



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 9, 2014 – 10:21 PM BST

PDB ID : 4U3N
Title : Crystal structure of CCA trinucleotide bound to the yeast 80S ribosome
Authors : Garreau de Loubresse, N.; Prokhorova, I.; Yusupova, G.; Yusupov, M.
Deposited on : 2014-07-22
Resolution : 3.20 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

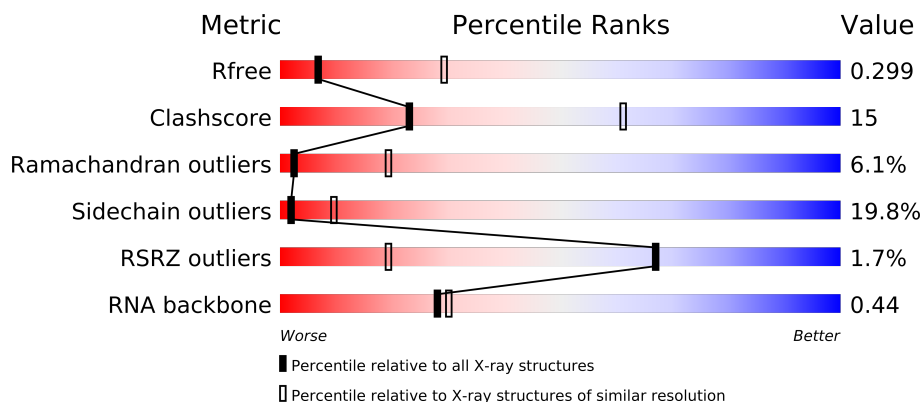
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.16 November 2013
Xtriage (Phenix) : dev-1323
EDS : stable24037
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable24037

1 Overall quality at a glance

The reported resolution of this entry is 3.20 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	66092	1824 (3.30-3.10)
Clashscore	79885	1078 (3.26-3.14)
Ramachandran outliers	78287	1059 (3.26-3.14)
Sidechain outliers	78261	1058 (3.26-3.14)
RSRZ outliers	66119	1825 (3.30-3.10)
RNA backbone	1838	1002 (3.72-2.68)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	2	1800	
1	6	1800	
2	S0	251	
2	s0	251	
3	S1	254	
3	s1	254	
4	S2	253	
4	s2	253	
5	S3	239	
5	s3	239	
6	S4	260	
6	s4	260	

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Mol	Chain	Length	Quality of chain
7	S5	224	
7	s5	224	
8	S6	236	
8	s6	236	
9	S7	189	
9	s7	189	
10	S8	200	
10	s8	200	
11	S9	196	
11	s9	196	
12	C0	105	
13	C1	155	
13	c1	155	
14	C2	142	
14	c2	142	
15	C3	150	
15	c3	150	
16	C4	136	
16	c4	136	
17	C5	141	
17	c5	141	
18	C6	142	
18	c6	142	
19	C7	136	
19	c7	136	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	120	
22	d0	120	
23	D1	87	
23	d1	87	
24	D2	129	
24	d2	129	
25	D3	144	
25	d3	144	
26	D4	134	
26	d4	134	
27	D5	107	
27	d5	107	
28	D6	97	


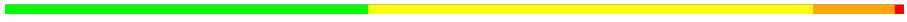




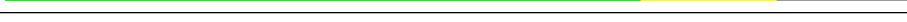

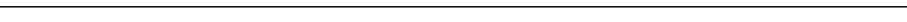
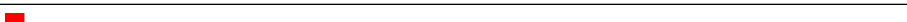




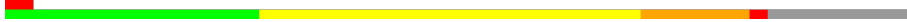

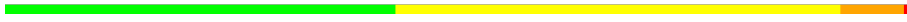



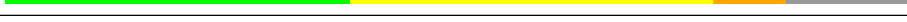

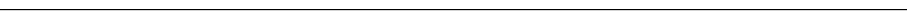

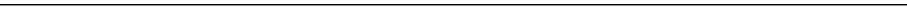
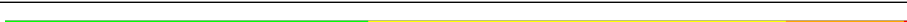



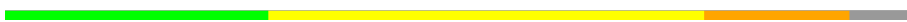

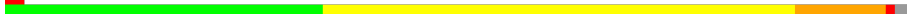

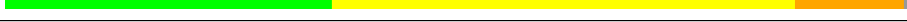


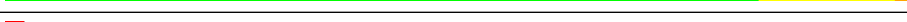

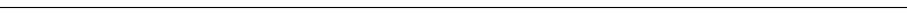



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Mol	Chain	Length	Quality of chain
28	d6	97	
29	D7	81	
29	d7	81	
30	D8	66	
30	d8	66	
31	D9	55	
31	d9	55	
32	E0	60	
33	E1	76	
34	SR	318	
34	sR	318	
35	SM	273	
35	sM	273	
36	1	3396	
36	5	3396	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	253	
39	l2	253	
40	L3	386	
40	l3	386	
41	L4	361	
41	l4	361	
42	L5	296	
42	l5	296	
43	L6	175	
43	l6	175	
44	L7	243	
44	l7	243	
45	L8	255	
45	l8	255	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	173	
48	m1	173	
49	M3	198	
49	m3	198	
50	M4	137	

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Mol	Chain	Length	Quality of chain
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	198	
52	m6	198	
53	M7	183	
53	m7	183	
54	M8	185	
54	m8	185	
55	M9	188	
55	m9	188	
56	N0	172	
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	120	
58	n2	120	
59	N3	136	
59	n3	136	
60	N4	155	
60	n4	155	
61	N5	141	
61	n5	141	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	
65	n9	58	
66	O0	104	
66	o0	104	
67	O1	112	
67	o1	112	
68	O2	129	
68	o2	129	
69	O3	106	
69	o3	106	
70	O4	119	
70	o4	119	
71	O5	119	

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Mol	Chain	Length	Quality of chain
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	
78	q2	105	
79	Q3	91	
79	q3	91	
80	c0	105	
81	e0	62	
82	e1	76	
83	m2	160	
84	p0	311	
85	p1	47	
86	p2	46	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3402	-	X
87	MG	1	3403	-	X
87	MG	1	3404	-	X
87	MG	1	3405	-	X
87	MG	1	3407	-	X
87	MG	1	3409	-	X
87	MG	1	3410	-	X
87	MG	1	3411	-	X
87	MG	1	3412	-	X
87	MG	1	3413	-	X
87	MG	1	3414	-	X
87	MG	1	3415	-	X
87	MG	1	3417	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3418	-	X
87	MG	1	3419	-	X
87	MG	1	3420	-	X
87	MG	1	3422	-	X
87	MG	1	3424	-	X
87	MG	1	3425	-	X
87	MG	1	3428	-	X
87	MG	1	3430	-	X
87	MG	1	3431	-	X
87	MG	1	3432	-	X
87	MG	1	3433	-	X
87	MG	1	3434	-	X
87	MG	1	3437	-	X
87	MG	1	3438	-	X
87	MG	1	3439	-	X
87	MG	1	3440	-	X
87	MG	1	3441	-	X
87	MG	1	3443	-	X
87	MG	1	3445	-	X
87	MG	1	3446	-	X
87	MG	1	3448	-	X
87	MG	1	3449	-	X
87	MG	1	3451	-	X
87	MG	1	3452	-	X
87	MG	1	3454	-	X
87	MG	1	3455	-	X
87	MG	1	3456	-	X
87	MG	1	3457	-	X
87	MG	1	3458	-	X
87	MG	1	3459	-	X
87	MG	1	3460	-	X
87	MG	1	3461	-	X
87	MG	1	3462	-	X
87	MG	1	3463	-	X
87	MG	1	3464	-	X
87	MG	1	3465	-	X
87	MG	1	3466	-	X
87	MG	1	3469	-	X
87	MG	1	3470	-	X
87	MG	1	3471	-	X
87	MG	1	3472	-	X
87	MG	1	3473	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3475	-	X
87	MG	1	3476	-	X
87	MG	1	3477	-	X
87	MG	1	3478	-	X
87	MG	1	3479	-	X
87	MG	1	3480	-	X
87	MG	1	3482	-	X
87	MG	1	3483	-	X
87	MG	1	3487	-	X
87	MG	1	3488	-	X
87	MG	1	3489	-	X
87	MG	1	3493	-	X
87	MG	1	3494	-	X
87	MG	1	3495	-	X
87	MG	1	3498	-	X
87	MG	1	3499	-	X
87	MG	1	3500	-	X
87	MG	1	3501	-	X
87	MG	1	3503	-	X
87	MG	1	3504	-	X
87	MG	1	3505	-	X
87	MG	1	3506	-	X
87	MG	1	3507	-	X
87	MG	1	3508	-	X
87	MG	1	3509	-	X
87	MG	1	3510	-	X
87	MG	1	3511	-	X
87	MG	1	3512	-	X
87	MG	1	3513	-	X
87	MG	1	3514	-	X
87	MG	1	3515	-	X
87	MG	1	3516	-	X
87	MG	1	3517	-	X
87	MG	1	3518	-	X
87	MG	1	3519	-	X
87	MG	1	3520	-	X
87	MG	1	3521	-	X
87	MG	1	3524	-	X
87	MG	1	3526	-	X
87	MG	1	3528	-	X
87	MG	1	3529	-	X
87	MG	1	3530	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3531	-	X
87	MG	1	3532	-	X
87	MG	1	3533	-	X
87	MG	1	3534	-	X
87	MG	1	3535	-	X
87	MG	1	3536	-	X
87	MG	1	3537	-	X
87	MG	1	3538	-	X
87	MG	1	3540	-	X
87	MG	1	3541	-	X
87	MG	1	3542	-	X
87	MG	1	3544	-	X
87	MG	1	3545	-	X
87	MG	1	3546	-	X
87	MG	1	3548	-	X
87	MG	1	3550	-	X
87	MG	1	3551	-	X
87	MG	1	3552	-	X
87	MG	1	3553	-	X
87	MG	1	3554	-	X
87	MG	1	3555	-	X
87	MG	1	3556	-	X
87	MG	1	3557	-	X
87	MG	1	3558	-	X
87	MG	1	3559	-	X
87	MG	1	3561	-	X
87	MG	1	3562	-	X
87	MG	1	3563	-	X
87	MG	1	3564	-	X
87	MG	1	3565	-	X
87	MG	1	3566	-	X
87	MG	1	3568	-	X
87	MG	1	3569	-	X
87	MG	1	3570	-	X
87	MG	1	3571	-	X
87	MG	1	3572	-	X
87	MG	1	3574	-	X
87	MG	1	3575	-	X
87	MG	1	3576	-	X
87	MG	1	3577	-	X
87	MG	1	3578	-	X
87	MG	1	3579	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3581	-	X
87	MG	1	3582	-	X
87	MG	1	3583	-	X
87	MG	1	3586	-	X
87	MG	1	3587	-	X
87	MG	1	3588	-	X
87	MG	1	3589	-	X
87	MG	1	3590	-	X
87	MG	1	3591	-	X
87	MG	1	3592	-	X
87	MG	1	3593	-	X
87	MG	1	3594	-	X
87	MG	1	3595	-	X
87	MG	1	3597	-	X
87	MG	1	3599	-	X
87	MG	1	3600	-	X
87	MG	1	3601	-	X
87	MG	1	3602	-	X
87	MG	1	3603	-	X
87	MG	1	3604	-	X
87	MG	1	3605	-	X
87	MG	1	3606	-	X
87	MG	1	3608	-	X
87	MG	1	3609	-	X
87	MG	1	3611	-	X
87	MG	1	3612	-	X
87	MG	1	3613	-	X
87	MG	1	3615	-	X
87	MG	1	3618	-	X
87	MG	1	3619	-	X
87	MG	1	3620	-	X
87	MG	1	3621	-	X
87	MG	1	3623	-	X
87	MG	1	3624	-	X
87	MG	1	3625	-	X
87	MG	1	3627	-	X
87	MG	1	3628	-	X
87	MG	1	3631	-	X
87	MG	1	3632	-	X
87	MG	1	3634	-	X
87	MG	1	3636	-	X
87	MG	1	3637	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3638	-	X
87	MG	1	3639	-	X
87	MG	1	3641	-	X
87	MG	1	3643	-	X
87	MG	1	3645	-	X
87	MG	1	3646	-	X
87	MG	1	3647	-	X
87	MG	1	3648	-	X
87	MG	1	3649	-	X
87	MG	1	3650	-	X
87	MG	1	3651	-	X
87	MG	1	3652	-	X
87	MG	1	3653	-	X
87	MG	1	3656	-	X
87	MG	1	3657	-	X
87	MG	1	3658	-	X
87	MG	1	3659	-	X
87	MG	1	3660	-	X
87	MG	1	3661	-	X
87	MG	1	3662	-	X
87	MG	1	3663	-	X
87	MG	1	3668	-	X
87	MG	1	3669	-	X
87	MG	1	3670	-	X
87	MG	1	3671	-	X
87	MG	1	3672	-	X
87	MG	1	3673	-	X
87	MG	1	3674	-	X
87	MG	1	3675	-	X
87	MG	1	3676	-	X
87	MG	1	3677	-	X
87	MG	1	3680	-	X
87	MG	1	3681	-	X
87	MG	1	3682	-	X
87	MG	1	3685	-	X
87	MG	1	3686	-	X
87	MG	1	3687	-	X
87	MG	1	3688	-	X
87	MG	1	3689	-	X
87	MG	1	3691	-	X
87	MG	1	3692	-	X
87	MG	1	3693	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3694	-	X
87	MG	1	3695	-	X
87	MG	1	3696	-	X
87	MG	1	3698	-	X
87	MG	1	3699	-	X
87	MG	1	3701	-	X
87	MG	1	3702	-	X
87	MG	1	3704	-	X
87	MG	1	3705	-	X
87	MG	1	3706	-	X
87	MG	1	3707	-	X
87	MG	1	3708	-	X
87	MG	1	3710	-	X
87	MG	1	3711	-	X
87	MG	1	3712	-	X
87	MG	1	3713	-	X
87	MG	1	3714	-	X
87	MG	1	3717	-	X
87	MG	1	3719	-	X
87	MG	1	3722	-	X
87	MG	1	3723	-	X
87	MG	1	3724	-	X
87	MG	1	3725	-	X
87	MG	1	3728	-	X
87	MG	1	3729	-	X
87	MG	1	3730	-	X
87	MG	1	3732	-	X
87	MG	1	3733	-	X
87	MG	1	3734	-	X
87	MG	1	3735	-	X
87	MG	1	3736	-	X
87	MG	1	3737	-	X
87	MG	1	3739	-	X
87	MG	1	3742	-	X
87	MG	1	3743	-	X
87	MG	1	3744	-	X
87	MG	1	3748	-	X
87	MG	1	3749	-	X
87	MG	1	3751	-	X
87	MG	1	3752	-	X
87	MG	1	3753	-	X
87	MG	1	3755	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3756	-	X
87	MG	1	3759	-	X
87	MG	1	3760	-	X
87	MG	1	3761	-	X
87	MG	1	3763	-	X
87	MG	1	3764	-	X
87	MG	1	3765	-	X
87	MG	1	3766	-	X
87	MG	1	3767	-	X
87	MG	1	3771	-	X
87	MG	1	3772	-	X
87	MG	1	3777	-	X
87	MG	1	3778	-	X
87	MG	1	3779	-	X
87	MG	1	3780	-	X
87	MG	1	3781	-	X
87	MG	1	3782	-	X
87	MG	1	3785	-	X
87	MG	1	3786	-	X
87	MG	1	3787	-	X
87	MG	1	3788	-	X
87	MG	1	3790	-	X
87	MG	1	3791	-	X
87	MG	1	3792	-	X
87	MG	1	3793	-	X
87	MG	1	3794	-	X
87	MG	1	3795	-	X
87	MG	1	3797	-	X
87	MG	1	3798	-	X
87	MG	1	3799	-	X
87	MG	1	3801	-	X
87	MG	1	3802	-	X
87	MG	1	3803	-	X
87	MG	1	3804	-	X
87	MG	1	3806	-	X
87	MG	1	3811	-	X
87	MG	1	3812	-	X
87	MG	1	3816	-	X
87	MG	1	3819	-	X
87	MG	1	3820	-	X
87	MG	1	3821	-	X
87	MG	1	3822	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	1	3823	-	X
87	MG	1	3826	-	X
87	MG	1	3827	-	X
87	MG	1	3829	-	X
87	MG	1	3830	-	X
87	MG	1	3831	-	X
87	MG	1	3832	-	X
87	MG	1	3833	-	X
87	MG	1	3836	-	X
87	MG	1	3838	-	X
87	MG	1	3839	-	X
87	MG	1	3840	-	X
87	MG	1	3841	-	X
87	MG	1	3842	-	X
87	MG	1	3843	-	X
87	MG	1	3845	-	X
87	MG	1	3848	-	X
87	MG	1	3849	-	X
87	MG	1	3851	-	X
87	MG	1	3853	-	X
87	MG	1	3854	-	X
87	MG	1	3855	-	X
87	MG	1	3856	-	X
87	MG	1	3858	-	X
87	MG	1	3859	-	X
87	MG	1	3860	-	X
87	MG	1	3862	-	X
87	MG	1	3863	-	X
87	MG	1	3864	-	X
87	MG	1	3865	-	X
87	MG	1	3867	-	X
87	MG	1	3868	-	X
87	MG	1	3870	-	X
87	MG	1	3871	-	X
87	MG	1	3872	-	X
87	MG	1	4229	-	X
87	MG	1	4231	-	X
87	MG	1	4232	-	X
87	MG	2	1901	-	X
87	MG	2	1902	-	X
87	MG	2	1903	-	X
87	MG	2	1905	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	2	1906	-	X
87	MG	2	1907	-	X
87	MG	2	1908	-	X
87	MG	2	1909	-	X
87	MG	2	1910	-	X
87	MG	2	1911	-	X
87	MG	2	1912	-	X
87	MG	2	1913	-	X
87	MG	2	1914	-	X
87	MG	2	1915	-	X
87	MG	2	1916	-	X
87	MG	2	1917	-	X
87	MG	2	1918	-	X
87	MG	2	1919	-	X
87	MG	2	1921	-	X
87	MG	2	1922	-	X
87	MG	2	1923	-	X
87	MG	2	1924	-	X
87	MG	2	1925	-	X
87	MG	2	1926	-	X
87	MG	2	1928	-	X
87	MG	2	1929	-	X
87	MG	2	1930	-	X
87	MG	2	1931	-	X
87	MG	2	1932	-	X
87	MG	2	1933	-	X
87	MG	2	1934	-	X
87	MG	2	1935	-	X
87	MG	2	1936	-	X
87	MG	2	1937	-	X
87	MG	2	1938	-	X
87	MG	2	1939	-	X
87	MG	2	1941	-	X
87	MG	2	1942	-	X
87	MG	2	1945	-	X
87	MG	2	1946	-	X
87	MG	2	1948	-	X
87	MG	2	1949	-	X
87	MG	2	1951	-	X
87	MG	2	1952	-	X
87	MG	2	1955	-	X
87	MG	2	1957	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	2	1958	-	X
87	MG	2	1959	-	X
87	MG	2	1960	-	X
87	MG	2	1962	-	X
87	MG	2	1963	-	X
87	MG	2	1965	-	X
87	MG	2	1966	-	X
87	MG	2	1968	-	X
87	MG	2	1970	-	X
87	MG	2	1972	-	X
87	MG	2	1973	-	X
87	MG	2	1974	-	X
87	MG	2	1975	-	X
87	MG	2	1976	-	X
87	MG	2	1978	-	X
87	MG	2	1980	-	X
87	MG	2	1981	-	X
87	MG	2	1982	-	X
87	MG	2	1983	-	X
87	MG	2	1984	-	X
87	MG	2	1985	-	X
87	MG	2	1986	-	X
87	MG	2	1990	-	X
87	MG	2	1991	-	X
87	MG	2	1993	-	X
87	MG	2	2002	-	X
87	MG	2	2004	-	X
87	MG	2	2005	-	X
87	MG	2	2006	-	X
87	MG	2	2007	-	X
87	MG	2	2008	-	X
87	MG	2	2009	-	X
87	MG	2	2010	-	X
87	MG	2	2011	-	X
87	MG	2	2012	-	X
87	MG	2	2013	-	X
87	MG	2	2015	-	X
87	MG	2	2017	-	X
87	MG	2	2018	-	X
87	MG	2	2019	-	X
87	MG	2	2020	-	X
87	MG	2	2021	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	3	201	-	X
87	MG	3	202	-	X
87	MG	3	204	-	X
87	MG	3	205	-	X
87	MG	3	206	-	X
87	MG	3	208	-	X
87	MG	3	209	-	X
87	MG	3	210	-	X
87	MG	3	212	-	X
87	MG	3	213	-	X
87	MG	3	214	-	X
87	MG	4	201	-	X
87	MG	4	202	-	X
87	MG	4	204	-	X
87	MG	4	205	-	X
87	MG	4	206	-	X
87	MG	4	207	-	X
87	MG	4	209	-	X
87	MG	4	210	-	X
87	MG	4	211	-	X
87	MG	4	213	-	X
87	MG	4	217	-	X
87	MG	4	219	-	X
87	MG	5	3402	-	X
87	MG	5	3403	-	X
87	MG	5	3404	-	X
87	MG	5	3406	-	X
87	MG	5	3407	-	X
87	MG	5	3410	-	X
87	MG	5	3411	-	X
87	MG	5	3412	-	X
87	MG	5	3413	-	X
87	MG	5	3414	-	X
87	MG	5	3415	-	X
87	MG	5	3417	-	X
87	MG	5	3419	-	X
87	MG	5	3422	-	X
87	MG	5	3424	-	X
87	MG	5	3425	-	X
87	MG	5	3427	-	X
87	MG	5	3428	-	X
87	MG	5	3429	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3431	-	X
87	MG	5	3432	-	X
87	MG	5	3434	-	X
87	MG	5	3437	-	X
87	MG	5	3438	-	X
87	MG	5	3439	-	X
87	MG	5	3440	-	X
87	MG	5	3441	-	X
87	MG	5	3442	-	X
87	MG	5	3443	-	X
87	MG	5	3445	-	X
87	MG	5	3446	-	X
87	MG	5	3447	-	X
87	MG	5	3449	-	X
87	MG	5	3451	-	X
87	MG	5	3452	-	X
87	MG	5	3453	-	X
87	MG	5	3454	-	X
87	MG	5	3455	-	X
87	MG	5	3456	-	X
87	MG	5	3458	-	X
87	MG	5	3459	-	X
87	MG	5	3460	-	X
87	MG	5	3461	-	X
87	MG	5	3462	-	X
87	MG	5	3463	-	X
87	MG	5	3464	-	X
87	MG	5	3465	-	X
87	MG	5	3466	-	X
87	MG	5	3467	-	X
87	MG	5	3468	-	X
87	MG	5	3469	-	X
87	MG	5	3470	-	X
87	MG	5	3472	-	X
87	MG	5	3473	-	X
87	MG	5	3474	-	X
87	MG	5	3475	-	X
87	MG	5	3476	-	X
87	MG	5	3477	-	X
87	MG	5	3479	-	X
87	MG	5	3480	-	X
87	MG	5	3481	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3482	-	X
87	MG	5	3483	-	X
87	MG	5	3484	-	X
87	MG	5	3485	-	X
87	MG	5	3486	-	X
87	MG	5	3489	-	X
87	MG	5	3490	-	X
87	MG	5	3491	-	X
87	MG	5	3493	-	X
87	MG	5	3494	-	X
87	MG	5	3495	-	X
87	MG	5	3496	-	X
87	MG	5	3497	-	X
87	MG	5	3498	-	X
87	MG	5	3499	-	X
87	MG	5	3500	-	X
87	MG	5	3501	-	X
87	MG	5	3502	-	X
87	MG	5	3503	-	X
87	MG	5	3504	-	X
87	MG	5	3505	-	X
87	MG	5	3506	-	X
87	MG	5	3507	-	X
87	MG	5	3508	-	X
87	MG	5	3509	-	X
87	MG	5	3510	-	X
87	MG	5	3511	-	X
87	MG	5	3512	-	X
87	MG	5	3513	-	X
87	MG	5	3514	-	X
87	MG	5	3516	-	X
87	MG	5	3517	-	X
87	MG	5	3518	-	X
87	MG	5	3519	-	X
87	MG	5	3520	-	X
87	MG	5	3521	-	X
87	MG	5	3522	-	X
87	MG	5	3523	-	X
87	MG	5	3524	-	X
87	MG	5	3525	-	X
87	MG	5	3526	-	X
87	MG	5	3527	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3528	-	X
87	MG	5	3529	-	X
87	MG	5	3530	-	X
87	MG	5	3532	-	X
87	MG	5	3533	-	X
87	MG	5	3534	-	X
87	MG	5	3535	-	X
87	MG	5	3536	-	X
87	MG	5	3537	-	X
87	MG	5	3538	-	X
87	MG	5	3539	-	X
87	MG	5	3540	-	X
87	MG	5	3541	-	X
87	MG	5	3542	-	X
87	MG	5	3543	-	X
87	MG	5	3544	-	X
87	MG	5	3545	-	X
87	MG	5	3547	-	X
87	MG	5	3548	-	X
87	MG	5	3549	-	X
87	MG	5	3550	-	X
87	MG	5	3551	-	X
87	MG	5	3552	-	X
87	MG	5	3553	-	X
87	MG	5	3554	-	X
87	MG	5	3555	-	X
87	MG	5	3556	-	X
87	MG	5	3557	-	X
87	MG	5	3558	-	X
87	MG	5	3559	-	X
87	MG	5	3560	-	X
87	MG	5	3562	-	X
87	MG	5	3563	-	X
87	MG	5	3564	-	X
87	MG	5	3565	-	X
87	MG	5	3566	-	X
87	MG	5	3567	-	X
87	MG	5	3568	-	X
87	MG	5	3569	-	X
87	MG	5	3570	-	X
87	MG	5	3571	-	X
87	MG	5	3572	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3574	-	X
87	MG	5	3575	-	X
87	MG	5	3576	-	X
87	MG	5	3577	-	X
87	MG	5	3578	-	X
87	MG	5	3579	-	X
87	MG	5	3580	-	X
87	MG	5	3581	-	X
87	MG	5	3582	-	X
87	MG	5	3583	-	X
87	MG	5	3584	-	X
87	MG	5	3585	-	X
87	MG	5	3586	-	X
87	MG	5	3587	-	X
87	MG	5	3588	-	X
87	MG	5	3589	-	X
87	MG	5	3590	-	X
87	MG	5	3591	-	X
87	MG	5	3592	-	X
87	MG	5	3593	-	X
87	MG	5	3594	-	X
87	MG	5	3595	-	X
87	MG	5	3596	-	X
87	MG	5	3597	-	X
87	MG	5	3598	-	X
87	MG	5	3599	-	X
87	MG	5	3600	-	X
87	MG	5	3601	-	X
87	MG	5	3606	-	X
87	MG	5	3607	-	X
87	MG	5	3609	-	X
87	MG	5	3610	-	X
87	MG	5	3611	-	X
87	MG	5	3612	-	X
87	MG	5	3613	-	X
87	MG	5	3614	-	X
87	MG	5	3615	-	X
87	MG	5	3617	-	X
87	MG	5	3619	-	X
87	MG	5	3621	-	X
87	MG	5	3622	-	X
87	MG	5	3624	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3625	-	X
87	MG	5	3626	-	X
87	MG	5	3627	-	X
87	MG	5	3632	-	X
87	MG	5	3633	-	X
87	MG	5	3634	-	X
87	MG	5	3635	-	X
87	MG	5	3636	-	X
87	MG	5	3639	-	X
87	MG	5	3640	-	X
87	MG	5	3641	-	X
87	MG	5	3642	-	X
87	MG	5	3643	-	X
87	MG	5	3644	-	X
87	MG	5	3646	-	X
87	MG	5	3647	-	X
87	MG	5	3649	-	X
87	MG	5	3650	-	X
87	MG	5	3651	-	X
87	MG	5	3654	-	X
87	MG	5	3656	-	X
87	MG	5	3657	-	X
87	MG	5	3658	-	X
87	MG	5	3660	-	X
87	MG	5	3661	-	X
87	MG	5	3662	-	X
87	MG	5	3663	-	X
87	MG	5	3664	-	X
87	MG	5	3665	-	X
87	MG	5	3666	-	X
87	MG	5	3667	-	X
87	MG	5	3668	-	X
87	MG	5	3669	-	X
87	MG	5	3672	-	X
87	MG	5	3674	-	X
87	MG	5	3677	-	X
87	MG	5	3678	-	X
87	MG	5	3682	-	X
87	MG	5	3683	-	X
87	MG	5	3684	-	X
87	MG	5	3685	-	X
87	MG	5	3686	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3688	-	X
87	MG	5	3689	-	X
87	MG	5	3691	-	X
87	MG	5	3692	-	X
87	MG	5	3693	-	X
87	MG	5	3694	-	X
87	MG	5	3695	-	X
87	MG	5	3696	-	X
87	MG	5	3697	-	X
87	MG	5	3698	-	X
87	MG	5	3700	-	X
87	MG	5	3701	-	X
87	MG	5	3707	-	X
87	MG	5	3709	-	X
87	MG	5	3712	-	X
87	MG	5	3713	-	X
87	MG	5	3715	-	X
87	MG	5	3717	-	X
87	MG	5	3718	-	X
87	MG	5	3719	-	X
87	MG	5	3722	-	X
87	MG	5	3723	-	X
87	MG	5	3724	-	X
87	MG	5	3726	-	X
87	MG	5	3728	-	X
87	MG	5	3730	-	X
87	MG	5	3732	-	X
87	MG	5	3733	-	X
87	MG	5	3734	-	X
87	MG	5	3735	-	X
87	MG	5	3736	-	X
87	MG	5	3737	-	X
87	MG	5	3738	-	X
87	MG	5	3739	-	X
87	MG	5	3740	-	X
87	MG	5	3741	-	X
87	MG	5	3742	-	X
87	MG	5	3743	-	X
87	MG	5	3745	-	X
87	MG	5	3748	-	X
87	MG	5	3749	-	X
87	MG	5	3750	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3752	-	X
87	MG	5	3755	-	X
87	MG	5	3756	-	X
87	MG	5	3757	-	X
87	MG	5	3761	-	X
87	MG	5	3762	-	X
87	MG	5	3763	-	X
87	MG	5	3765	-	X
87	MG	5	3767	-	X
87	MG	5	3768	-	X
87	MG	5	3769	-	X
87	MG	5	3771	-	X
87	MG	5	3777	-	X
87	MG	5	3779	-	X
87	MG	5	3780	-	X
87	MG	5	3781	-	X
87	MG	5	3782	-	X
87	MG	5	3783	-	X
87	MG	5	3788	-	X
87	MG	5	3789	-	X
87	MG	5	3794	-	X
87	MG	5	3795	-	X
87	MG	5	3796	-	X
87	MG	5	3798	-	X
87	MG	5	3799	-	X
87	MG	5	3800	-	X
87	MG	5	3801	-	X
87	MG	5	3802	-	X
87	MG	5	3803	-	X
87	MG	5	3806	-	X
87	MG	5	3808	-	X
87	MG	5	3813	-	X
87	MG	5	3816	-	X
87	MG	5	3819	-	X
87	MG	5	3820	-	X
87	MG	5	3821	-	X
87	MG	5	3825	-	X
87	MG	5	3828	-	X
87	MG	5	3830	-	X
87	MG	5	3831	-	X
87	MG	5	3832	-	X
87	MG	5	3836	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3837	-	X
87	MG	5	3838	-	X
87	MG	5	3839	-	X
87	MG	5	3841	-	X
87	MG	5	3843	-	X
87	MG	5	3845	-	X
87	MG	5	3847	-	X
87	MG	5	3848	-	X
87	MG	5	3849	-	X
87	MG	5	3851	-	X
87	MG	5	3853	-	X
87	MG	5	3855	-	X
87	MG	5	3856	-	X
87	MG	5	3857	-	X
87	MG	5	3859	-	X
87	MG	5	3862	-	X
87	MG	5	3865	-	X
87	MG	5	3866	-	X
87	MG	5	3867	-	X
87	MG	5	3868	-	X
87	MG	5	3869	-	X
87	MG	5	3873	-	X
87	MG	5	3874	-	X
87	MG	5	3875	-	X
87	MG	5	3876	-	X
87	MG	5	3877	-	X
87	MG	5	3878	-	X
87	MG	5	3879	-	X
87	MG	5	3881	-	X
87	MG	5	3882	-	X
87	MG	5	3883	-	X
87	MG	5	3884	-	X
87	MG	5	3885	-	X
87	MG	5	3886	-	X
87	MG	5	3889	-	X
87	MG	5	3890	-	X
87	MG	5	3891	-	X
87	MG	5	3892	-	X
87	MG	5	3893	-	X
87	MG	5	3894	-	X
87	MG	5	3895	-	X
87	MG	5	3896	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	5	3897	-	X
87	MG	5	3898	-	X
87	MG	5	3899	-	X
87	MG	5	3900	-	X
87	MG	5	4260	-	X
87	MG	5	4261	-	X
87	MG	6	1901	-	X
87	MG	6	1902	-	X
87	MG	6	1903	-	X
87	MG	6	1904	-	X
87	MG	6	1905	-	X
87	MG	6	1906	-	X
87	MG	6	1907	-	X
87	MG	6	1908	-	X
87	MG	6	1909	-	X
87	MG	6	1910	-	X
87	MG	6	1911	-	X
87	MG	6	1912	-	X
87	MG	6	1913	-	X
87	MG	6	1914	-	X
87	MG	6	1915	-	X
87	MG	6	1916	-	X
87	MG	6	1917	-	X
87	MG	6	1918	-	X
87	MG	6	1919	-	X
87	MG	6	1920	-	X
87	MG	6	1921	-	X
87	MG	6	1922	-	X
87	MG	6	1925	-	X
87	MG	6	1926	-	X
87	MG	6	1927	-	X
87	MG	6	1928	-	X
87	MG	6	1929	-	X
87	MG	6	1930	-	X
87	MG	6	1931	-	X
87	MG	6	1932	-	X
87	MG	6	1933	-	X
87	MG	6	1934	-	X
87	MG	6	1935	-	X
87	MG	6	1936	-	X
87	MG	6	1937	-	X
87	MG	6	1938	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	6	1939	-	X
87	MG	6	1942	-	X
87	MG	6	1943	-	X
87	MG	6	1944	-	X
87	MG	6	1945	-	X
87	MG	6	1946	-	X
87	MG	6	1947	-	X
87	MG	6	1948	-	X
87	MG	6	1949	-	X
87	MG	6	1950	-	X
87	MG	6	1951	-	X
87	MG	6	1952	-	X
87	MG	6	1953	-	X
87	MG	6	1954	-	X
87	MG	6	1955	-	X
87	MG	6	1956	-	X
87	MG	6	1957	-	X
87	MG	6	1958	-	X
87	MG	6	1959	-	X
87	MG	6	1960	-	X
87	MG	6	1961	-	X
87	MG	6	1962	-	X
87	MG	6	1963	-	X
87	MG	6	1964	-	X
87	MG	6	1965	-	X
87	MG	6	1968	-	X
87	MG	6	1970	-	X
87	MG	6	1972	-	X
87	MG	6	1973	-	X
87	MG	6	1974	-	X
87	MG	6	1975	-	X
87	MG	6	1978	-	X
87	MG	6	1980	-	X
87	MG	6	1982	-	X
87	MG	6	1984	-	X
87	MG	6	1985	-	X
87	MG	6	1986	-	X
87	MG	6	1987	-	X
87	MG	6	1989	-	X
87	MG	6	1990	-	X
87	MG	6	1992	-	X
87	MG	6	1993	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	6	1994	-	X
87	MG	6	1999	-	X
87	MG	6	2003	-	X
87	MG	6	2004	-	X
87	MG	6	2006	-	X
87	MG	6	2007	-	X
87	MG	6	2008	-	X
87	MG	6	2009	-	X
87	MG	6	2012	-	X
87	MG	6	2015	-	X
87	MG	6	2016	-	X
87	MG	6	2018	-	X
87	MG	6	2020	-	X
87	MG	6	2025	-	X
87	MG	6	2026	-	X
87	MG	6	2028	-	X
87	MG	6	2029	-	X
87	MG	6	2031	-	X
87	MG	6	2032	-	X
87	MG	6	2033	-	X
87	MG	6	2034	-	X
87	MG	6	2035	-	X
87	MG	6	2037	-	X
87	MG	6	2038	-	X
87	MG	6	2039	-	X
87	MG	6	2040	-	X
87	MG	6	2042	-	X
87	MG	6	2043	-	X
87	MG	6	2203	-	X
87	MG	7	201	-	X
87	MG	7	202	-	X
87	MG	7	203	-	X
87	MG	7	205	-	X
87	MG	7	206	-	X
87	MG	7	208	-	X
87	MG	7	209	-	X
87	MG	7	210	-	X
87	MG	7	214	-	X
87	MG	7	227	-	X
87	MG	8	201	-	X
87	MG	8	202	-	X
87	MG	8	203	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	8	204	-	X
87	MG	8	205	-	X
87	MG	8	208	-	X
87	MG	8	209	-	X
87	MG	8	211	-	X
87	MG	8	213	-	X
87	MG	8	215	-	X
87	MG	L2	301	-	X
87	MG	L3	401	-	X
87	MG	L3	403	-	X
87	MG	L4	401	-	X
87	MG	L7	301	-	X
87	MG	L7	302	-	X
87	MG	L7	303	-	X
87	MG	L7	304	-	X
87	MG	M0	301	-	X
87	MG	M5	301	-	X
87	MG	M5	302	-	X
87	MG	M6	201	-	X
87	MG	M7	202	-	X
87	MG	N0	201	-	X
87	MG	N3	201	-	X
87	MG	N3	202	-	X
87	MG	N8	201	-	X
87	MG	N8	202	-	X
87	MG	N8	203	-	X
87	MG	N8	205	-	X
87	MG	O2	201	-	X
87	MG	O5	201	-	X
87	MG	O7	102	-	X
87	MG	S4	302	-	X
87	MG	S8	301	-	X
87	MG	c1	201	-	X
87	MG	c7	201	-	X
87	MG	c8	201	-	X
87	MG	d3	201	-	X
87	MG	l2	301	-	X
87	MG	l3	401	-	X
87	MG	l3	402	-	X
87	MG	l3	403	-	X
87	MG	l4	401	-	X
87	MG	l4	402	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	MG	l7	301	-	X
87	MG	m1	202	-	X
87	MG	m5	302	-	X
87	MG	m5	303	-	X
87	MG	m5	305	-	X
87	MG	m6	202	-	X
87	MG	m7	201	-	X
87	MG	m7	204	-	X
87	MG	n0	202	-	X
87	MG	n0	203	-	X
87	MG	n3	201	-	X
87	MG	n3	202	-	X
87	MG	n6	202	-	X
87	MG	n8	202	-	X
87	MG	o1	201	-	X
87	MG	o3	201	-	X
87	MG	o4	201	-	X
87	MG	q1	101	-	X
87	MG	q3	502	-	X
87	MG	s6	301	-	X
87	MG	s8	303	-	X
88	OHX	1	3919	-	X
88	OHX	1	3943	-	X
88	OHX	1	3963	-	X
88	OHX	1	3973	-	X
88	OHX	1	3989	-	X
88	OHX	1	3991	-	X
88	OHX	1	4015	-	X
88	OHX	1	4057	-	X
88	OHX	1	4058	-	X
88	OHX	1	4059	-	X
88	OHX	1	4074	-	X
88	OHX	1	4080	-	X
88	OHX	1	4082	-	X
88	OHX	1	4085	-	X
88	OHX	1	4090	-	X
88	OHX	1	4099	-	X
88	OHX	1	4123	-	X
88	OHX	1	4124	-	X
88	OHX	1	4125	-	X
88	OHX	1	4127	-	X
88	OHX	1	4132	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
88	OHX	1	4133	-	X
88	OHX	1	4138	-	X
88	OHX	1	4139	-	X
88	OHX	1	4140	-	X
88	OHX	1	4142	-	X
88	OHX	1	4146	-	X
88	OHX	1	4148	-	X
88	OHX	1	4149	-	X
88	OHX	1	4152	-	X
88	OHX	1	4153	-	X
88	OHX	1	4154	-	X
88	OHX	1	4155	-	X
88	OHX	1	4156	-	X
88	OHX	1	4159	-	X
88	OHX	1	4160	-	X
88	OHX	1	4166	-	X
88	OHX	1	4173	-	X
88	OHX	1	4176	-	X
88	OHX	1	4177	-	X
88	OHX	1	4180	-	X
88	OHX	1	4183	-	X
88	OHX	1	4184	-	X
88	OHX	1	4185	-	X
88	OHX	1	4186	-	X
88	OHX	1	4188	-	X
88	OHX	1	4189	-	X
88	OHX	1	4190	-	X
88	OHX	1	4191	-	X
88	OHX	1	4193	-	X
88	OHX	1	4196	-	X
88	OHX	1	4198	-	X
88	OHX	1	4200	-	X
88	OHX	1	4202	-	X
88	OHX	1	4203	-	X
88	OHX	1	4204	-	X
88	OHX	1	4206	-	X
88	OHX	1	4209	-	X
88	OHX	1	4210	-	X
88	OHX	1	4211	-	X
88	OHX	1	4212	-	X
88	OHX	1	4213	-	X
88	OHX	1	4215	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
88	OHX	1	4216	-	X
88	OHX	1	4217	-	X
88	OHX	1	4218	-	X
88	OHX	1	4219	-	X
88	OHX	1	4220	-	X
88	OHX	1	4221	-	X
88	OHX	1	4223	-	X
88	OHX	1	4225	-	X
88	OHX	2	2119	-	X
88	OHX	2	2120	-	X
88	OHX	2	2127	-	X
88	OHX	2	2128	-	X
88	OHX	2	2131	-	X
88	OHX	2	2136	-	X
88	OHX	2	2143	-	X
88	OHX	2	2146	-	X
88	OHX	2	2153	-	X
88	OHX	2	2157	-	X
88	OHX	2	2159	-	X
88	OHX	2	2160	-	X
88	OHX	2	2162	-	X
88	OHX	2	2163	-	X
88	OHX	2	2164	-	X
88	OHX	2	2169	-	X
88	OHX	2	2171	-	X
88	OHX	2	2172	-	X
88	OHX	2	2173	-	X
88	OHX	2	2176	-	X
88	OHX	2	2179	-	X
88	OHX	3	224	-	X
88	OHX	4	229	-	X
88	OHX	4	230	-	X
88	OHX	4	231	-	X
88	OHX	5	3917	-	X
88	OHX	5	3958	-	X
88	OHX	5	4006	-	X
88	OHX	5	4029	-	X
88	OHX	5	4046	-	X
88	OHX	5	4047	-	X
88	OHX	5	4054	-	X
88	OHX	5	4056	-	X
88	OHX	5	4065	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
88	OHX	5	4074	-	X
88	OHX	5	4075	-	X
88	OHX	5	4076	-	X
88	OHX	5	4079	-	X
88	OHX	5	4085	-	X
88	OHX	5	4086	-	X
88	OHX	5	4094	-	X
88	OHX	5	4096	-	X
88	OHX	5	4104	-	X
88	OHX	5	4130	-	X
88	OHX	5	4132	-	X
88	OHX	5	4141	-	X
88	OHX	5	4142	-	X
88	OHX	5	4143	-	X
88	OHX	5	4145	-	X
88	OHX	5	4146	-	X
88	OHX	5	4150	-	X
88	OHX	5	4152	-	X
88	OHX	5	4155	-	X
88	OHX	5	4157	-	X
88	OHX	5	4158	-	X
88	OHX	5	4160	-	X
88	OHX	5	4162	-	X
88	OHX	5	4163	-	X
88	OHX	5	4164	-	X
88	OHX	5	4165	-	X
88	OHX	5	4166	-	X
88	OHX	5	4169	-	X
88	OHX	5	4170	-	X
88	OHX	5	4174	-	X
88	OHX	5	4177	-	X
88	OHX	5	4180	-	X
88	OHX	5	4183	-	X
88	OHX	5	4184	-	X
88	OHX	5	4186	-	X
88	OHX	5	4188	-	X
88	OHX	5	4189	-	X
88	OHX	5	4190	-	X
88	OHX	5	4191	-	X
88	OHX	5	4192	-	X
88	OHX	5	4197	-	X
88	OHX	5	4200	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
88	OHX	5	4201	-	X
88	OHX	5	4204	-	X
88	OHX	5	4206	-	X
88	OHX	5	4207	-	X
88	OHX	5	4208	-	X
88	OHX	5	4209	-	X
88	OHX	5	4211	-	X
88	OHX	5	4212	-	X
88	OHX	5	4215	-	X
88	OHX	5	4216	-	X
88	OHX	5	4218	-	X
88	OHX	5	4219	-	X
88	OHX	5	4221	-	X
88	OHX	5	4223	-	X
88	OHX	5	4224	-	X
88	OHX	5	4226	-	X
88	OHX	5	4227	-	X
88	OHX	5	4229	-	X
88	OHX	5	4232	-	X
88	OHX	5	4234	-	X
88	OHX	5	4236	-	X
88	OHX	5	4237	-	X
88	OHX	5	4239	-	X
88	OHX	5	4240	-	X
88	OHX	5	4242	-	X
88	OHX	5	4244	-	X
88	OHX	5	4245	-	X
88	OHX	5	4252	-	X
88	OHX	5	4253	-	X
88	OHX	5	4254	-	X
88	OHX	5	4255	-	X
88	OHX	6	2045	-	X
88	OHX	6	2074	-	X
88	OHX	6	2107	-	X
88	OHX	6	2117	-	X
88	OHX	6	2122	-	X
88	OHX	6	2123	-	X
88	OHX	6	2143	-	X
88	OHX	6	2144	-	X
88	OHX	6	2156	-	X
88	OHX	6	2161	-	X
88	OHX	6	2168	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
88	OHX	6	2171	-	X
88	OHX	6	2174	-	X
88	OHX	6	2176	-	X
88	OHX	6	2181	-	X
88	OHX	6	2182	-	X
88	OHX	6	2184	-	X
88	OHX	6	2187	-	X
88	OHX	6	2188	-	X
88	OHX	6	2189	-	X
88	OHX	6	2196	-	X
88	OHX	6	2201	-	X
88	OHX	6	2202	-	X
88	OHX	7	224	-	X
88	OHX	7	225	-	X
88	OHX	7	226	-	X
88	OHX	8	227	-	X
88	OHX	8	229	-	X
88	OHX	M7	205	-	X
88	OHX	M7	206	-	X
88	OHX	14	404	-	X
88	OHX	15	306	-	X

