,64,64	0
92	OHX	6	2022	7/7	0.97	0.39	-	91,91,91,91	0
93	MG	2	2112	1/1	0.80	0.58	-	83,83,83,83	0
93	MG	5	4046	1/1	0.95	0.52	-	47,47,47,47	0
93	MG	1	3744	1/1	0.69	0.41	-	52,52,52,52	0
93	MG	1	3805	1/1	0.88	0.14	-	58,58,58,58	0
93	MG	5	4109	1/1	0.81	0.70	-	42,42,42,42	0
92	OHX	5	3736	7/7	0.97	0.37	-	81,81,81,81	0
93	MG	5	3891	1/1	0.91	0.51	-	39,39,39,39	0
93	MG	5	4149	1/1	0.91	0.22	-	37,37,37,37	0
92	OHX	2	1989	7/7	0.96	0.17	-	93,93,93,93	0
93	MG	4	226	1/1	0.89	0.54	-	40,40,40,40	0
92	OHX	1	3708	7/7	0.95	0.24	-	114,114,114,114	0
93	MG	2	2066	1/1	0.93	0.75	-	72,72,72,72	0
93	MG	2	2094	1/1	0.29	0.71	-	81,81,81,81	0
93	MG	1	4094	1/1	0.70	0.63	-	55,55,55,55	0
93	MG	1	3862	1/1	0.96	0.72	-	38,38,38,38	0
92	OHX	1	3557	7/7	0.99	0.16	-	56,56,56,56	0
93	MG	5	4095	1/1	0.92	0.37	-	35,35,35,35	0
96	LEU	1	3402	8/9	0.95	0.28	-	39,40,40,40	0
93	MG	1	3860	1/1	0.86	0.65	-	41,41,41,41	0
93	MG	1	4084	1/1	0.92	0.25	-	56,56,56,56	0
93	MG	1	3934	1/1	0.93	0.20	-	51,51,51,51	0
93	MG	5	4058	1/1	0.87	0.20	-	40,40,40,40	0
93	MG	1	4112	1/1	0.94	0.32	-	45,45,45,45	0
93	MG	5	3848	1/1	0.84	0.43	-	50,50,50,50	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	4009	1/1	0.81	0.60	-	48,48,48,48	0
92	OHX	6	2010	7/7	0.95	0.24	-	91,91,91,91	0
93	MG	5	4047	1/1	0.88	0.35	-	41,41,41,41	0
93	MG	1	3869	1/1	0.78	0.41	-	41,41,41,41	0
92	OHX	1	3647	7/7	0.96	0.27	-	93,93,93,93	0
93	MG	6	2167	1/1	0.60	0.95	-	55,55,55,55	0
92	OHX	1	3459	7/7	0.99	0.08	-	72,72,72,72	0
93	MG	5	4117	1/1	0.68	0.28	-	63,63,63,63	0
93	MG	4	230	1/1	0.86	0.34	-	46,46,46,46	0
93	MG	5	4171	1/1	0.72	0.51	-	41,41,41,41	0
93	MG	5	3882	1/1	0.93	0.39	-	37,37,37,37	0
92	OHX	5	3437	7/7	0.99	0.11	-	41,41,41,41	0
93	MG	n8	202	1/1	0.93	0.18	-	34,34,34,34	0
92	OHX	1	3476	7/7	0.98	0.16	-	62,62,62,62	0
93	MG	1	3976	1/1	0.98	0.14	-	53,53,53,53	0
93	MG	1	3819	1/1	0.81	0.31	-	62,62,62,62	0
92	OHX	1	3715	7/7	0.98	0.25	-	82,82,82,82	0
93	MG	5	4131	1/1	0.91	0.27	-	40,40,40,40	0
93	MG	1	4096	1/1	0.97	0.11	-	52,52,52,52	0
93	MG	5	4084	1/1	0.88	0.55	-	42,42,42,42	0
93	MG	1	3843	1/1	0.94	0.57	-	38,38,38,38	0
93	MG	4	225	1/1	0.83	0.47	-	47,47,47,47	0
92	OHX	5	3639	7/7	0.96	0.27	-	56,56,56,56	0
93	MG	5	3999	1/1	0.94	0.23	-	31,31,31,31	0
92	OHX	1	3546	7/7	0.98	0.19	-	68,68,68,68	0
93	MG	6	2148	1/1	0.89	0.23	-	58,58,58,58	0
92	OHX	1	3442	7/7	0.97	0.12	-	55,55,55,55	0
93	MG	1	3750	1/1	0.87	0.52	-	55,55,55,55	0
93	MG	1	4101	1/1	0.87	0.19	-	37,37,37,37	0
93	MG	1	3829	1/1	0.97	0.59	-	43,43,43,43	0
93	MG	1	4049	1/1	0.89	0.16	-	44,44,44,44	0
93	MG	5	3884	1/1	0.96	0.25	-	30,30,30,30	0
92	OHX	5	3479	7/7	0.99	0.10	-	58,58,58,58	0
93	MG	5	3954	1/1	0.97	0.33	-	41,41,41,41	0
93	MG	5	3762	1/1	0.92	0.42	-	33,33,33,33	0
92	OHX	2	2037	7/7	0.96	0.26	-	98,98,98,98	0
93	MG	5	4160	1/1	0.98	0.33	-	33,33,33,33	0
92	OHX	5	3449	7/7	0.98	0.14	-	48,48,48,48	0
93	MG	6	2101	1/1	0.89	0.40	-	53,53,53,53	0
92	OHX	5	3526	7/7	0.98	0.15	-	58,58,58,58	0
93	MG	2	2053	1/1	0.94	0.81	-	70,70,70,70	0
93	MG	5	4102	1/1	0.97	0.20	-	40,40,40,40	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	n0	201	1/1	0.95	0.31	-	37,37,37,37	0
93	MG	1	4035	1/1	0.95	0.27	-	47,47,47,47	0
92	OHX	1	3725	7/7	0.96	0.30	-	75,75,75,75	0
93	MG	1	3804	1/1	0.86	0.38	-	46,46,46,46	0
93	MG	5	4018	1/1	0.97	0.19	-	31,31,31,31	0
93	MG	6	2165	1/1	0.91	0.25	-	69,69,69,69	0
93	MG	7	225	1/1	0.64	1.51	-	44,44,44,44	0
93	MG	5	4130	1/1	0.87	0.29	-	33,33,33,33	0
92	OHX	5	3690	7/7	0.94	0.30	-	79,79,79,79	0
93	MG	5	3778	1/1	0.98	0.47	-	40,40,40,40	0
92	OHX	5	3744	7/7	0.98	0.30	-	72,72,72,72	0
93	MG	5	4163	1/1	0.94	0.20	-	44,44,44,44	0
92	OHX	2	2051	7/7	0.93	0.35	-	105,105,105,105	0
93	MG	8	227	1/1	0.85	0.18	-	51,51,51,51	0
93	MG	1	4019	1/1	0.98	0.16	-	36,36,36,36	0
92	OHX	1	3510	7/7	0.97	0.17	-	60,60,60,60	0
93	MG	2	2085	1/1	0.93	0.64	-	76,76,76,76	0
93	MG	6	2067	1/1	0.80	0.35	-	57,57,57,57	0
92	OHX	5	3447	7/7	0.99	0.07	-	56,56,56,56	0
92	OHX	2	2027	7/7	0.95	0.29	-	93,93,93,93	0
92	OHX	5	3723	7/7	0.97	0.32	-	62,62,62,62	0
93	MG	4	235	1/1	0.96	0.35	-	42,42,42,42	0
93	MG	1	4039	1/1	0.87	0.68	-	52,52,52,52	0
92	OHX	6	1941	7/7	0.97	0.19	-	96,96,96,96	0
92	OHX	5	3674	7/7	0.98	0.34	-	56,56,56,56	0
93	MG	l3	403	1/1	0.95	0.70	-	31,31,31,31	0
93	MG	1	3903	1/1	0.87	0.46	-	40,40,40,40	0
93	MG	5	4076	1/1	0.95	0.50	-	47,47,47,47	0
93	MG	1	3781	1/1	0.96	0.44	-	52,52,52,52	0
92	OHX	1	3691	7/7	0.99	0.18	-	52,52,52,52	0
93	MG	5	3920	1/1	0.90	0.48	-	42,42,42,42	0
92	OHX	1	3578	7/7	0.98	0.21	-	51,51,51,51	0
93	MG	5	4165	1/1	0.84	0.65	-	49,49,49,49	0
93	MG	1	4106	1/1	0.82	0.29	-	54,54,54,54	0
93	MG	2	2111	1/1	0.90	0.38	-	78,78,78,78	0
93	MG	6	2070	1/1	0.87	0.30	-	94,94,94,94	0
93	MG	1	3945	1/1	0.74	0.54	-	45,45,45,45	0
93	MG	5	3815	1/1	0.76	0.31	-	40,40,40,40	0
92	OHX	5	3735	7/7	0.97	0.35	-	70,70,70,70	0
92	OHX	5	3631	7/7	0.99	0.20	-	65,65,65,65	0
92	OHX	5	3622	7/7	0.98	0.17	-	73,73,73,73	0
93	MG	4	229	1/1	0.99	0.09	-	46,46,46,46	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	6	2085	1/1	0.85	0.53	-	58,58,58,58	0
93	MG	1	3993	1/1	0.98	0.29	-	44,44,44,44	0
93	MG	6	2117	1/1	0.91	0.48	-	55,55,55,55	0
93	MG	5	3938	1/1	0.85	0.52	-	38,38,38,38	0
92	OHX	M7	201	7/7	0.97	0.32	-	62,62,62,62	0
92	OHX	2	1944	7/7	0.98	0.15	-	83,83,83,83	0
93	MG	5	3824	1/1	0.90	0.33	-	42,42,42,42	0
93	MG	5	3866	1/1	0.97	0.52	-	39,39,39,39	0
92	OHX	2	2024	7/7	0.94	0.23	-	103,103,103,103	0
93	MG	6	2183	1/1	0.77	0.41	-	72,72,72,72	0
93	MG	q1	101	1/1	0.92	0.32	-	58,58,58,58	0
92	OHX	5	3459	7/7	0.98	0.15	-	64,64,64,64	0
92	OHX	5	3699	7/7	0.97	0.25	-	70,70,70,70	0
93	MG	5	3924	1/1	0.85	0.41	-	36,36,36,36	0
93	MG	5	3951	1/1	0.94	0.50	-	33,33,33,33	0
93	MG	1	4032	1/1	0.61	0.49	-	34,34,34,34	0
93	MG	1	4015	1/1	0.87	0.34	-	36,36,36,36	0
93	MG	5	4120	1/1	0.88	0.47	-	35,35,35,35	0
92	OHX	1	3570	7/7	0.98	0.18	-	75,75,75,75	0