2 Entry composition

There are 91 unique types of molecules in this entry. The entry contains 411288 atoms, of which 0 are hydrogen and 0 are deuterium.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2	1750	Total	C	N	O	P	0	0	0
			37283	16668	6591	12274	1750			
1	6	1795	Total	C	N	O	P	0	0	0
			38238	17095	6758	12590	1795			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			
5	s3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	S8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	s8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

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

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

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

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

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C0	89	ALA	GLY	conflict	UNP Q08745

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

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

There are 2 discrepancies between the modelled and reference sequences:

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	c2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C2	104	ALA	GLY	conflict	UNP P48589
C2	110	ALA	GLY	conflict	UNP P48589
c2	104	ALA	GLY	conflict	UNP P48589
c2	110	ALA	GLY	conflict	UNP P48589

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

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

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

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

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

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

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

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

- Molecule 19 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			
19	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	2			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2441	1544	419	470	8			
34	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 35 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O	0	0	0
			1104	652	221	231			
35	sM	104	Total	C	N	O	0	0	0
			680	403	140	137			

- Molecule 36 is a RNA chain called TPA_inf: *Saccharomyces cerevisiae* S288c chromosome XII, complete sequence.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
36	5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	3149			

- Molecule 37 is a RNA chain called TPA_inf: *Saccharomyces cerevisiae* S288c chromosome XII, complete sequence.

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

- Molecule 38 is a RNA chain called *Saccharomyces cerevisiae* genomic DNA containing ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, strain Kw97.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
39	l2	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	1			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	l9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	M4	136	Total	C	N	O	0	0	0
			1053	675	199	177			
50	m4	137	Total	C	N	O	0	0	0
			1059	678	200	179			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			
60	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	1			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 80 is a protein called 40S ribosomal protein S10-A.

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

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
c0	89	ALA	GLY	conflict	UNP Q08745

- Molecule 81 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	e0	62	Total	C	N	O	S	0	0	0
			491	309	101	80	1			

- Molecule 82 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	e1	76	Total	C	N	O	S	0	0	0
			608	388	117	99	4			

- Molecule 83 is a protein called UNKNOWN PROTEIN m2.

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

- Molecule 84 is a protein called 60S acidic ribosomal protein P0.

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

- Molecule 85 is a protein called UNKNOWN PROTEIN p1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
85	p1	47	Total	C	N	O	0	0	0
			235	141	47	47			

- Molecule 86 is a protein called UNKNOWN PROTEIN p2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
86	p2	46	Total	C	N	O	0	0	0
			230	138	46	46			

- Molecule 87 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	L7	4	Total	Mg	0	0
			4	4		
87	n8	3	Total	Mg	0	0
			3	3		
87	o1	1	Total	Mg	0	0
			1	1		
87	N5	1	Total	Mg	0	0
			1	1		
87	6	144	Total	Mg	0	0
			144	144		
87	sM	1	Total	Mg	0	0
			1	1		
87	O4	1	Total	Mg	0	0
			1	1		
87	m5	5	Total	Mg	0	0
			5	5		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	l3	3	Total 3	Mg 3	0	0
87	M1	1	Total 1	Mg 1	0	0
87	d6	1	Total 1	Mg 1	0	0
87	2	124	Total 124	Mg 124	0	0
87	n0	3	Total 3	Mg 3	0	0
87	L4	1	Total 1	Mg 1	0	0
87	l7	1	Total 1	Mg 1	0	0
87	M5	2	Total 2	Mg 2	0	0
87	c9	1	Total 1	Mg 1	0	0
87	L8	1	Total 1	Mg 1	0	0
87	D3	1	Total 1	Mg 1	0	0
87	o4	1	Total 1	Mg 1	0	0
87	M9	1	Total 1	Mg 1	0	0
87	q0	1	Total 1	Mg 1	0	0
87	SM	1	Total 1	Mg 1	0	0
87	c8	1	Total 1	Mg 1	0	0
87	M0	2	Total 2	Mg 2	0	0
87	c1	1	Total 1	Mg 1	0	0
87	5	502	Total 502	Mg 502	0	0
87	L5	1	Total 1	Mg 1	0	0
87	O7	1	Total 1	Mg 1	0	0

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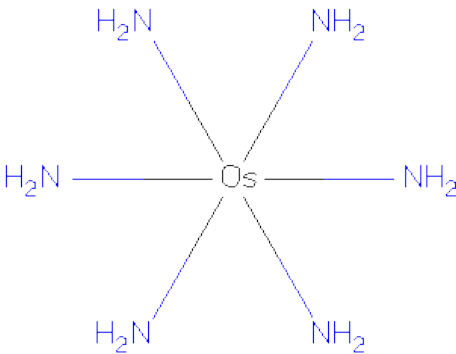
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	s6	1	Total 1	Mg 1	0	0
87	l4	2	Total 2	Mg 2	0	0
87	d4	1	Total 1	Mg 1	0	0
87	1	477	Total 477	Mg 477	0	0
87	d3	1	Total 1	Mg 1	0	0
87	S8	1	Total 1	Mg 1	0	0
87	m1	2	Total 2	Mg 2	0	0
87	O2	1	Total 1	Mg 1	0	0
87	q3	2	Total 2	Mg 2	0	0
87	o3	1	Total 1	Mg 1	0	0
87	M3	2	Total 2	Mg 2	0	0
87	N3	3	Total 3	Mg 3	0	0
87	4	19	Total 19	Mg 19	0	0
87	n6	2	Total 2	Mg 2	0	0
87	S4	2	Total 2	Mg 2	0	0
87	L2	1	Total 1	Mg 1	0	0
87	l5	2	Total 2	Mg 2	0	0
87	m7	5	Total 5	Mg 5	0	0
87	M7	4	Total 4	Mg 4	0	0
87	N8	5	Total 5	Mg 5	0	0
87	s1	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	m6	2	Total 2	Mg 2	0	0
87	s8	3	Total 3	Mg 3	0	0
87	c7	2	Total 2	Mg 2	0	0
87	7	15	Total 15	Mg 15	0	0
87	n3	2	Total 2	Mg 2	0	0
87	q1	1	Total 1	Mg 1	0	0
87	L3	3	Total 3	Mg 3	0	0
87	O5	1	Total 1	Mg 1	0	0
87	l2	1	Total 1	Mg 1	0	0
87	8	16	Total 16	Mg 16	0	0
87	M6	1	Total 1	Mg 1	0	0
87	N0	1	Total 1	Mg 1	0	0
87	3	14	Total 14	Mg 14	0	0

- Molecule 88 is osmium (III) hexammine (three-letter code: OHX) (formula: H₁₂N₆Os).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	2	1	Total	N	Os	0	0
			7	6	1		
88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	2	1	Total	N	Os	0	0
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88	2	1	Total	N	Os	0	0
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88	C3	1	Total	N	Os	0	0
			7	6	1		
88	C5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	C8	1	Total	N	Os	0	0
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88	D3	1	Total	N	Os	0	0
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88	D9	1	Total	N	Os	0	0
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88	1	1	Total	N	Os	0	0
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	4	1	Total	N	Os	0	0
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88	4	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	4	1	Total 7	N 6	Os 1	0	0
88	4	1	Total 7	N 6	Os 1	0	0
88	4	1	Total 7	N 6	Os 1	0	0
88	4	1	Total 7	N 6	Os 1	0	0
88	4	1	Total 7	N 6	Os 1	0	0
88	L3	1	Total 7	N 6	Os 1	0	0
88	L3	1	Total 7	N 6	Os 1	0	0
88	L3	1	Total 7	N 6	Os 1	0	0
88	L4	1	Total 7	N 6	Os 1	0	0
88	M0	1	Total 7	N 6	Os 1	0	0
88	M5	1	Total 7	N 6	Os 1	0	0
88	M7	1	Total 7	N 6	Os 1	0	0
88	M7	1	Total 7	N 6	Os 1	0	0
88	M8	1	Total 7	N 6	Os 1	0	0
88	M9	1	Total 7	N 6	Os 1	0	0
88	N9	1	Total 7	N 6	Os 1	0	0
88	O3	1	Total 7	N 6	Os 1	0	0
88	O7	1	Total 7	N 6	Os 1	0	0
88	O7	1	Total 7	N 6	Os 1	0	0
88	6	1	Total 7	N 6	Os 1	0	0
88	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	6	1	Total	N	Os	0	0
			7	6	1		
88	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	6	1	Total 7	N 6	Os 1	0	0
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88	d9	1	Total 7	N 6	Os 1	0	0
88	sR	1	Total 7	N 6	Os 1	0	0
88	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
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88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
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			7	6	1		
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			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
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88	5	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
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88	5	1	Total	N	Os	0	0
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88	5	1	Total	N	Os	0	0
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			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
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88	5	1	Total	N	Os	0	0
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88	5	1	Total	N	Os	0	0
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88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		
88	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	7	1	Total	N	Os	0	0
			7	6	1		
88	8	1	Total	N	Os	0	0
			7	6	1		
88	8	1	Total	N	Os	0	0
			7	6	1		
88	8	1	Total	N	Os	0	0
			7	6	1		
88	8	1	Total	N	Os	0	0
			7	6	1		
88	8	1	Total	N	Os	0	0
			7	6	1		
88	8	1	Total	N	Os	0	0
			7	6	1		
88	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	8	1	Total 7	N 6	Os 1	0	0
88	8	1	Total 7	N 6	Os 1	0	0
88	8	1	Total 7	N 6	Os 1	0	0
88	8	1	Total 7	N 6	Os 1	0	0
88	8	1	Total 7	N 6	Os 1	0	0
88	l3	1	Total 7	N 6	Os 1	0	0
88	l3	1	Total 7	N 6	Os 1	0	0
88	l3	1	Total 7	N 6	Os 1	0	0
88	l4	1	Total 7	N 6	Os 1	0	0
88	l4	1	Total 7	N 6	Os 1	0	0
88	l5	1	Total 7	N 6	Os 1	0	0
88	l5	1	Total 7	N 6	Os 1	0	0
88	l5	1	Total 7	N 6	Os 1	0	0
88	l5	1	Total 7	N 6	Os 1	0	0
88	l9	1	Total 7	N 6	Os 1	0	0
88	m0	1	Total 7	N 6	Os 1	0	0
88	m0	1	Total 7	N 6	Os 1	0	0
88	m1	1	Total 7	N 6	Os 1	0	0
88	m4	1	Total 7	N 6	Os 1	0	0
88	m5	1	Total 7	N 6	Os 1	0	0
88	m6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
88	n3	1	Total	N	Os	0	0
			7	6	1		
88	n3	1	Total	N	Os	0	0
			7	6	1		
88	n9	1	Total	N	Os	0	0
			7	6	1		
88	o3	1	Total	N	Os	0	0
			7	6	1		
88	o7	1	Total	N	Os	0	0
			7	6	1		
88	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 89 is ZINC ION (three-letter code: ZN) (formula: Zn).

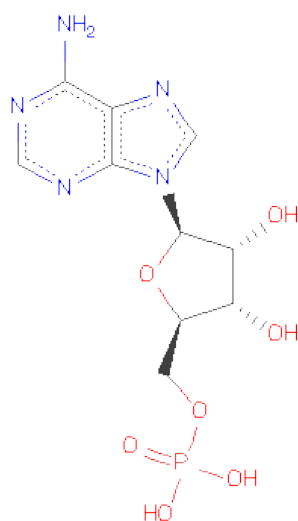
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
89	q0	1	Total	Zn	0	0
			1	1		
89	D6	1	Total	Zn	0	0
			1	1		
89	Q2	1	Total	Zn	0	0
			1	1		
89	e1	1	Total	Zn	0	0
			1	1		
89	Q3	1	Total	Zn	0	0
			1	1		
89	D9	1	Total	Zn	0	0
			1	1		
89	E1	1	Total	Zn	0	0
			1	1		
89	Q0	1	Total	Zn	0	0
			1	1		
89	d7	1	Total	Zn	0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

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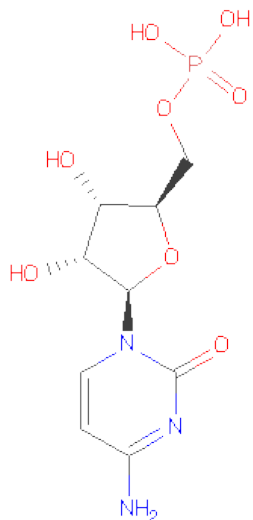
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
89	o7	1	Total	Zn	0	0
			1	1		
89	O7	1	Total	Zn	0	0
			1	1		
89	q2	1	Total	Zn	0	0
			1	1		

- Molecule 90 is ADENOSINE-5'-MONOPHOSPHATE (three-letter code: A) (formula: $C_{10}H_{14}N_5O_7P$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
90	1	1	Total	C	N	O	P	0	0
			22	10	5	6	1		
90	5	1	Total	C	N	O	P	0	0
			22	10	5	6	1		

- Molecule 91 is CYTIDINE-5'-MONOPHOSPHATE (three-letter code: C) (formula: $C_9H_{14}N_3O_8P$).

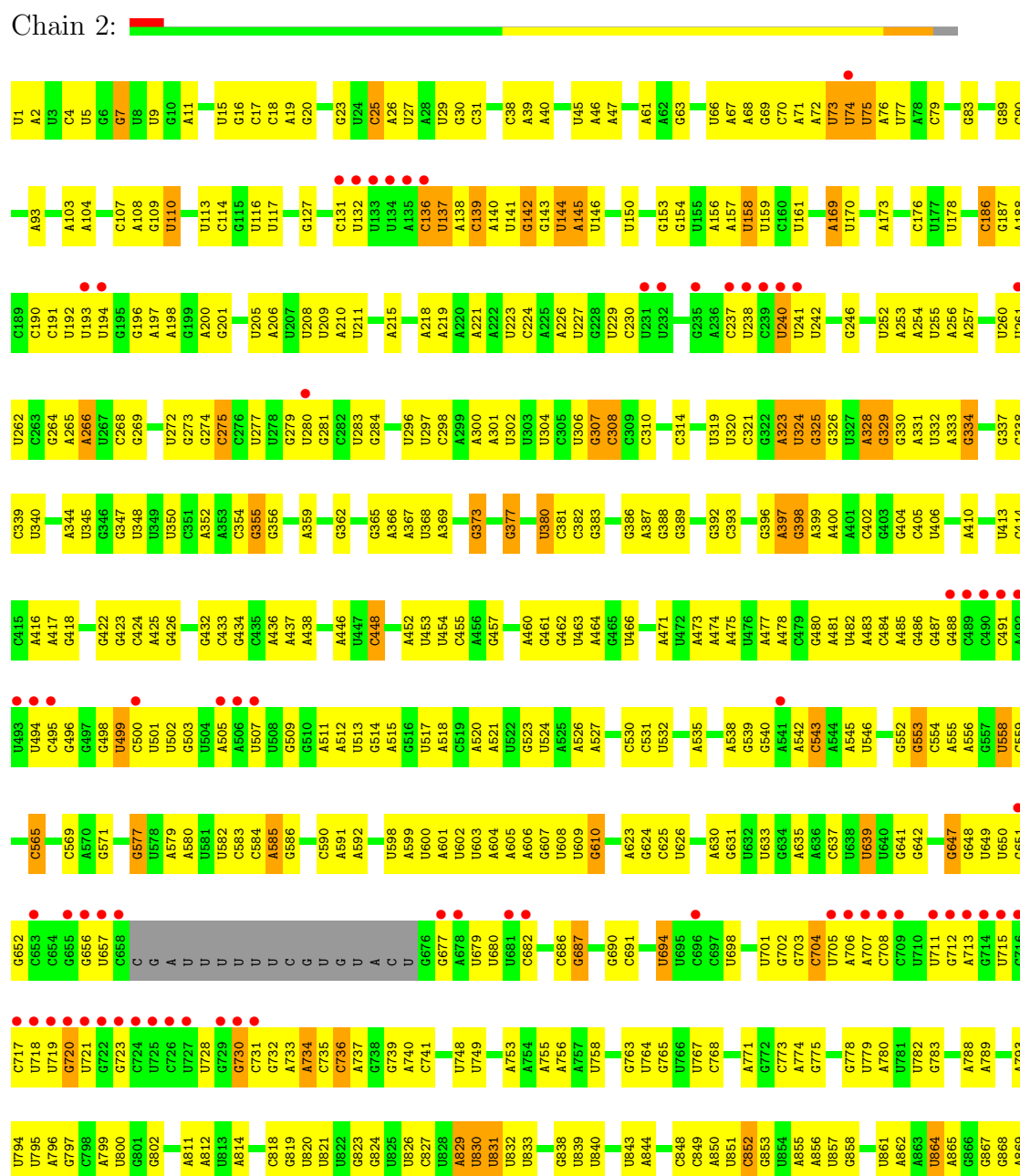


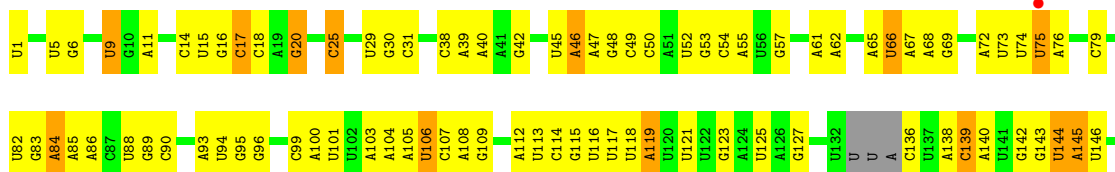
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
91	Q2	1	Total	C	N	O	P	0	0
			20	9	3	7	1		
91	Q2	1	Total	C	N	O	P	0	0
			20	9	3	7	1		
91	q2	1	Total	C	N	O	P	0	0
			20	9	3	7	1		
91	q2	1	Total	C	N	O	P	0	0
			20	9	3	7	1		

3 Residue-property plots

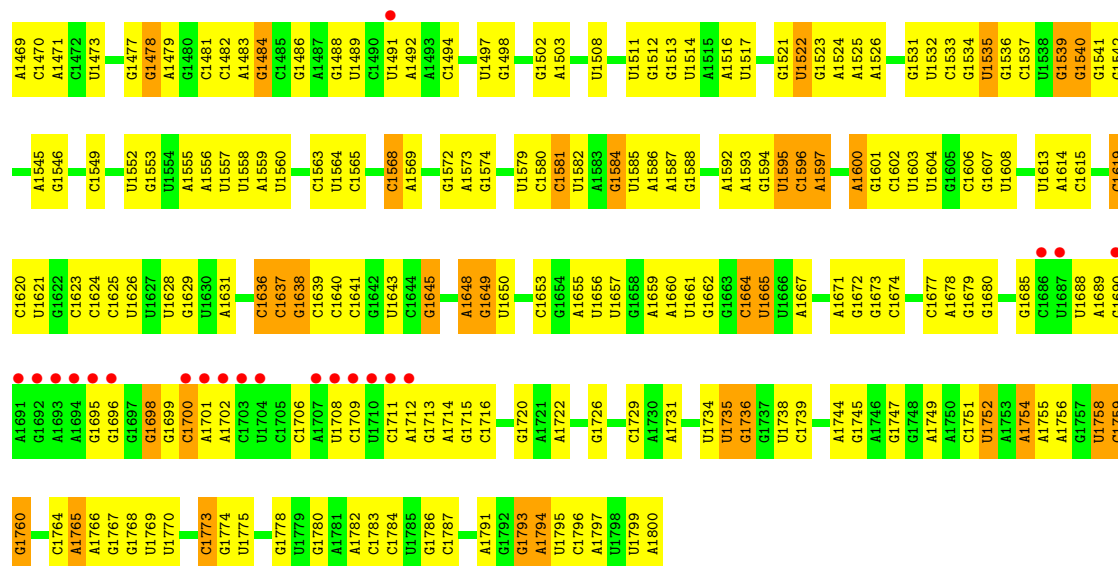
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according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

• Molecule 1: 18S rRNA



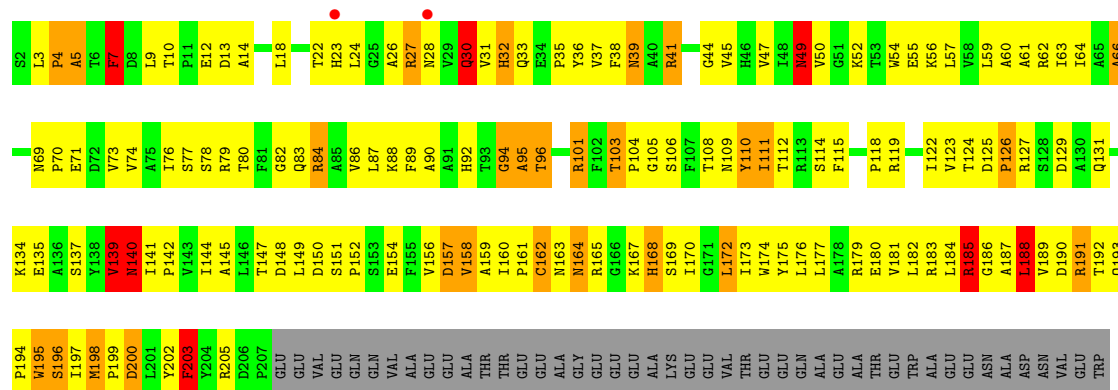


G1385	G1308	A1224	C1121	A1036	C956	G875	U805	G712	C637	A550	A483	U395	U320	C224	U150
U1390	C1309	U1225	G1126	C1037	G957	G876	A806	A713	G647	G557	C484	G396	C321	A225	G151
A1391	U1328	A1226	G1127	U1038	U958	U908	A807	G714	U648	U558	G485	A397	G325	A226	U152
U1392	A1312	G1229	G1130	G1041	U961	C962	U813	C716	U649	U563	G486	A400	G329	U227	G155
C1393	U1314	A1230	G1131	G1042	C963	A963	A814	C717	U650	G564	G487	G403	G330	G228	A156
G1394	U1315	C1045	G885	G1045	A967	U967	G815	C718	G651	C565	G488	G404	A331	C230	U157
U1396	U1316	G1050	U886	U887	A970	A971	G819	C719	G652	C566	C489	C405	U332	U231	U158
U1397	A1137	G1053	U888	G721	A971	A972	U820	G722	C654	C567	C490	U406	A333	U232	C160
U1398	U1145	U1054	A891	U727	A974	A975	U821	U727	G655	C568	C407	U493	G336	G235	U161
A1400	U1146	U1055	A892	U728	A976	A977	U822	U728	G656	C569	C408	U494	G337	C237	A162
G1401	G1147	U1056	A893	U729	C975	C976	G823	U729	U657	C570	A416	G496	C338	U238	G163
C1403	A1147	U1057	U894	G730	G976	G977	G824	G730	C658	G571	G497	C239	C339	C239	A164
U1412	G1149	U1058	U895	A737	U882	U883	U825	A755	G660	G574	G498	U240	U340	U241	G165
U1413	G1150	U1059	G901	A760	U833	U836	U826	A760	U661	G577	C500	A421	C342	U241	A168
U1414	C1159	C1066	G902	A763	U837	U838	U828	A763	U662	U578	C501	A425	C343	G246	A169
A1417	A1160	C1067	U830	A754	G837	U838	U829	U502	U663	U579	U502	A426	G346	A247	U170
G1418	C1161	C1068	U831	A755	U838	U839	U830	U503	U664	U588	U503	G433	U350	U248	C176
G1419	C1162	U1071	U832	A760	U839	U840	U833	A760	U665	C584	U506	C430	C351	C250	U177
A1424	G1163	C1072	U833	U764	U836	U837	U834	U764	U666	C588	U507	C431	C352	A251	U178
A1425	G1164	G1073	U837	G765	U837	U838	U835	G765	U667	U588	U508	C432	C353	C258	A180
C1426	G1165	U1074	G837	U766	U838	U839	U836	U766	U668	U588	U509	C433	C354	U262	A181
A1427	G1166	C1075	G838	U767	U839	U840	U837	U767	U669	A591	U510	C434	G355	U263	C184
G1428	G1167	A1076	U839	U768	U840	U841	U838	U768	U670	A592	U511	A437	G356	C263	U185
A1345	A1171	C1077	U841	U769	U841	U842	U840	U769	U671	C596	U512	C444	U358	G264	U186
U1258	C1172	C1078	U842	U770	U842	U843	U841	U770	U672	U600	U513	U447	U359	A285	G187
U1259	C1173	U1079	U843	U771	U843	U844	U842	U771	U673	U600	U514	U448	C361	A286	C188
U1263	C1174	U1080	U844	U772	U844	U845	U843	U772	U674	U600	U515	C449	C362	C276	C190
G1264	C1175	C1081	U845	U773	U845	U846	U844	U773	U675	U600	U516	U450	C363	U277	C191
G1267	C1176	C1082	U846	A774	U846	U847	U846	A774	U676	A604	U521	U451	A366	U280	U192
G1268	G1177	A1087	U847	G775	U847	U848	U847	G775	U677	U609	U522	A452	A367	G281	U193
U1269	C1178	A1088	U848	G776	U848	U849	U848	G776	U678	G610	U523	A453	C371	C282	U194
G1270	C1180	A1091	C949	C777	U849	C949	C949	C777	U679	U611	U524	U454	G372	U283	G195
U1095	U1185	A1092	G853	U778	U853	U854	U853	U778	U680	U612	U525	C455	G373	G291	A197
U1096	C1096	U1017	U854	U779	U854	U855	U854	U779	U681	U613	U526	U456	C376	U292	A198
U1097	C1097	U1018	U855	U780	U855	U856	U855	U780	U682	U614	U527	U457	C377	U293	G199
U1098	C1098	U1019	U856	U781	U856	U857	U856	U781	U683	U615	U528	U458	U380	C294	A206
U1099	C1099	U1020	U857	U782	U857	U858	U857	U782	U684	U616	U529	U459	C378	A295	U209
U1100	C1100	U1021	U858	U783	U858	U859	U858	U783	U685	U617	U530	U460	C379	A300	A210
G1107	G1107	A1025	U859	U784	U859	U860	U859	U784	U686	U618	U531	U461	U381	A301	A211
G1108	C1108	U1026	U860	U785	U860	U861	U860	U785	U687	U619	U532	U462	C382	C308	A212
G1109	C1109	U1027	U861	U786	U861	U862	U861	U786	U688	U620	U533	U463	C383	C309	G214
G1110	C1110	U1028	U862	U787	U862	U863	U862	U787	U689	U621	U534	U464	C384	C310	A215
G1111	C1111	U1029	U863	U788	U863	U864	U863	U788	U690	U622	U535	U465	C385	G386	U216
U1117	C1112	U1030	U864	U789	U864	U865	U864	U789	U691	U623	U536	U466	C386	U311	G217
G1118	C1113	U1031	U865	U790	U865	U866	U865	U790	U692	U624	U537	U467	C387	A312	A218
G1119	C1114	U1032	U866	U791	U866	U867	U866	U791	U693	U625	U538	U468	U388	U313	A219
G1120	C1115	U1033	U867	U792	U867	U868	U867	U792	U694	U626	U539	U469	C389	C314	A220
U1120	C1116	U1034	U868	U793	U868	U869	U868	U793	U695	U627	U540	U470	C390	C315	A221
U1121	C1117	U1035	U869	U794	U869	U870	U869	U794	U696	U628	U541	U471	C391	C316	A222
U1122	C1118	U1036	U870	U795	U870	U871	U870	U795	U697	U629	U542	U472	C392	C317	A223
U1123	C1119	U1037	U871	U796	U871	U872	U871	U796	U698	U630	U543	U473	C393	C318	A224
U1124	C1120	U1038	U872	U797	U872	U873	U872	U797	U699	U631	U544	U474	C394	C319	A225
U1125	C1121	U1039	U873	U798	U873	U874	U873	U798	U700	U632	U545	U475	C395	C320	A226
U1126	C1122	U1040	U874	U799	U874	U875	U874	U799	U701	U633	U546	U476	C396	C321	A227
U1127	C1123	U1041	U875	U800	U875	U876	U875	U800	U702	U634	U547	U477	C397	C322	A228
U1128	C1124	U1042	U876	U801	U876	U877	U876	U801	U703	U635	U548	U478	C398	C323	A229
U1129	C1125	U1043	U877	U802	U877	U878	U877	U802	U704	U636	U549	U479	C399	C324	A230
U1130	C1126	U1044	U878	U803	U878	U879	U878	U803	U705	U637	U550	U480	C400	C325	A231
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U1136	C1132	U1050	U884	U809	U884	U885	U884	U809	U711	U643	U556	U486	C406	C331	A237
U1137	C1133	U1051	U885	U810	U885	U886	U885	U810	U712	U644	U557	U487	C407	C332	A238
U1138	C1134	U1052	U886	U811	U886	U887	U886	U811	U713	U645	U558	U488	C408	C333	A239
U1139	C1135	U1053	U887	U812	U887	U888	U887	U812	U714	U646	U559	U489	C409	C334	A240
U1140	C1136	U1054	U888	U813	U888	U889	U888	U813	U715	U647	U560	U490	C410	C335	A241
U1141	C1137	U1055	U889	U814	U889	U890	U889	U814	U716	U648	U561	U491	C411	C336	A242
U1142	C1138	U1056	U890	U815	U890	U891	U890	U815	U717	U649	U562	U492	C412	C337	A243
U1143	C1139	U1057	U891	U816	U891	U892	U891	U816	U718	U650	U563	U493	C413	C338	A244
U1144	C1140	U1058	U892	U817	U892	U893	U892	U817	U719	U651	U564	U494	C414	C339	A245
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U1146	C1142	U1060	U894	U819	U894	U895	U894	U819	U721	U653	U566	U496	C416	C341	A247
U1147	C1143	U1061	U895	U820	U895	U896	U895	U820	U722	U654	U567	U497	C417	C342	A248
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U1149	C1145	U1063	U897	U822	U897	U898	U897	U822	U724	U656	U569	U499	C419	C344	A250
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U1152	C1148	U1066	U900	U825	U900	U901	U900	U825	U727	U659	U572	U502	C422	C347	A253
U1153	C1149	U1067	U901	U826	U901	U902	U901	U826	U728	U660	U573	U503	C423	C348	A254
U1154	C1150	U1068	U902	U827	U902	U903	U902	U827	U729	U661	U574	U504	C424	C349	A255
U1155	C1151	U1069	U903	U828	U903	U904	U903	U828	U730	U662	U575	U505	C425	C350	A256
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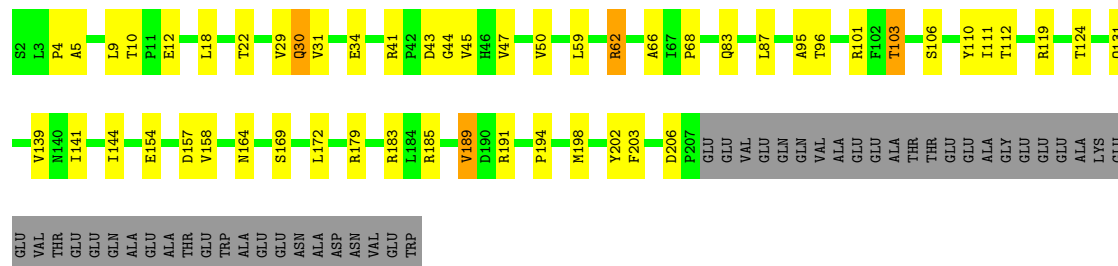
• Molecule 2: 40S ribosomal protein S0-A

Chain S0:



• Molecule 2: 40S ribosomal protein S0-A

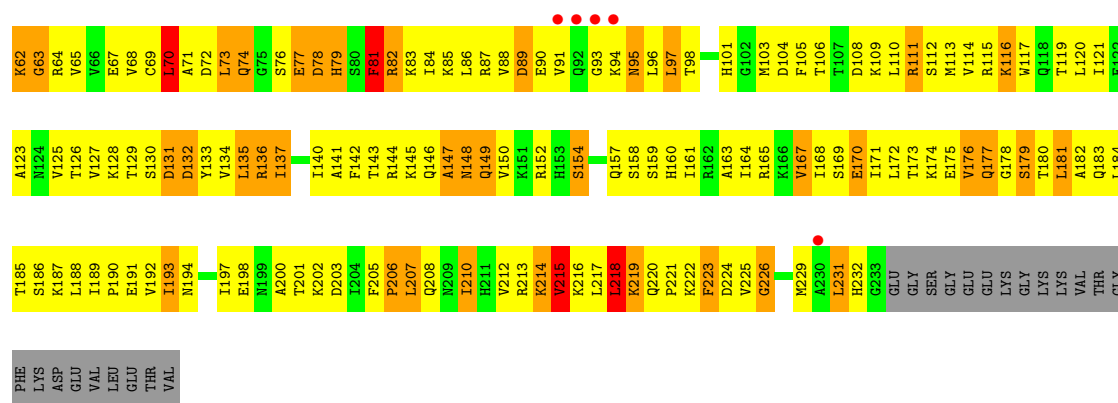
Chain s0:



• Molecule 3: 40S ribosomal protein S1-A

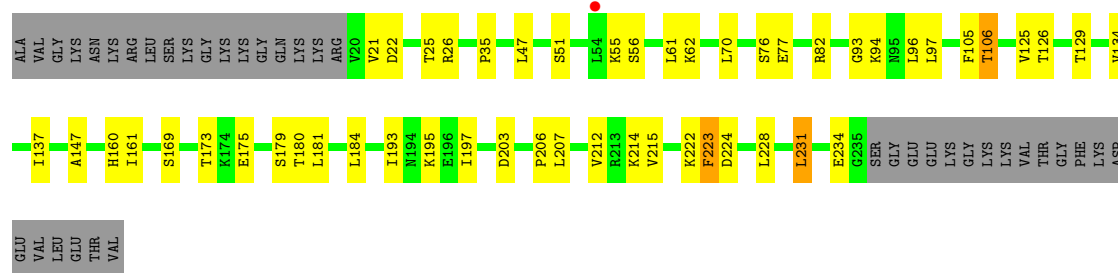
Chain S1:





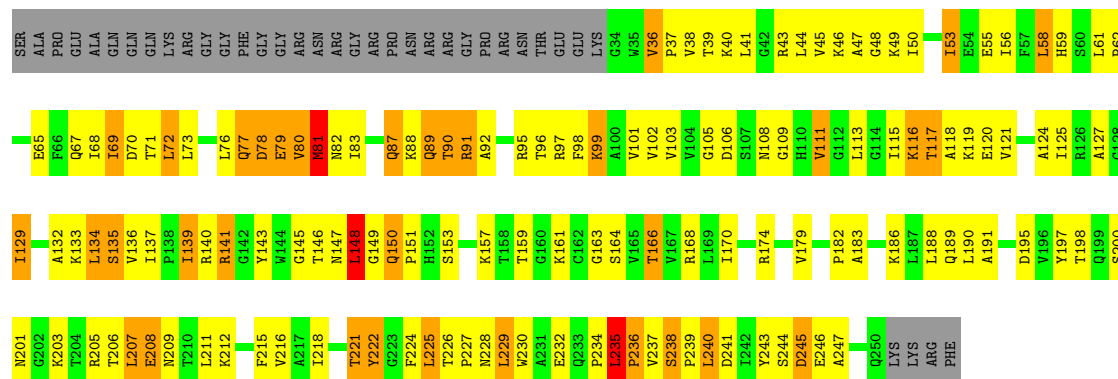
• Molecule 3: 40S ribosomal protein S1-A

Chain s1:



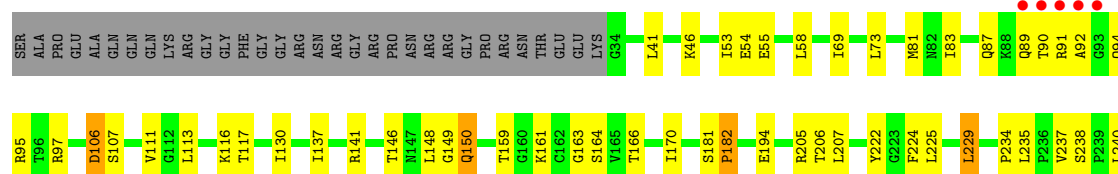
• Molecule 4: 40S ribosomal protein S2

Chain S2:



• Molecule 4: 40S ribosomal protein S2

Chain s2:

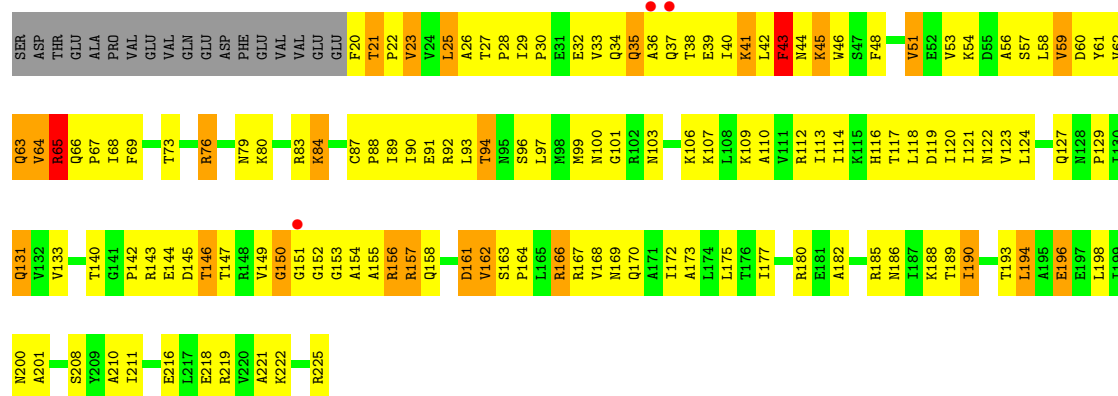






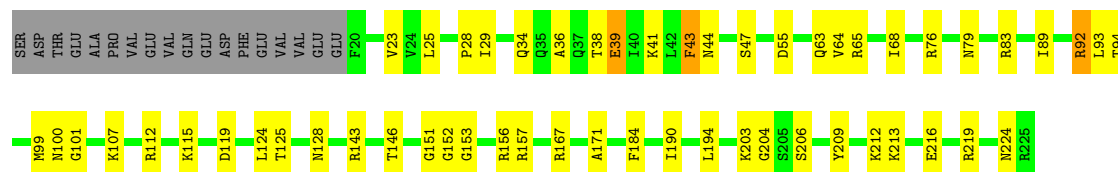
- Molecule 7: 40S ribosomal protein S5

Chain S5:



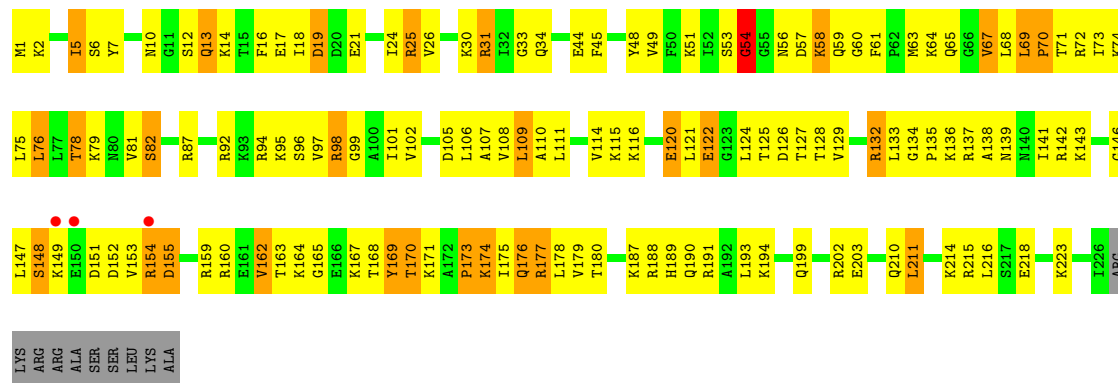
- Molecule 7: 40S ribosomal protein S5

Chain s5:



- Molecule 8: 40S ribosomal protein S6-A

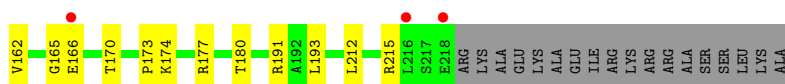
Chain S6:



- Molecule 8: 40S ribosomal protein S6-A

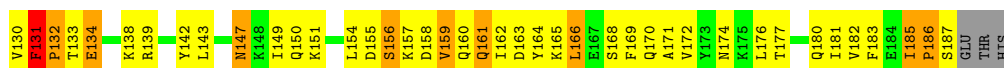
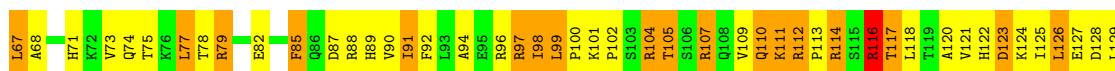
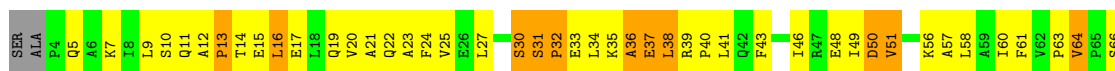
Chain s6:





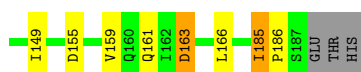
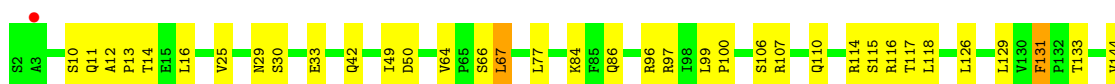
- Molecule 9: 40S ribosomal protein S7-A

Chain S7:



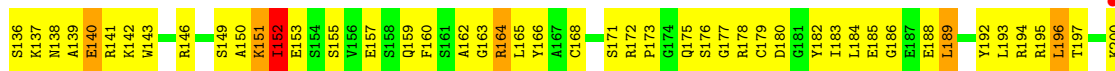
- Molecule 9: 40S ribosomal protein S7-A

Chain s7:



- Molecule 10: 40S ribosomal protein S8-A

Chain S8:



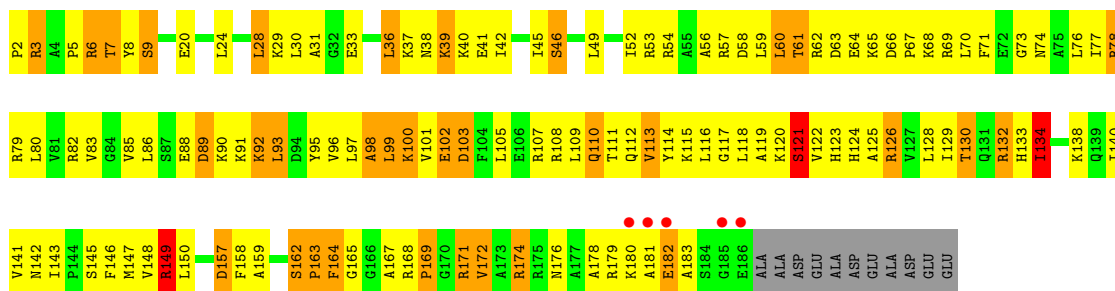
- Molecule 10: 40S ribosomal protein S8-A

Chain s8:



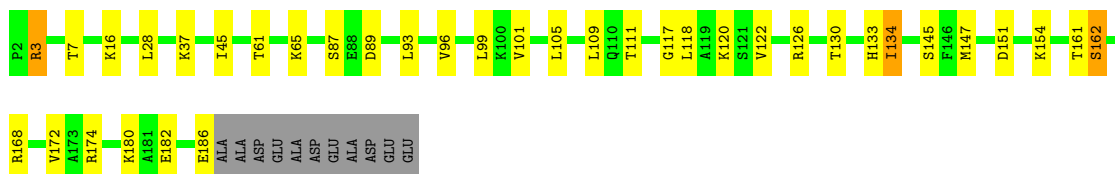
- Molecule 11: 40S ribosomal protein S9-A

Chain S9:



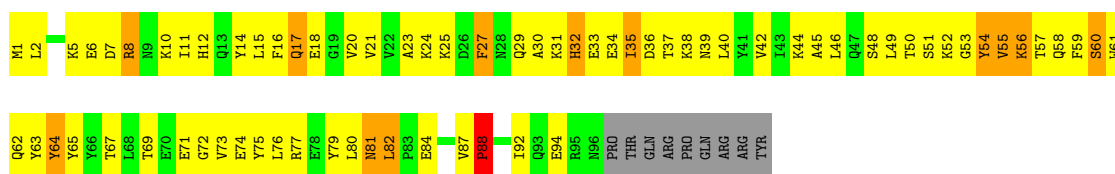
• Molecule 11: 40S ribosomal protein S9-A

Chain s9:



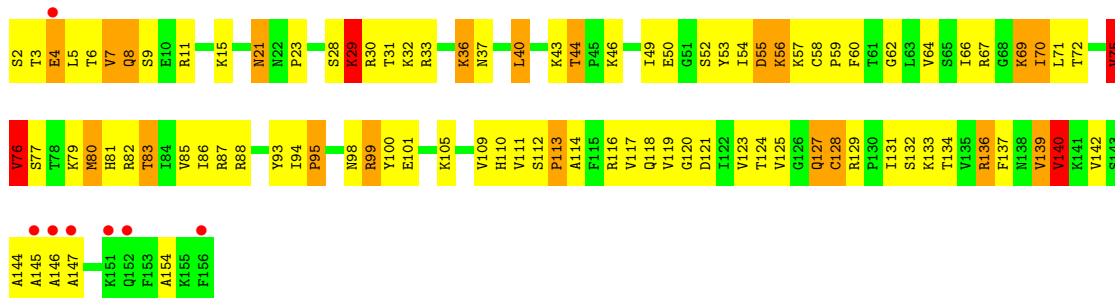
• Molecule 12: 40S ribosomal protein S10-A

Chain C0:



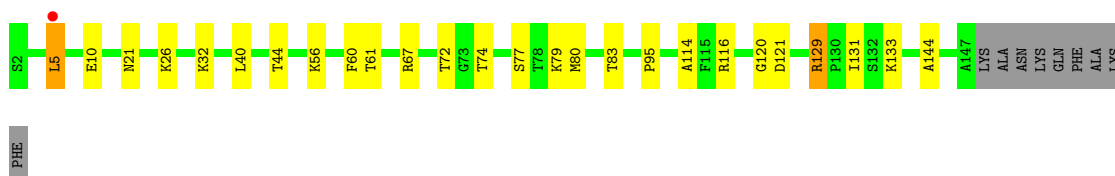
• Molecule 13: 40S ribosomal protein S11-A

Chain C1:



• Molecule 14: 40S ribosomal protein S12

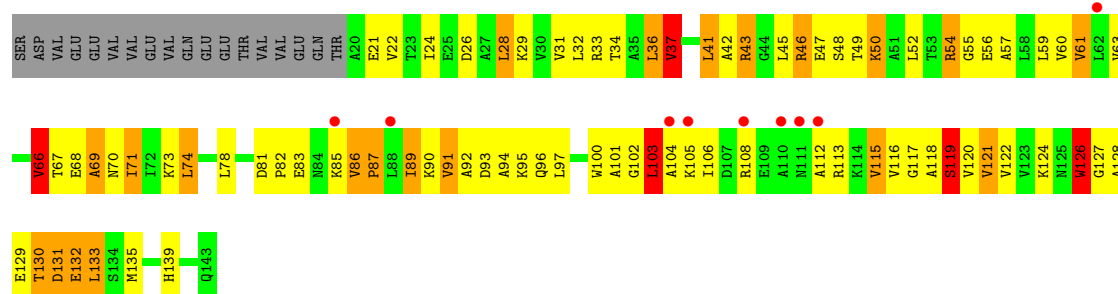
Chain c1:



• Molecule 15: 40S ribosomal protein S13

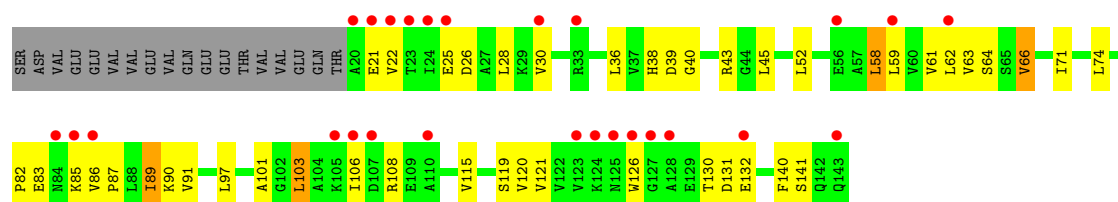


Chain C2:



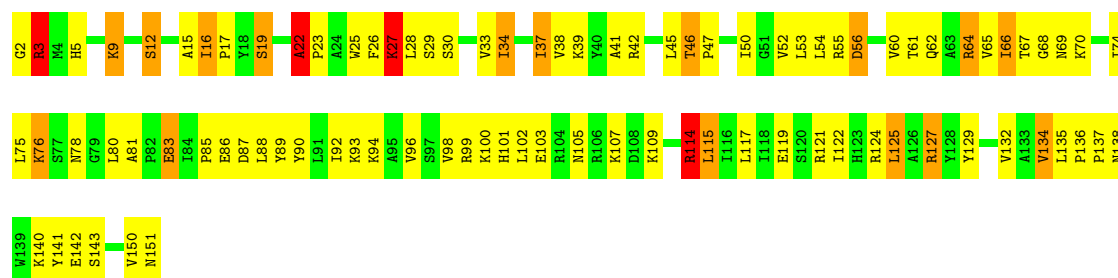
- Molecule 14: 40S ribosomal protein S12

Chain c2:



- Molecule 15: 40S ribosomal protein S13

Chain C3:



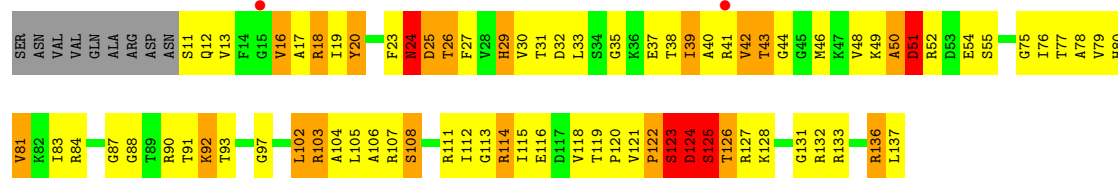
- Molecule 15: 40S ribosomal protein S13

Chain c3: 



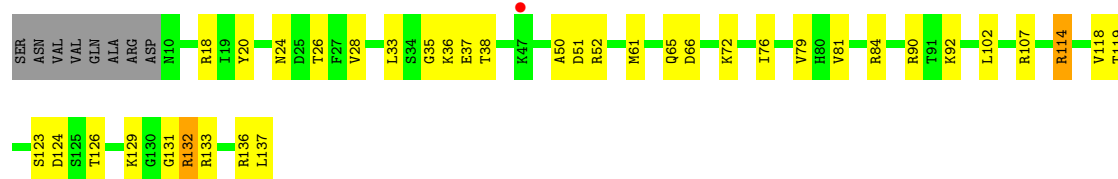
- Molecule 16: 40S ribosomal protein S14-A

Chain C4:



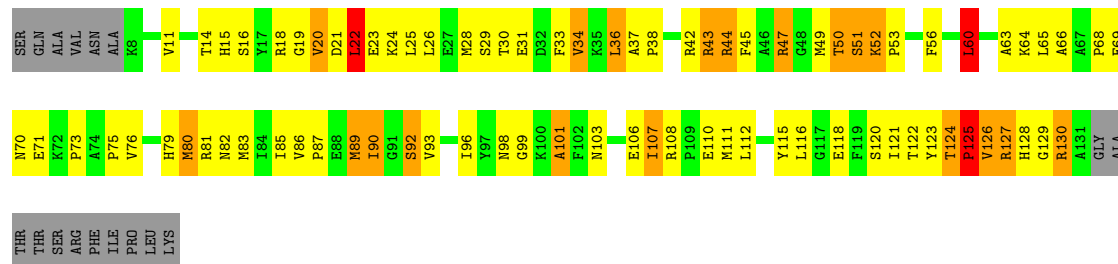
- Molecule 16: 40S ribosomal protein S14-A

Chain c4: 



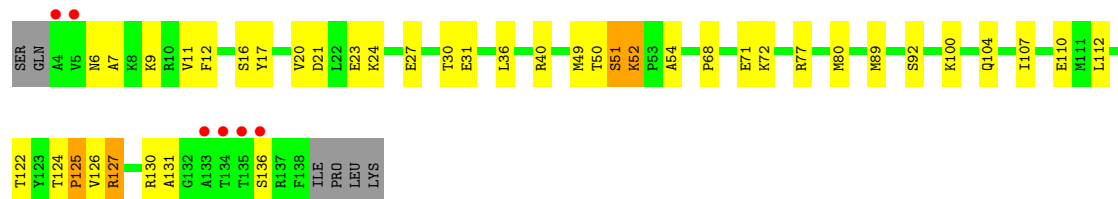
- Molecule 17: 40S ribosomal protein S15

Chain C5: 



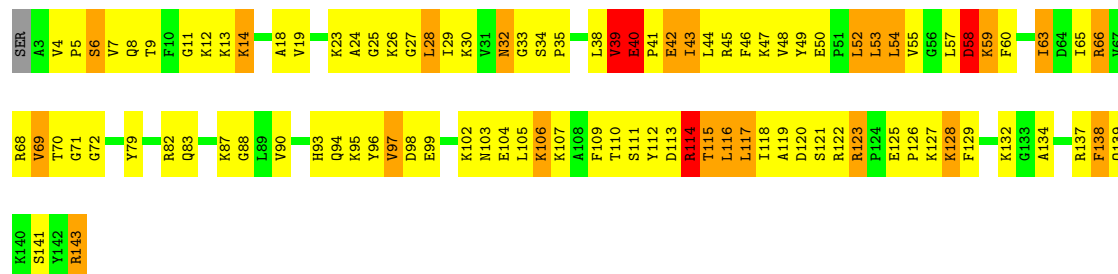
- Molecule 17: 40S ribosomal protein S15

Chain c5: 



- Molecule 18: 40S ribosomal protein S16-A

Chain C6: 



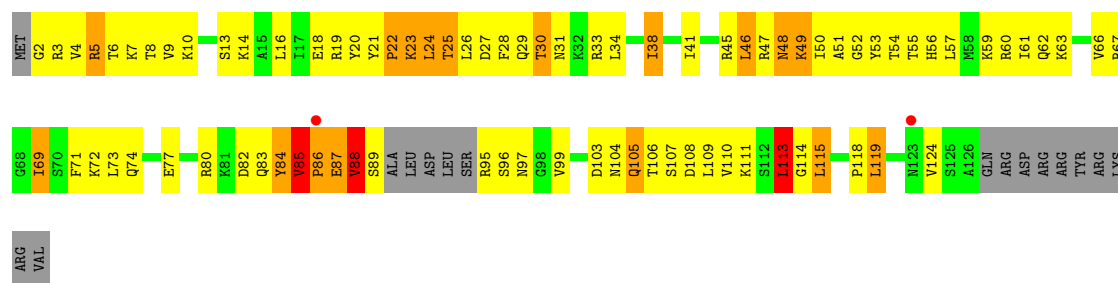
- Molecule 18: 40S ribosomal protein S16-A

Chain c6: 



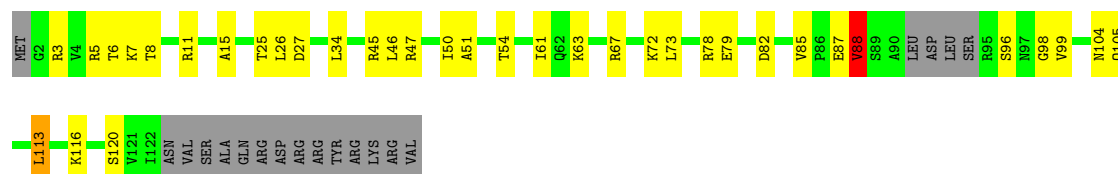
- Molecule 19: 40S ribosomal protein S17-A

Chain C7: 