93	MG	2	2103	1/1	0.90	0.54	-	74,74,74,74	0
93	MG	6	2145	1/1	0.73	0.13	-	89,89,89,89	0
93	MG	c8	202	1/1	0.58	0.38	-	84,84,84,84	0
93	MG	6	2180	1/1	0.58	0.90	-	98,98,98,98	0
93	MG	1	3858	1/1	0.87	0.46	-	35,35,35,35	0
93	MG	5	4124	1/1	0.66	0.40	-	37,37,37,37	0
93	MG	8	228	1/1	0.94	0.20	-	47,47,47,47	0
92	OHX	6	2046	7/7	0.97	0.30	-	93,93,93,93	0
93	MG	1	4067	1/1	0.96	0.77	-	38,38,38,38	0
92	OHX	2	2030	7/7	0.92	0.40	-	95,95,95,95	0
93	MG	1	3938	1/1	0.78	0.19	-	57,57,57,57	0
93	MG	1	4078	1/1	0.68	0.45	-	40,40,40,40	0
92	OHX	1	3698	7/7	0.94	0.27	-	58,58,58,58	0
92	OHX	6	1968	7/7	0.96	0.31	-	74,74,74,74	0
93	MG	5	3947	1/1	0.84	0.67	-	32,32,32,32	0
93	MG	1	4044	1/1	0.29	0.32	-	52,52,52,52	0
92	OHX	1	3547	7/7	0.98	0.22	-	65,65,65,65	0
93	MG	N8	202	1/1	0.94	0.23	-	31,31,31,31	0
93	MG	1	4080	1/1	0.78	0.34	-	54,54,54,54	0
92	OHX	1	3550	7/7	0.99	0.22	-	63,63,63,63	0
93	MG	1	3890	1/1	0.93	0.90	-	36,36,36,36	0
93	MG	5	3833	1/1	0.66	0.73	-	44,44,44,44	0
92	OHX	5	3509	7/7	0.97	0.21	-	63,63,63,63	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	2	1992	7/7	0.99	0.16	-	95,95,95,95	0
92	OHX	5	3620	7/7	0.93	0.26	-	73,73,73,73	0
93	MG	1	3939	1/1	0.40	0.39	-	54,54,54,54	0
92	OHX	6	1925	7/7	0.97	0.12	-	76,76,76,76	0
92	OHX	5	3678	7/7	0.97	0.28	-	60,60,60,60	0
92	OHX	1	3492	7/7	0.98	0.14	-	66,66,66,66	0
93	MG	1	4064	1/1	0.54	0.45	-	43,43,43,43	0
93	MG	1	3796	1/1	0.89	0.25	-	39,39,39,39	0
93	MG	1	3902	1/1	0.90	0.77	-	37,37,37,37	0
92	OHX	1	3437	7/7	0.99	0.09	-	52,52,52,52	0
92	OHX	6	1959	7/7	0.94	0.20	-	67,67,67,67	0
93	MG	6	2082	1/1	0.62	0.38	-	87,87,87,87	0
93	MG	5	4147	1/1	0.96	0.17	-	33,33,33,33	0
92	OHX	6	1935	7/7	0.98	0.17	-	68,68,68,68	0
92	OHX	1	3707	7/7	0.98	0.08	-	97,97,97,97	0
92	OHX	5	3713	7/7	0.97	0.24	-	53,53,53,53	0
93	MG	6	2153	1/1	0.78	0.30	-	86,86,86,86	0
93	MG	1	3978	1/1	0.91	0.31	-	65,65,65,65	0
93	MG	1	3874	1/1	0.84	0.40	-	33,33,33,33	0
93	MG	2	2078	1/1	0.81	0.44	-	92,92,92,92	0
93	MG	1	3753	1/1	0.95	0.16	-	40,40,40,40	0
92	OHX	1	3440	7/7	0.98	0.10	-	59,59,59,59	0
92	OHX	1	3598	7/7	0.99	0.15	-	78,78,78,78	0
93	MG	5	3959	1/1	0.90	0.28	-	38,38,38,38	0
93	MG	16	201	1/1	0.80	0.38	-	44,44,44,44	0
93	MG	1	3789	1/1	0.94	0.87	-	39,39,39,39	0
92	OHX	1	3596	7/7	0.98	0.39	-	60,60,60,60	0
92	OHX	2	2007	7/7	0.97	0.33	-	88,88,88,88	0
92	OHX	5	3567	7/7	0.99	0.13	-	58,58,58,58	0
92	OHX	5	3665	7/7	0.95	0.27	-	92,92,92,92	0
92	OHX	6	2030	7/7	0.97	0.25	-	74,74,74,74	0
93	MG	5	4048	1/1	0.97	0.19	-	40,40,40,40	0
93	MG	5	4031	1/1	0.88	0.16	-	56,56,56,56	0
93	MG	4	237	1/1	0.87	0.31	-	31,31,31,31	0
92	OHX	M9	201	7/7	0.97	0.33	-	74,74,74,74	0
93	MG	n9	102	1/1	0.97	0.86	-	29,29,29,29	0
93	MG	2	2132	1/1	0.77	0.46	-	76,76,76,76	0
93	MG	5	4032	1/1	0.90	0.39	-	33,33,33,33	0
93	MG	5	3997	1/1	0.90	0.20	-	34,34,34,34	0
93	MG	5	3994	1/1	0.90	0.67	-	40,40,40,40	0
93	MG	5	3818	1/1	0.98	0.26	-	43,43,43,43	0
93	MG	1	3740	1/1	0.96	0.43	-	33,33,33,33	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	4	234	1/1	0.88	0.23	-	41,41,41,41	0
93	MG	5	3969	1/1	0.93	0.28	-	40,40,40,40	0
93	MG	1	3815	1/1	0.95	0.38	-	50,50,50,50	0
93	MG	5	3870	1/1	0.93	0.50	-	32,32,32,32	0
92	OHX	6	1986	7/7	0.98	0.24	-	77,77,77,77	0
93	MG	2	2138	1/1	0.75	0.62	-	87,87,87,87	0
93	MG	5	4024	1/1	0.91	0.26	-	37,37,37,37	0
92	OHX	5	3558	7/7	0.98	0.18	-	78,78,78,78	0
93	MG	1	4028	1/1	0.91	0.18	-	41,41,41,41	0
92	OHX	2	2033	7/7	0.95	0.19	-	123,123,123,123	0
93	MG	5	3791	1/1	0.84	0.51	-	36,36,36,36	0
93	MG	1	3970	1/1	0.91	0.63	-	42,42,42,42	0
93	MG	5	4007	1/1	0.96	0.64	-	37,37,37,37	0
92	OHX	4	210	7/7	0.98	0.22	-	53,53,53,53	0
93	MG	1	3910	1/1	0.98	0.54	-	29,29,29,29	0
93	MG	1	4089	1/1	0.92	0.60	-	44,44,44,44	0
93	MG	n6	201	1/1	0.67	0.43	-	46,46,46,46	0
93	MG	1	4048	1/1	0.94	0.52	-	43,43,43,43	0
93	MG	5	3993	1/1	0.92	0.52	-	38,38,38,38	0
93	MG	5	4080	1/1	0.92	0.20	-	32,32,32,32	0
93	MG	1	4070	1/1	0.90	0.20	-	46,46,46,46	0
93	MG	1	3870	1/1	0.82	0.40	-	49,49,49,49	0
93	MG	m6	205	1/1	0.86	0.47	-	36,36,36,36	0
93	MG	5	3790	1/1	0.91	0.79	-	34,34,34,34	0
93	MG	1	3967	1/1	0.89	0.24	-	32,32,32,32	0
93	MG	1	3766	1/1	0.97	0.49	-	47,47,47,47	0
93	MG	2	2070	1/1	0.80	0.72	-	71,71,71,71	0
93	MG	5	4086	1/1	0.51	0.46	-	34,34,34,34	0
93	MG	2	2108	1/1	0.54	0.34	-	92,92,92,92	0
93	MG	1	3872	1/1	0.99	0.23	-	41,41,41,41	0
93	MG	6	2114	1/1	0.55	0.50	-	89,89,89,89	0
93	MG	5	4011	1/1	0.95	0.69	-	43,43,43,43	0
92	OHX	5	3533	7/7	0.98	0.17	-	45,45,45,45	0
93	MG	1	4005	1/1	0.86	0.30	-	40,40,40,40	0
93	MG	m0	304	1/1	0.98	0.30	-	36,36,36,36	0
93	MG	1	3957	1/1	0.92	0.22	-	56,56,56,56	0
93	MG	1	3940	1/1	0.92	0.33	-	54,54,54,54	0
93	MG	2	2127	1/1	0.92	0.71	-	77,77,77,77	0
93	MG	6	2163	1/1	0.89	0.48	-	66,66,66,66	0
92	OHX	3	209	7/7	0.96	0.27	-	84,84,84,84	0
93	MG	5	3963	1/1	0.96	0.44	-	43,43,43,43	0
93	MG	2	2125	1/1	0.81	0.51	-	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	6	2150	1/1	0.93	1.11	-	58,58,58,58	0
93	MG	6	2132	1/1	0.91	0.48	-	59,59,59,59	0
92	OHX	1	3583	7/7	0.97	0.22	-	53,53,53,53	0
93	MG	5	3968	1/1	0.99	0.09	-	49,49,49,49	0
92	OHX	1	3627	7/7	0.97	0.28	-	73,73,73,73	0
92	OHX	5	3518	7/7	0.99	0.13	-	55,55,55,55	0
92	OHX	2	1965	7/7	0.97	0.16	-	84,84,84,84	0
92	OHX	1	3680	7/7	0.96	0.27	-	67,67,67,67	0
92	OHX	1	3677	7/7	0.98	0.28	-	67,67,67,67	0
93	MG	5	3797	1/1	0.92	0.25	-	37,37,37,37	0
93	MG	5	3872	1/1	0.99	0.36	-	33,33,33,33	0
93	MG	D9	103	1/1	0.79	0.31	-	92,92,92,92	0
93	MG	1	3770	1/1	0.94	0.46	-	36,36,36,36	0
92	OHX	2	2034	7/7	0.97	0.26	-	87,87,87,87	0
93	MG	m6	203	1/1	0.73	0.32	-	34,34,34,34	0
92	OHX	1	3636	7/7	0.96	0.31	-	59,59,59,59	0
93	MG	5	3946	1/1	0.98	0.45	-	35,35,35,35	0
92	OHX	1	3555	7/7	0.99	0.12	-	70,70,70,70	0
93	MG	1	3865	1/1	0.91	0.69	-	49,49,49,49	0
93	MG	p	102	1/1	0.90	0.31	-	35,35,35,35	0
93	MG	5	4099	1/1	0.78	0.63	-	52,52,52,52	0
93	MG	5	3757	1/1	0.94	0.66	-	44,44,44,44	0