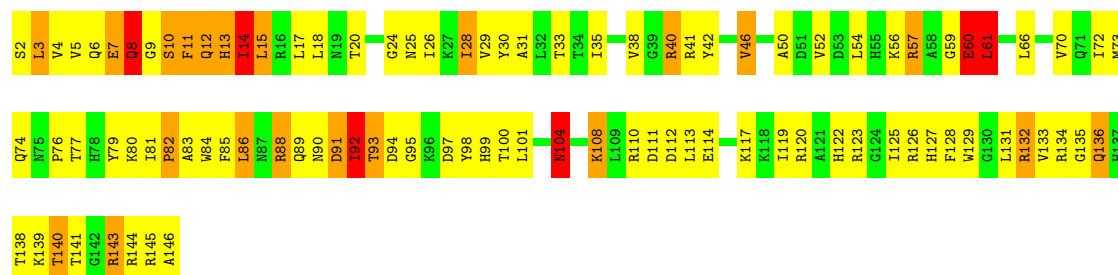
- Molecule 19: 40S ribosomal protein S17-A

Chain c7:



- Molecule 20: 40S ribosomal protein S18-A

Chain C8:



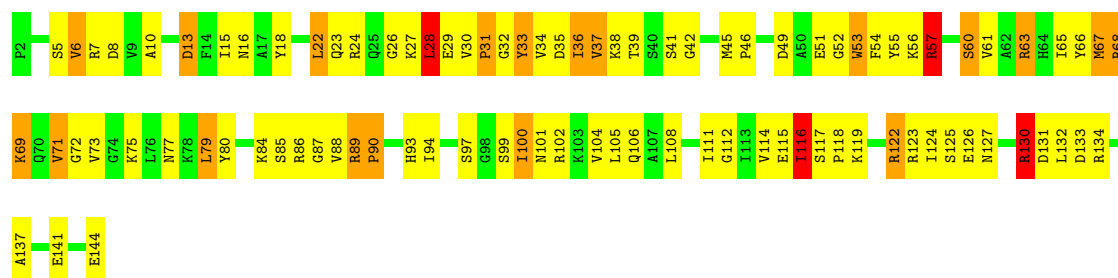
- Molecule 20: 40S ribosomal protein S18-A

Chain c8:

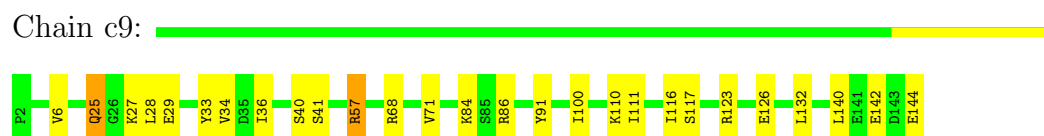


- Molecule 21: 40S ribosomal protein S19-A

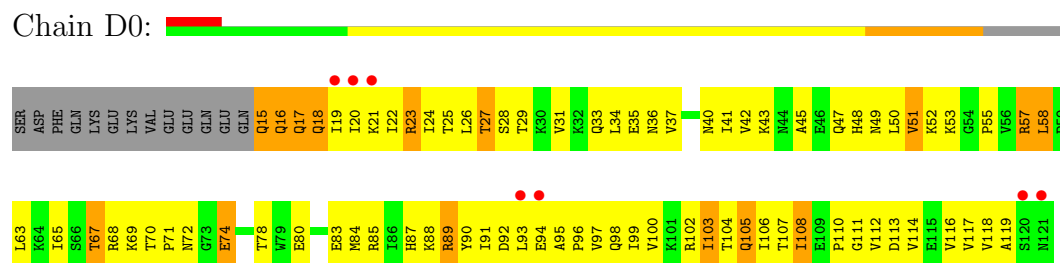
Chain C9:



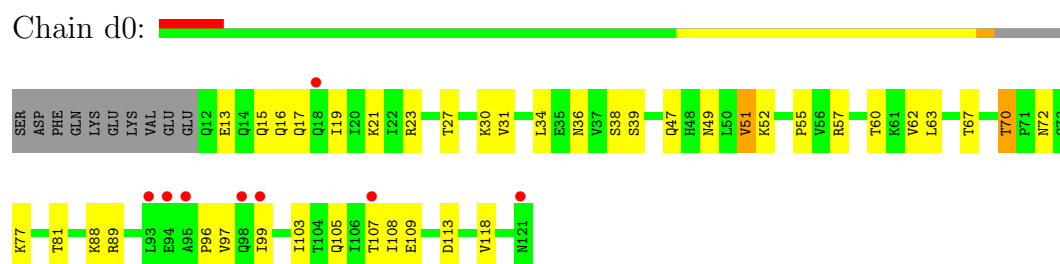
- Molecule 21: 40S ribosomal protein S19-A



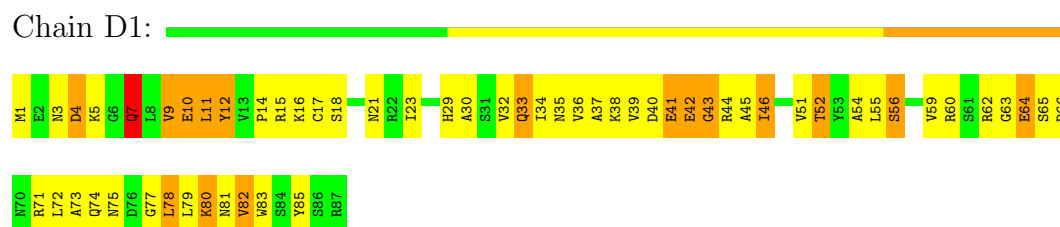
- Molecule 22: 40S ribosomal protein S20



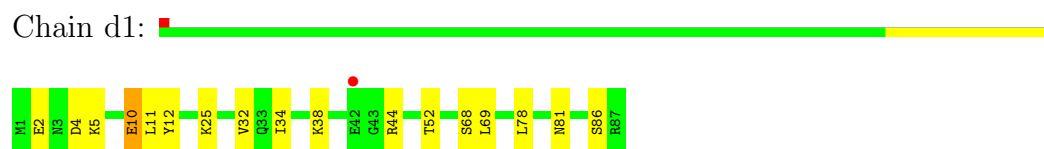
- Molecule 22: 40S ribosomal protein S20



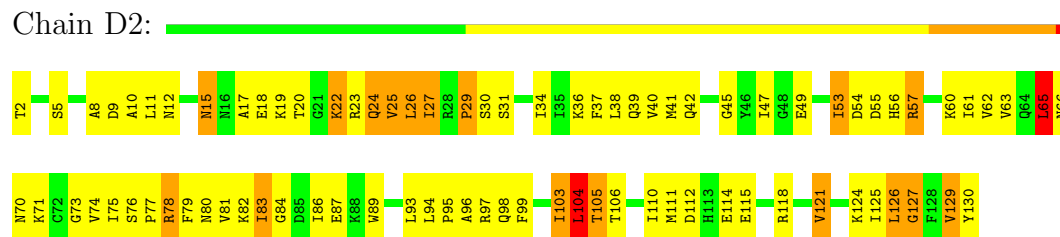
- Molecule 23: 40S ribosomal protein S21-A



- Molecule 23: 40S ribosomal protein S21-A



- Molecule 24: 40S ribosomal protein S22-A



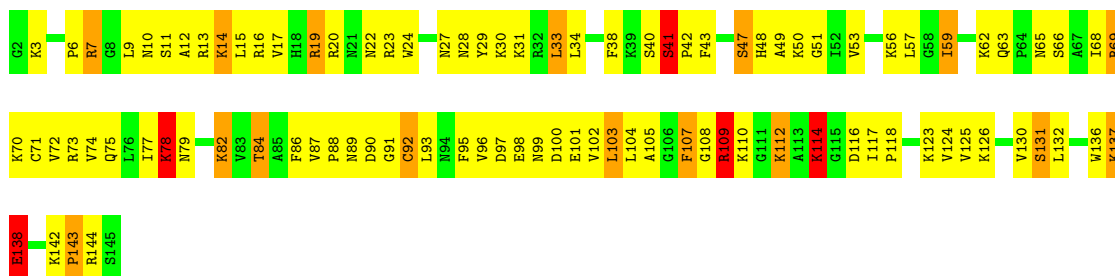
- Molecule 24: 40S ribosomal protein S22-A

Chain d2:



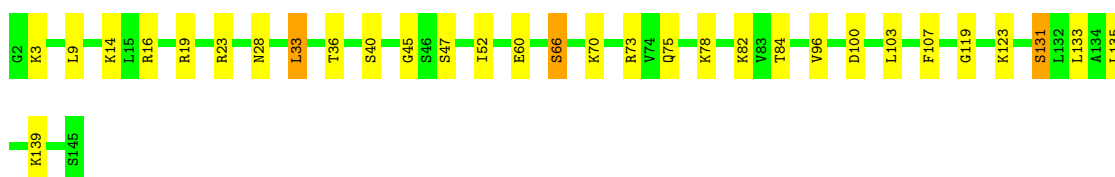
- Molecule 25: 40S ribosomal protein S23-A

Chain D3:



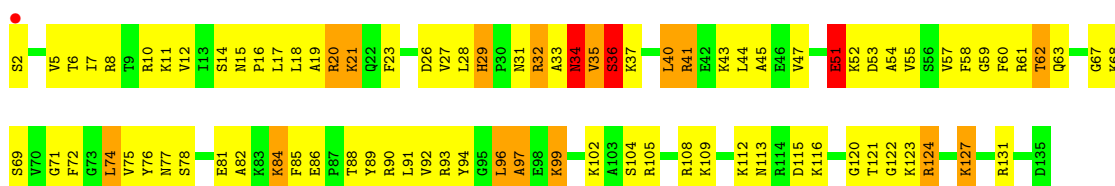
- Molecule 25: 40S ribosomal protein S23-A

Chain d3: 



- Molecule 26: 40S ribosomal protein S24-A

Chain D4: 



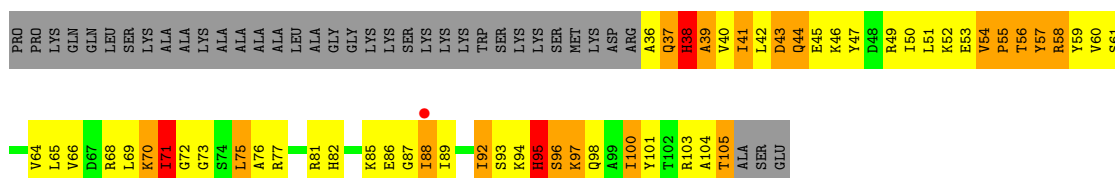
- Molecule 26: 40S ribosomal protein S24-A

Chain d4:



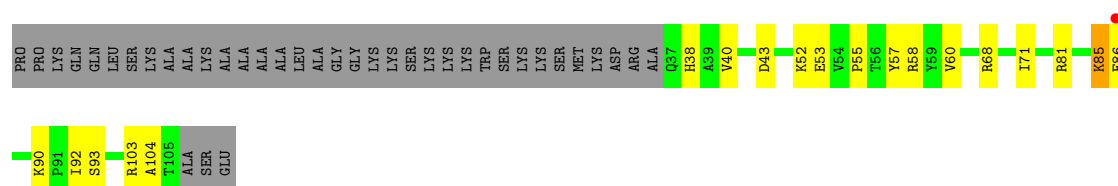
- Molecule 27: 40S ribosomal protein S25-A

Chain D5: 



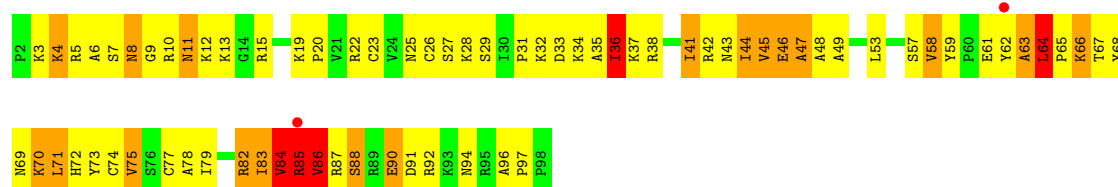
- Molecule 27: 40S ribosomal protein S25-A

Chain d5:



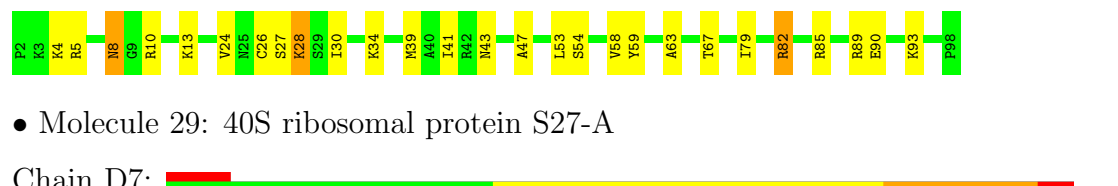
- Molecule 28: 40S ribosomal protein S26-B

Chain D6:



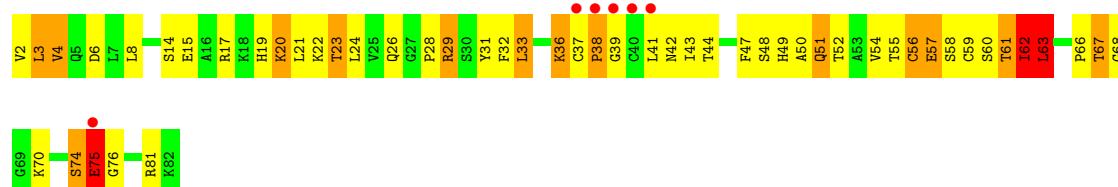
- Molecule 28: 40S ribosomal protein S26-B

Chain d6:



- Molecule 29: 40S ribosomal protein S27-A

Chain D7:



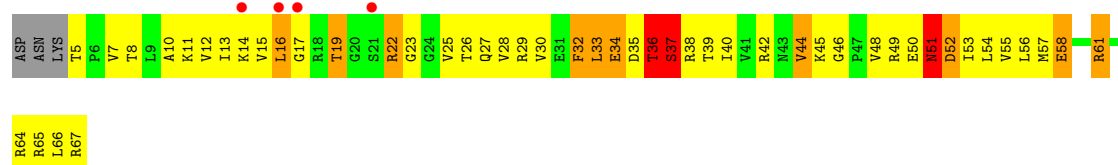
- Molecule 29: 40S ribosomal protein S27-A

Chain d7:



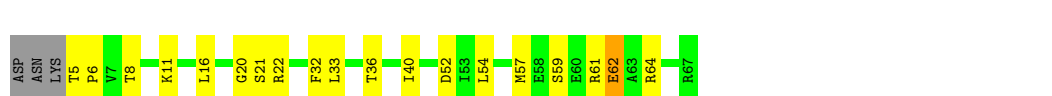
- Molecule 30: 40S ribosomal protein S28-A

Chain D8:



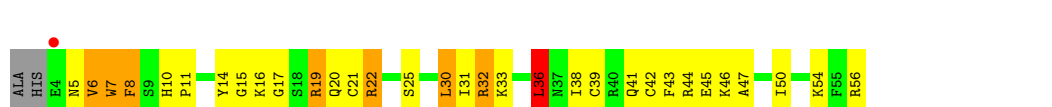
- Molecule 30: 40S ribosomal protein S28-A

Chain d8:



- Molecule 31: 40S ribosomal protein S29-A

Chain D9:



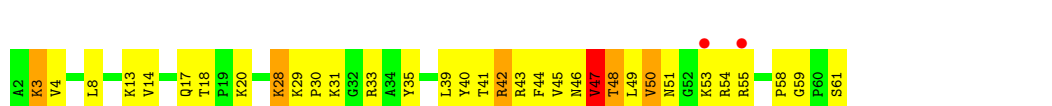
- Molecule 31: 40S ribosomal protein S29-A

Chain d9:



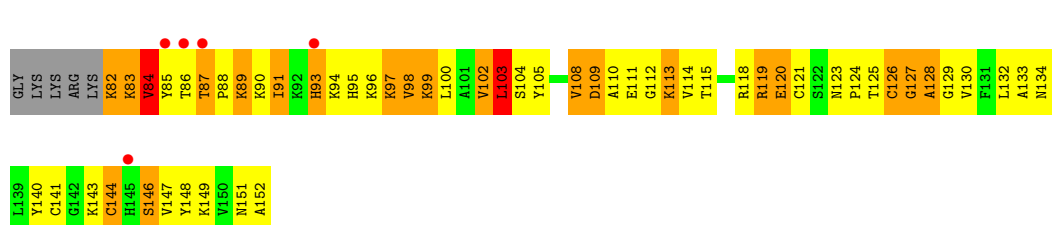
- Molecule 32: 40S ribosomal protein S30-A

Chain E0:



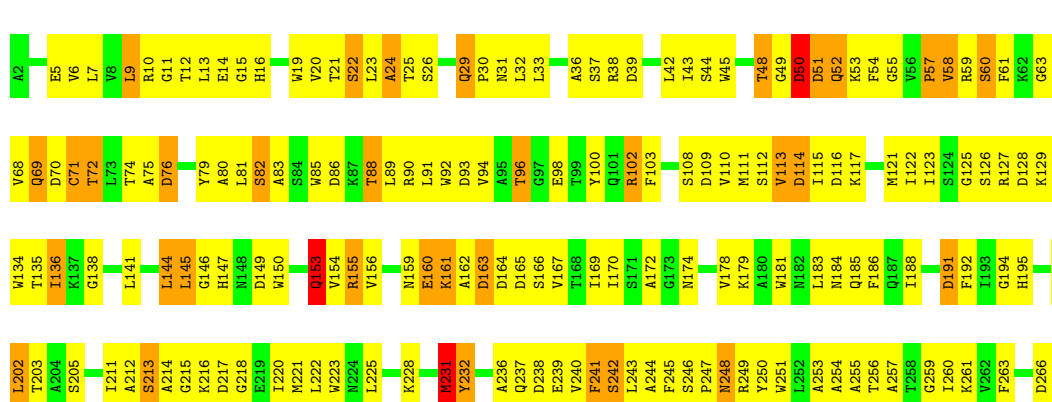
- Molecule 33: Ubiquitin-40S ribosomal protein S31

Chain E1:



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

Chain SR:





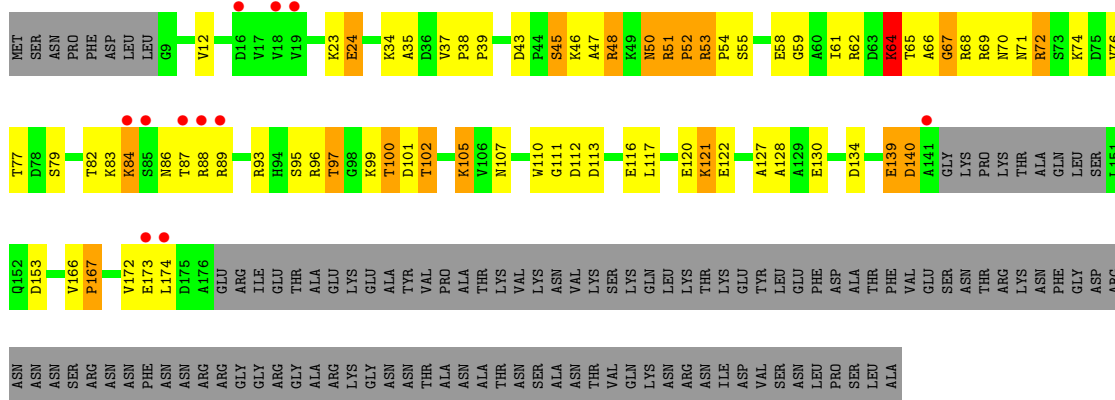
- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

Chain sR:



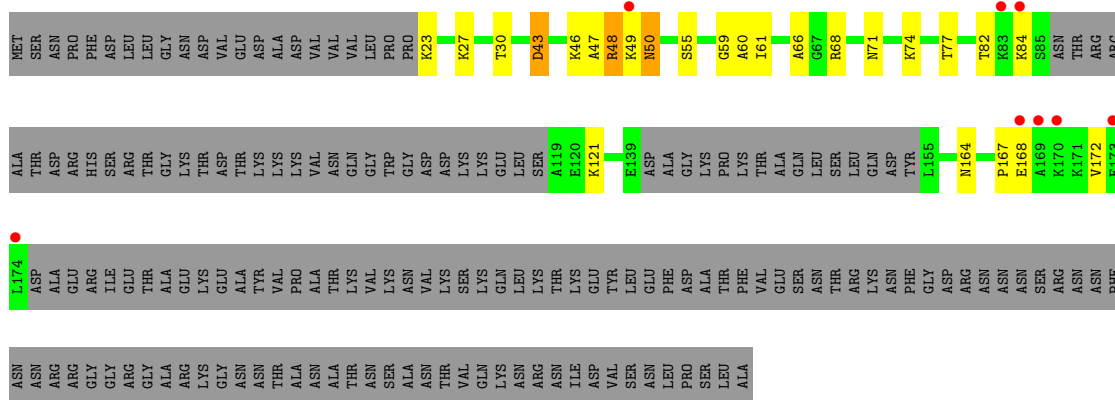
- Molecule 35: Suppressor protein STM1

Chain SM:



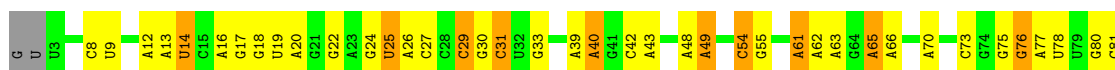
- Molecule 35: Suppressor protein STM1

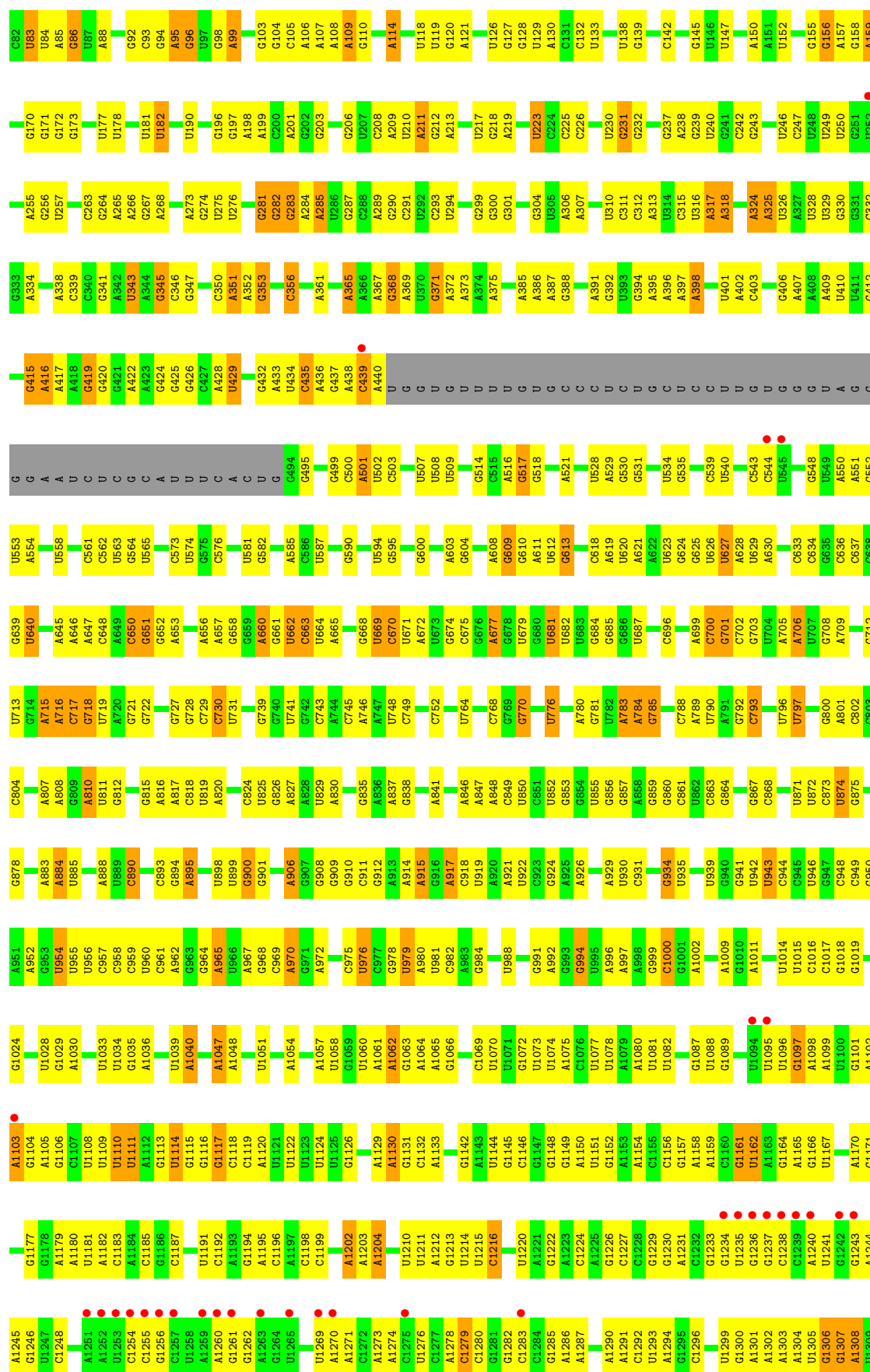
Chain sM:



- Molecule 36: TPA_inf: Saccharomyces cerevisiae S288c chromosome XII, complete sequence

Chain 1:

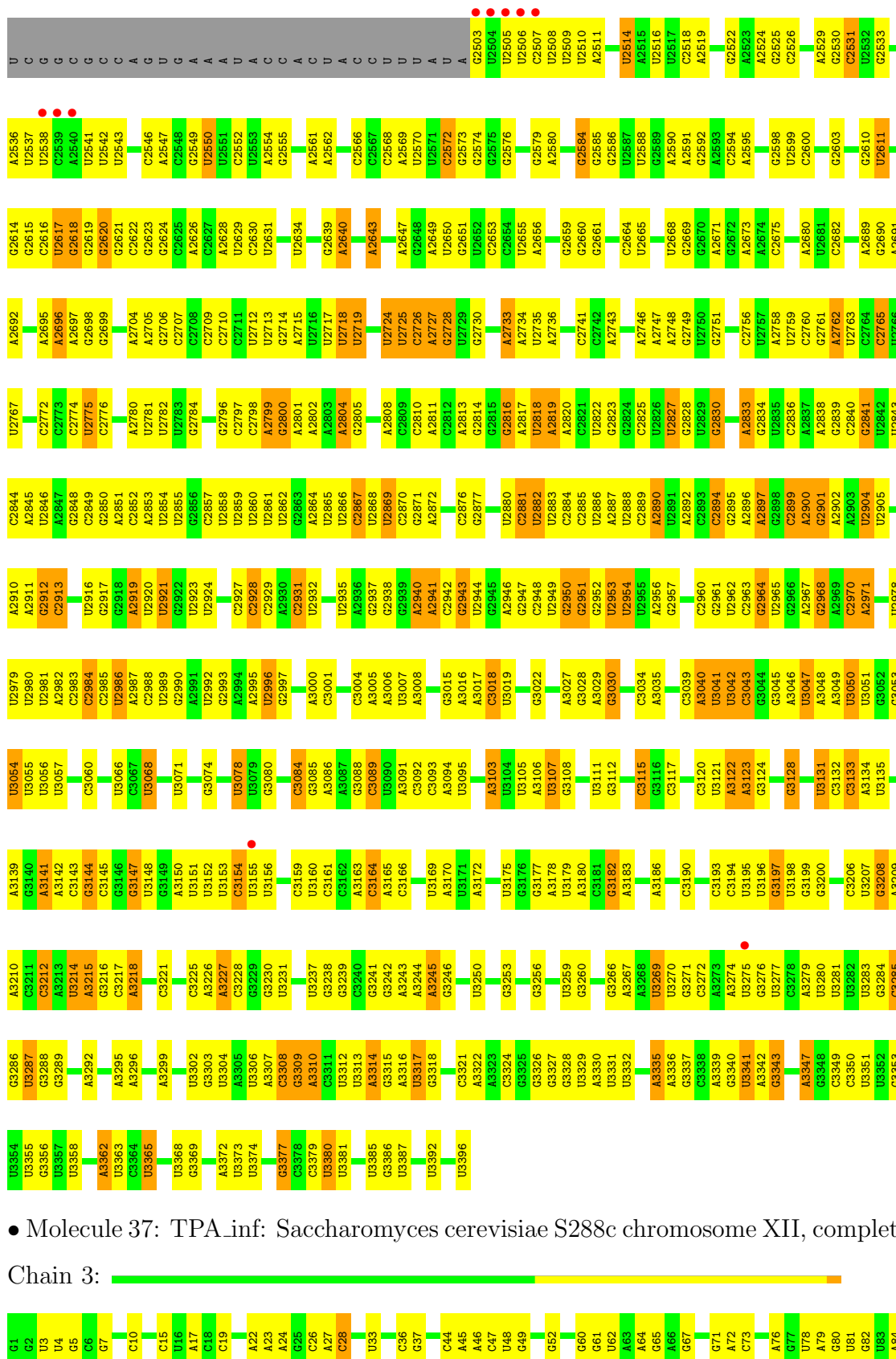




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A2368	C2284	U2209	G2123	U1938	G1864	C1788	C1701	A1603	G1536	A1455	G1379	G1313
C2369	U2285	G2210	U	G1939	A1864	G1789	U1702	G1604	A1537	A1456	A1381	C1314
U2286	U2211	U2211	A	G1940	A1865	G1790	C1706	C1608	U1540	U1457	G1382	C1315
A2361	C2212	C2212	G	C1941	C1866	C1791	A1707	C1609	G1541	U1458	C1385	C1316
C2362	A2213	A2213	G	U1942	A1867	C1792	C1708	G1610	G1542	U1459	A1317	A1317
A2363	U2133	A2214	U	C1943	G1868	U1795		G1611	G1543	A1460	A1389	A1318
G2364			C	U1944		G1796	G1712	A1612		A1461	G1319	G1319
			U	U1945	U1877	A1797		A1613		A1462	A1390	G1320
			U	A1946	G1878	A1798	A1715	C1614	U1546	U1463	G1321	G1321
			U	G1947	A1879	A1799	U1716	C1615	G1547	U1464	U1322	U1322
			U	G1948	U1880	A1799	U1717	U1616	U1548	A1465	G1323	G1323
			U	G1949	A1881	A1799	G1718	G1617	C1550	G1466		
			U	U1950	G1882		G1719	A1618				
			U	C1951	A1883	C1805	U1720	G1619	U1553	U1470	C1327	C1327
			U	G1952	A1884	A1806	U1721	A1620	U1554	U1471	A1330	A1330
			U	G1953	U1885	G1807	U1722	U1620	U1555	U1472	A1331	A1331
			U	G1954	A1886	G1808	U1723	U1621	C1556		A1332	A1332
			U	U1955	A1887	A1887	A1724	U1622		G1476	C1402	C1333
			A		U1888	U1814	C1725	A1632	A1559	A1477	G1403	U1334
			U	G	G1889	A1814	U1726	C1633	G1560		U1404	C1335
			U	U	U1890	U1815	G1727	G1634	G1561	G1480	U1405	U1336
			U	G	A1891	A1816		C1635	C1562	A1481	A1406	A1337
			U	A		G1817	A1731	U1636	U1564	A1482	A1407	
			U	G	A1895	U1818		A1637	U1565	G1483	G1408	G1340
			U	G		U1819		A1638	G1566	U1484	G1409	U1341
			U	G	G1898	U1820	G1734	C1639	A1566	G1485	U1410	C1342
			U	C	G1899	U1821	G1735		U1567	G1411	G1412	G1343
			U	C	A1900	C1822	U1740	C1644	U1568	G1488	G1413	G1344
			U	C	A1901	U1823	A1741	U1645	U1569	A1489	G1414	G1345
			U	C	G1902	U1824	U1742	G1646	U1570	A1490	G1415	G1346
			U	C	U1903	G1825	G1743		U1571	A1491	U1416	U1347
			U	G	C1904	C1826		G1652	U1572	G1492	U1417	U1348
			U	U	G1905	C1827	A1749	G1658	C1574	G1493	G1417	A1360
			U	C	U1906		A1750	U1659	C1575	U1494		U1351
			U	A	A1909	G1830	G1751	C1660	G1576	U1495	C1420	A1352
			U	G	A1910	U1831	A1752	G1661	G1577	C1496	G1421	U1353
			U	C	A1911	C1832	G1753	G1662	C1578	U1498	U1425	G1354
			U	G	U1912	U1833			C1579	A1499	A1355	U1355
			U	C	A1913	A1835	C1761	G1668	A1580	G1500	U1427	U1356
			U	C	G1914	C1827	G1762	C1669	C1581	G1501	A1428	
			U	C	U1915		U1763		C1582	C1502	G1429	C1360
			U	C	U1916	G1838	U1764		U1584	A1503	U1430	U1361
			U	G		A1841	U1765	G1674	C1585	A1504	G1431	G1362
			U	G	G1919	C1844	G1766	G1675		C1505	C1432	A1363
			U	G	A1921	U1920		U1687	A1589	A1506	A1433	C1364
			U	C	A1922	G1845	G1769	U1688	G1590	G1507	A1434	G1365
			U	G	C1923	C1846	G1770	U1689	G1591	C1508	A1435	A1366
			U	U	U1924	A1847	C1771	U1690	G1592	A1509	U1436	G1367
			U	G	U1925	G1848	U1772	C1690	A1593	G1510	C1437	
			U	C	C1926	A1850	C1773	U1691			G1441	A1369
			U	U	G1927	G1851	C1774	U1692	C1596	C1516	G1442	G1370
			U	U	G1928	G1856	G1779	U1693	C1597	G1520	G1443	C1372
			U	G	G1929	C1857	G1780	U1694	C1598	G1521	G1444	A1373
			U	G	A1933	A1858	C1781	U1695	G1599	U1522	U1445	G1374
			U	G	A1934	A1859	U1782	A1696	U1600	A1534	A1446	
			U	C	A1936	G1860	G1786	A1699	U1601		G1447	G1377

A1263	A1180	U1109	A1036	C959	C804	G718	G632	G548	A409	G335	U250	G158	U78
G1264	U1181	U1110	A1037	U960	G805	U719	C633	U549	U410	A336	G251	C166	U79
U1276	C1182	A1111	C1038	A961	A806	A720	C634	A550	U411	G337	U252	U167	U83
C1280	C1187	G1113	U1039	G963	G809	G726	C637	G552	U413	A342	A253	U168	C90
G1281	U1183	U1114	A1040	U966	A810	G727	G638	U555	U414	U344	U169	G91	G91
G1282	C1189	G1116	U1041	A967	U811	G727	G639	C	U	G345	G170	G92	G92
C1283	U1190	G1117	A1048	G968	G812	U731	U640	C561	G419	G346	G173	C93	C93
U1191	C1198	C1118	U1049	C969	G815	G732	C641	C562	G420	G347	C174	G94	G94
C1192	U1191	C1119	U1050	G970	A816	G733	U643	C	G	A268	C175	A95	A95
A1193	C1192	U1120	U1051	G971	A817	G734	G644	C	A	G348	G176	G96	G96
C1298	A1193	U1121	U1052	A972	C818	A735	A645	G567	G423	A349	C271	U177	U177
U1301	C1196	U1122	A1054	A973	U821	A736	A646	G568	G424	A352	G270	G101	G101
A1301	U1197	U1123	U1055	G974	U822	G737	A647	A569	G425	A357	G272	C102	C102
A1302	C1198	U1124	U1056	C975	A824	A738	C648	U571	G426	C356	U180	G103	G103
A1303	U1199	U1125	A1057	U976	C824	G739	G649	U572	A428	G358	U181	G104	G104
C1303	A1200	G1126	U1058	U905	U825	G742	G651	C573	U429	A361	U188	C105	C105
A1304	C1201	U1127	U1060	A906	G831	G743	G652	U574	U430	G364	U189	A106	A106
U1305	A1202	U1128	A1061	G907	U834	A744	C655	G575	A433	C365	U190	A107	A107
C1306	U1203	C1129	U1062	C981	U835	A745	A656	C580	U434	A367	U191	A108	A108
G1307	A1204	G1130	U1063	C982	G836	C746	A657	U581	U435	A368	C192	G109	G109
A1308	A1205	G1131	A1064	U904	U837	A747	G658	C589	C436	A369	C193	G110	G110
U1309	G1206	U1132	U1065	A913	A836	U748	U662	A589	G437	A370	G197	C111	C111
G1310	U1207	A1135	U1066	G991	G838	C749	U663	G590	A438	A371	U207	U112	U112
C1313	U1208	A1136	U1067	G994	C839	A751	G664	G591	C439	A372	U208	C113	C113
G1314	G1213	U1137	C1068	U995	U847	C757	G665	G592	U502	A373	C205	A114	A114
C1315	U1214	C1141	U1070	A996	A848	C757	G666	U594	C503	U370	C288	A115	A115
U1215	U1215	U1142	U1071	A997	C849	U766	G668	G595	A440	A371	A289	A116	A116
A1317	C1221	A1143	U1072	A998	U921	U767	G670	C	U	A372	G290	U117	U117
A1318	G1222	U1144	U1073	G999	U850	U767	U671	A598	U507	A373	U207	U118	U118
G1321	U1231	G1145	U1074	C1000	C851	U767	A677	C599	U508	A374	C208	U119	U119
U1322	C1232	U1146	A1075	G1001	U855	G770	G678	G600	G510	A375	A209	G120	G120
U1329	G1233	G1147	U1076	A1002	G856	G770	U601	U601	G514	A376	U210	A121	A121
A1330	C1234	G1148	U1077	A1003	G857	G773	U663	A602	U	A377	G212	A122	A122
U1331	U1235	C1149	U1080	A1006	A858	U776	G684	G603	G	C378	G300	G127	G127
A1332	G1236	A1150	U1081	G1010	G859	U776	G685	G604	U	G383	G215	G128	G128
C1333	C1237	U1151	U1082	U930	G860	G779	G686	A522	G	A384	U217	U129	U129
U1334	G1238	G1152	U1083	G934	C861	G780	U687	A523	C	A385	A218	A130	A130
C1335	C1239	C1155	A1084	U935	U862	G781	G688	C526	C	A386	G220	G136	G136
U1336	U1240	G1156	U1085	C938	G863	U782	U689	A610	U	A387	A221	G137	G137
A1337	U1241	G1157	U1086	U939	U864	A783	A690	G611	C	A391	A222	U138	U138
C1338	G1242	A1158	C1087	C1016	A866	A784	A699	U612	C	G392	A223	G139	G139
C1339	U1243	U1159	U1088	C1017	G869	G787	C700	G613	U	U393	C224	C142	C142
G1340	A1244	C1160	U1092	G1018	U870	C788	G701	G614	G	G394	U234	G143	G143
U1341	U1245	G1161	A1093	U942	G870	G789	G702	G618	C	A395	A317	A144	A144
C1342	G1246	U1167	U1094	C944	U871	A789	G703	A619	C	A396	G239	G145	G145
A1343	U1247	U1168	U1095	C945	U872	U790	U704	U620	U	A397	U326	U146	U146
G1344	G1248	U1169	U1096	U946	U873	C793	A705	A621	U	A398	C242	G148	G148
C1345	U1249	A1170	G947	G947	U874	G797	A706	A622	U	A399	G243	U149	U149
U1347	G1250	G1171	A1098	C947	G875	U797	G712	U623	G	C403	U245	A150	A150
U1348	U1258	U1172	G1101	U954	A876	G798	U713	G624	U	G404	U246	G155	G155
G1349	A1259	C1176	A1102	C877	G878	G798	G714	G625	G	U405	U247	G156	G156
A1350	U1260	G1177	U1103	U955	U879	A801	A715	U626	G	G406	U248	U157	U157
U1351	G1261	C1178	A1103	U956	U880	C902	A716	A630	U	A407	G330	G158	G158
A1352	G1262	A1179	U1104	C958	C881	C903	C717	U631	A	A408	U249	U159	U159

WORLDWIDE
PDB
PROTEIN DATA BANK



- Molecule 37: TPA_inf: *Saccharomyces cerevisiae* S288c chromosome XII, complete sequence

Chain 3:



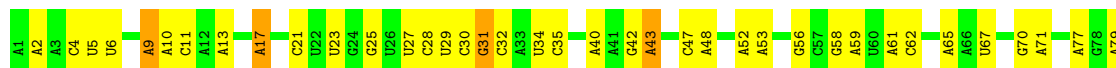
- Molecule 37: TPA_inf: *Saccharomyces cerevisiae* S288c chromosome XII, complete sequence

Chain 7:



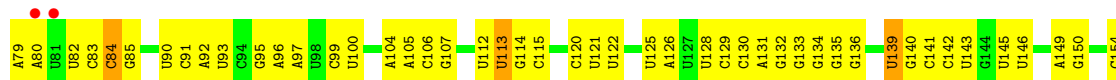
- Molecule 38: *Saccharomyces cerevisiae* genomic DNA containing ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, strain Kw97

Chain 4:



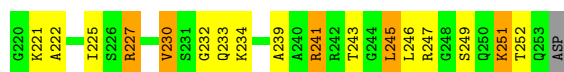
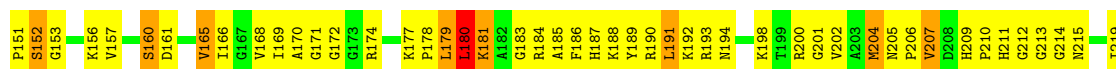
- Molecule 38: *Saccharomyces cerevisiae* genomic DNA containing ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, strain Kw97

Chain 8:



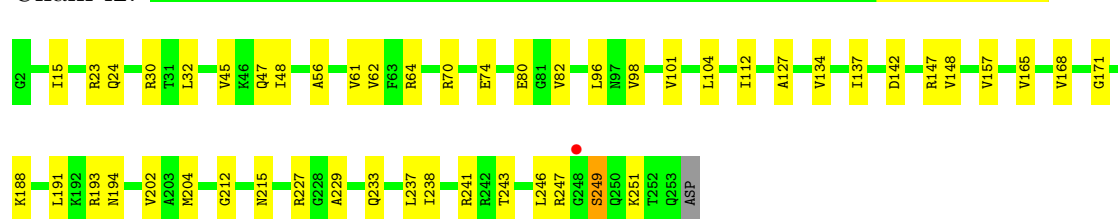
- Molecule 39: 60S ribosomal protein L2-A

Chain L2:



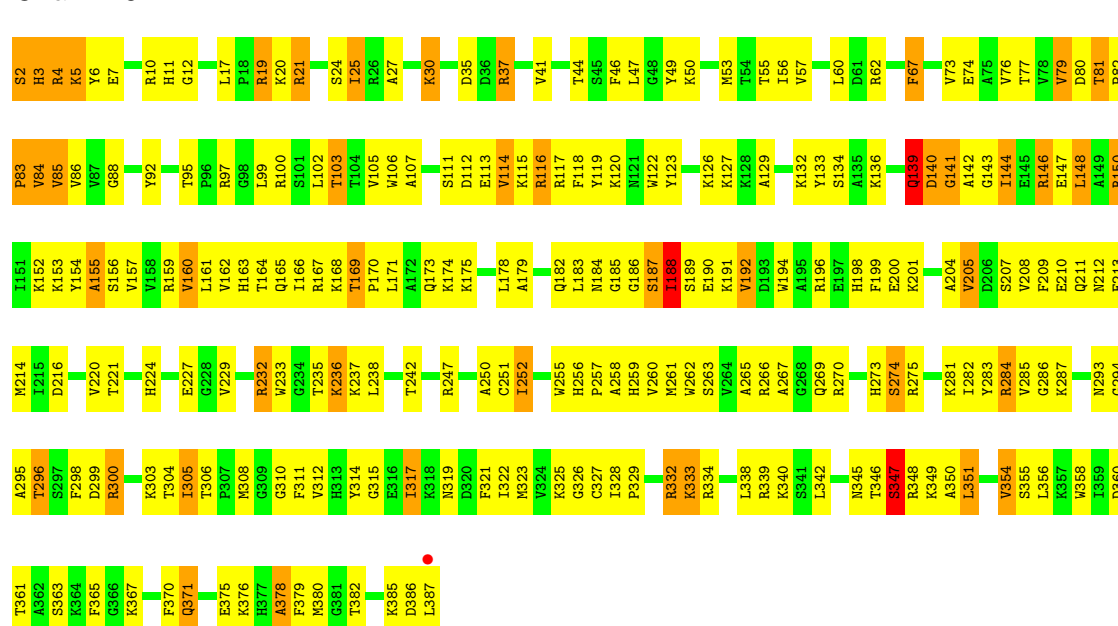
- Molecule 39: 60S ribosomal protein L2-A

Chain l2:



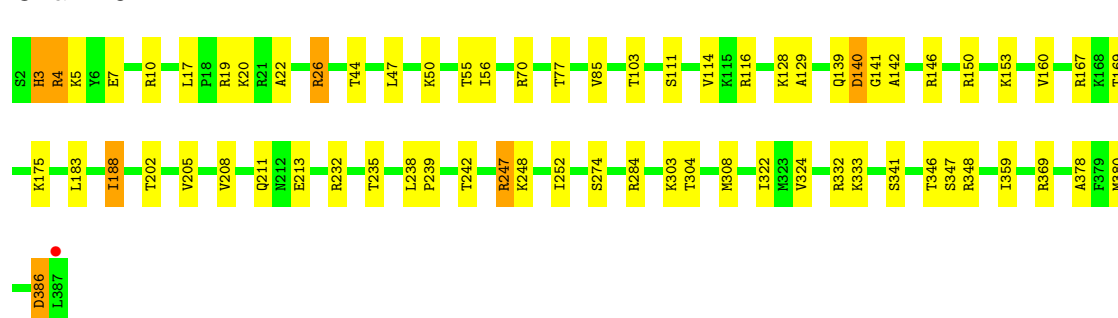
- Molecule 40: 60S ribosomal protein L3

Chain l3:



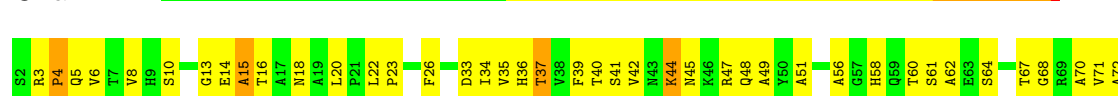
- Molecule 40: 60S ribosomal protein L3

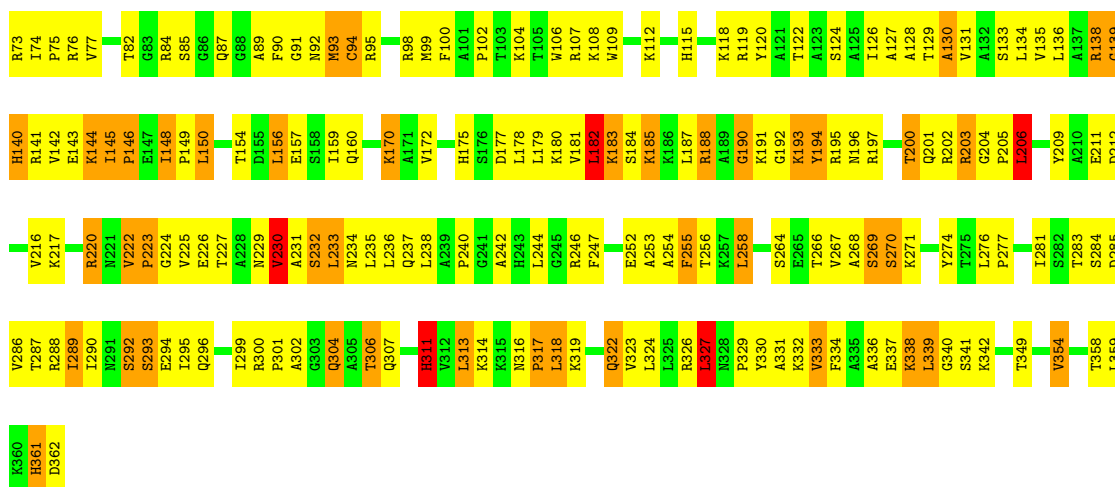
Chain l3:



- Molecule 41: 60S ribosomal protein L4-A

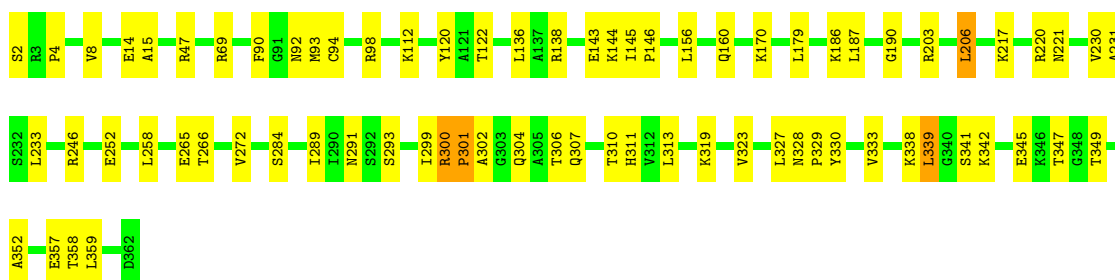
Chain l4:





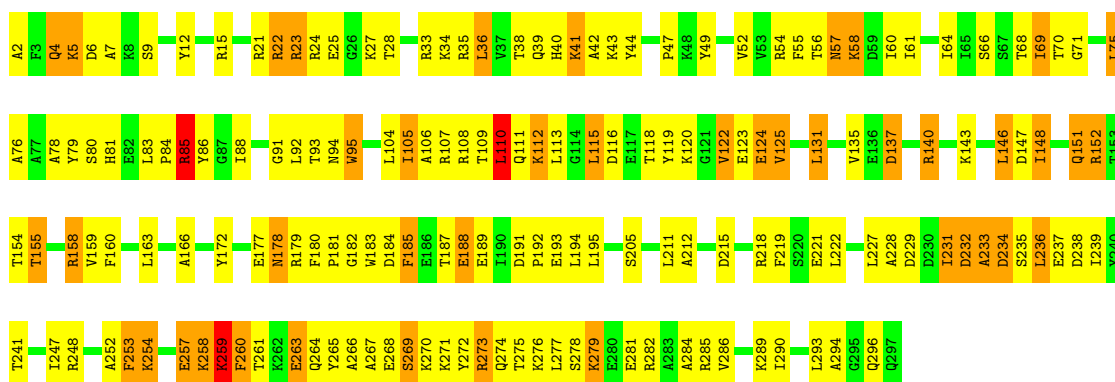
- Molecule 41: 60S ribosomal protein L4-A

Chain 14:



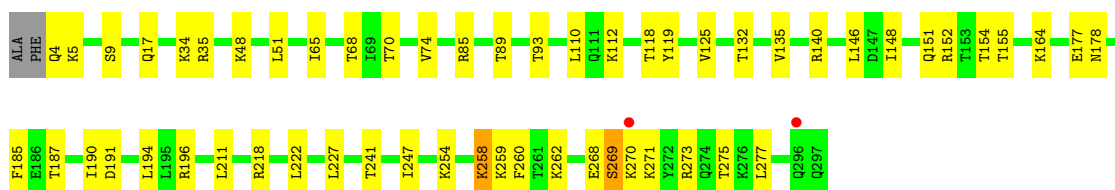
- Molecule 42: 60S ribosomal protein L5

Chain L5:



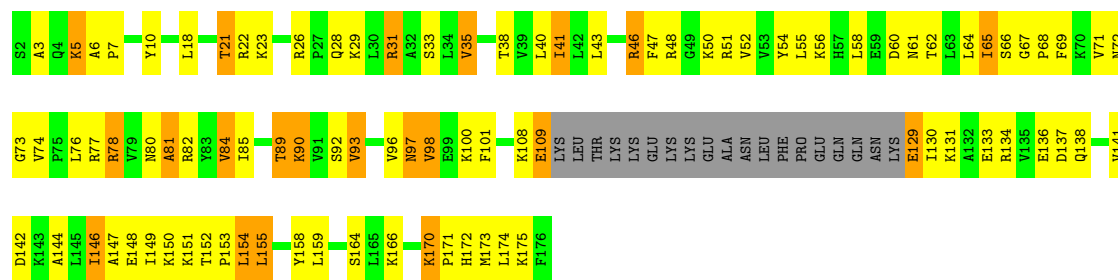
- Molecule 42: 60S ribosomal protein L5

Chain 15:



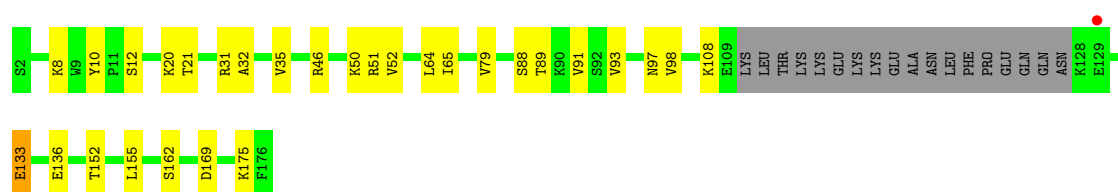
- Molecule 43: 60S ribosomal protein L6-A

Chain L6:



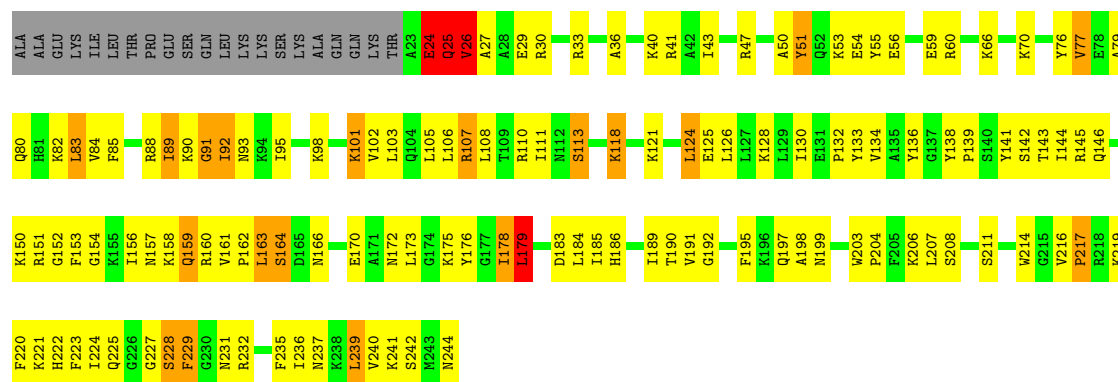
- Molecule 43: 60S ribosomal protein L6-A

Chain 16:



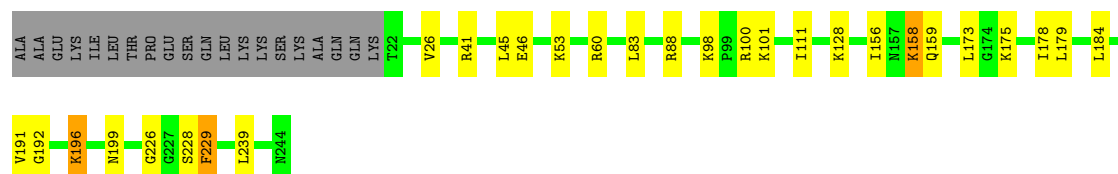
- Molecule 44: 60S ribosomal protein L7-A

Chain L7:



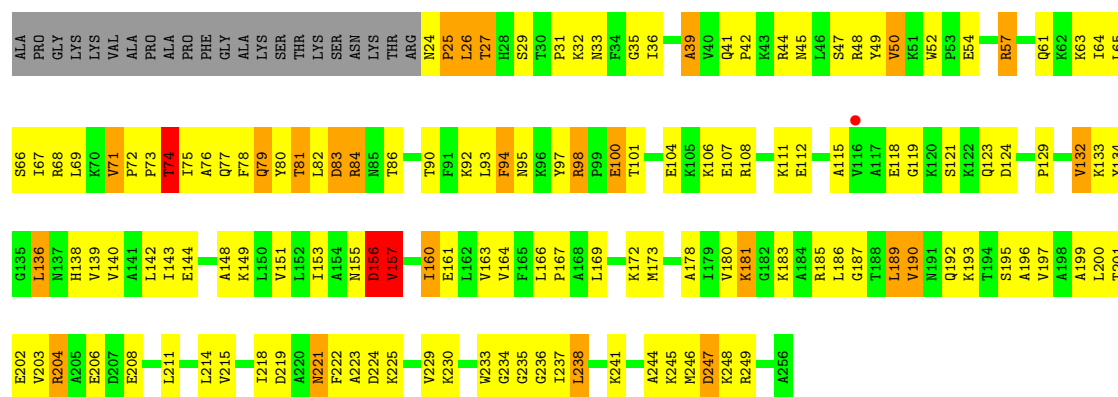
- Molecule 44: 60S ribosomal protein L7-A

Chain 17:



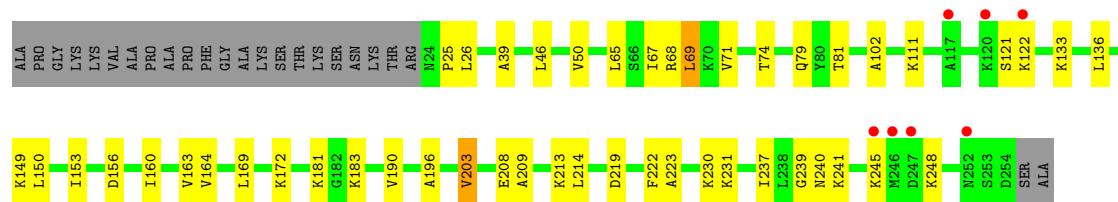
- Molecule 45: 60S ribosomal protein L8-A

Chain L8:



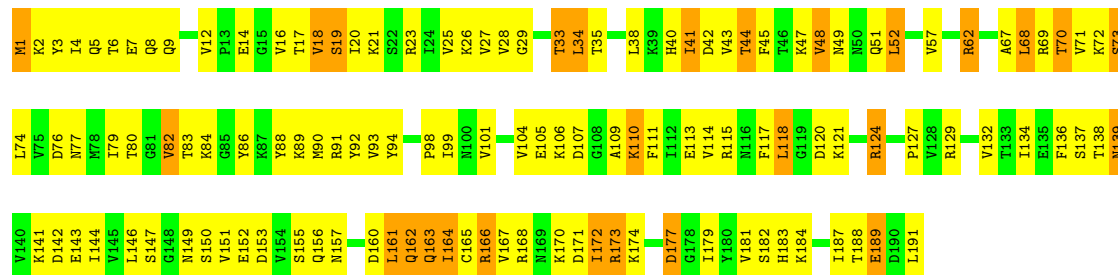
• Molecule 45: 60S ribosomal protein L8-A

Chain 18:



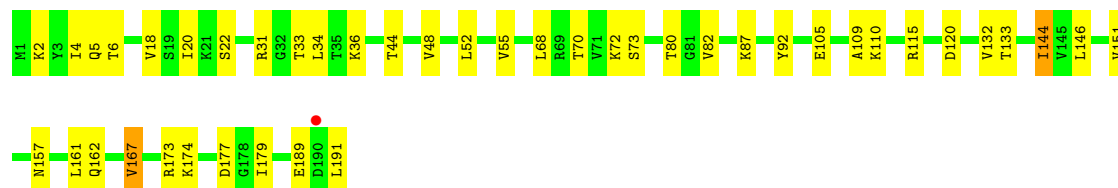
• Molecule 46: 60S ribosomal protein L9-A

Chain 19:



• Molecule 46: 60S ribosomal protein L9-A

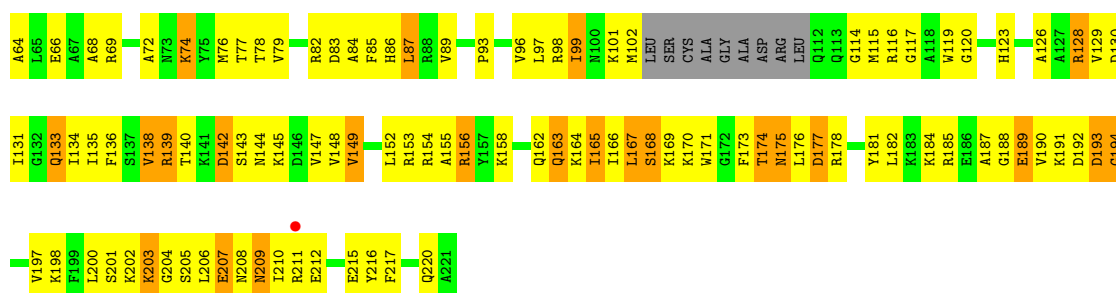
Chain 19:



• Molecule 47: 60S ribosomal protein L10

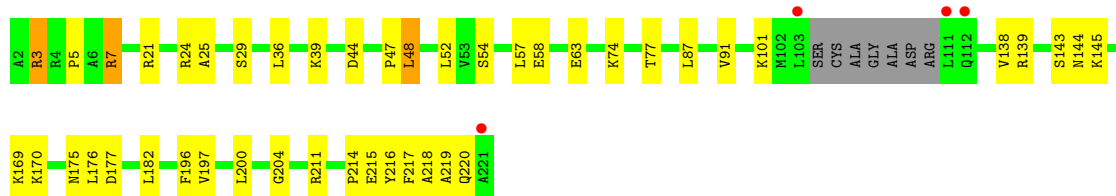
Chain M0:





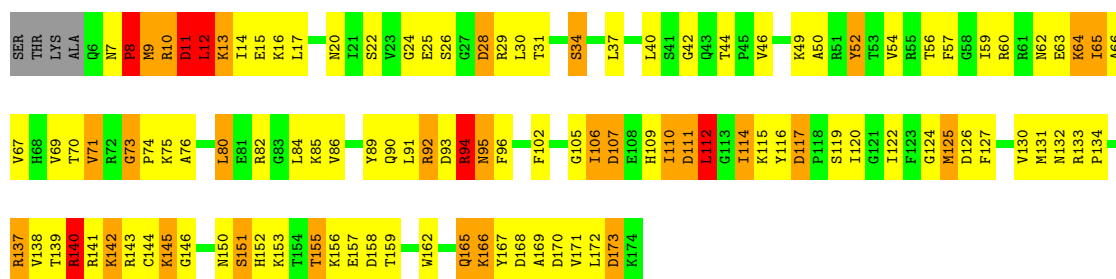
- Molecule 47: 60S ribosomal protein L10

Chain m0:



- Molecule 48: 60S ribosomal protein L11-B

Chain M1:



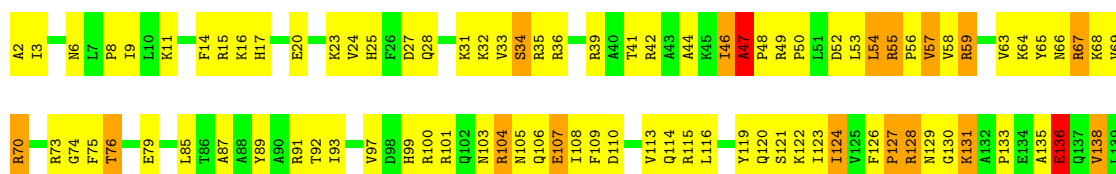
- Molecule 48: 60S ribosomal protein L11-B

Chain m1:



- Molecule 49: 60S ribosomal protein L13-A

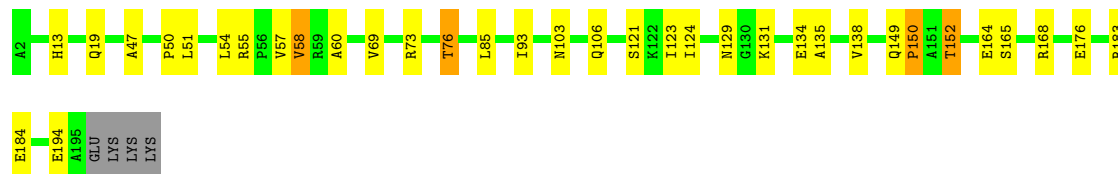
Chain M3:





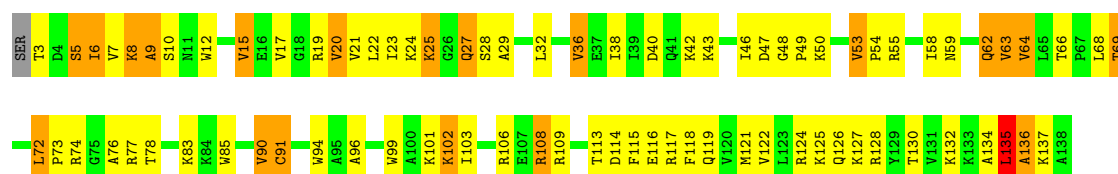
• Molecule 49: 60S ribosomal protein L13-A

Chain m3:



• Molecule 50: 60S ribosomal protein L14-A

Chain M4:



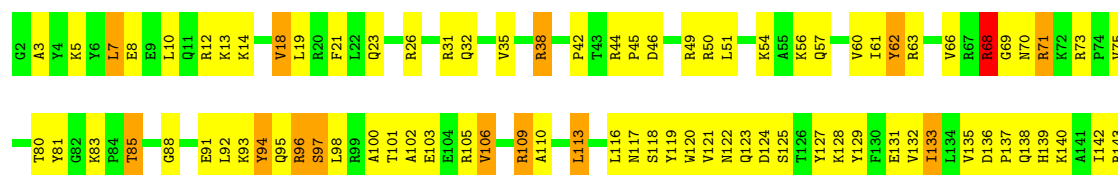
• Molecule 50: 60S ribosomal protein L14-A

Chain m4:



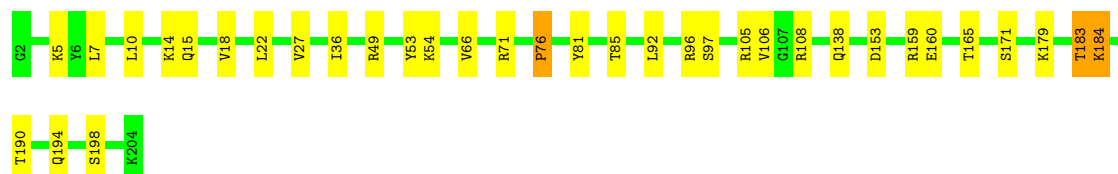
• Molecule 51: 60S ribosomal protein L15-A

Chain M5:



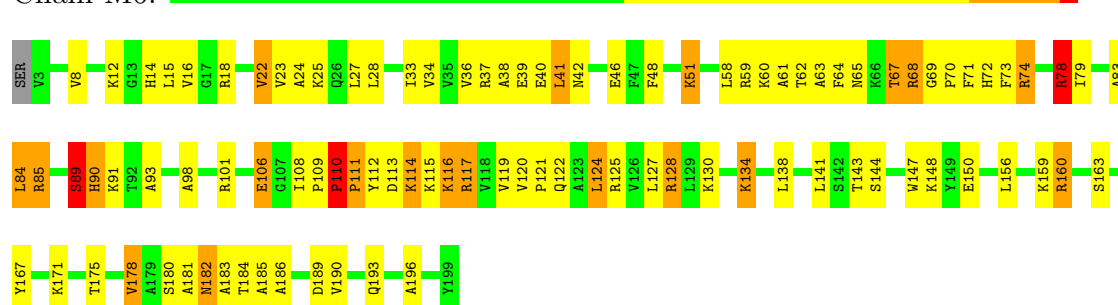
• Molecule 51: 60S ribosomal protein L15-A

Chain m5:



• Molecule 52: 60S ribosomal protein L16-A

Chain M6:



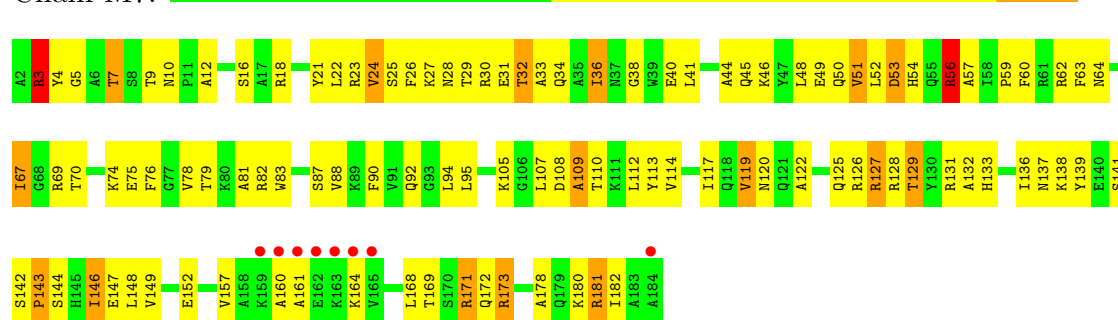
- Molecule 52: 60S ribosomal protein L16-A