93	MG	6	2166	1/1	0.34	0.43	-	114,114,114,114	0
92	OHX	5	3657	7/7	0.98	0.28	-	64,64,64,64	0
93	MG	1	3964	1/1	0.80	1.09	-	45,45,45,45	0
92	OHX	5	3535	7/7	0.97	0.17	-	53,53,53,53	0
93	MG	5	3821	1/1	0.80	0.27	-	41,41,41,41	0
93	MG	6	2172	1/1	0.94	0.52	-	64,64,64,64	0
92	OHX	1	3706	7/7	0.97	0.27	-	74,74,74,74	0
93	MG	5	4148	1/1	0.86	0.33	-	48,48,48,48	0
93	MG	5	4122	1/1	0.98	0.21	-	34,34,34,34	0
93	MG	2	2104	1/1	0.86	0.47	-	97,97,97,97	0
93	MG	2	2064	1/1	0.88	0.31	-	85,85,85,85	0
93	MG	1	3954	1/1	0.83	0.25	-	55,55,55,55	0
93	MG	1	3855	1/1	0.79	0.78	-	56,56,56,56	0
93	MG	1	4121	1/1	0.95	0.24	-	38,38,38,38	0
93	MG	5	3774	1/1	0.98	0.85	-	46,46,46,46	0
93	MG	1	3768	1/1	0.87	0.43	-	46,46,46,46	0
93	MG	1	3849	1/1	0.98	0.30	-	34,34,34,34	0
93	MG	1	3990	1/1	0.80	0.45	-	40,40,40,40	0
92	OHX	6	1964	7/7	0.98	0.21	-	62,62,62,62	0
93	MG	3	212	1/1	0.95	0.53	-	59,59,59,59	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	2	2028	7/7	0.93	0.25	-	109,109,109,109	0
93	MG	1	4046	1/1	0.96	0.27	-	40,40,40,40	0
93	MG	5	3787	1/1	0.95	0.33	-	33,33,33,33	0
92	OHX	6	2003	7/7	0.96	0.20	-	89,89,89,89	0
92	OHX	7	208	7/7	0.98	0.23	-	61,61,61,61	0
93	MG	1	4124	1/1	0.95	0.30	-	46,46,46,46	0
92	OHX	5	3668	7/7	0.98	0.20	-	72,72,72,72	0
93	MG	1	3828	1/1	0.92	0.88	-	50,50,50,50	0
92	OHX	5	3564	7/7	0.99	0.20	-	72,72,72,72	0
93	MG	5	3981	1/1	0.85	0.20	-	50,50,50,50	0
93	MG	2	2101	1/1	0.72	0.40	-	79,79,79,79	0
92	OHX	5	3691	7/7	0.97	0.34	-	49,49,49,49	0
93	MG	L4	403	1/1	0.82	0.32	-	31,31,31,31	0
93	MG	2	2107	1/1	0.97	0.34	-	81,81,81,81	0
93	MG	5	4041	1/1	0.69	0.37	-	43,43,43,43	0
93	MG	2	2082	1/1	0.94	0.43	-	74,74,74,74	0
93	MG	m4	201	1/1	0.91	0.29	-	42,42,42,42	0
92	OHX	4	216	7/7	0.97	0.28	-	57,57,57,57	0
93	MG	1	4085	1/1	0.90	0.28	-	33,33,33,33	0
93	MG	6	2125	1/1	0.64	0.88	-	57,57,57,57	0
93	MG	6	2133	1/1	0.57	0.34	-	94,94,94,94	0
93	MG	6	2102	1/1	0.78	0.48	-	96,96,96,96	0
93	MG	1	3782	1/1	0.96	0.36	-	41,41,41,41	0
92	OHX	6	1967	7/7	0.96	0.17	-	78,78,78,78	0
92	OHX	5	3741	7/7	0.98	0.11	-	59,59,59,59	0
93	MG	5	3786	1/1	0.89	0.38	-	37,37,37,37	0
93	MG	2	2117	1/1	0.28	0.55	-	94,94,94,94	0
92	OHX	1	3673	7/7	0.96	0.34	-	67,67,67,67	0
93	MG	1	3936	1/1	0.96	0.45	-	40,40,40,40	0
92	OHX	2	1952	7/7	0.97	0.24	-	104,104,104,104	0
92	OHX	1	3701	7/7	0.95	0.26	-	87,87,87,87	0
93	MG	1	3987	1/1	0.94	0.35	-	43,43,43,43	0
93	MG	5	3800	1/1	0.89	0.44	-	52,52,52,52	0
93	MG	1	3734	1/1	0.91	0.48	-	39,39,39,39	0
93	MG	5	4101	1/1	0.97	0.43	-	33,33,33,33	0
92	OHX	2	1939	7/7	0.97	0.14	-	92,92,92,92	0
93	MG	5	4060	1/1	0.95	0.26	-	47,47,47,47	0
93	MG	5	4108	1/1	0.85	0.50	-	37,37,37,37	0
93	MG	5	3814	1/1	0.90	0.23	-	42,42,42,42	0
92	OHX	6	1934	7/7	0.99	0.12	-	68,68,68,68	0
93	MG	5	3881	1/1	0.94	0.71	-	36,36,36,36	0
92	OHX	2	2026	7/7	0.95	0.28	-	109,109,109,109	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	3828	1/1	0.89	0.28	-	43,43,43,43	0
92	OHX	1	3564	7/7	0.98	0.21	-	70,70,70,70	0
93	MG	5	3964	1/1	0.91	0.53	-	46,46,46,46	0
92	OHX	1	3600	7/7	0.99	0.30	-	58,58,58,58	0
93	MG	M7	203	1/1	0.97	0.20	-	38,38,38,38	0
92	OHX	1	3558	7/7	0.98	0.19	-	74,74,74,74	0
92	OHX	1	3458	7/7	0.99	0.10	-	53,53,53,53	0
93	MG	3	211	1/1	0.96	0.28	-	60,60,60,60	0
93	MG	1	4110	1/1	0.79	0.25	-	43,43,43,43	0
92	OHX	1	3561	7/7	0.95	0.22	-	60,60,60,60	0
92	OHX	8	205	7/7	0.98	0.12	-	75,75,75,75	0
93	MG	5	3995	1/1	0.90	0.36	-	41,41,41,41	0
93	MG	1	4113	1/1	0.99	0.19	-	59,59,59,59	0
93	MG	5	3975	1/1	0.94	0.12	-	46,46,46,46	0
93	MG	5	3764	1/1	0.77	0.38	-	34,34,34,34	0
92	OHX	2	2014	7/7	0.95	0.17	-	107,107,107,107	0
93	MG	6	2164	1/1	0.91	0.25	-	57,57,57,57	0
93	MG	1	3863	1/1	0.96	0.34	-	36,36,36,36	0
92	OHX	1	3436	7/7	0.98	0.09	-	63,63,63,63	0
93	MG	5	4026	1/1	0.93	0.28	-	49,49,49,49	0
92	OHX	2	1998	7/7	0.97	0.38	-	95,95,95,95	0
93	MG	8	221	1/1	0.94	0.51	-	39,39,39,39	0
93	MG	5	3836	1/1	0.87	0.27	-	41,41,41,41	0
93	MG	3	213	1/1	0.98	0.68	-	39,39,39,39	0
92	OHX	2	1928	7/7	0.98	0.15	-	79,79,79,79	0
92	OHX	5	3733	7/7	0.98	0.25	-	74,74,74,74	0
93	MG	6	2141	1/1	0.70	0.51	-	95,95,95,95	0
93	MG	5	3807	1/1	0.81	0.41	-	36,36,36,36	0
93	MG	5	3876	1/1	0.76	0.63	-	35,35,35,35	0
93	MG	7	224	1/1	0.95	0.17	-	36,36,36,36	0
93	MG	1	3774	1/1	0.71	0.63	-	51,51,51,51	0
92	OHX	1	3480	7/7	0.98	0.11	-	67,67,67,67	0
92	OHX	1	3652	7/7	0.98	0.25	-	64,64,64,64	0
93	MG	5	4138	1/1	0.88	0.45	-	38,38,38,38	0
93	MG	1	3847	1/1	0.96	0.30	-	33,33,33,33	0
93	MG	5	3856	1/1	0.94	0.52	-	53,53,53,53	0
93	MG	1	3961	1/1	0.77	0.35	-	40,40,40,40	0
92	OHX	5	3697	7/7	0.97	0.31	-	70,70,70,70	0
93	MG	5	4088	1/1	0.76	0.40	-	41,41,41,41	0
92	OHX	8	201	7/7	0.99	0.11	-	41,41,41,41	0
92	OHX	5	3701	7/7	0.95	0.37	-	53,53,53,53	0
93	MG	1	4111	1/1	0.89	0.60	-	41,41,41,41	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	4135	1/1	0.91	0.48	-	47,47,47,47	0
93	MG	5	3989	1/1	0.97	0.14	-	38,38,38,38	0
93	MG	2	2077	1/1	0.91	1.23	-	59,59,59,59	0
93	MG	6	2154	1/1	0.85	0.30	-	94,94,94,94	0
92	OHX	m9	201	7/7	0.96	0.42	-	89,89,89,89	0
93	MG	2	2091	1/1	0.95	0.36	-	77,77,77,77	0
92	OHX	2	1927	7/7	0.98	0.12	-	85,85,85,85	0
92	OHX	5	3470	7/7	0.99	0.12	-	48,48,48,48	0
93	MG	12	301	1/1	0.96	0.62	-	42,42,42,42	0
93	MG	5	3956	1/1	0.90	0.11	-	48,48,48,48	0
92	OHX	1	3618	7/7	0.98	0.31	-	68,68,68,68	0
93	MG	5	4004	1/1	0.95	0.29	-	43,43,43,43	0
93	MG	1	3997	1/1	0.88	0.41	-	40,40,40,40	0
93	MG	2	2136	1/1	0.91	0.17	-	90,90,90,90	0
93	MG	1	3827	1/1	0.83	0.36	-	33,33,33,33	0
93	MG	1	3850	1/1	0.88	0.50	-	39,39,39,39	0
93	MG	1	3956	1/1	0.67	0.29	-	50,50,50,50	0
93	MG	5	4087	1/1	0.97	0.58	-	49,49,49,49	0
93	MG	1	3748	1/1	0.84	0.86	-	49,49,49,49	0
93	MG	5	4068	1/1	0.81	0.25	-	42,42,42,42	0
93	MG	5	3825	1/1	0.89	0.58	-	50,50,50,50	0
93	MG	5	3835	1/1	0.72	0.35	-	40,40,40,40	0
92	OHX	1	3464	7/7	0.99	0.09	-	54,54,54,54	0
93	MG	5	3796	1/1	0.97	0.31	-	37,37,37,37	0
93	MG	1	3751	1/1	0.94	0.44	-	39,39,39,39	0