Chain m6:



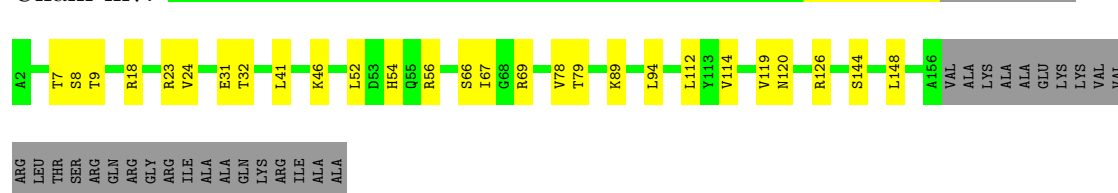
- Molecule 53: 60S ribosomal protein L17-A

Chain M7:



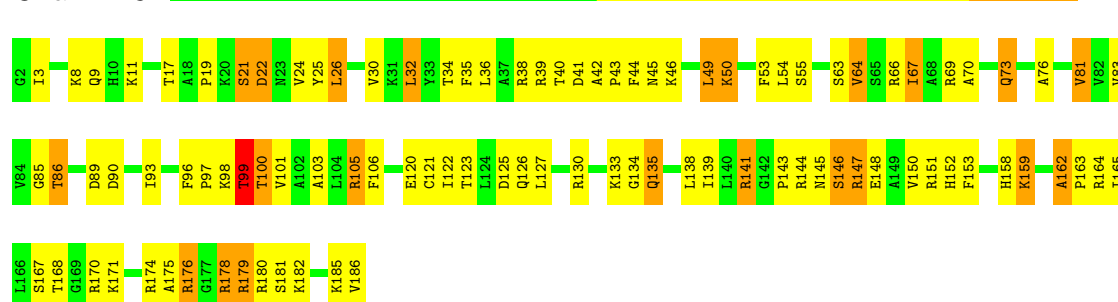
- Molecule 53: 60S ribosomal protein L17-A

Chain m7:



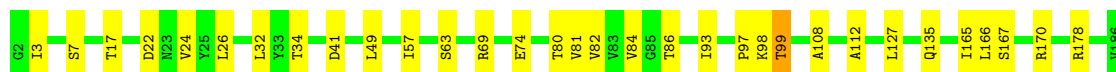
- Molecule 54: 60S ribosomal protein L18-A

Chain M8:



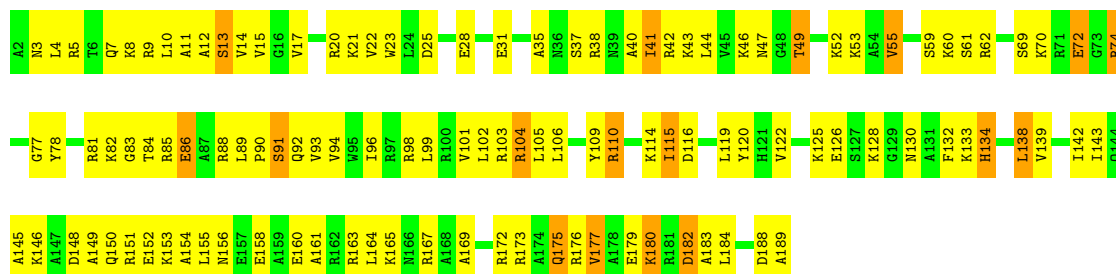
- Molecule 54: 60S ribosomal protein L18-A

Chain m8:



- Molecule 55: 60S ribosomal protein L19-A

Chain M9:



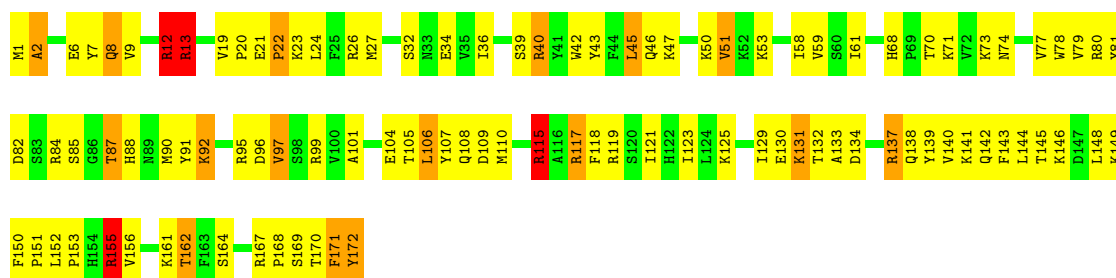
- Molecule 55: 60S ribosomal protein L19-A

Chain m9:



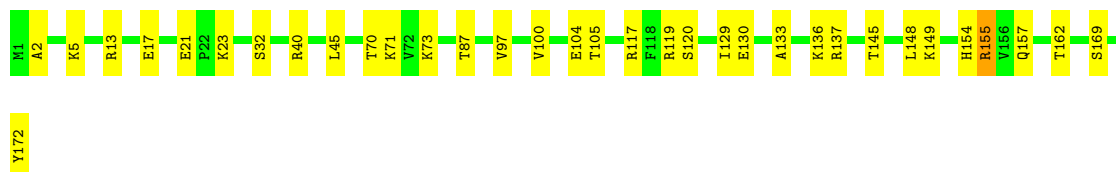
- Molecule 56: 60S ribosomal protein L20-A

Chain N0:



- Molecule 56: 60S ribosomal protein L20-A

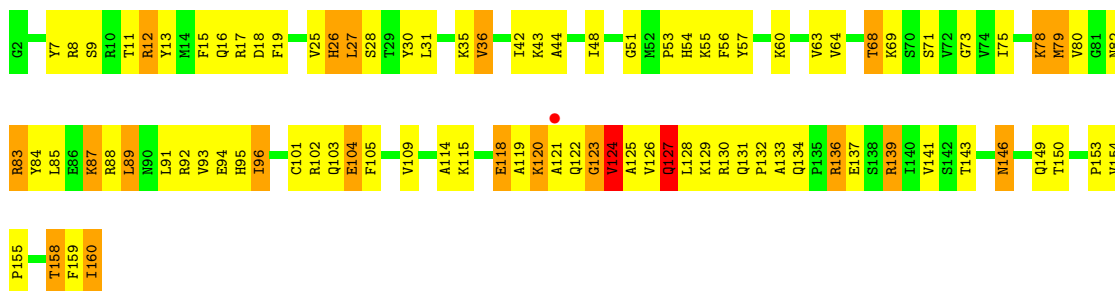
Chain n0:



- Molecule 57: 60S ribosomal protein L21-A

Chain N1:





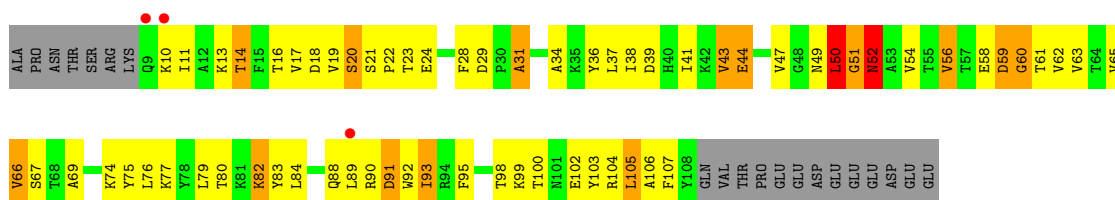
- Molecule 57: 60S ribosomal protein L21-A

Chain n1:



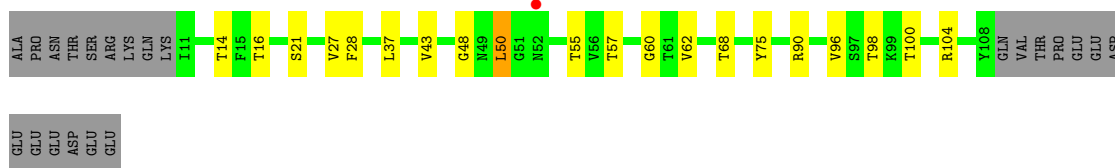
- Molecule 58: 60S ribosomal protein L22-A

Chain N2:



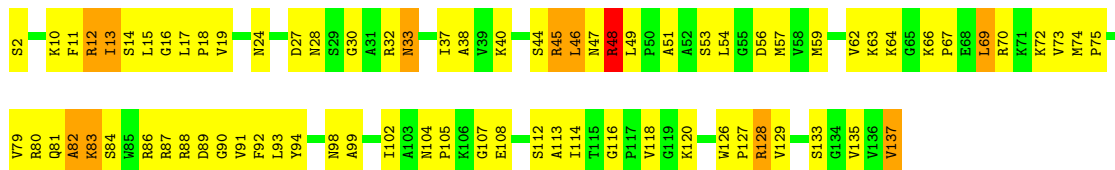
- Molecule 58: 60S ribosomal protein L22-A

Chain n2:



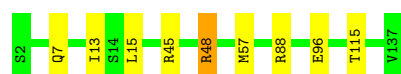
- Molecule 59: 60S ribosomal protein L23-A

Chain N3:



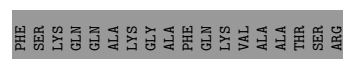
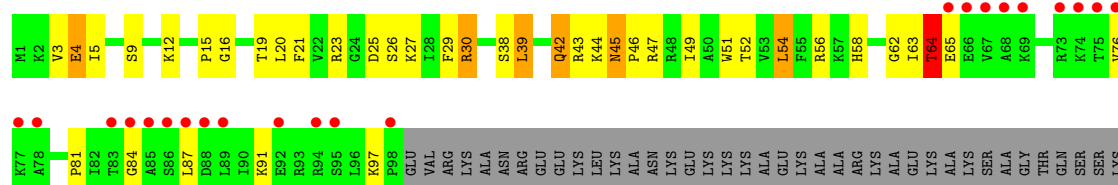
- Molecule 59: 60S ribosomal protein L23-A

Chain n3:



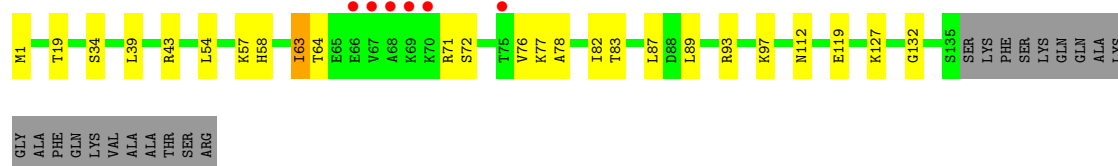
- Molecule 60: 60S ribosomal protein L24-A

Chain N4:



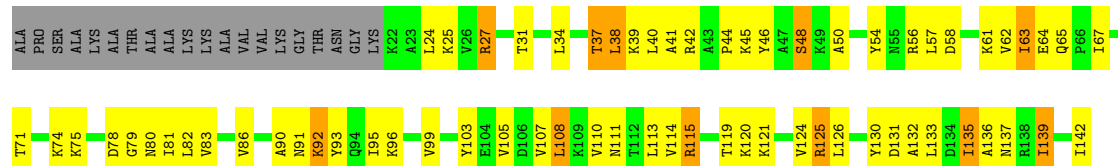
- Molecule 60: 60S ribosomal protein L24-A

Chain n4:



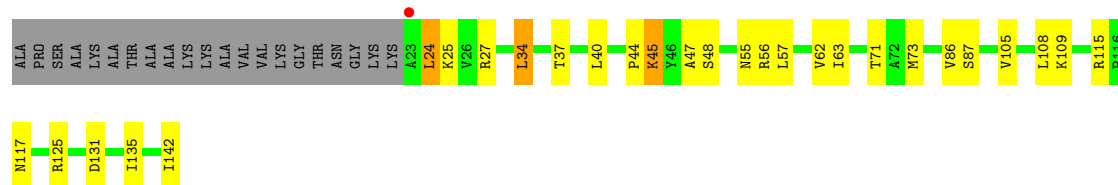
- Molecule 61: 60S ribosomal protein L25

Chain N5:



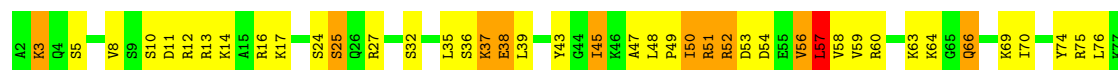
- Molecule 61: 60S ribosomal protein L25

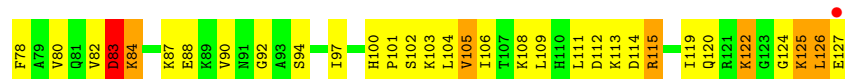
Chain n5:



- Molecule 62: 60S ribosomal protein L26-A

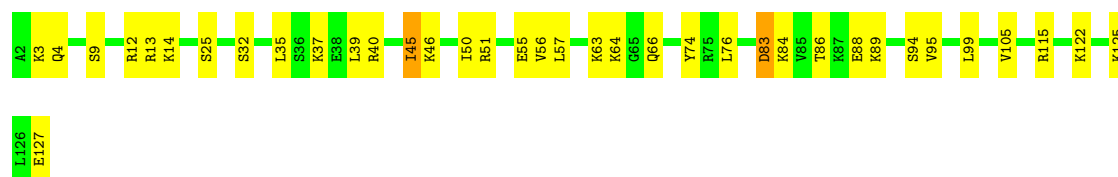
Chain N6:





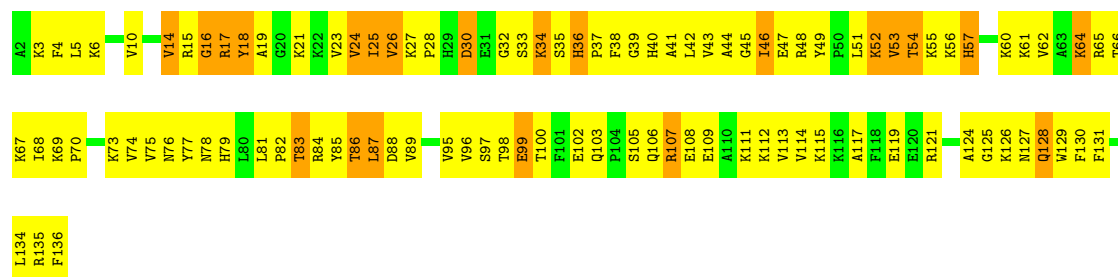
- Molecule 62: 60S ribosomal protein L26-A

Chain n6:



- Molecule 63: 60S ribosomal protein L27-A

Chain N7:



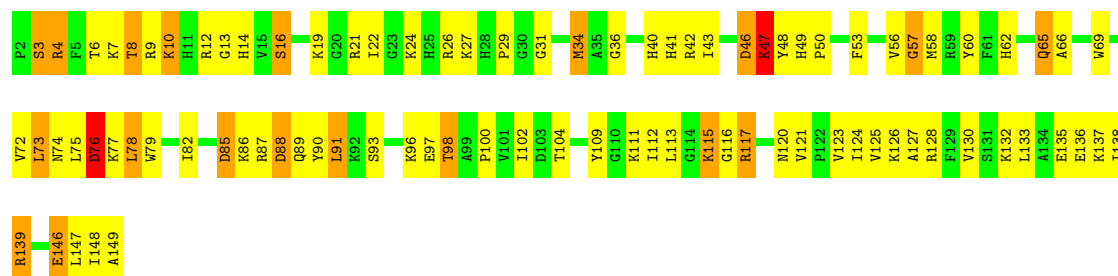
- Molecule 63: 60S ribosomal protein L27-A

Chain n7:



- Molecule 64: 60S ribosomal protein L28

Chain N8:



- Molecule 64: 60S ribosomal protein L28

Chain n8:



- Molecule 65: 60S ribosomal protein L29

Chain N9:



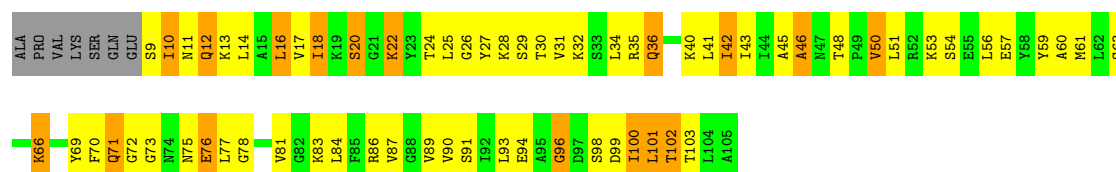
- Molecule 65: 60S ribosomal protein L29

Chain n9:



- Molecule 66: 60S ribosomal protein L30

Chain O0:



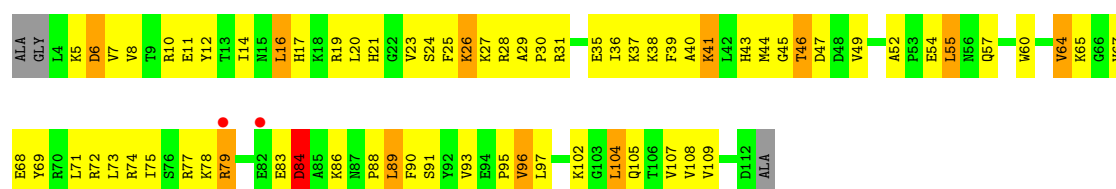
- Molecule 66: 60S ribosomal protein L30

Chain o0:



- Molecule 67: 60S ribosomal protein L31-A

Chain O1:



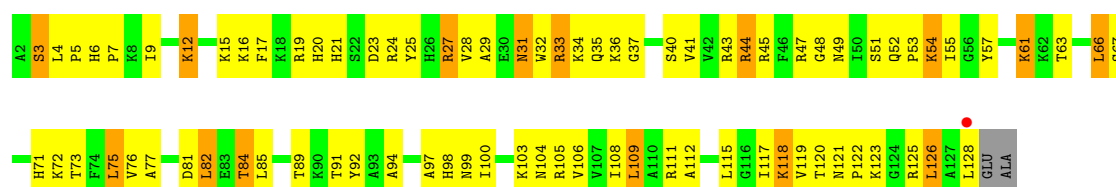
- Molecule 67: 60S ribosomal protein L31-A

Chain o1:



- Molecule 68: 60S ribosomal protein L32

Chain O2:



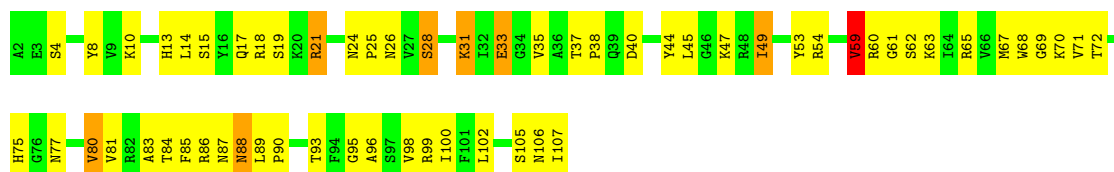
- Molecule 68: 60S ribosomal protein L32

Chain o2: 



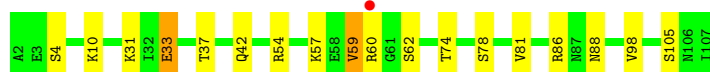
- Molecule 69: 60S ribosomal protein L33-A

Chain O3: 



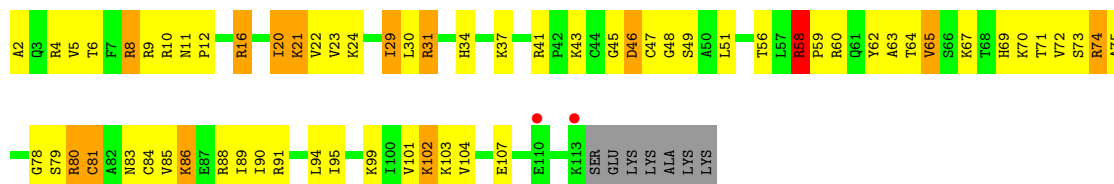
- Molecule 69: 60S ribosomal protein L33-A

Chain o3: 



- Molecule 70: 60S ribosomal protein L34-A

Chain O4: 



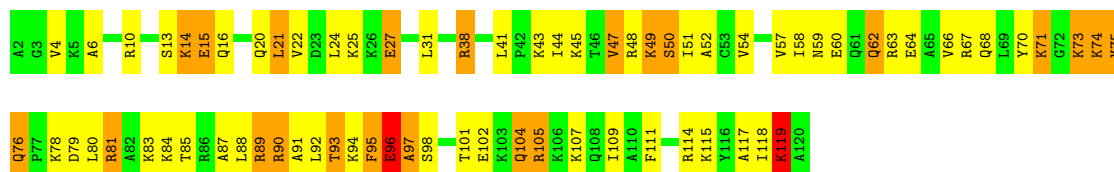
- Molecule 70: 60S ribosomal protein L34-A

Chain o4: 



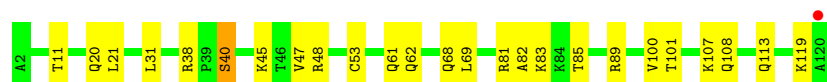
- Molecule 71: 60S ribosomal protein L35-A

Chain O5: 



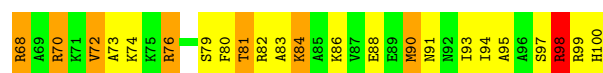
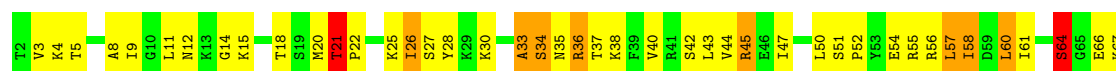
- Molecule 71: 60S ribosomal protein L35-A

Chain o5: 



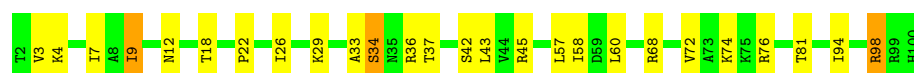
- Molecule 72: 60S ribosomal protein L36-A

Chain O6:



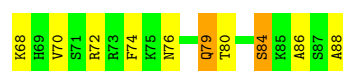
- Molecule 72: 60S ribosomal protein L36-A

Chain o6:



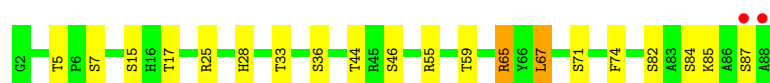
- Molecule 73: 60S ribosomal protein L37-A

Chain O7:



- Molecule 73: 60S ribosomal protein L37-A

Chain o7:



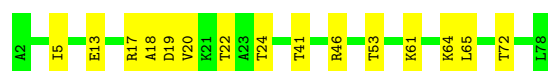
- Molecule 74: 60S ribosomal protein L38

Chain O8:



- Molecule 74: 60S ribosomal protein L38

Chain o8:



- Molecule 75: 60S ribosomal protein L39

Chain O9:



- Molecule 75: 60S ribosomal protein L39

Chain o9:



- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain Q0:



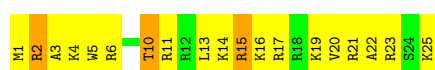
- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain q0:



- Molecule 77: 60S ribosomal protein L41-A

Chain Q1:



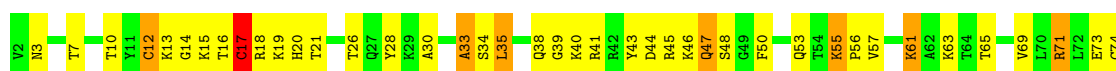
- Molecule 77: 60S ribosomal protein L41-A

Chain q1:



- Molecule 78: 60S ribosomal protein L42-A

Chain Q2:



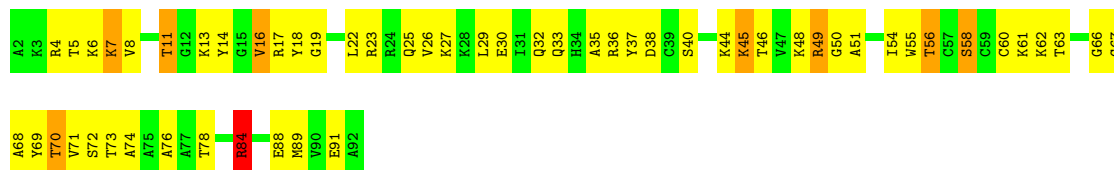
- Molecule 78: 60S ribosomal protein L42-A

Chain q2:



- Molecule 79: 60S ribosomal protein L43-A

Chain Q3:



- Molecule 79: 60S ribosomal protein L43-A

Chain q3:



- Molecule 80: 40S ribosomal protein S10-A

Chain c0:



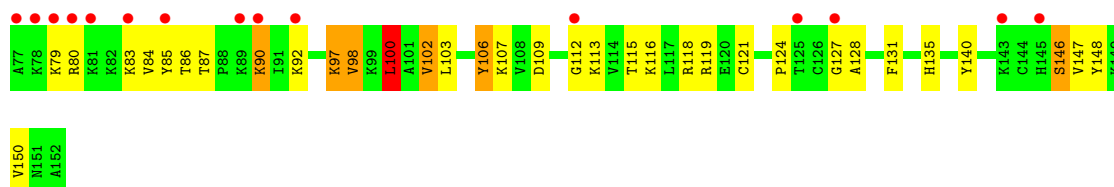
- Molecule 81: 40S ribosomal protein S30-A

Chain e0:



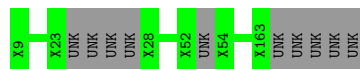
- Molecule 82: Ubiquitin-40S ribosomal protein S31

Chain e1:



- Molecule 83: UNKNOWN PROTEIN m2

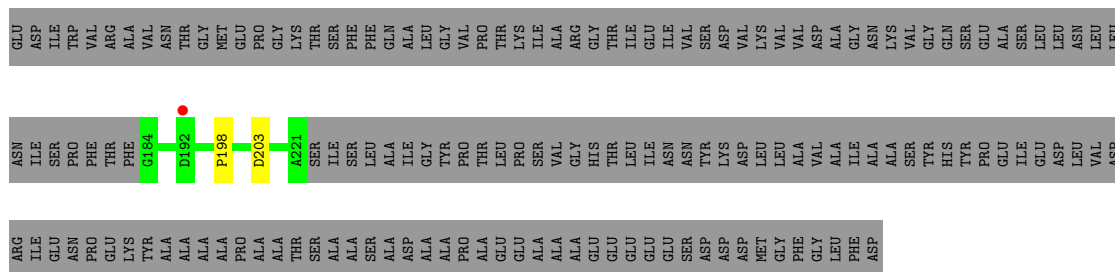
Chain m2:



- Molecule 84: 60S acidic ribosomal protein P0

Chain p0:





- Molecule 85: UNKNOWN PROTEIN p1

Chain p1: 

There are no outlier residues recorded for this chain.

- Molecule 86: UNKNOWN PROTEIN p2

Chain p2: 

There are no outlier residues recorded for this chain.

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	436.02Å 287.59Å 304.52Å 90.00° 99.02° 90.00°	Depositor
Resolution (Å)	49.82 – 3.20 49.82 – 3.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (49.82-3.20) 99.9 (49.82-3.20)	Depositor EDS
R_{merge}	0.31	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.45 (at 3.19Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.4_1496)	Depositor
R, R_{free}	0.181 , 0.237 0.259 , 0.299	Depositor DCC
R_{free} test set	24045 reflections (1.98%)	DCC
Wilson B-factor (Å ²)	70.5	Xtriage
Anisotropy	0.157	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 48.6	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Outliers	1 of 1214488 reflections (0.000%)	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	411288	wwPDB-VP
Average B, all atoms (Å ²)	70.0	wwPDB-VP

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

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	2	0.68	1/41698 (0.0%)	1.28	292/64972 (0.4%)
1	6	0.81	13/42765 (0.0%)	1.38	456/66634 (0.7%)
2	S0	0.43	0/1617	0.67	0/2215
2	s0	0.49	0/1623	0.72	0/2222
3	S1	0.37	0/1735	0.69	2/2335 (0.1%)
3	s1	0.51	0/1748	0.70	1/2352 (0.0%)
4	S2	0.45	0/1665	0.65	0/2263
4	s2	0.54	0/1665	0.72	1/2263 (0.0%)
5	S3	0.45	0/1759	0.68	2/2368 (0.1%)
5	s3	0.45	0/1759	0.60	0/2368
6	S4	0.47	0/2109	0.71	0/2839
6	s4	0.52	0/2109	0.75	2/2839 (0.1%)
7	S5	0.38	0/1629	0.60	0/2202
7	s5	0.46	0/1629	0.71	1/2202 (0.0%)
8	S6	0.45	0/1823	0.63	1/2439 (0.0%)
8	s6	0.51	0/1779	0.68	0/2379
9	S7	0.42	0/1506	0.63	0/2028
9	s7	0.44	0/1516	0.70	1/2043 (0.0%)
10	S8	0.51	0/1514	0.76	1/2021 (0.0%)
10	s8	0.59	0/1514	0.77	1/2021 (0.0%)
11	S9	0.43	0/1519	0.65	0/2035
11	s9	0.53	0/1519	0.75	1/2035 (0.0%)
12	C0	0.43	0/790	0.66	1/1069 (0.1%)
13	C1	0.55	0/1240	0.69	0/1675
13	c1	0.60	0/1194	0.80	2/1610 (0.1%)
14	C2	0.35	0/900	0.65	1/1224 (0.1%)
14	c2	0.32	0/900	0.60	1/1224 (0.1%)
15	C3	0.47	0/1215	0.69	3/1638 (0.2%)
15	c3	0.54	0/1215	0.75	1/1638 (0.1%)
16	C4	0.37	0/901	0.64	0/1217
16	c4	0.52	0/960	0.73	0/1290
17	C5	0.44	0/998	0.66	0/1341

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	c5	0.47	0/1060	0.66	0/1426
18	C6	0.43	0/1125	0.69	2/1510 (0.1%)
18	c6	0.48	0/1131	0.71	1/1518 (0.1%)
19	C7	0.40	0/935	0.66	0/1254
19	c7	0.48	0/914	0.72	0/1224
20	C8	0.43	0/1211	0.66	1/1628 (0.1%)
20	c8	0.50	0/1211	0.70	2/1628 (0.1%)
21	C9	0.44	0/1130	0.67	1/1517 (0.1%)
21	c9	0.49	0/1130	0.72	2/1517 (0.1%)
22	D0	0.45	0/865	0.66	0/1169
22	d0	0.49	0/892	0.70	0/1205
23	D1	0.39	0/693	0.59	0/935
23	d1	0.49	0/693	0.70	0/935
24	D2	0.46	0/1038	0.75	2/1395 (0.1%)
24	d2	0.64	0/1038	0.78	1/1395 (0.1%)
25	D3	0.58	0/1139	0.74	0/1518
25	d3	0.64	0/1139	0.82	2/1518 (0.1%)
26	D4	0.41	0/1087	0.59	0/1449
26	d4	0.51	0/1087	0.69	0/1449
27	D5	0.39	0/571	0.77	2/768 (0.3%)
27	d5	0.42	0/566	0.69	0/761
28	D6	0.40	0/782	0.60	0/1047
28	d6	0.53	0/782	0.69	0/1047
29	D7	0.42	0/620	0.68	0/838
29	d7	0.44	0/620	0.68	0/838
30	D8	0.34	0/499	0.62	0/670
30	d8	0.38	0/499	0.64	0/670
31	D9	0.50	0/452	0.74	1/600 (0.2%)
31	d9	0.56	0/452	0.71	0/600
32	E0	0.40	0/483	0.64	0/643
33	E1	0.41	0/577	0.78	0/770
34	SR	0.39	0/2494	0.63	0/3393
34	sR	0.39	0/2495	0.60	0/3395
35	SM	0.45	0/1113	0.68	2/1502 (0.1%)
35	sM	0.41	0/683	0.63	1/923 (0.1%)
36	1	1.01	59/75394 (0.1%)	1.57	1453/117545 (1.2%)
36	5	1.05	74/75414 (0.1%)	1.58	1442/117575 (1.2%)
37	3	0.87	0/2883	1.32	14/4491 (0.3%)
37	7	1.02	1/2883 (0.0%)	1.60	54/4491 (1.2%)
38	4	0.95	1/3746 (0.0%)	1.51	47/5832 (0.8%)
38	8	0.89	0/3746	1.43	43/5832 (0.7%)
39	L2	0.65	0/1948	0.81	2/2617 (0.1%)
39	l2	0.64	0/1946	0.83	0/2614