93	MG	m7	202	1/1	0.89	0.27	-	36,36,36,36	0
92	OHX	2	2045	7/7	0.95	0.45	-	100,100,100,100	0
93	MG	1	3959	1/1	0.90	0.33	-	36,36,36,36	0
93	MG	5	3861	1/1	0.96	0.45	-	30,30,30,30	0
93	MG	1	3788	1/1	0.98	0.41	-	49,49,49,49	0
93	MG	1	4004	1/1	0.96	0.23	-	39,39,39,39	0
93	MG	2	2075	1/1	0.76	0.21	-	96,96,96,96	0
93	MG	N8	205	1/1	0.94	0.24	-	35,35,35,35	0
92	OHX	6	2045	7/7	0.96	0.34	-	94,94,94,94	0
92	OHX	1	3602	7/7	0.94	0.34	-	62,62,62,62	0
93	MG	5	3902	1/1	0.86	0.20	-	49,49,49,49	0
93	MG	6	2103	1/1	0.94	0.59	-	62,62,62,62	0
93	MG	5	3832	1/1	0.98	0.24	-	35,35,35,35	0
92	OHX	5	3539	7/7	0.99	0.23	-	47,47,47,47	0
92	OHX	2	1980	7/7	0.95	0.18	-	140,140,140,140	0
92	OHX	8	206	7/7	0.97	0.18	-	57,57,57,57	0
92	OHX	c8	201	7/7	0.97	0.19	-	96,96,96,96	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	1	3778	1/1	0.87	0.32	-	31,31,31,31	0
93	MG	1	3975	1/1	0.94	0.47	-	35,35,35,35	0
92	OHX	2	1947	7/7	0.93	0.22	-	106,106,106,106	0
93	MG	6	2174	1/1	0.93	0.23	-	60,60,60,60	0
93	MG	1	3733	1/1	0.78	0.86	-	48,48,48,48	0
93	MG	1	3848	1/1	0.45	1.16	-	36,36,36,36	0
92	OHX	6	2004	7/7	0.98	0.21	-	84,84,84,84	0
93	MG	l5	303	1/1	0.82	0.14	-	50,50,50,50	0
93	MG	1	3839	1/1	0.92	0.45	-	46,46,46,46	0
93	MG	5	4061	1/1	0.81	0.63	-	33,33,33,33	0
92	OHX	5	3423	7/7	0.99	0.11	-	51,51,51,51	0
92	OHX	6	1994	7/7	0.97	0.27	-	98,98,98,98	0
92	OHX	5	3683	7/7	0.98	0.27	-	83,83,83,83	0
93	MG	5	4129	1/1	0.88	0.52	-	36,36,36,36	0
93	MG	5	4042	1/1	0.91	0.15	-	54,54,54,54	0
92	OHX	8	207	7/7	0.98	0.29	-	56,56,56,56	0
92	OHX	1	3628	7/7	0.99	0.21	-	62,62,62,62	0
93	MG	5	3799	1/1	0.94	0.18	-	38,38,38,38	0
93	MG	5	4059	1/1	0.94	0.38	-	35,35,35,35	0
92	OHX	1	3504	7/7	0.98	0.14	-	75,75,75,75	0
93	MG	5	4150	1/1	0.66	0.31	-	41,41,41,41	0
92	OHX	5	3435	7/7	0.98	0.08	-	46,46,46,46	0
93	MG	5	3830	1/1	0.88	0.30	-	35,35,35,35	0
92	OHX	5	3727	7/7	0.96	0.42	-	60,60,60,60	0
92	OHX	c3	201	7/7	0.94	0.24	-	89,89,89,89	0
93	MG	5	4073	1/1	0.93	0.28	-	35,35,35,35	0
93	MG	2	2118	1/1	0.69	0.42	-	92,92,92,92	0
93	MG	N8	201	1/1	0.91	0.21	-	31,31,31,31	0
93	MG	1	3994	1/1	0.88	0.47	-	45,45,45,45	0
93	MG	8	229	1/1	0.88	0.23	-	40,40,40,40	0
93	MG	1	4024	1/1	0.90	0.36	-	60,60,60,60	0
93	MG	1	3830	1/1	0.99	0.59	-	38,38,38,38	0
93	MG	1	3999	1/1	0.95	0.51	-	43,43,43,43	0
92	OHX	1	3624	7/7	0.98	0.21	-	81,81,81,81	0
92	OHX	6	2055	7/7	0.92	0.27	-	118,118,118,118	0
93	MG	5	4116	1/1	0.85	0.23	-	44,44,44,44	0
92	OHX	1	3659	7/7	0.97	0.26	-	73,73,73,73	0
92	OHX	1	3491	7/7	0.99	0.17	-	53,53,53,53	0
93	MG	5	3845	1/1	0.89	0.29	-	34,34,34,34	0
93	MG	7	217	1/1	0.96	0.47	-	33,33,33,33	0
93	MG	6	2144	1/1	0.93	0.23	-	94,94,94,94	0
93	MG	1	4006	1/1	0.93	0.41	-	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	1	3736	1/1	0.67	0.46	-	125,125,125,125	0
92	OHX	5	3596	7/7	0.98	0.27	-	48,48,48,48	0
93	MG	5	3805	1/1	0.96	0.31	-	34,34,34,34	0
92	OHX	4	217	7/7	0.97	0.33	-	69,69,69,69	0
93	MG	1	4053	1/1	0.84	0.41	-	59,59,59,59	0
92	OHX	5	3633	7/7	0.96	0.31	-	65,65,65,65	0
93	MG	1	3886	1/1	0.98	0.19	-	53,53,53,53	0
92	OHX	1	3719	7/7	0.95	0.37	-	83,83,83,83	0
93	MG	5	4064	1/1	0.60	0.34	-	59,59,59,59	0
92	OHX	6	2011	7/7	0.98	0.30	-	72,72,72,72	0
93	MG	5	4038	1/1	0.91	0.32	-	41,41,41,41	0
93	MG	5	3779	1/1	0.87	0.29	-	48,48,48,48	0
93	MG	1	3793	1/1	0.92	0.42	-	38,38,38,38	0
92	OHX	5	3568	7/7	0.99	0.23	-	53,53,53,53	0
93	MG	5	3965	1/1	0.96	0.13	-	36,36,36,36	0
92	OHX	5	3592	7/7	0.98	0.23	-	62,62,62,62	0
92	OHX	8	209	7/7	0.96	0.26	-	78,78,78,78	0
93	MG	8	219	1/1	0.86	0.25	-	49,49,49,49	0
93	MG	1	3808	1/1	0.93	0.27	-	48,48,48,48	0
93	MG	5	3952	1/1	0.96	0.41	-	34,34,34,34	0
92	OHX	6	1940	7/7	0.98	0.13	-	59,59,59,59	0
93	MG	1	4043	1/1	0.74	0.46	-	43,43,43,43	0
93	MG	1	4054	1/1	0.62	0.41	-	34,34,34,34	0
93	MG	5	3875	1/1	0.93	0.38	-	51,51,51,51	0
92	OHX	1	3633	7/7	0.99	0.19	-	72,72,72,72	0
93	MG	5	3923	1/1	0.94	0.56	-	31,31,31,31	0
93	MG	5	4089	1/1	0.96	0.12	-	41,41,41,41	0
92	OHX	2	1937	7/7	0.98	0.14	-	84,84,84,84	0
93	MG	5	3935	1/1	0.98	0.59	-	31,31,31,31	0
93	MG	2	2134	1/1	0.92	0.96	-	59,59,59,59	0
93	MG	1	3905	1/1	0.78	0.62	-	38,38,38,38	0
93	MG	4	223	1/1	0.87	0.50	-	49,49,49,49	0
93	MG	1	3906	1/1	0.97	0.35	-	35,35,35,35	0
93	MG	2	2133	1/1	0.87	0.26	-	85,85,85,85	0
93	MG	5	4103	1/1	0.96	0.71	-	60,60,60,60	0
93	MG	5	4143	1/1	0.90	0.64	-	39,39,39,39	0
92	OHX	5	3725	7/7	0.96	0.37	-	55,55,55,55	0
93	MG	1	3759	1/1	0.90	1.04	-	41,41,41,41	0
93	MG	8	225	1/1	0.86	0.36	-	62,62,62,62	0
92	OHX	6	1905	7/7	0.98	0.11	-	73,73,73,73	0
93	MG	2	2100	1/1	0.74	0.29	-	102,102,102,102	0
93	MG	6	2182	1/1	0.59	0.30	-	66,66,66,66	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	3782	1/1	0.91	0.23	-	35,35,35,35	0
93	MG	1	4013	1/1	0.82	0.40	-	50,50,50,50	0
92	OHX	5	3468	7/7	0.99	0.12	-	70,70,70,70	0
93	MG	5	4081	1/1	0.88	0.56	-	43,43,43,43	0
93	MG	1	3749	1/1	0.83	0.38	-	69,69,69,69	0
92	OHX	2	1977	7/7	0.97	0.21	-	99,99,99,99	0
93	MG	1	3968	1/1	0.85	0.54	-	51,51,51,51	0
93	MG	1	4018	1/1	0.86	0.29	-	61,61,61,61	0
93	MG	1	3861	1/1	0.91	0.67	-	44,44,44,44	0
92	OHX	5	3711	7/7	0.96	0.25	-	89,89,89,89	0
92	OHX	5	3653	7/7	0.98	0.28	-	59,59,59,59	0
93	MG	5	4175	1/1	0.72	0.19	-	81,81,81,81	0
93	MG	5	3834	1/1	0.97	0.76	-	41,41,41,41	0
93	MG	5	3976	1/1	0.91	0.36	-	38,38,38,38	0
93	MG	5	4066	1/1	0.97	1.00	-	31,31,31,31	0
93	MG	1	4075	1/1	0.82	0.30	-	54,54,54,54	0
93	MG	1	3955	1/1	0.86	0.22	-	57,57,57,57	0
92	OHX	1	3456	7/7	0.99	0.09	-	50,50,50,50	0
93	MG	5	4000	1/1	0.80	0.31	-	39,39,39,39	0
93	MG	1	3783	1/1	0.61	0.53	-	41,41,41,41	0
93	MG	5	4152	1/1	0.84	0.42	-	34,34,34,34	0
93	MG	5	4050	1/1	0.73	0.38	-	57,57,57,57	0
93	MG	2	2063	1/1	0.93	0.28	-	74,74,74,74	0
93	MG	19	202	1/1	0.81	0.33	-	41,41,41,41	0
92	OHX	6	1963	7/7	0.98	0.14	-	78,78,78,78	0
93	MG	1	3933	1/1	0.81	0.44	-	37,37,37,37	0
93	MG	5	3784	1/1	0.97	0.38	-	42,42,42,42	0
93	MG	5	4085	1/1	0.95	0.53	-	35,35,35,35	0
93	MG	5	4006	1/1	0.86	0.69	-	29,29,29,29	0
93	MG	5	4002	1/1	0.88	0.36	-	40,40,40,40	0
93	MG	5	3973	1/1	0.76	0.22	-	84,84,84,84	0
93	MG	n9	103	1/1	0.95	0.46	-	34,34,34,34	0
93	MG	1	3866	1/1	0.97	0.43	-	31,31,31,31	0
92	OHX	1	3521	7/7	0.98	0.15	-	64,64,64,64	0
93	MG	5	4172	1/1	0.94	0.46	-	47,47,47,47	0
92	OHX	5	3704	7/7	0.95	0.19	-	57,57,57,57	0
93	MG	1	4061	1/1	0.82	0.27	-	37,37,37,37	0
92	OHX	5	3746	7/7	0.99	0.10	-	70,70,70,70	0
93	MG	2	2074	1/1	0.93	0.68	-	80,80,80,80	0
92	OHX	1	3692	7/7	0.98	0.25	-	80,80,80,80	0
92	OHX	5	3425	7/7	0.99	0.09	-	41,41,41,41	0
92	OHX	2	1930	7/7	0.97	0.12	-	95,95,95,95	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	6	2184	1/1	0.98	0.17	-	57,57,57,57	0
92	OHX	1	3509	7/7	0.98	0.10	-	67,67,67,67	0
93	MG	2	2079	1/1	0.98	0.37	-	85,85,85,85	0
93	MG	5	4128	1/1	0.66	0.55	-	57,57,57,57	0
93	MG	5	3926	1/1	0.90	0.54	-	36,36,36,36	0
93	MG	1	3946	1/1	0.99	0.11	-	39,39,39,39	0
93	MG	1	4069	1/1	0.91	0.23	-	43,43,43,43	0
93	MG	1	3838	1/1	0.99	0.56	-	39,39,39,39	0
93	MG	1	3930	1/1	0.94	0.49	-	51,51,51,51	0
93	MG	1	3986	1/1	0.91	0.20	-	42,42,42,42	0
93	MG	5	3817	1/1	0.77	0.29	-	46,46,46,46	0
93	MG	5	3863	1/1	0.96	0.59	-	39,39,39,39	0
93	MG	7	214	1/1	0.95	0.39	-	47,47,47,47	0
93	MG	6	2066	1/1	0.92	0.10	-	89,89,89,89	0
92	OHX	5	3547	7/7	0.98	0.19	-	68,68,68,68	0
93	MG	5	3883	1/1	0.92	0.93	-	35,35,35,35	0
93	MG	1	3943	1/1	0.87	0.26	-	33,33,33,33	0
92	OHX	5	3650	7/7	0.99	0.23	-	71,71,71,71	0
95	PHE	1	3401	11/12	0.92	0.26	-	34,34,44,44	0
93	MG	6	2152	1/1	0.20	1.10	-	62,62,62,62	0
93	MG	1	4081	1/1	0.98	0.47	-	33,33,33,33	0
92	OHX	5	3679	7/7	0.97	0.34	-	55,55,55,55	0
93	MG	5	3873	1/1	0.94	0.22	-	33,33,33,33	0
92	OHX	2	1960	7/7	0.97	0.21	-	100,100,100,100	0
93	MG	5	4083	1/1	0.84	0.36	-	32,32,32,32	0
92	OHX	6	2021	7/7	0.97	0.34	-	84,84,84,84	0
92	OHX	1	3724	7/7	0.97	0.30	-	65,65,65,65	0
92	OHX	C8	201	7/7	0.98	0.11	-	80,80,80,80	0
92	OHX	1	3704	7/7	0.94	0.33	-	82,82,82,82	0
93	MG	2	2083	1/1	0.97	0.62	-	83,83,83,83	0
93	MG	6	2178	1/1	0.63	0.29	-	67,67,67,67	0
92	OHX	1	3559	7/7	0.98	0.12	-	69,69,69,69	0
93	MG	5	3987	1/1	0.73	0.62	-	42,42,42,42	0
92	OHX	5	3655	7/7	0.98	0.39	-	62,62,62,62	0
93	MG	6	2075	1/1	0.96	0.44	-	71,71,71,71	0
93	MG	1	3980	1/1	0.75	0.45	-	48,48,48,48	0
92	OHX	2	1929	7/7	0.98	0.14	-	83,83,83,83	0
93	MG	5	3927	1/1	0.95	0.47	-	38,38,38,38	0
93	MG	4	232	1/1	0.96	0.20	-	44,44,44,44	0
93	MG	1	4021	1/1	0.96	0.29	-	39,39,39,39	0
93	MG	6	2143	1/1	0.85	0.48	-	75,75,75,75	0
93	MG	5	4126	1/1	0.95	0.40	-	40,40,40,40	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	4156	1/1	0.83	0.59	-	52,52,52,52	0
93	MG	6	2176	1/1	0.91	0.36	-	58,58,58,58	0
93	MG	8	230	1/1	0.84	0.45	-	56,56,56,56	0
93	MG	5	4127	1/1	0.88	0.26	-	41,41,41,41	0
93	MG	6	2151	1/1	0.87	0.48	-	64,64,64,64	0
93	MG	5	4029	1/1	0.91	0.18	-	40,40,40,40	0
92	OHX	1	3450	7/7	0.98	0.12	-	56,56,56,56	0
93	MG	1	4051	1/1	0.92	0.96	-	53,53,53,53	0
93	MG	5	4010	1/1	0.88	0.30	-	56,56,56,56	0
92	OHX	2	2044	7/7	0.89	0.44	-	88,88,88,88	0
93	MG	1	3929	1/1	0.95	0.31	-	51,51,51,51	0
93	MG	1	3951	1/1	0.91	0.39	-	44,44,44,44	0
92	OHX	5	3477	7/7	0.97	0.12	-	56,56,56,56	0
92	OHX	5	3513	7/7	0.99	0.12	-	60,60,60,60	0
93	MG	6	2111	1/1	0.60	0.46	-	69,69,69,69	0
92	OHX	6	2043	7/7	0.97	0.40	-	81,81,81,81	0
93	MG	5	3971	1/1	0.62	0.66	-	73,73,73,73	0
92	OHX	6	1936	7/7	0.99	0.11	-	74,74,74,74	0
93	MG	1	4003	1/1	0.95	0.24	-	41,41,41,41	0
92	OHX	1	3722	7/7	0.92	0.45	-	62,62,62,62	0
93	MG	5	3849	1/1	0.94	0.42	-	33,33,33,33	0
93	MG	5	4033	1/1	0.81	0.51	-	54,54,54,54	0
92	OHX	5	3635	7/7	0.98	0.26	-	57,57,57,57	0
93	MG	1	3950	1/1	0.93	0.48	-	36,36,36,36	0
93	MG	5	3857	1/1	0.98	0.51	-	31,31,31,31	0
93	MG	7	219	1/1	0.91	0.35	-	45,45,45,45	0
93	MG	5	3816	1/1	0.94	0.54	-	38,38,38,38	0
93	MG	5	4146	1/1	0.94	0.37	-	32,32,32,32	0
93	MG	6	2076	1/1	0.63	0.32	-	70,70,70,70	0
92	OHX	1	3445	7/7	0.99	0.10	-	66,66,66,66	0
93	MG	1	4119	1/1	0.82	0.25	-	44,44,44,44	0
93	MG	1	3913	1/1	0.79	0.53	-	43,43,43,43	0
93	MG	4	224	1/1	0.88	0.61	-	49,49,49,49	0
93	MG	5	4166	1/1	0.93	0.63	-	37,37,37,37	0
93	MG	1	3757	1/1	0.77	0.43	-	43,43,43,43	0
93	MG	1	3998	1/1	0.90	0.34	-	43,43,43,43	0
92	OHX	5	3649	7/7	0.97	0.30	-	50,50,50,50	0
93	MG	5	4096	1/1	1.00	0.12	-	32,32,32,32	0
93	MG	5	4040	1/1	0.95	0.38	-	37,37,37,37	0
92	OHX	2	1953	7/7	0.98	0.21	-	83,83,83,83	0
92	OHX	1	3700	7/7	0.97	0.41	-	80,80,80,80	0
93	MG	5	3915	1/1	0.93	0.62	-	30,30,30,30	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	1	3962	1/1	0.91	0.41	-	31,31,31,31	0
93	MG	2	2135	1/1	0.88	0.58	-	68,68,68,68	0
93	MG	6	2137	1/1	0.77	0.45	-	85,85,85,85	0
93	MG	5	4015	1/1	0.92	0.40	-	38,38,38,38	0
93	MG	5	4111	1/1	0.96	0.19	-	49,49,49,49	0
92	OHX	6	2017	7/7	0.95	0.32	-	99,99,99,99	0
93	MG	6	2119	1/1	0.96	0.31	-	59,59,59,59	0
92	OHX	2	2041	7/7	0.95	0.35	-	83,83,83,83	0
93	MG	6	2162	1/1	0.93	0.31	-	55,55,55,55	0
93	MG	5	3803	1/1	0.98	0.20	-	32,32,32,32	0
93	MG	1	4083	1/1	0.94	0.47	-	54,54,54,54	0
93	MG	6	2091	1/1	0.65	0.73	-	66,66,66,66	0
93	MG	5	4021	1/1	0.74	0.54	-	50,50,50,50	0
93	MG	6	2065	1/1	0.96	0.32	-	61,61,61,61	0
93	MG	1	3791	1/1	0.95	0.43	-	32,32,32,32	0
92	OHX	6	1937	7/7	0.96	0.15	-	81,81,81,81	0
93	MG	6	2169	1/1	0.69	0.44	-	97,97,97,97	0
93	MG	1	3935	1/1	0.86	0.41	-	37,37,37,37	0
93	MG	5	3940	1/1	0.97	0.70	-	34,34,34,34	0
93	MG	5	4035	1/1	0.81	0.32	-	47,47,47,47	0
93	MG	2	2058	1/1	0.92	0.23	-	81,81,81,81	0
93	MG	6	2078	1/1	0.85	0.23	-	58,58,58,58	0
93	MG	5	3855	1/1	0.89	0.23	-	36,36,36,36	0
93	MG	5	3887	1/1	0.89	0.32	-	34,34,34,34	0
93	MG	5	3831	1/1	0.95	0.25	-	41,41,41,41	0
93	MG	5	4055	1/1	0.94	0.28	-	43,43,43,43	0
92	OHX	1	3593	7/7	0.98	0.17	-	86,86,86,86	0
92	OHX	5	3510	7/7	0.99	0.10	-	90,90,90,90	0
93	MG	6	2087	1/1	0.87	0.29	-	66,66,66,66	0
93	MG	5	3991	1/1	0.91	0.20	-	44,44,44,44	0