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
40	L3	0.62	0/3146	0.77	0/4228
40	l3	0.76	0/3146	0.84	3/4228 (0.1%)
41	L4	0.70	1/2800 (0.0%)	0.88	3/3790 (0.1%)
41	l4	0.68	1/2800 (0.0%)	0.85	3/3790 (0.1%)
42	L5	0.51	0/2425	0.67	0/3271
42	l5	0.65	0/2408	0.76	0/3248
43	L6	0.65	0/1260	0.79	0/1694
43	l6	0.66	0/1269	0.76	1/1705 (0.1%)
44	L7	0.68	0/1821	0.85	2/2451 (0.1%)
44	l7	0.74	0/1828	0.80	2/2461 (0.1%)
45	L8	0.51	0/1836	0.69	0/2481
45	l8	0.52	0/1795	0.67	0/2429
46	L9	0.60	0/1539	0.71	0/2073
46	l9	0.70	0/1539	0.80	0/2073
47	M0	0.64	0/1741	0.76	2/2335 (0.1%)
47	m0	0.67	0/1758	0.80	3/2358 (0.1%)
48	M1	0.49	0/1374	0.71	1/1842 (0.1%)
48	m1	0.59	0/1374	0.81	2/1842 (0.1%)
49	M3	0.68	0/1568	0.80	1/2106 (0.0%)
49	m3	0.61	0/1573	0.78	0/2113
50	M4	0.61	0/1068	0.74	0/1438
50	m4	0.68	0/1074	0.80	1/1446 (0.1%)
51	M5	0.65	0/1757	0.79	1/2354 (0.0%)
51	m5	0.64	0/1757	0.77	0/2354
52	M6	0.70	0/1585	0.86	3/2128 (0.1%)
52	m6	0.84	0/1585	0.92	3/2128 (0.1%)
53	M7	0.67	0/1443	0.80	1/1944 (0.1%)
53	m7	0.78	0/1250	0.81	0/1683
54	M8	0.67	0/1465	0.85	2/1965 (0.1%)
54	m8	0.66	0/1465	0.86	2/1965 (0.1%)
55	M9	0.51	0/1538	0.66	0/2050
55	m9	0.57	0/1538	0.65	0/2050
56	N0	0.64	0/1481	0.82	3/1990 (0.2%)
56	n0	0.73	0/1481	0.83	2/1990 (0.1%)
57	N1	0.68	0/1300	0.79	0/1743
57	n1	0.74	0/1300	0.79	0/1743
58	N2	0.44	0/812	0.63	0/1099
58	n2	0.46	0/794	0.62	0/1076
59	N3	0.62	0/1018	0.78	1/1369 (0.1%)
59	n3	0.69	0/1018	0.83	1/1369 (0.1%)
60	N4	0.50	0/712	0.64	0/958
60	n4	0.61	0/1052	0.70	0/1398
61	N5	0.53	0/979	0.74	1/1321 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
61	n5	0.58	0/974	0.74	1/1314 (0.1%)
62	N6	0.63	0/1004	0.82	1/1341 (0.1%)
62	n6	0.57	0/1004	0.78	1/1341 (0.1%)
63	N7	0.49	0/1118	0.66	0/1497
63	n7	0.47	0/1118	0.67	0/1497
64	N8	0.72	0/1204	0.86	1/1612 (0.1%)
64	n8	0.69	0/1204	0.82	0/1612
65	N9	0.60	0/473	0.78	0/629
65	n9	0.63	0/473	0.89	1/629 (0.2%)
66	O0	0.47	0/751	0.64	0/1008
66	o0	0.49	0/775	0.69	0/1040
67	O1	0.60	0/890	0.74	0/1196
67	o1	0.66	0/897	0.81	0/1205
68	O2	0.79	0/1041	0.87	0/1394
68	o2	0.74	0/1041	0.87	2/1394 (0.1%)
69	O3	0.79	0/868	0.85	0/1168
69	o3	0.79	0/868	0.83	0/1168
70	O4	0.59	0/890	0.79	2/1189 (0.2%)
70	o4	0.57	0/890	0.81	0/1189
71	O5	0.62	0/978	0.77	0/1301
71	o5	0.53	0/974	0.67	0/1297
72	O6	0.57	0/778	0.74	0/1034
72	o6	0.55	0/777	0.70	0/1033
73	O7	0.67	0/696	0.94	4/923 (0.4%)
73	o7	0.64	0/696	0.81	1/923 (0.1%)
74	O8	0.48	0/618	0.64	1/826 (0.1%)
74	o8	0.45	0/614	0.64	0/822
75	O9	0.64	0/443	0.83	0/588
75	o9	0.63	0/443	0.76	0/588
76	Q0	0.64	0/423	0.73	0/562
76	q0	0.81	1/423 (0.2%)	0.85	0/562
77	Q1	0.66	0/234	0.84	0/300
77	q1	0.65	0/234	0.98	2/300 (0.7%)
78	Q2	0.74	1/860 (0.1%)	0.83	0/1136
78	q2	0.69	0/860	0.79	1/1136 (0.1%)
79	Q3	0.67	0/701	0.77	0/934
79	q3	0.65	0/701	0.80	0/934
80	c0	0.40	0/777	0.66	3/1049 (0.3%)
81	e0	0.49	0/499	0.72	0/665
82	e1	0.38	0/619	0.74	1/822 (0.1%)
84	p0	0.44	0/1092	0.63	1/1474 (0.1%)
All	All	0.80	153/430074 (0.0%)	1.26	3913/631364 (0.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	s1	0	1
7	s5	0	2
9	S7	0	1
9	s7	0	1
10	s8	0	1
13	C1	0	1
15	c3	0	1
16	C4	0	1
17	c5	0	1
18	C6	0	1
18	c6	0	1
19	C7	0	2
19	c7	0	3
22	d0	0	1
25	D3	0	1
26	d4	0	2
27	D5	0	3
27	d5	0	1
33	E1	0	1
39	L2	0	1
39	l2	0	2
42	l5	0	2
43	l6	0	1
44	l7	0	2
45	L8	0	2
48	M1	0	2
51	m5	0	1
52	M6	0	1
52	m6	0	1
56	N0	0	2
56	n0	0	1
57	N1	0	1
60	n4	0	1
63	n7	0	1
64	n8	0	2
65	N9	0	1
65	n9	0	1
82	e1	0	1
All	All	0	52

All (153) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1152	G	N9-C4	-11.64	1.28	1.38
36	5	3008	A	N9-C4	-8.98	1.32	1.37
36	5	2358	A	N9-C4	-8.04	1.33	1.37
36	1	1114	U	C2-N3	-7.72	1.32	1.37
36	1	2714	G	N9-C4	-7.69	1.31	1.38
36	1	338	A	N7-C5	-7.29	1.34	1.39
36	5	1152	G	N3-C4	-7.21	1.30	1.35
36	5	2280	A	N9-C4	-7.10	1.33	1.37
36	1	884	A	N9-C4	-6.99	1.33	1.37
36	5	3008	A	N3-C4	-6.99	1.30	1.34
36	1	2197	C	C2-O2	6.95	1.30	1.24
36	5	2147	A	C5-C6	-6.88	1.34	1.41
36	1	2983	C	N3-C4	-6.78	1.29	1.33
36	5	1451	C	N1-C6	-6.74	1.33	1.37
1	6	163	G	N9-C4	-6.72	1.32	1.38
1	2	1754	A	N9-C4	-6.71	1.33	1.37
78	Q2	17	CYS	CB-SG	6.67	1.93	1.82
36	5	1178	G	C5-C6	-6.63	1.35	1.42
36	1	1446	A	N3-C4	-6.63	1.30	1.34
36	1	2714	G	N9-C8	6.60	1.42	1.37
36	5	2733	A	N3-C4	-6.55	1.30	1.34
1	6	1744	A	N9-C4	-6.55	1.33	1.37
36	1	2188	A	N9-C4	-6.54	1.33	1.37
36	5	2890	A	N7-C5	-6.53	1.35	1.39
36	5	1143	A	N9-C4	-6.53	1.33	1.37
36	5	2726	C	N3-C4	-6.50	1.29	1.33
36	5	1152	G	N9-C8	6.49	1.42	1.37
36	1	2355	G	N7-C5	-6.46	1.35	1.39
36	5	1443	G	N1-C2	-6.37	1.32	1.37
36	5	2139	A	N3-C4	-6.36	1.31	1.34
36	5	2386	A	N7-C5	-6.29	1.35	1.39
36	1	1158	A	N7-C5	-6.29	1.35	1.39
36	5	3245	A	C5-C6	-6.27	1.35	1.41
36	5	2640	A	N9-C4	-6.08	1.34	1.37
37	7	89	G	N9-C8	-6.08	1.33	1.37
36	1	2384	A	N9-C4	6.06	1.41	1.37
1	6	359	A	N9-C4	-6.02	1.34	1.37
36	1	804	C	N1-C6	-6.01	1.33	1.37
36	1	361	A	N3-C4	-6.01	1.31	1.34
1	6	337	G	C2-N3	5.98	1.37	1.32
36	1	942	U	C4-O4	5.98	1.28	1.23
36	5	2647	A	N9-C4	-5.95	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	21	G	N9-C4	-5.92	1.33	1.38
36	5	1374	G	N1-C2	-5.88	1.33	1.37
41	L4	94	CYS	CB-SG	-5.88	1.72	1.81
76	q0	99	CYS	CB-SG	-5.86	1.72	1.81
36	5	1374	G	C6-N1	-5.85	1.35	1.39
36	5	3039	C	N1-C6	-5.82	1.33	1.37
36	5	3040	A	N7-C5	-5.78	1.35	1.39
1	6	119	A	N9-C4	-5.78	1.34	1.37
36	1	2871	G	N7-C5	5.77	1.42	1.39
36	5	2385	G	N9-C4	-5.76	1.33	1.38
36	1	361	A	N9-C4	-5.72	1.34	1.37
36	5	847	A	N9-C4	-5.72	1.34	1.37
36	1	1154	A	N3-C4	-5.72	1.31	1.34
36	5	2617	U	N1-C2	-5.72	1.33	1.38
41	l4	94	CYS	CB-SG	-5.71	1.72	1.81
36	5	523	A	N9-C4	-5.70	1.34	1.37
36	5	2804	A	N9-C4	-5.70	1.34	1.37
36	5	804	C	N1-C6	-5.65	1.33	1.37
36	5	1188	U	C2-N3	-5.64	1.33	1.37
36	1	653	A	N7-C5	-5.63	1.35	1.39
36	1	2422	C	N3-C4	-5.62	1.30	1.33
1	6	163	G	N3-C4	-5.62	1.31	1.35
36	5	3215	A	N9-C4	-5.58	1.34	1.37
36	1	1154	A	C6-N1	-5.58	1.31	1.35
36	5	2910	A	N9-C4	-5.57	1.34	1.37
36	5	2971	A	N9-C4	5.57	1.41	1.37
36	1	426	G	N1-C2	-5.57	1.33	1.37
38	4	111	A	N7-C5	-5.55	1.35	1.39
36	5	1847	A	N9-C4	-5.55	1.34	1.37
36	5	2639	G	N7-C5	-5.55	1.35	1.39
36	5	2811	A	C6-N1	-5.54	1.31	1.35
36	5	1372	C	N1-C6	-5.54	1.33	1.37
1	6	1655	A	N7-C5	-5.53	1.35	1.39
36	5	2318	U	C2-N3	-5.52	1.33	1.37
36	1	706	A	N9-C4	-5.51	1.34	1.37
36	5	2144	A	N9-C4	5.51	1.41	1.37
36	1	653	A	C5-C6	-5.50	1.36	1.41
36	5	2379	U	N3-C4	-5.50	1.33	1.38
36	5	1922	A	N9-C4	-5.49	1.34	1.37
36	5	3103	A	N3-C4	-5.48	1.31	1.34
36	1	1394	A	N9-C4	-5.44	1.34	1.37
36	5	2696	A	N3-C4	-5.42	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1150	A	N9-C4	-5.41	1.34	1.37
36	1	1164	G	N3-C4	-5.39	1.31	1.35
36	5	1152	G	N1-C2	5.38	1.42	1.37
36	1	2611	U	C2-N3	-5.38	1.33	1.37
36	5	2243	A	N3-C4	-5.38	1.31	1.34
36	1	3129	A	N9-C4	-5.37	1.34	1.37
36	1	3008	A	N9-C4	-5.36	1.34	1.37
36	5	2762	A	N9-C4	-5.36	1.34	1.37
36	1	949	C	N1-C6	-5.36	1.33	1.37
36	1	1883	A	N9-C4	-5.36	1.34	1.37
36	5	61	A	N3-C4	-5.36	1.31	1.34
36	5	1148	G	N9-C8	-5.36	1.34	1.37
1	6	65	A	N9-C4	-5.35	1.34	1.37
36	5	1443	G	C6-N1	-5.35	1.35	1.39
36	1	3123	A	N9-C4	-5.34	1.34	1.37
36	1	816	A	C8-N7	5.34	1.35	1.31
36	1	2946	A	N7-C5	-5.33	1.36	1.39
36	1	2640	A	C6-N1	-5.32	1.31	1.35
36	5	611	A	N7-C5	-5.32	1.36	1.39
36	5	884	A	N9-C4	-5.31	1.34	1.37
36	5	421	G	N1-C2	-5.31	1.33	1.37
36	1	1369	A	N9-C4	-5.29	1.34	1.37
36	5	3209	A	C5-C4	5.29	1.42	1.38
1	6	1655	A	C5-C4	-5.26	1.35	1.38
1	6	17	C	N3-C4	-5.26	1.30	1.33
36	5	647	A	N3-C4	-5.24	1.31	1.34
36	1	2953	U	C4-O4	5.23	1.27	1.23
36	1	1164	G	N9-C4	-5.23	1.33	1.38
36	5	420	G	N9-C8	-5.23	1.34	1.37
36	1	646	A	N7-C5	-5.22	1.36	1.39
36	1	1305	U	C2-O2	5.20	1.27	1.22
36	1	361	A	C6-N1	-5.20	1.31	1.35
36	1	970	A	N3-C4	-5.19	1.31	1.34
36	1	1369	A	N7-C5	-5.18	1.36	1.39
36	5	2163	C	N1-C6	-5.18	1.34	1.37
36	1	2232	A	N9-C4	-5.18	1.34	1.37
1	6	387	A	N9-C4	5.18	1.41	1.37
36	5	2650	U	C4-O4	-5.18	1.19	1.23
36	5	953	G	C5-C4	-5.17	1.34	1.38
36	1	61	A	N3-C4	-5.17	1.31	1.34
36	5	2910	A	N3-C4	-5.17	1.31	1.34
36	1	1330	A	C5-C6	-5.16	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2398	A	C6-N1	-5.16	1.31	1.35
36	5	3172	A	N9-C4	-5.15	1.34	1.37
36	1	3306	U	C2-N3	-5.14	1.34	1.37
36	5	367	A	N3-C4	-5.14	1.31	1.34
36	5	367	A	N9-C4	-5.13	1.34	1.37
36	5	2280	A	N3-C4	-5.11	1.31	1.34
36	5	970	A	N9-C4	-5.11	1.34	1.37
36	1	3316	A	N9-C4	-5.11	1.34	1.37
36	5	699	A	N9-C4	-5.10	1.34	1.37
36	1	432	G	N3-C4	-5.09	1.31	1.35
36	1	948	C	N3-C4	-5.09	1.30	1.33
36	5	3120	C	N1-C6	-5.09	1.34	1.37
36	1	1335	C	N1-C6	-5.08	1.34	1.37
1	6	542	A	N7-C5	-5.08	1.36	1.39
36	1	1308	A	N3-C4	-5.07	1.31	1.34
36	1	948	C	N1-C6	-5.06	1.34	1.37
36	5	1115	G	N7-C5	-5.05	1.36	1.39
36	5	2273	G	C5-C4	-5.04	1.34	1.38
36	1	345	G	N7-C5	-5.04	1.36	1.39
36	5	2363	A	N7-C5	-5.03	1.36	1.39
36	1	368	G	N7-C5	-5.02	1.36	1.39
36	1	699	A	N3-C4	-5.02	1.31	1.34
36	1	1858	A	N3-C4	-5.01	1.31	1.34
1	6	1775	U	C2-N3	-5.01	1.34	1.37
36	1	2169	G	C5-C6	5.01	1.47	1.42
36	5	2695	A	N3-C4	-5.01	1.31	1.34
36	5	1462	A	N9-C4	-5.00	1.34	1.37