92	OHX	4	213	7/7	0.97	0.22	-	72,72,72,72	0
93	MG	3	217	1/1	0.97	0.49	-	39,39,39,39	0
92	OHX	5	3640	7/7	0.99	0.25	-	58,58,58,58	0
93	MG	1	4062	1/1	0.86	0.34	-	32,32,32,32	0
93	MG	1	4001	1/1	0.76	0.39	-	61,61,61,61	0
92	OHX	5	3455	7/7	0.98	0.12	-	58,58,58,58	0
93	MG	1	3991	1/1	0.95	0.31	-	39,39,39,39	0
92	OHX	1	3604	7/7	0.96	0.33	-	62,62,62,62	0
93	MG	5	4003	1/1	0.94	0.27	-	37,37,37,37	0
93	MG	5	4142	1/1	0.67	0.25	-	60,60,60,60	0
93	MG	5	4133	1/1	0.86	0.41	-	35,35,35,35	0
93	MG	5	4125	1/1	0.98	0.21	-	39,39,39,39	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	3823	1/1	0.96	0.47	-	55,55,55,55	0
93	MG	1	3773	1/1	0.95	0.16	-	57,57,57,57	0
92	OHX	1	3454	7/7	0.98	0.11	-	59,59,59,59	0
93	MG	5	3798	1/1	0.85	0.59	-	42,42,42,42	0
93	MG	o3	202	1/1	0.92	0.42	-	44,44,44,44	0
93	MG	5	4118	1/1	0.88	0.56	-	44,44,44,44	0
92	OHX	1	3622	7/7	0.98	0.24	-	79,79,79,79	0
92	OHX	4	219	7/7	0.96	0.30	-	65,65,65,65	0
92	OHX	5	3545	7/7	0.99	0.18	-	66,66,66,66	0
93	MG	5	3980	1/1	0.90	0.28	-	56,56,56,56	0
92	OHX	2	2002	7/7	0.98	0.34	-	86,86,86,86	0
93	MG	5	4067	1/1	0.76	0.60	-	37,37,37,37	0
93	MG	1	3743	1/1	0.88	0.48	-	41,41,41,41	0
93	MG	5	3862	1/1	0.80	0.52	-	32,32,32,32	0
92	OHX	5	3734	7/7	0.98	0.25	-	91,91,91,91	0
93	MG	2	2067	1/1	0.88	0.59	-	78,78,78,78	0
92	OHX	1	3641	7/7	0.98	0.27	-	70,70,70,70	0
93	MG	5	4134	1/1	0.80	0.34	-	50,50,50,50	0
93	MG	6	2161	1/1	0.89	0.38	-	59,59,59,59	0
92	OHX	2	1961	7/7	0.97	0.24	-	103,103,103,103	0
93	MG	5	4161	1/1	0.96	0.20	-	57,57,57,57	0
92	OHX	1	3661	7/7	0.97	0.22	-	77,77,77,77	0
93	MG	2	2056	1/1	0.83	0.31	-	74,74,74,74	0
93	MG	5	3957	1/1	0.90	0.61	-	35,35,35,35	0
93	MG	5	4016	1/1	0.95	0.35	-	42,42,42,42	0
93	MG	5	3810	1/1	0.87	0.34	-	37,37,37,37	0
93	MG	1	3982	1/1	0.88	0.21	-	58,58,58,58	0
93	MG	1	3787	1/1	0.93	0.39	-	33,33,33,33	0
93	MG	5	4057	1/1	0.80	0.21	-	48,48,48,48	0
92	OHX	6	1983	7/7	0.98	0.17	-	89,89,89,89	0
92	OHX	2	1920	7/7	0.99	0.08	-	76,76,76,76	0
93	MG	6	2093	1/1	0.61	0.48	-	90,90,90,90	0
93	MG	5	3760	1/1	0.90	0.20	-	32,32,32,32	0
93	MG	1	4117	1/1	0.97	0.18	-	76,76,76,76	0
92	OHX	1	3651	7/7	0.97	0.19	-	57,57,57,57	0
93	MG	5	3996	1/1	0.95	0.45	-	31,31,31,31	0
93	MG	1	4022	1/1	0.86	0.19	-	83,83,83,83	0
93	MG	3	216	1/1	0.90	0.12	-	59,59,59,59	0
93	MG	6	2127	1/1	0.88	0.25	-	54,54,54,54	0
92	OHX	1	3497	7/7	0.99	0.10	-	53,53,53,53	0
92	OHX	5	3626	7/7	0.96	0.31	-	79,79,79,79	0
93	MG	5	4063	1/1	0.92	0.47	-	39,39,39,39	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	1	4095	1/1	0.95	0.44	-	37,37,37,37	0
92	OHX	1	3634	7/7	0.98	0.24	-	66,66,66,66	0
93	MG	6	2115	1/1	0.84	0.37	-	69,69,69,69	0
93	MG	1	3799	1/1	0.93	0.26	-	34,34,34,34	0
93	MG	1	4065	1/1	0.90	1.04	-	54,54,54,54	0
93	MG	1	3837	1/1	0.94	0.63	-	34,34,34,34	0
93	MG	5	4123	1/1	0.94	0.24	-	33,33,33,33	0
93	MG	6	2062	1/1	0.76	0.73	-	61,61,61,61	0
93	MG	1	3735	1/1	0.96	0.48	-	53,53,53,53	0
93	MG	5	4056	1/1	0.91	0.24	-	36,36,36,36	0
93	MG	1	4120	1/1	0.93	0.31	-	58,58,58,58	0
92	OHX	5	3667	7/7	0.97	0.24	-	51,51,51,51	0
92	OHX	5	3682	7/7	0.95	0.29	-	61,61,61,61	0
93	MG	5	4155	1/1	0.93	0.31	-	40,40,40,40	0
92	OHX	2	1984	7/7	0.98	0.24	-	83,83,83,83	0
93	MG	1	3846	1/1	0.87	0.53	-	38,38,38,38	0
93	MG	1	3797	1/1	0.91	0.32	-	35,35,35,35	0
92	OHX	6	2053	7/7	0.96	0.32	-	87,87,87,87	0
93	MG	2	2088	1/1	0.92	0.39	-	77,77,77,77	0
93	MG	1	3960	1/1	0.94	0.17	-	41,41,41,41	0
93	MG	4	222	1/1	0.88	0.50	-	48,48,48,48	0
93	MG	6	2129	1/1	0.74	0.66	-	61,61,61,61	0
92	OHX	6	2036	7/7	0.95	0.33	-	73,73,73,73	0
93	MG	1	3981	1/1	0.95	1.02	-	63,63,63,63	0
92	OHX	5	3471	7/7	0.98	0.12	-	53,53,53,53	0
93	MG	1	3834	1/1	0.93	0.44	-	39,39,39,39	0
93	MG	o9	101	1/1	0.69	0.51	-	41,41,41,41	0
93	MG	6	2185	1/1	0.94	0.40	-	92,92,92,92	0
93	MG	5	3829	1/1	0.95	0.58	-	31,31,31,31	0
93	MG	1	3885	1/1	0.95	0.55	-	35,35,35,35	0
93	MG	6	2130	1/1	0.73	0.52	-	67,67,67,67	0
93	MG	8	226	1/1	0.93	0.52	-	53,53,53,53	0
93	MG	5	4173	1/1	0.96	0.20	-	42,42,42,42	0
93	MG	1	3965	1/1	0.61	0.62	-	51,51,51,51	0
93	MG	5	3808	1/1	0.66	0.23	-	50,50,50,50	0
93	MG	1	3992	1/1	0.97	0.26	-	45,45,45,45	0
93	MG	6	2120	1/1	0.68	0.54	-	102,102,102,102	0
92	OHX	1	3495	7/7	0.99	0.12	-	67,67,67,67	0
93	MG	5	4091	1/1	0.90	0.22	-	51,51,51,51	0
93	MG	2	2068	1/1	0.83	0.83	-	75,75,75,75	0
92	OHX	1	3609	7/7	0.98	0.26	-	71,71,71,71	0
93	MG	L4	402	1/1	0.94	0.35	-	50,50,50,50	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	1	3613	7/7	0.95	0.28	-	87,87,87,87	0
93	MG	1	3795	1/1	0.92	0.52	-	58,58,58,58	0
93	MG	5	3982	1/1	0.92	0.49	-	43,43,43,43	0
92	OHX	5	3749	7/7	0.96	0.29	-	87,87,87,87	0
93	MG	1	3915	1/1	0.67	0.85	-	50,50,50,50	0
93	MG	5	4001	1/1	0.91	0.29	-	45,45,45,45	0
93	MG	1	3948	1/1	0.92	0.49	-	43,43,43,43	0
93	MG	2	2140	1/1	0.91	0.30	-	83,83,83,83	0
93	MG	5	4162	1/1	0.90	0.35	-	45,45,45,45	0
93	MG	6	2136	1/1	-0.02	0.45	-	75,75,75,75	0
93	MG	5	3904	1/1	0.94	0.69	-	37,37,37,37	0
93	MG	1	3760	1/1	0.86	0.58	-	45,45,45,45	0
92	OHX	1	3505	7/7	0.98	0.14	-	64,64,64,64	0
92	OHX	6	1942	7/7	0.97	0.12	-	73,73,73,73	0
93	MG	1	3947	1/1	0.67	0.57	-	98,98,98,98	0
93	MG	1	3988	1/1	0.85	0.37	-	35,35,35,35	0
93	MG	1	3857	1/1	0.92	0.67	-	36,36,36,36	0
92	OHX	2	1933	7/7	0.98	0.10	-	91,91,91,91	0
93	MG	1	4115	1/1	0.93	0.33	-	34,34,34,34	0
93	MG	5	3966	1/1	0.91	0.26	-	55,55,55,55	0
92	OHX	5	3732	7/7	0.97	0.30	-	65,65,65,65	0
93	MG	1	3772	1/1	0.99	0.23	-	30,30,30,30	0
92	OHX	1	3556	7/7	0.98	0.21	-	81,81,81,81	0
93	MG	1	4008	1/1	0.87	0.15	-	51,51,51,51	0
93	MG	1	3856	1/1	0.94	0.27	-	32,32,32,32	0
92	OHX	5	3625	7/7	0.98	0.29	-	53,53,53,53	0
93	MG	5	3806	1/1	0.95	0.47	-	39,39,39,39	0
93	MG	5	3802	1/1	0.91	0.31	-	48,48,48,48	0
92	OHX	5	3717	7/7	0.96	0.25	-	84,84,84,84	0
93	MG	6	2081	1/1	0.96	0.22	-	70,70,70,70	0
92	OHX	6	2015	7/7	0.96	0.32	-	79,79,79,79	0
93	MG	6	2123	1/1	0.93	0.06	-	93,93,93,93	0
93	MG	1	4114	1/1	0.89	0.35	-	39,39,39,39	0
93	MG	d7	102	1/1	0.52	0.51	-	74,74,74,74	0
93	MG	1	3742	1/1	0.91	0.52	-	35,35,35,35	0
93	MG	5	3972	1/1	0.90	0.39	-	32,32,32,32	0
93	MG	5	4104	1/1	0.79	0.56	-	43,43,43,43	0
92	OHX	7	210	7/7	0.93	0.30	-	91,91,91,91	0
92	OHX	2	2042	7/7	0.94	0.21	-	126,126,126,126	0
93	MG	1	3780	1/1	0.92	0.51	-	37,37,37,37	0
93	MG	5	3761	1/1	0.93	0.21	-	42,42,42,42	0
93	MG	5	3900	1/1	0.82	0.48	-	39,39,39,39	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	5	3726	7/7	0.98	0.29	-	90,90,90,90	0
93	MG	1	3777	1/1	0.82	0.47	-	47,47,47,47	0
93	MG	1	4011	1/1	0.97	0.15	-	47,47,47,47	0
92	OHX	1	3672	7/7	0.97	0.15	-	60,60,60,60	0
92	OHX	C3	201	7/7	0.95	0.20	-	96,96,96,96	0
93	MG	1	3917	1/1	0.91	0.55	-	35,35,35,35	0
92	OHX	6	2050	7/7	0.96	0.41	-	68,68,68,68	0
93	MG	2	2084	1/1	0.76	0.61	-	88,88,88,88	0
93	MG	1	4118	1/1	0.62	0.30	-	43,43,43,43	0
92	OHX	1	3610	7/7	0.98	0.25	-	66,66,66,66	0
93	MG	5	3889	1/1	0.97	0.19	-	36,36,36,36	0
93	MG	1	4042	1/1	0.92	0.51	-	53,53,53,53	0
93	MG	1	4026	1/1	0.88	0.37	-	49,49,49,49	0
93	MG	5	4106	1/1	0.73	0.11	-	93,93,93,93	0
93	MG	5	3772	1/1	0.84	0.30	-	41,41,41,41	0
93	MG	1	3779	1/1	0.88	0.42	-	37,37,37,37	0
93	MG	1	3823	1/1	0.93	0.46	-	44,44,44,44	0
93	MG	5	4097	1/1	0.96	0.78	-	34,34,34,34	0
93	MG	1	3854	1/1	0.94	0.76	-	43,43,43,43	0
93	MG	1	3881	1/1	0.87	0.62	-	41,41,41,41	0
93	MG	5	3905	1/1	0.99	0.39	-	32,32,32,32	0
93	MG	1	3900	1/1	0.77	0.37	-	33,33,33,33	0
93	MG	7	215	1/1	0.92	0.42	-	36,36,36,36	0
93	MG	5	3860	1/1	0.96	0.40	-	39,39,39,39	0
92	OHX	5	3491	7/7	0.97	0.17	-	64,64,64,64	0
93	MG	1	3758	1/1	0.88	0.14	-	42,42,42,42	0
93	MG	7	213	1/1	0.89	0.73	-	33,33,33,33	0
92	OHX	6	2047	7/7	0.94	0.36	-	87,87,87,87	0
93	MG	5	4045	1/1	0.96	0.53	-	41,41,41,41	0
93	MG	5	3822	1/1	0.96	0.28	-	54,54,54,54	0
93	MG	6	2106	1/1	0.79	0.51	-	60,60,60,60	0
93	MG	1	4087	1/1	0.81	0.28	-	41,41,41,41	0
93	MG	6	2098	1/1	0.73	0.85	-	99,99,99,99	0
93	MG	5	3771	1/1	0.93	0.37	-	35,35,35,35	0
93	MG	4	231	1/1	0.84	0.26	-	72,72,72,72	0
93	MG	1	3798	1/1	0.88	0.23	-	51,51,51,51	0
93	MG	5	3794	1/1	0.81	0.50	-	39,39,39,39	0
92	OHX	5	3742	7/7	0.96	0.34	-	56,56,56,56	0
93	MG	1	4017	1/1	0.98	0.36	-	52,52,52,52	0
93	MG	6	2181	1/1	0.92	0.15	-	77,77,77,77	0
93	MG	1	3810	1/1	0.84	0.45	-	49,49,49,49	0
92	OHX	1	3410	7/7	1.00	0.09	-	39,39,39,39	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	2	2009	7/7	0.93	0.21	-	117,117,117,117	0
92	OHX	5	3413	7/7	1.00	0.11	-	33,33,33,33	0
93	MG	4	238	1/1	0.88	0.40	-	42,42,42,42	0
93	MG	5	4017	1/1	0.90	0.70	-	66,66,66,66	0
92	OHX	2	1991	7/7	0.98	0.32	-	96,96,96,96	0
93	MG	5	3948	1/1	0.71	0.34	-	61,61,61,61	0
93	MG	5	3921	1/1	0.91	0.49	-	34,34,34,34	0
92	OHX	5	3666	7/7	0.97	0.25	-	55,55,55,55	0
92	OHX	5	3637	7/7	0.96	0.25	-	63,63,63,63	0
93	MG	5	3992	1/1	0.95	0.14	-	50,50,50,50	0
93	MG	5	3939	1/1	0.89	0.37	-	43,43,43,43	0
92	OHX	6	1916	7/7	0.99	0.07	-	70,70,70,70	0
93	MG	1	3761	1/1	0.94	0.47	-	45,45,45,45	0
92	OHX	5	3581	7/7	0.98	0.36	-	55,55,55,55	0
93	MG	5	4157	1/1	0.72	0.41	-	50,50,50,50	0
92	OHX	1	3717	7/7	0.97	0.32	-	65,65,65,65	0
93	MG	5	3984	1/1	0.83	0.45	-	41,41,41,41	0
92	OHX	6	2005	7/7	0.97	0.20	-	79,79,79,79	0
93	MG	2	2052	1/1	0.91	0.84	-	69,69,69,69	0
93	MG	5	4020	1/1	0.87	0.27	-	38,38,38,38	0
93	MG	1	3762	1/1	0.97	0.46	-	46,46,46,46	0
93	MG	2	2057	1/1	0.86	0.42	-	73,73,73,73	0
93	MG	5	3879	1/1	0.93	0.41	-	37,37,37,37	0
92	OHX	1	3720	7/7	0.96	0.33	-	65,65,65,65	0
93	MG	1	3879	1/1	0.95	0.58	-	33,33,33,33	0
93	MG	5	3777	1/1	0.90	0.28	-	32,32,32,32	0
92	OHX	5	3719	7/7	0.95	0.22	-	102,102,102,102	0
93	MG	6	2142	1/1	0.90	0.78	-	48,48,48,48	0
93	MG	1	4007	1/1	0.83	0.46	-	61,61,61,61	0
92	OHX	2	2016	7/7	0.97	0.26	-	84,84,84,84	0
93	MG	1	3974	1/1	0.95	0.53	-	47,47,47,47	0
93	MG	1	4068	1/1	0.92	0.37	-	39,39,39,39	0
93	MG	5	4077	1/1	0.86	0.37	-	49,49,49,49	0
93	MG	1	4000	1/1	0.80	0.44	-	43,43,43,43	0
92	OHX	2	2017	7/7	0.95	0.27	-	88,88,88,88	0
93	MG	1	4009	1/1	0.84	0.49	-	34,34,34,34	0
93	MG	5	4158	1/1	0.96	0.27	-	72,72,72,72	0
93	MG	1	4023	1/1	0.90	0.25	-	34,34,34,34	0
93	MG	1	4066	1/1	0.97	0.52	-	44,44,44,44	0
93	MG	6	2156	1/1	0.78	0.46	-	68,68,68,68	0
93	MG	1	4059	1/1	0.85	0.32	-	38,38,38,38	0
93	MG	1	4025	1/1	0.75	0.46	-	49,49,49,49	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	1	3880	1/1	0.97	0.34	-	41,41,41,41	0
93	MG	1	4063	1/1	0.75	0.33	-	105,105,105,105	0
93	MG	1	4116	1/1	0.93	0.25	-	63,63,63,63	0
93	MG	1	3769	1/1	0.98	0.76	-	36,36,36,36	0
92	OHX	1	3625	7/7	0.97	0.22	-	69,69,69,69	0
93	MG	1	4079	1/1	0.90	0.38	-	36,36,36,36	0
92	OHX	c5	201	7/7	0.94	0.24	-	99,99,99,99	0
93	MG	1	3884	1/1	0.89	0.73	-	42,42,42,42	0
93	MG	1	3887	1/1	0.93	0.62	-	38,38,38,38	0
92	OHX	1	3681	7/7	0.98	0.27	-	76,76,76,76	0
93	MG	2	2059	1/1	0.39	0.30	-	86,86,86,86	0
93	MG	1	3920	1/1	0.98	0.53	-	36,36,36,36	0
92	OHX	5	3583	7/7	0.98	0.16	-	71,71,71,71	0
93	MG	7	218	1/1	0.95	0.20	-	37,37,37,37	0
93	MG	5	3850	1/1	0.93	0.98	-	41,41,41,41	0
93	MG	1	4125	1/1	0.91	0.91	-	49,49,49,49	0
93	MG	5	3809	1/1	0.55	0.21	-	88,88,88,88	0
92	OHX	1	3682	7/7	0.96	0.24	-	84,84,84,84	0
93	MG	1	3979	1/1	0.90	0.60	-	43,43,43,43	0
93	MG	1	3996	1/1	0.90	0.49	-	47,47,47,47	0
93	MG	5	3839	1/1	0.90	0.47	-	34,34,34,34	0
93	MG	5	3788	1/1	0.93	0.21	-	33,33,33,33	0
92	OHX	6	1948	7/7	0.97	0.23	-	82,82,82,82	0
93	MG	6	2147	1/1	0.60	0.43	-	66,66,66,66	0
93	MG	S4	301	1/1	0.58	0.73	-	83,83,83,83	0
92	OHX	2	2036	7/7	0.96	0.38	-	112,112,112,112	0
92	OHX	5	3594	7/7	0.97	0.30	-	74,74,74,74	0
93	MG	6	2095	1/1	0.94	0.42	-	55,55,55,55	0
93	MG	6	2072	1/1	0.90	0.48	-	59,59,59,59	0
93	MG	6	2160	1/1	0.98	0.51	-	73,73,73,73	0
93	MG	2	2121	1/1	0.88	0.48	-	68,68,68,68	0
93	MG	L3	404	1/1	0.95	0.12	-	41,41,41,41	0
93	MG	5	3896	1/1	0.86	0.74	-	33,33,33,33	0
92	OHX	6	2031	7/7	0.93	0.36	-	106,106,106,106	0
93	MG	1	3942	1/1	0.93	0.46	-	42,42,42,42	0
92	OHX	5	3629	7/7	0.96	0.23	-	90,90,90,90	0
92	OHX	6	2041	7/7	0.98	0.28	-	79,79,79,79	0
93	MG	5	3910	1/1	0.86	0.59	-	44,44,44,44	0
92	OHX	6	1930	7/7	0.99	0.11	-	64,64,64,64	0
93	MG	p	103	1/1	0.93	0.70	-	40,40,40,40	0
93	MG	2	2128	1/1	0.79	0.37	-	89,89,89,89	0
93	MG	2	2114	1/1	0.75	0.70	-	77,77,77,77	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	6	2108	1/1	0.84	0.45	-	63,63,63,63	0
93	MG	5	4052	1/1	0.95	0.89	-	24,24,24,24	0
93	MG	8	222	1/1	0.94	0.34	-	43,43,43,43	0
92	OHX	1	3519	7/7	0.99	0.19	-	46,46,46,46	0
93	MG	1	3842	1/1	0.98	0.36	-	33,33,33,33	0
93	MG	1	4016	1/1	0.92	0.89	-	49,49,49,49	0
93	MG	1	4041	1/1	0.90	0.27	-	49,49,49,49	0
92	OHX	2	2018	7/7	0.97	0.32	-	84,84,84,84	0
93	MG	2	2139	1/1	0.45	0.33	-	93,93,93,93	0
93	MG	2	2055	1/1	0.90	0.75	-	75,75,75,75	0
92	OHX	6	2038	7/7	0.95	0.22	-	105,105,105,105	0
93	MG	m6	202	1/1	0.91	0.70	-	29,29,29,29	0
92	OHX	5	3569	7/7	0.98	0.20	-	62,62,62,62	0
93	MG	1	4040	1/1	0.94	0.20	-	49,49,49,49	0
92	OHX	1	3664	7/7	0.94	0.37	-	73,73,73,73	0
93	MG	5	4090	1/1	0.96	0.20	-	42,42,42,42	0
93	MG	1	3958	1/1	0.92	0.25	-	39,39,39,39	0
92	OHX	2	1996	7/7	0.95	0.22	-	103,103,103,103	0
93	MG	o2	201	1/1	0.74	0.46	-	32,32,32,32	0
92	OHX	2	1968	7/7	0.97	0.32	-	86,86,86,86	0
93	MG	Q2	503	1/1	0.93	0.23	-	48,48,48,48	0
93	MG	5	4062	1/1	0.92	0.19	-	48,48,48,48	0
93	MG	1	3941	1/1	0.87	0.28	-	51,51,51,51	0
92	OHX	6	1974	7/7	0.97	0.24	-	106,106,106,106	0
93	MG	5	3767	1/1	0.95	0.36	-	46,46,46,46	0
93	MG	5	4039	1/1	0.84	0.36	-	39,39,39,39	0
93	MG	2	2054	1/1	0.80	0.39	-	81,81,81,81	0
93	MG	1	3765	1/1	0.58	0.69	-	42,42,42,42	0
93	MG	1	4037	1/1	0.84	0.22	-	56,56,56,56	0
93	MG	1	3888	1/1	0.83	0.41	-	35,35,35,35	0
92	OHX	6	1999	7/7	0.97	0.30	-	75,75,75,75	0
92	OHX	1	3617	7/7	0.97	0.10	-	131,131,131,131	0
93	MG	5	3781	1/1	0.95	0.54	-	33,33,33,33	0
92	OHX	5	3747	7/7	0.95	0.23	-	61,61,61,61	0
93	MG	5	4167	1/1	0.91	0.22	-	33,33,33,33	0
93	MG	7	226	1/1	0.94	0.11	-	46,46,46,46	0
93	MG	5	4139	1/1	0.63	0.31	-	39,39,39,39	0
93	MG	5	3877	1/1	0.97	0.37	-	34,34,34,34	0
92	OHX	1	3639	7/7	0.98	0.27	-	67,67,67,67	0
93	MG	5	3950	1/1	0.51	0.77	-	43,43,43,43	0
93	MG	8	220	1/1	0.88	0.69	-	46,46,46,46	0
93	MG	5	3783	1/1	0.95	0.18	-	37,37,37,37	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
92	OHX	6	1995	7/7	0.98	0.31	-	79,79,79,79	0
93	MG	1	4038	1/1	0.89	0.89	-	46,46,46,46	0
93	MG	5	4028	1/1	0.88	0.31	-	33,33,33,33	0
92	OHX	6	1961	7/7	0.97	0.28	-	75,75,75,75	0
93	MG	5	3958	1/1	0.90	0.39	-	33,33,33,33	0
93	MG	m6	204	1/1	0.97	0.85	-	35,35,35,35	0
93	MG	6	2124	1/1	0.76	0.17	-	89,89,89,89	0
93	MG	6	2073	1/1	0.31	0.46	-	91,91,91,91	0
93	MG	6	2135	1/1	0.94	0.40	-	64,64,64,64	0
93	MG	5	3758	1/1	0.89	0.45	-	42,42,42,42	0
93	MG	7	216	1/1	0.96	0.69	-	34,34,34,34	0
92	OHX	1	3705	7/7	0.97	0.37	-	49,49,49,49	0
93	MG	1	3806	1/1	0.90	0.43	-	52,52,52,52	0
92	OHX	2	1954	7/7	0.97	0.12	-	89,89,89,89	0
93	MG	5	4037	1/1	0.95	0.32	-	40,40,40,40	0
93	MG	6	2096	1/1	0.88	0.60	-	59,59,59,59	0
92	OHX	1	3709	7/7	0.98	0.28	-	60,60,60,60	0
93	MG	5	4176	1/1	0.89	0.50	-	30,30,30,30	0
93	MG	5	3949	1/1	0.88	0.25	-	40,40,40,40	0
93	MG	5	3922	1/1	0.94	0.67	-	44,44,44,44	0
93	MG	1	4103	1/1	0.78	0.41	-	39,39,39,39	0
93	MG	1	3794	1/1	0.81	0.36	-	39,39,39,39	0
93	MG	5	4141	1/1	0.97	0.17	-	43,43,43,43	0
93	MG	5	3970	1/1	0.93	0.26	-	40,40,40,40	0
92	OHX	6	2007	7/7	0.97	0.36	-	82,82,82,82	0
93	MG	1	4047	1/1	0.90	0.58	-	43,43,43,43	0
92	OHX	5	3680	7/7	0.97	0.31	-	67,67,67,67	0
92	OHX	5	3548	7/7	0.97	0.25	-	61,61,61,61	0
92	OHX	8	215	7/7	0.91	0.41	-	55,55,55,55	0
93	MG	2	2119	1/1	0.89	0.12	-	87,87,87,87	0
93	MG	6	2155	1/1	0.85	0.21	-	76,76,76,76	0
93	MG	3	215	1/1	0.88	0.13	-	59,59,59,59	0
93	MG	2	2124	1/1	0.87	0.19	-	87,87,87,87	0
93	MG	8	224	1/1	0.87	0.33	-	53,53,53,53	0
93	MG	5	3864	1/1	0.96	0.44	-	35,35,35,35	0
93	MG	6	2088	1/1	0.85	0.35	-	65,65,65,65	0
92	OHX	5	3686	7/7	0.96	0.29	-	73,73,73,73	0
93	MG	1	4090	1/1	0.97	0.51	-	31,31,31,31	0
92	OHX	5	3613	7/7	0.98	0.25	-	54,54,54,54	0
92	OHX	5	3703	7/7	0.97	0.23	-	52,52,52,52	0
92	OHX	5	3556	7/7	0.98	0.26	-	55,55,55,55	0
92	OHX	5	3559	7/7	0.98	0.24	-	59,59,59,59	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
93	MG	5	4114	1/1	0.82	0.70	-	62,62,62,62	0
92	OHX	4	207	7/7	0.99	0.14	-	55,55,55,55	0
92	OHX	5	3537	7/7	0.97	0.21	-	73,73,73,73	0
93	MG	5	3886	1/1	0.97	0.39	-	39,39,39,39	0
92	OHX	1	3615	7/7	0.97	0.26	-	77,77,77,77	0
92	OHX	1	3592	7/7	0.97	0.24	-	65,65,65,65	0
93	MG	5	4027	1/1	0.94	0.38	-	39,39,39,39	0
93	MG	1	4109	1/1	0.89	0.38	-	44,44,44,44	0
93	MG	5	4019	1/1	0.86	0.21	-	42,42,42,42	0
93	MG	5	4075	1/1	0.94	0.27	-	34,34,34,34	0
92	OHX	3	201	7/7	0.99	0.08	-	60,60,60,60	0
92	OHX	2	1906	7/7	0.97	0.12	-	89,89,89,89	0
92	OHX	6	2034	7/7	0.97	0.26	-	99,99,99,99	0
93	MG	6	2061	1/1	0.93	0.17	-	69,69,69,69	0
93	MG	5	3827	1/1	0.91	0.60	-	35,35,35,35	0
93	MG	5	3978	1/1	0.97	0.66	-	40,40,40,40	0
93	MG	2	2081	1/1	0.87	0.41	-	87,87,87,87	0
92	OHX	1	3477	7/7	0.98	0.15	-	59,59,59,59	0
92	OHX	2	1990	7/7	0.98	0.26	-	99,99,99,99	0
93	MG	5	3792	1/1	0.99	0.39	-	31,31,31,31	0
92	OHX	6	2016	7/7	0.93	0.32	-	95,95,95,95	0
93	MG	1	3985	1/1	0.71	0.83	-	42,42,42,42	0
93	MG	5	4092	1/1	0.97	0.18	-	37,37,37,37	0
93	MG	2	2072	1/1	0.82	0.33	-	83,83,83,83	0
93	MG	5	3988	1/1	0.83	0.39	-	60,60,60,60	0
93	MG	5	4164	1/1	0.90	0.21	-	39,39,39,39	0
93	MG	5	4107	1/1	0.97	0.29	-	34,34,34,34	0
93	MG	1	4105	1/1	0.98	0.43	-	54,54,54,54	0
92	OHX	1	3468	7/7	0.99	0.09	-	54,54,54,54	0
93	MG	7	212	1/1	0.81	0.51	-	46,46,46,46	0
92	OHX	2	1959	7/7	0.95	0.19	-	98,98,98,98	0
93	MG	1	3833	1/1	0.86	0.48	-	39,39,39,39	0
92	OHX	2	2019	7/7	0.97	0.37	-	91,91,91,91	0
92	OHX	5	3571	7/7	0.96	0.26	-	61,61,61,61	0
93	MG	5	3931	1/1	0.94	0.71	-	32,32,32,32	0
93	MG	1	3792	1/1	0.98	0.32	-	35,35,35,35	0

6.5 Other polymers

There are no such residues in this entry.