All (3913) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1152	G	N3-C4-N9	-21.84	112.90	126.00
36	5	1152	G	N3-C4-C5	21.63	139.41	128.60
36	5	1152	G	C2-N3-C4	-18.18	102.81	111.90
36	1	2714	G	N3-C4-C5	17.75	137.47	128.60
36	1	1308	A	O5'-P-OP2	-16.96	90.35	110.70
36	1	2714	G	N3-C4-N9	-16.21	116.27	126.00
36	5	1116	G	O5'-P-OP1	-14.88	92.31	105.70
1	6	163	G	N3-C4-N9	-13.88	117.67	126.00
36	5	2199	G	N1-C6-O6	13.59	128.05	119.90
36	5	3245	A	C2-N3-C4	-13.07	104.07	110.60
36	1	1116	G	O5'-P-OP1	-12.94	94.05	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1897	G	N1-C6-O6	12.87	127.62	119.90
36	5	922	U	C5-C6-N1	-12.80	116.30	122.70
36	1	435	C	C6-N1-C2	12.71	125.38	120.30
36	1	1495	U	C5-C6-N1	-12.62	116.39	122.70
36	5	2818	U	O5'-P-OP1	-12.54	94.42	105.70
36	5	1902	G	N1-C6-O6	12.47	127.38	119.90
36	5	2726	C	C5-C4-N4	12.22	128.76	120.20
36	5	3245	A	C5-N7-C8	-12.18	97.81	103.90
1	2	1200	G	N1-C6-O6	12.14	127.18	119.90
36	5	874	U	O5'-P-OP1	-11.95	94.94	105.70
36	1	637	C	C6-N1-C2	11.88	125.05	120.30
36	5	283	G	C4-C5-N7	11.84	115.53	110.80
36	1	2283	G	N1-C6-O6	11.78	126.97	119.90
36	5	2282	U	O5'-P-OP1	-11.75	95.13	105.70
36	5	3245	A	N1-C6-N6	11.69	125.62	118.60
36	1	2870	C	N3-C4-C5	11.52	126.51	121.90
36	5	1902	G	C6-C5-N7	-11.19	123.68	130.40
36	5	1152	G	C8-N9-C1'	11.15	141.49	127.00
36	1	3306	U	C5-C4-O4	11.14	132.58	125.90
36	5	1307	G	P-O3'-C3'	11.13	133.06	119.70
36	5	806	A	O5'-P-OP1	-11.12	95.69	105.70
36	1	343	U	O5'-P-OP2	-11.09	95.72	105.70
36	1	2725	U	C5-C4-O4	11.04	132.52	125.90
36	1	608	A	N1-C6-N6	11.02	125.21	118.60
36	5	2819	A	O5'-P-OP2	-11.00	95.80	105.70
1	6	1029	U	C5-C4-O4	10.89	132.43	125.90
36	1	1149	G	N1-C6-O6	10.84	126.40	119.90
36	5	1897	G	C5-C6-O6	-10.83	122.10	128.60
38	4	94	C	C6-N1-C2	10.81	124.62	120.30
1	6	1773	C	N3-C4-C5	-10.79	117.58	121.90
36	1	639	G	C5-C6-O6	-10.77	122.14	128.60
36	1	2714	G	C2-N3-C4	-10.73	106.54	111.90
36	5	1897	G	C4-C5-N7	10.73	115.09	110.80
36	5	1152	G	C5-N7-C8	-10.71	98.94	104.30
36	1	2797	C	O5'-P-OP1	-10.71	96.06	105.70
36	5	424	G	C5-C6-O6	-10.70	122.18	128.60
36	5	2211	U	C4-C5-C6	10.70	126.12	119.70
36	5	2726	C	N3-C4-N4	-10.66	110.53	118.00
36	5	1909	A	C8-N9-C4	10.66	110.06	105.80
36	1	639	G	N1-C6-O6	10.62	126.28	119.90
1	6	163	G	N3-C4-C5	10.54	133.87	128.60
36	5	1178	G	C5-C6-O6	-10.50	122.30	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1149	G	C5-C6-O6	-10.50	122.30	128.60
36	5	3245	A	C4-C5-N7	10.49	115.95	110.70
1	2	1280	C	N3-C4-C5	-10.48	117.71	121.90
1	2	1039	A	O4'-C1'-N9	10.46	116.57	108.20
36	5	2283	G	C5-C6-O6	-10.44	122.34	128.60
37	7	120	C	C6-N1-C2	10.43	124.47	120.30
36	1	776	U	C4-C5-C6	10.39	125.94	119.70
36	1	2617	U	C5-C4-O4	10.39	132.13	125.90
36	1	1368	U	O5'-P-OP1	-10.38	96.36	105.70
36	5	3245	A	N7-C8-N9	10.34	118.97	113.80
36	5	2147	A	N1-C6-N6	10.27	124.77	118.60
36	5	2272	G	O4'-C1'-N9	10.26	116.41	108.20
36	1	3306	U	N3-C4-O4	-10.26	112.22	119.40
36	5	2283	G	N1-C6-O6	10.26	126.05	119.90
36	5	2830	G	N1-C2-N3	10.19	130.01	123.90
36	5	3245	A	C6-C5-N7	-10.18	125.17	132.30
36	5	1316	C	N1-C2-O2	-10.15	112.81	118.90
1	6	1537	C	C6-N1-C2	-10.14	116.24	120.30
36	1	1381	A	O5'-P-OP2	10.14	122.86	110.70
36	1	2803	A	O5'-P-OP1	-10.11	96.60	105.70
36	5	2524	A	O4'-C1'-N9	10.09	116.27	108.20
1	6	47	A	O5'-P-OP1	-10.07	96.64	105.70
36	5	2620	G	N1-C6-O6	-10.04	113.87	119.90
36	5	1897	G	C6-C5-N7	-10.04	124.38	130.40
36	1	1437	C	C6-N1-C2	-9.99	116.30	120.30
38	4	99	C	C6-N1-C2	9.96	124.28	120.30
1	2	553	G	C5-C6-O6	-9.92	122.65	128.60
36	5	3218	A	N1-C6-N6	9.92	124.55	118.60
36	5	1148	G	C5-C6-O6	-9.89	122.67	128.60
36	1	2373	A	O5'-P-OP1	-9.87	96.82	105.70
36	1	3362	A	N7-C8-N9	9.84	118.72	113.80
36	1	1838	G	N1-C6-O6	9.81	125.79	119.90
36	1	2983	C	C5-C6-N1	-9.80	116.10	121.00
1	2	554	C	N1-C2-O2	9.79	124.78	118.90
36	1	3269	U	O5'-P-OP2	-9.78	96.90	105.70
36	1	3278	C	N1-C2-O2	9.77	124.76	118.90
1	6	542	A	O5'-P-OP1	-9.76	96.91	105.70
36	1	1495	U	C4-C5-C6	9.74	125.55	119.70
36	1	1367	G	N1-C6-O6	9.73	125.74	119.90
36	1	3362	A	C5-N7-C8	-9.70	99.05	103.90
36	5	1321	G	N1-C6-O6	9.68	125.71	119.90
36	1	1495	U	N1-C2-N3	9.68	120.71	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2354	C	N1-C2-O2	-9.67	113.10	118.90
36	5	1897	G	C5-N7-C8	-9.67	99.47	104.30
36	5	3115	C	N1-C2-O2	-9.66	113.11	118.90
36	1	2726	C	N3-C2-O2	-9.57	115.20	121.90
36	5	2234	G	C5-C6-O6	-9.53	122.89	128.60
36	5	1390	A	C8-N9-C4	-9.51	102.00	105.80
36	5	1178	G	C4-C5-N7	9.49	114.60	110.80
36	1	1192	C	N1-C2-O2	9.47	124.58	118.90
36	5	646	A	C2-N3-C4	-9.47	105.87	110.60
36	5	2282	U	O5'-P-OP2	9.45	122.05	110.70
36	1	2679	A	N1-C6-N6	9.45	124.27	118.60
36	5	1208	U	C5-C4-O4	9.45	131.57	125.90
36	1	2846	U	N3-C2-O2	-9.43	115.60	122.20
36	5	1152	G	C4-N9-C1'	-9.43	114.24	126.50
1	2	1200	G	C5-C6-O6	-9.39	122.97	128.60
1	2	1773	C	N3-C4-C5	-9.35	118.16	121.90
3	S1	218	LEU	CA-CB-CG	9.30	136.69	115.30
36	1	1849	C	N1-C2-O2	-9.30	113.32	118.90
1	2	453	U	N3-C2-O2	-9.29	115.69	122.20
36	1	770	G	O4'-C1'-N9	9.29	115.64	108.20
36	5	283	G	C5-C6-O6	-9.29	123.03	128.60
36	1	716	A	N1-C6-N6	9.26	124.15	118.60
37	7	92	A	N1-C6-N6	9.24	124.14	118.60
36	5	917	A	O5'-P-OP2	-9.23	97.39	105.70
36	5	2385	G	O5'-P-OP1	-9.22	97.40	105.70
36	5	2199	G	C5-C6-O6	-9.21	123.07	128.60
36	5	2385	G	N3-C4-C5	9.21	133.20	128.60
36	1	1365	G	N3-C4-C5	-9.18	124.01	128.60
38	4	113	U	C5-C6-N1	-9.18	118.11	122.70
36	1	776	U	C5-C6-N1	-9.16	118.12	122.70
36	5	2913	C	N1-C2-O2	-9.13	113.42	118.90
36	1	3377	G	N3-C4-N9	9.12	131.47	126.00
36	1	2846	U	C5-C4-O4	9.11	131.37	125.90
36	5	2899	C	C6-N1-C2	-9.10	116.66	120.30
36	1	2314	U	N3-C4-O4	9.05	125.73	119.40
36	5	966	U	N3-C2-O2	-9.05	115.87	122.20
36	1	2273	G	C8-N9-C4	9.04	110.02	106.40
36	1	2679	A	C2-N3-C4	-9.04	106.08	110.60
37	7	101	G	N1-C6-O6	9.03	125.32	119.90
36	5	437	G	N9-C4-C5	9.02	109.01	105.40
1	2	553	G	N1-C6-O6	9.01	125.31	119.90
36	1	2827	U	C5-C4-O4	9.00	131.30	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3306	U	N3-C2-O2	-8.99	115.91	122.20
36	5	2917	G	C5-C6-O6	-8.98	123.21	128.60
36	5	2156	C	C6-N1-C2	8.98	123.89	120.30
1	6	65	A	C2-N3-C4	-8.97	106.11	110.60
36	5	1848	G	C5-C6-O6	-8.97	123.22	128.60
36	1	1377	G	C5-C6-O6	-8.95	123.23	128.60
36	1	1113	G	N1-C6-O6	8.95	125.27	119.90
36	1	2726	C	N3-C4-N4	-8.95	111.74	118.00
36	5	406	G	O4'-C1'-N9	8.91	115.33	108.20
36	5	2199	G	C6-C5-N7	-8.90	125.06	130.40
36	5	942	U	N1-C2-O2	-8.90	116.57	122.80
36	1	2314	U	C2-N1-C1'	8.89	128.37	117.70
36	5	1316	C	N3-C4-C5	-8.89	118.34	121.90
36	5	1848	G	N1-C6-O6	8.88	125.23	119.90
1	2	565	C	C6-N1-C2	8.88	123.85	120.30
36	5	2935	U	O5'-P-OP2	-8.88	97.71	105.70
36	1	2355	G	C6-C5-N7	-8.88	125.08	130.40
36	5	1481	A	C8-N9-C4	-8.87	102.25	105.80
36	1	611	A	O5'-P-OP2	-8.86	97.73	105.70
36	1	1902	G	N1-C6-O6	8.85	125.21	119.90
48	m1	112	LEU	CA-CB-CG	8.85	135.65	115.30
36	5	1112	A	C6-N1-C2	-8.84	113.30	118.60
36	1	3057	U	N3-C2-O2	-8.83	116.02	122.20
36	1	2197	C	N1-C2-N3	-8.82	113.02	119.20
36	5	1143	A	C2-N3-C4	-8.82	106.19	110.60
36	1	406	G	O4'-C1'-N9	8.78	115.22	108.20
36	1	2827	U	N3-C4-O4	-8.78	113.25	119.40
36	1	312	C	C6-N1-C2	8.77	123.81	120.30
36	5	504	A	N1-C6-N6	8.75	123.85	118.60
36	5	2372	A	C8-N9-C4	-8.75	102.30	105.80
36	5	2954	U	C2-N1-C1'	8.74	128.18	117.70
36	5	1303	A	C8-N9-C4	8.72	109.29	105.80
36	1	3362	A	C6-C5-N7	-8.72	126.20	132.30
1	2	380	U	N3-C2-O2	-8.72	116.10	122.20
1	2	639	U	N3-C2-O2	-8.71	116.10	122.20
36	5	2354	C	N3-C4-C5	-8.71	118.42	121.90
36	1	2337	C	C6-N1-C2	-8.69	116.82	120.30
38	8	8	C	C6-N1-C2	-8.69	116.82	120.30
36	1	3377	G	C8-N9-C1'	-8.69	115.71	127.00
36	1	699	A	C2-N3-C4	-8.68	106.26	110.60
36	1	2865	U	N3-C4-C5	8.68	119.81	114.60
1	6	163	G	N3-C2-N2	-8.67	113.83	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2308	C	N1-C2-O2	-8.66	113.70	118.90
36	5	1200	A	C4-C5-C6	8.64	121.32	117.00
1	2	1773	C	C6-N1-C2	-8.63	116.85	120.30
36	1	2408	U	O5'-P-OP1	-8.64	97.93	105.70
36	5	1239	C	C5-C6-N1	8.64	125.32	121.00
1	2	1745	G	N3-C4-N9	8.62	131.17	126.00
36	5	1308	A	O5'-P-OP1	-8.62	97.94	105.70
36	5	942	U	N3-C4-O4	8.61	125.43	119.40
1	6	647	G	N3-C4-N9	-8.60	120.84	126.00
36	5	2317	A	O5'-P-OP2	-8.60	97.96	105.70
36	1	1489	A	N1-C6-N6	8.59	123.75	118.60
36	5	2341	A	C8-N9-C4	8.59	109.24	105.80
1	6	1745	G	N3-C4-N9	8.59	131.15	126.00
36	5	1305	U	O5'-P-OP1	-8.58	97.97	105.70
36	1	2572	C	C2-N1-C1'	8.57	128.23	118.80
36	5	437	G	C8-N9-C4	-8.57	102.97	106.40
36	1	1535	A	N1-C6-N6	8.57	123.74	118.60
36	1	2550	U	N3-C2-O2	-8.57	116.20	122.20
36	5	934	G	N3-C4-N9	8.54	131.13	126.00
36	1	3362	A	N1-C6-N6	8.54	123.72	118.60
36	1	2617	U	N1-C2-N3	8.53	120.02	114.90
36	5	3143	C	N1-C2-O2	-8.52	113.79	118.90
36	5	644	G	C4-C5-N7	-8.51	107.39	110.80
36	5	2724	U	C6-N1-C2	-8.50	115.90	121.00
36	1	2283	G	C8-N9-C4	8.49	109.80	106.40
36	5	2680	A	N1-C6-N6	-8.49	113.51	118.60
36	5	1152	G	N3-C2-N2	-8.48	113.96	119.90
36	1	1838	G	C6-C5-N7	-8.48	125.31	130.40
36	5	2288	G	C5-C6-O6	-8.48	123.51	128.60
1	6	1793	G	N1-C6-O6	-8.48	114.81	119.90
37	7	101	G	C5-C6-O6	-8.47	123.52	128.60
36	1	3344	A	C2-N3-C4	-8.47	106.36	110.60
36	1	2996	U	C2-N1-C1'	8.47	127.86	117.70
36	5	424	G	C4-C5-N7	8.45	114.18	110.80
37	7	81	U	N3-C4-O4	-8.44	113.49	119.40
36	1	3362	A	O4'-C1'-N9	8.44	114.95	108.20
36	5	1755	C	C6-N1-C2	8.43	123.67	120.30
1	2	1269	U	C2-N1-C1'	8.42	127.80	117.70
38	8	17	A	N1-C6-N6	8.42	123.65	118.60
36	5	2372	A	P-O3'-C3'	8.41	129.79	119.70
36	1	1409	G	N1-C6-O6	-8.40	114.86	119.90
36	1	1149	G	C5-C6-O6	-8.39	123.56	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	209	A	N1-C6-N6	8.39	123.64	118.60
1	2	1096	C	C2-N1-C1'	8.39	128.03	118.80
36	5	994	G	O5'-P-OP2	-8.37	98.17	105.70
1	6	408	C	C6-N1-C2	-8.37	116.95	120.30
36	1	3377	G	N9-C4-C5	-8.36	102.06	105.40
36	1	1367	G	C5-C6-O6	-8.35	123.59	128.60
1	6	777	C	C6-N1-C2	-8.33	116.97	120.30
36	1	2714	G	C8-N9-C1'	8.32	137.82	127.00
36	1	3217	C	C2-N1-C1'	8.32	127.95	118.80
1	2	137	U	O5'-P-OP1	-8.32	98.22	105.70
36	1	2868	U	N1-C2-O2	8.31	128.62	122.80
36	1	2836	C	C5-C4-N4	8.31	126.02	120.20
36	5	2290	C	C6-N1-C2	8.31	123.62	120.30
36	1	1192	C	C2-N1-C1'	8.31	127.94	118.80
36	5	36	C	C5-C6-N1	8.31	125.15	121.00
1	2	966	A	N1-C6-N6	8.30	123.58	118.60
36	5	3123	A	C8-N9-C4	8.29	109.12	105.80
36	1	2572	C	N1-C2-O2	8.29	123.87	118.90
36	5	2211	U	N1-C2-N3	8.28	119.87	114.90
36	5	437	G	N3-C4-N9	-8.27	121.04	126.00
36	1	415	G	C2-N3-C4	-8.27	107.77	111.90
36	1	3275	U	C5-C6-N1	8.27	126.83	122.70
73	O7	65	ARG	NE-CZ-NH1	8.27	124.43	120.30
36	1	2357	A	C5-C6-N6	-8.26	117.09	123.70
36	5	2978	U	C5-C6-N1	-8.26	118.57	122.70
44	17	229	PHE	CB-CG-CD1	8.25	126.58	120.80
36	1	636	C	N3-C4-C5	8.24	125.20	121.90
36	5	1148	G	N1-C6-O6	8.24	124.84	119.90
36	1	1148	G	C8-N9-C4	8.23	109.69	106.40
36	1	2355	G	N1-C6-O6	8.23	124.84	119.90
36	1	2434	U	C5-C4-O4	8.23	130.84	125.90
36	5	2572	C	N1-C2-O2	8.23	123.84	118.90
52	M6	78	ARG	NE-CZ-NH1	8.22	124.41	120.30
36	5	3377	G	C5-C6-O6	-8.21	123.67	128.60
36	5	866	A	C8-N9-C4	8.20	109.08	105.80
36	5	2211	U	N3-C2-O2	-8.20	116.46	122.20
36	1	2726	C	C5-C4-N4	8.20	125.94	120.20
36	1	2823	G	C4-C5-N7	-8.18	107.53	110.80
36	5	2278	C	C5-C6-N1	8.17	125.09	121.00
36	1	1279	C	C6-N1-C2	-8.17	117.03	120.30
36	1	2314	U	C5-C6-N1	8.16	126.78	122.70
36	5	2147	A	C5-C6-N6	-8.15	117.18	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	144	U	N3-C2-O2	-8.14	116.50	122.20
36	1	645	A	C6-N1-C2	-8.13	113.72	118.60
36	5	1178	G	C6-C5-N7	-8.13	125.52	130.40
65	n9	23	LYS	C-N-CD	8.12	145.44	128.40
36	5	2964	G	C4-C5-N7	-8.11	107.56	110.80
36	5	938	C	C5-C4-N4	-8.11	114.52	120.20
1	6	265	A	C8-N9-C4	8.11	109.04	105.80
1	6	385	A	N1-C6-N6	-8.09	113.75	118.60
36	1	894	G	N3-C2-N2	-8.07	114.25	119.90
36	1	2201	G	N1-C6-O6	8.07	124.75	119.90
36	1	2603	G	C4-C5-N7	8.07	114.03	110.80
36	5	2639	G	C6-C5-N7	-8.06	125.56	130.40
1	2	1324	G	N3-C4-N9	-8.06	121.16	126.00
36	5	3218	A	C4-C5-N7	8.05	114.73	110.70
36	5	1124	U	N3-C4-C5	8.05	119.43	114.60
36	1	1124	U	N3-C4-C5	8.04	119.43	114.60
36	1	14	U	O5'-P-OP2	-8.04	98.46	105.70
36	5	2273	G	C5-C6-N1	8.04	115.52	111.50
36	5	1443	G	C5-C6-O6	8.03	133.42	128.60
36	1	3362	A	C4-C5-N7	8.01	114.70	110.70
36	5	3309	G	C4-N9-C1'	8.01	136.91	126.50
36	5	2318	U	N1-C2-O2	8.00	128.40	122.80
36	5	1879	A	O5'-P-OP1	8.00	120.30	110.70
1	6	1782	A	C8-N9-C4	-7.99	102.61	105.80
36	5	1148	G	N9-C4-C5	-7.99	102.20	105.40
36	5	2735	U	C6-N1-C2	-7.98	116.21	121.00
36	5	1869	C	C6-N1-C2	7.97	123.49	120.30
36	5	1879	A	N1-C6-N6	7.97	123.38	118.60
36	5	2982	A	C2-N3-C4	7.97	114.58	110.60
1	6	1280	C	N3-C4-C5	-7.95	118.72	121.90
36	5	2917	G	N3-C4-N9	7.95	130.77	126.00
36	1	2169	G	N1-C6-O6	-7.95	115.13	119.90
36	5	1500	G	C8-N9-C4	7.95	109.58	106.40
1	2	453	U	C2-N1-C1'	7.95	127.24	117.70
36	1	988	U	C5-C6-N1	-7.94	118.73	122.70
36	1	1346	G	C2-N3-C4	-7.94	107.93	111.90
36	5	934	G	C2-N3-C4	7.93	115.87	111.90
36	1	716	A	N9-C4-C5	-7.92	102.63	105.80
36	5	437	G	N3-C2-N2	-7.92	114.35	119.90
36	1	2831	G	N1-C6-O6	7.92	124.65	119.90
1	2	647	G	N3-C4-N9	-7.92	121.25	126.00
36	5	1187	C	C6-N1-C2	7.92	123.47	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2308	C	C2-N3-C4	-7.92	115.94	119.90
1	2	145	A	C8-N9-C4	-7.91	102.63	105.80
36	1	1421	G	O5'-P-OP2	-7.91	98.58	105.70
36	5	1148	G	C8-N9-C4	7.91	109.56	106.40
1	6	777	C	C5-C6-N1	7.89	124.95	121.00
36	1	3362	A	C2-N3-C4	-7.89	106.66	110.60
36	5	1314	C	C2-N1-C1'	7.87	127.46	118.80
36	1	1157	G	C5-C6-O6	7.85	133.31	128.60
36	1	2818	U	O5'-P-OP1	-7.85	98.64	105.70
36	1	1129	A	C8-N9-C4	7.85	108.94	105.80
36	5	1481	A	N7-C8-N9	7.84	117.72	113.80
1	6	1747	G	C8-N9-C4	7.84	109.54	106.40
38	8	99	C	C6-N1-C2	7.84	123.44	120.30
36	5	776	U	C5-C6-N1	-7.84	118.78	122.70
36	5	1178	G	N1-C6-O6	7.83	124.60	119.90
36	5	2358	A	C8-N9-C4	7.83	108.93	105.80
36	5	2358	A	C2-N3-C4	-7.83	106.68	110.60
36	1	878	G	N3-C4-N9	-7.83	121.30	126.00
36	1	2606	G	N3-C4-N9	7.82	130.69	126.00
36	5	3209	A	O4'-C1'-N9	7.82	114.45	108.20
36	1	640	U	N3-C4-O4	7.81	124.87	119.40
1	6	426	G	O5'-P-OP2	-7.81	98.67	105.70
36	5	968	G	C8-N9-C4	7.81	109.53	106.40
36	5	1724	U	N1-C2-O2	-7.81	117.34	122.80
36	5	1306	G	C5-C6-O6	-7.80	123.92	128.60
36	5	3218	A	C6-C5-N7	-7.80	126.84	132.30
36	1	3344	A	O4'-C1'-N9	7.80	114.44	108.20
1	6	858	G	C4-C5-N7	7.79	113.92	110.80
36	5	1110	U	N1-C2-O2	7.79	128.25	122.80
1	6	1537	C	N3-C4-C5	-7.79	118.78	121.90
36	1	2197	C	C6-N1-C2	7.79	123.42	120.30
36	5	804	C	N3-C4-C5	-7.78	118.79	121.90
36	1	793	C	N1-C2-O2	-7.77	114.24	118.90
36	1	2714	G	C4-N9-C1'	-7.77	116.41	126.50
36	5	3214	U	C5-C4-O4	7.76	130.56	125.90
36	1	1495	U	C2-N3-C4	-7.75	122.35	127.00
36	1	800	G	N3-C2-N2	-7.75	114.47	119.90
1	6	542	A	O4'-C1'-N9	7.75	114.40	108.20
36	1	716	A	C4-C5-N7	7.75	114.57	110.70
1	6	194	U	C2-N1-C1'	7.75	127.00	117.70
36	1	660	A	N1-C6-N6	-7.75	113.95	118.60
36	1	1308	A	C8-N9-C4	-7.75	102.70	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	55	U	C6-N1-C2	-7.75	116.35	121.00
36	1	86	G	N9-C4-C5	7.74	108.50	105.40
36	1	409	A	O5'-P-OP2	-7.73	98.74	105.70
38	8	55	U	N1-C2-N3	7.73	119.54	114.90
36	5	2963	C	C6-N1-C2	7.72	123.39	120.30
1	6	1305	U	N1-C2-O2	-7.71	117.40	122.80
36	5	1513	G	C8-N9-C4	-7.71	103.32	106.40
1	2	1324	G	N9-C4-C5	7.71	108.48	105.40
36	5	38	U	O5'-P-OP2	-7.69	98.78	105.70
36	5	3326	G	C8-N9-C4	7.68	109.47	106.40
1	6	1537	C	N1-C2-O2	-7.67	114.30	118.90
36	5	1481	A	P-O3'-C3'	7.67	128.91	119.70
36	1	371	G	C5-C6-O6	-7.67	124.00	128.60
36	5	2622	C	N3-C4-C5	-7.67	118.83	121.90
37	7	92	A	N9-C4-C5	-7.66	102.73	105.80
36	5	2195	C	O5'-P-OP2	-7.66	98.81	105.70
1	2	453	U	N1-C2-O2	7.66	128.16	122.80
36	5	3218	A	C5-N7-C8	-7.66	100.07	103.90
36	1	1305	U	N1-C2-O2	7.65	128.16	122.80
1	2	314	C	O5'-P-OP1	-7.65	98.81	105.70
36	1	2983	C	C4-C5-C6	7.65	121.22	117.40
36	5	1158	A	N1-C6-N6	7.65	123.19	118.60
36	5	1902	G	C5-C6-O6	-7.64	124.01	128.60
10	s8	29	LEU	CA-CB-CG	7.63	132.86	115.30
36	1	1365	G	N3-C4-N9	7.62	130.57	126.00
1	6	1022	C	C6-N1-C2	7.62	123.35	120.30
1	6	163	G	N9-C4-C5	7.61	108.45	105.40
36	5	2726	C	N3-C2-O2	-7.61	116.57	121.90
36	1	1841	A	O5'-P-OP1	-7.61	98.85	105.70
1	6	976	G	C4-C5-N7	7.61	113.84	110.80
36	1	1389	G	N3-C4-N9	7.61	130.56	126.00
36	1	2644	C	C6-N1-C2	-7.60	117.26	120.30
36	5	657	A	N1-C6-N6	-7.60	114.04	118.60
36	1	76	G	C8-N9-C4	-7.60	103.36	106.40
36	5	1437	C	C6-N1-C2	-7.60	117.26	120.30
36	1	1902	G	C6-C5-N7	-7.59	125.84	130.40
36	5	3369	G	C2-N3-C4	7.58	115.69	111.90
36	5	1239	C	C6-N1-C2	-7.58	117.27	120.30
38	8	96	A	C8-N9-C4	7.58	108.83	105.80
1	6	1025	A	N1-C2-N3	7.58	133.09	129.30
36	1	2868	U	N3-C2-O2	-7.57	116.90	122.20
36	1	610	G	C5-C6-N1	7.57	115.29	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	780	A	N1-C6-N6	-7.57	114.06	118.60
36	1	637	C	C5-C6-N1	-7.56	117.22	121.00
36	5	705	A	O5'-P-OP2	-7.56	98.89	105.70
36	5	922	U	C2-N3-C4	-7.56	122.46	127.00
36	5	2147	A	C6-C5-N7	-7.56	127.01	132.30
36	5	404	G	O5'-P-OP2	-7.55	98.91	105.70
12	C0	88	PRO	N-CA-CB	7.55	112.36	103.30
36	5	2639	G	C8-N9-C4	-7.55	103.38	106.40
1	2	1280	C	C6-N1-C2	-7.55	117.28	120.30
36	1	1495	U	N1-C2-O2	-7.54	117.52	122.80
1	6	858	G	O4'-C1'-N9	7.54	114.23	108.20
36	1	1308	A	O5'-P-OP1	7.54	119.75	110.70
1	6	1749	A	C2-N3-C4	-7.54	106.83	110.60
36	5	2808	A	C2-N3-C4	-7.54	106.83	110.60
1	2	7	G	N1-C6-O6	-7.53	115.38	119.90
36	1	392	G	C8-N9-C4	7.53	109.41	106.40
1	6	1773	C	N3-C4-N4	7.53	123.27	118.00
36	5	2965	U	N1-C2-O2	-7.53	117.53	122.80
36	1	2944	U	N1-C2-O2	7.53	128.07	122.80
36	1	2121	G	N1-C6-O6	-7.52	115.39	119.90
36	1	142	C	C6-N1-C2	-7.51	117.29	120.30
36	5	2704	A	O5'-P-OP1	-7.51	98.94	105.70
36	5	3154	C	C2-N1-C1'	7.51	127.06	118.80
36	1	2726	C	N1-C2-N3	7.51	124.45	119.20
1	6	421	A	N1-C6-N6	7.50	123.10	118.60
1	6	1097	U	P-O3'-C3'	7.50	128.70	119.70
38	4	94	C	N3-C4-C5	7.50	124.90	121.90
36	1	49	A	N1-C6-N6	7.50	123.10	118.60
36	1	2636	A	C8-N9-C4	-7.50	102.80	105.80
36	1	1445	U	C2-N1-C1'	-7.49	108.71	117.70
36	5	1321	G	C5-C6-O6	-7.49	124.10	128.60
36	1	3183	A	N1-C6-N6	7.49	123.09	118.60
37	7	101	G	C6-C5-N7	-7.49	125.91	130.40
36	5	2639	G	C5-C6-O6	-7.49	124.11	128.60
36	5	1434	G	N1-C6-O6	7.49	124.39	119.90
36	1	2644	C	N3-C2-O2	-7.48	116.66	121.90
1	2	1490	C	C6-N1-C2	-7.47	117.31	120.30
36	1	2662	G	C2-N3-C4	-7.47	108.16	111.90
36	1	3277	U	N3-C2-O2	-7.47	116.97	122.20
1	6	106	U	C5-C4-O4	7.46	130.38	125.90
1	6	453	U	C2-N1-C1'	7.46	126.65	117.70
36	1	2637	A	O5'-P-OP1	-7.46	98.99	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	558	U	N3-C2-O2	-7.46	116.98	122.20
36	1	730	C	C6-N1-C2	7.46	123.28	120.30
36	1	921	A	C8-N9-C4	-7.46	102.82	105.80
36	1	1902	G	C4-C5-N7	7.46	113.78	110.80
36	1	1303	A	C5-C6-N6	-7.45	117.74	123.70
36	5	2293	C	N3-C4-C5	7.45	124.88	121.90
36	1	645	A	N1-C6-N6	-7.45	114.13	118.60
36	1	961	C	C4-C5-C6	7.44	121.12	117.40
36	5	776	U	C4-C5-C6	7.44	124.16	119.70
1	2	558	U	N1-C2-O2	7.43	128.00	122.80
1	2	1280	C	N3-C4-N4	7.43	123.20	118.00
36	5	2211	U	C5-C6-N1	-7.42	118.99	122.70
36	1	501	A	C8-N9-C4	7.42	108.77	105.80
36	1	776	U	N1-C2-N3	7.42	119.35	114.90
36	1	2719	U	C2-N1-C1'	-7.41	108.80	117.70
36	1	3326	G	C8-N9-C4	7.41	109.36	106.40
1	2	1291	G	N3-C4-N9	-7.41	121.56	126.00
36	1	433	A	N1-C6-N6	7.40	123.04	118.60
36	1	2384	A	C5-C6-N6	-7.40	117.78	123.70
36	5	646	A	N1-C2-N3	7.40	133.00	129.30
36	5	2385	G	N3-C4-N9	-7.40	121.56	126.00
36	1	901	G	C5-C6-O6	-7.40	124.16	128.60
36	1	2314	U	C5-C4-O4	-7.39	121.47	125.90
36	1	1308	A	N7-C8-N9	7.38	117.49	113.80
36	1	2977	G	O5'-P-OP1	-7.38	99.06	105.70
36	1	2283	G	C5-C6-O6	-7.38	124.17	128.60
36	1	3217	C	N1-C2-O2	7.38	123.33	118.90
1	2	380	U	N1-C2-O2	7.38	127.96	122.80
36	5	2353	G	N1-C6-O6	7.38	124.33	119.90
36	1	3057	U	N1-C2-N3	7.37	119.32	114.90
36	5	1314	C	C6-N1-C1'	-7.37	111.95	120.80
36	1	921	A	N9-C4-C5	7.37	108.75	105.80
36	1	1466	G	N9-C4-C5	-7.36	102.45	105.40
36	5	2199	G	N3-C2-N2	-7.36	114.75	119.90
1	2	1456	C	N3-C2-O2	-7.36	116.75	121.90
36	5	1438	U	N3-C2-O2	-7.36	117.05	122.20
36	1	2982	A	O5'-P-OP1	-7.35	99.08	105.70
36	1	2625	C	N1-C2-O2	-7.35	114.49	118.90
36	1	716	A	C5-C6-N6	-7.34	117.83	123.70
36	1	1161	G	N1-C6-O6	-7.33	115.50	119.90
56	N0	155	ARG	NE-CZ-NH1	-7.33	116.63	120.30
36	1	2169	G	C4-C5-N7	-7.33	107.87	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1192	C	N3-C2-O2	-7.33	116.77	121.90
36	5	2964	G	N1-C6-O6	-7.32	115.50	119.90
31	D9	36	LEU	CA-CB-CG	7.32	132.14	115.30
36	5	3362	A	C2-N3-C4	-7.32	106.94	110.60
36	1	2606	G	C6-C5-N7	-7.32	126.01	130.40
36	5	2245	C	C6-N1-C2	-7.32	117.37	120.30
36	5	1848	G	C4-C5-N7	7.32	113.73	110.80
36	1	1433	A	C5-C6-N1	7.31	121.36	117.70
36	5	2675	C	C6-N1-C2	-7.31	117.37	120.30
36	1	672	A	N1-C6-N6	7.31	122.99	118.60
1	6	1091	A	N1-C6-N6	7.31	122.99	118.60
36	5	1010	G	O5'-P-OP2	-7.31	99.12	105.70
1	2	1096	C	C5-C6-N1	7.31	124.66	121.00
37	7	49	G	C4-C5-C6	7.31	123.19	118.80
36	1	417	A	N1-C6-N6	7.30	122.98	118.60
36	1	2884	C	N3-C4-C5	7.30	124.82	121.90
1	2	554	C	C2-N1-C1'	7.30	126.83	118.80
36	1	3081	C	C5-C6-N1	-7.30	117.35	121.00
37	7	85	G	N1-C6-O6	-7.30	115.52	119.90
36	5	2887	A	N1-C6-N6	7.30	122.98	118.60
36	1	3217	C	C6-N1-C1'	-7.29	112.05	120.80
10	S8	29	LEU	CA-CB-CG	7.29	132.07	115.30
36	5	2278	C	C4-C5-C6	-7.29	113.75	117.40
36	5	1200	A	N1-C6-N6	7.29	122.97	118.60
36	5	2234	G	C8-N9-C4	7.29	109.31	106.40
1	6	539	G	N3-C4-N9	-7.28	121.63	126.00
36	5	2572	C	C2-N1-C1'	7.28	126.81	118.80
36	1	347	G	C4-C5-N7	7.28	113.71	110.80
36	5	1445	U	C2-N3-C4	-7.28	122.63	127.00
36	5	2147	A	C4-C5-N7	7.28	114.34	110.70
1	6	1540	G	N1-C6-O6	-7.28	115.53	119.90
37	7	49	G	N1-C6-O6	7.28	124.27	119.90
36	1	972	A	C8-N9-C4	7.27	108.71	105.80
36	1	1658	G	N1-C6-O6	-7.27	115.54	119.90
36	1	608	A	N9-C4-C5	-7.27	102.89	105.80
1	6	265	A	N9-C4-C5	-7.27	102.89	105.80
36	1	3269	U	N3-C2-O2	-7.26	117.12	122.20
36	1	232	G	N3-C4-C5	-7.26	124.97	128.60
38	4	113	U	C5-C4-O4	7.26	130.25	125.90
36	1	49	A	C2-N3-C4	-7.25	106.97	110.60
36	5	1497	C	O5'-P-OP1	-7.25	99.17	105.70
36	5	209	A	C5-C6-N6	-7.25	117.90	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	65	A	P-O3'-C3'	7.25	128.40	119.70
36	1	942	U	C4-C5-C6	7.25	124.05	119.70
36	5	2943	G	C6-C5-N7	-7.25	126.05	130.40
36	1	2942	C	N3-C4-C5	7.25	124.80	121.90
36	1	3212	C	C6-N1-C2	7.25	123.20	120.30
1	2	728	U	C2-N1-C1'	7.25	126.39	117.70
36	1	1360	C	C6-N1-C2	7.24	123.20	120.30
36	1	1182	A	C8-N9-C4	7.23	108.69	105.80
36	5	2735	U	C5-C6-N1	7.23	126.31	122.70
36	5	2916	U	O5'-P-OP1	-7.22	99.20	105.70
1	2	1119	G	N3-C2-N2	7.22	124.95	119.90
36	1	432	G	C5-C6-N1	-7.21	107.89	111.50
1	2	1651	A	C2-N3-C4	-7.21	107.00	110.60
36	5	1730	G	C8-N9-C4	7.21	109.28	106.40
36	1	3362	A	C8-N9-C4	-7.21	102.92	105.80
1	2	300	A	O5'-P-OP1	-7.21	99.22	105.70
36	5	2730	G	C5-C6-O6	-7.21	124.28	128.60
1	2	1119	G	N1-C2-N2	-7.20	109.72	116.20
1	6	387	A	C2-N3-C4	7.20	114.20	110.60
1	6	696	C	O4'-C1'-N1	7.20	113.96	108.20
36	1	1658	G	N9-C4-C5	7.20	108.28	105.40
1	6	65	A	C5-C6-N1	-7.19	114.11	117.70
36	1	576	C	C6-N1-C2	7.19	123.18	120.30
36	1	197	G	C5-C6-O6	-7.18	124.29	128.60
36	1	1909	A	N1-C6-N6	7.18	122.91	118.60
1	2	354	C	C6-N1-C2	-7.18	117.43	120.30
36	1	1210	U	C5-C6-N1	-7.17	119.11	122.70
38	4	113	U	N1-C2-N3	7.17	119.20	114.90
36	1	878	G	N3-C2-N2	-7.16	114.89	119.90
36	1	885	U	C5-C6-N1	-7.16	119.12	122.70
1	6	65	A	N1-C6-N6	7.15	122.89	118.60
36	5	3018	C	O5'-P-OP2	-7.15	99.26	105.70
36	1	1433	A	C2-N3-C4	7.15	114.17	110.60
59	n3	48	ARG	NE-CZ-NH1	7.15	123.87	120.30
1	6	1700	C	C2-N1-C1'	7.15	126.66	118.80
36	5	1449	A	N1-C6-N6	7.15	122.89	118.60
36	1	2417	U	N1-C2-O2	-7.14	117.80	122.80
36	5	644	G	C5-C6-O6	7.14	132.89	128.60
1	6	1731	A	N1-C6-N6	-7.14	114.32	118.60
36	5	658	G	C8-N9-C4	-7.14	103.54	106.40
36	5	2743	A	C8-N9-C4	7.14	108.66	105.80
36	1	2397	A	O5'-P-OP2	-7.14	99.28	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	356	C	O5'-P-OP2	-7.14	99.28	105.70
36	1	969	C	N1-C2-O2	-7.14	114.62	118.90
36	1	1838	G	C4-C5-N7	7.13	113.65	110.80
36	5	1116	G	N9-C4-C5	7.13	108.25	105.40
1	6	813	U	C2-N1-C1'	7.13	126.26	117.70
36	5	2921	U	N3-C4-O4	7.13	124.39	119.40
36	1	650	C	N1-C2-O2	-7.13	114.62	118.90
36	5	394	G	C5-C6-O6	7.13	132.88	128.60
36	1	415	G	N3-C4-C5	7.12	132.16	128.60
36	5	1302	A	N1-C6-N6	-7.12	114.33	118.60
36	5	2858	U	C6-N1-C2	-7.12	116.73	121.00
1	6	609	U	N3-C4-O4	-7.12	114.42	119.40
36	5	580	C	C6-N1-C2	-7.12	117.45	120.30
36	5	2954	U	C6-N1-C1'	-7.12	111.23	121.20
36	1	2725	U	N3-C2-O2	-7.12	117.22	122.20
36	1	2351	U	N3-C2-O2	-7.11	117.22	122.20
36	1	608	A	C6-C5-N7	-7.11	127.32	132.30
36	1	960	U	C6-N1-C2	7.11	125.27	121.00
36	1	1911	A	N1-C6-N6	7.11	122.86	118.60
36	5	1315	U	N1-C2-N3	-7.11	110.64	114.90
1	6	610	G	C8-N9-C1'	-7.11	117.76	127.00
1	6	622	A	O5'-P-OP1	-7.11	99.31	105.70
36	5	1116	G	N3-C4-C5	-7.10	125.05	128.60
1	2	558	U	C2-N1-C1'	7.10	126.22	117.70
36	5	283	G	N9-C4-C5	-7.10	102.56	105.40
36	5	966	U	O5'-P-OP2	-7.10	99.31	105.70
36	5	1869	C	N3-C4-C5	7.10	124.74	121.90
36	5	2616	C	C5-C4-N4	-7.10	115.23	120.20
36	5	3154	C	N1-C2-O2	7.10	123.16	118.90
36	1	332	C	C5-C6-N1	-7.10	117.45	121.00
36	1	2737	C	N1-C2-O2	-7.09	114.64	118.90
36	5	1724	U	N1-C2-N3	7.09	119.16	114.90
36	1	2978	U	O4'-C1'-N1	7.09	113.87	108.20
36	1	2121	G	N3-C2-N2	7.09	124.86	119.90
36	1	1381	A	O5'-P-OP1	-7.09	99.32	105.70
36	5	2318	U	N3-C4-O4	-7.09	114.44	119.40
36	5	927	C	O5'-P-OP1	-7.08	99.32	105.70
36	1	371	G	C4-C5-N7	7.08	113.63	110.80
36	1	1156	C	C5-C6-N1	-7.08	117.46	121.00
1	6	1764	C	C6-N1-C2	7.08	123.13	120.30
36	5	1902	G	C4-C5-C6	7.08	123.05	118.80
36	1	2572	C	C6-N1-C2	-7.08	117.47	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2714	G	C4-C5-C6	-7.08	114.55	118.80
36	5	2416	U	C6-N1-C2	-7.08	116.75	121.00
1	6	582	U	N3-C2-O2	-7.08	117.25	122.20
36	1	609	G	O5'-P-OP2	-7.07	99.33	105.70
1	6	337	G	C6-C5-N7	-7.07	126.16	130.40
36	5	1149	G	N1-C6-O6	7.07	124.14	119.90
36	5	2136	C	C5-C6-N1	-7.07	117.46	121.00
36	1	281	G	C5-C6-O6	-7.07	124.36	128.60
36	1	392	G	N9-C4-C5	-7.07	102.57	105.40
1	6	1361	U	C2-N1-C1'	7.07	126.18	117.70
36	1	1192	C	N3-C2-O2	-7.07	116.95	121.90
36	1	2273	G	N7-C8-N9	-7.07	109.57	113.10
36	5	1006	A	O5'-P-OP2	-7.07	99.34	105.70
36	1	2117	A	N1-C6-N6	-7.07	114.36	118.60
38	4	30	C	O5'-P-OP1	-7.07	99.34	105.70
36	5	609	G	N1-C6-O6	7.07	124.14	119.90
36	5	834	U	C6-N1-C2	7.06	125.24	121.00
36	1	901	G	N1-C6-O6	7.06	124.14	119.90
36	1	1795	U	O5'-P-OP1	-7.06	99.34	105.70
1	2	553	G	C6-C5-N7	-7.06	126.16	130.40
36	5	3108	G	N1-C6-O6	7.06	124.13	119.90
36	5	1192	C	N1-C2-O2	7.06	123.13	118.90
36	5	2887	A	C5-C6-N6	-7.05	118.06	123.70
36	5	2434	U	C5-C4-O4	7.05	130.13	125.90
36	1	994	G	C5-C6-N1	7.05	115.03	111.50
36	5	535	G	O5'-P-OP2	-7.05	99.36	105.70
36	5	1130	A	C8-N9-C4	7.05	108.62	105.80
1	2	393	C	C6-N1-C2	7.05	123.12	120.30
1	2	1455	G	C5-C6-N1	-7.05	107.98	111.50
1	6	453	U	N3-C2-O2	-7.05	117.27	122.20
36	5	283	G	C5-N7-C8	-7.05	100.78	104.30
36	1	1144	U	N3-C4-O4	-7.04	114.47	119.40
1	2	1745	G	C5-C6-N1	7.03	115.02	111.50
36	5	934	G	C8-N9-C1'	-7.03	117.87	127.00
36	5	942	U	N3-C2-O2	7.03	127.12	122.20
36	1	2298	U	N3-C4-O4	-7.02	114.48	119.40
1	6	337	G	C4-N9-C1'	7.02	135.63	126.50
36	5	2617	U	N1-C2-O2	-7.02	117.89	122.80
36	1	2982	A	C6-N1-C2	-7.02	114.39	118.60
36	5	2354	C	N3-C2-O2	7.01	126.81	121.90
1	6	112	A	N1-C6-N6	7.01	122.81	118.60
1	6	390	G	O5'-P-OP2	-7.01	99.39	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2327	U	C5-C6-N1	-7.01	119.19	122.70
1	6	1700	C	N1-C2-O2	7.01	123.11	118.90
36	5	1389	G	C6-C5-N7	-7.01	126.20	130.40
36	5	2199	G	C4-C5-C6	7.01	123.00	118.80
36	1	1902	G	C5-C6-O6	-7.00	124.40	128.60
38	4	103	G	N3-C4-C5	-7.00	125.10	128.60
1	6	647	G	N3-C4-C5	7.00	132.10	128.60
36	5	699	A	C2-N3-C4	-7.00	107.10	110.60
36	5	922	U	C4-C5-C6	7.00	123.90	119.70
36	5	2961	G	C8-N9-C4	-7.00	103.60	106.40
36	1	2169	G	C6-C5-N7	7.00	134.60	130.40
36	5	2621	G	N1-C6-O6	7.00	124.10	119.90
36	1	2983	C	N3-C4-N4	-6.99	113.11	118.00
36	1	3049	A	C8-N9-C4	6.99	108.60	105.80
36	1	2823	G	N3-C2-N2	-6.99	115.01	119.90
36	1	2114	C	O5'-P-OP2	-6.99	99.41	105.70
36	5	2838	A	O5'-P-OP1	6.99	119.08	110.70
36	1	2601	A	C8-N9-C4	6.99	108.59	105.80
36	1	2719	U	N1-C2-O2	-6.99	117.91	122.80
36	5	424	G	C5-C6-N1	6.99	114.99	111.50
36	5	1868	G	N9-C4-C5	-6.99	102.61	105.40
36	1	919	U	O5'-P-OP1	6.98	119.08	110.70
36	1	699	A	N1-C2-N3	6.98	132.79	129.30
36	5	1902	G	C8-N9-C1'	-6.98	117.93	127.00
36	1	895	A	C2-N3-C4	-6.97	107.11	110.60
36	1	2993	G	N9-C4-C5	-6.97	102.61	105.40
36	1	197	G	N9-C4-C5	-6.97	102.61	105.40
36	1	2384	A	N1-C6-N6	6.97	122.78	118.60
36	1	25	U	N3-C4-C5	-6.97	110.42	114.60
36	5	2953	U	C5-C4-O4	-6.97	121.72	125.90
36	1	941	G	C5-C6-O6	-6.97	124.42	128.60
36	5	1416	C	N3-C2-O2	-6.97	117.02	121.90
36	5	1433	A	N1-C6-N6	-6.97	114.42	118.60
36	1	939	U	O5'-P-OP1	6.96	119.06	110.70
36	1	1202	A	C2-N3-C4	-6.96	107.12	110.60
36	5	701	G	C4-C5-N7	-6.96	108.01	110.80
36	5	2248	C	N1-C2-O2	-6.96	114.72	118.90
36	5	2358	A	N3-C4-C5	6.96	131.67	126.80
38	8	95	G	N3-C4-C5	6.96	132.08	128.60
1	2	1761	U	P-O3'-C3'	6.96	128.05	119.70
36	1	1431	G	N1-C6-O6	-6.96	115.73	119.90
36	5	1208	U	N3-C4-O4	-6.96	114.53	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2870	C	C6-N1-C1'	6.95	129.15	120.80
36	1	1346	G	O5'-P-OP2	-6.95	99.45	105.70
1	2	73	U	O4'-C1'-N1	6.95	113.76	108.20
36	5	66	A	N1-C6-N6	6.95	122.77	118.60
36	5	3215	A	C2-N3-C4	-6.95	107.13	110.60
36	5	1113	G	C2-N3-C4	-6.94	108.43	111.90
36	5	2634	U	C2-N3-C4	-6.94	122.84	127.00
36	1	1158	A	C6-N1-C2	-6.93	114.44	118.60
36	1	2403	G	O5'-P-OP2	-6.93	99.46	105.70
1	6	251	A	C8-N9-C4	6.93	108.57	105.80
36	5	1307	G	OP2-P-O3'	6.93	120.45	105.20
36	1	197	G	C6-C5-N7	-6.93	126.24	130.40
36	1	2889	C	N3-C2-O2	-6.93	117.05	121.90
36	1	3199	G	C6-C5-N7	6.93	134.56	130.40
36	5	2620	G	C6-C5-N7	6.93	134.56	130.40
36	5	847	A	C8-N9-C4	6.93	108.57	105.80
36	1	197	G	C4-C5-N7	6.93	113.57	110.80
36	5	2308	C	N1-C2-O2	-6.92	114.75	118.90
37	7	29	C	C6-N1-C2	6.92	123.07	120.30
36	1	282	G	C8-N9-C4	-6.92	103.63	106.40
36	1	2846	U	N1-C2-O2	6.92	127.64	122.80
36	1	2643	A	C8-N9-C4	6.92	108.57	105.80
1	6	1028	C	C5-C6-N1	-6.92	117.54	121.00
36	5	3309	G	N3-C4-C5	-6.92	125.14	128.60
36	5	2917	G	N1-C6-O6	6.92	124.05	119.90
36	5	2411	U	N3-C4-C5	6.91	118.75	114.60
1	6	1146	G	N1-C6-O6	6.91	124.05	119.90
1	6	609	U	C5-C4-O4	6.91	130.04	125.90
36	5	2992	U	C5-C4-O4	-6.91	121.76	125.90
1	2	1768	G	C6-C5-N7	6.90	134.54	130.40
36	5	712	G	O5'-P-OP2	-6.90	99.49	105.70
36	5	2618	G	C5-C6-O6	-6.90	124.46	128.60
36	5	3245	A	N1-C2-N3	6.90	132.75	129.30
36	5	1055	A	O5'-P-OP2	-6.90	99.49	105.70
36	1	3028	G	N3-C4-N9	6.90	130.14	126.00
36	1	1344	G	C8-N9-C4	6.89	109.16	106.40
1	2	1269	U	N3-C4-O4	6.89	124.22	119.40
36	1	2983	C	C5-C4-N4	6.89	125.02	120.20
36	1	1292	C	C6-N1-C2	6.89	123.06	120.30
1	6	1793	G	C4-C5-N7	-6.89	108.04	110.80
36	5	994	G	C5-C6-N1	6.89	114.94	111.50
36	1	2664	C	C6-N1-C2	-6.89	117.55	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1370	G	N3-C4-C5	-6.89	125.16	128.60
36	1	640	U	C5-C4-O4	-6.88	121.77	125.90
37	7	91	G	N9-C4-C5	-6.88	102.65	105.40
36	1	2394	G	N1-C6-O6	-6.88	115.77	119.90
36	5	1188	U	C5-C6-N1	-6.88	119.26	122.70
36	5	2816	G	C8-N9-C4	6.88	109.15	106.40
36	1	2572	C	N3-C2-O2	-6.88	117.09	121.90
1	6	976	G	C6-C5-N7	-6.88	126.27	130.40
36	1	369	A	C2-N3-C4	6.87	114.04	110.60
36	1	114	A	O5'-P-OP1	-6.87	99.52	105.70
36	5	1939	G	C4-N9-C1'	6.87	135.43	126.50
36	1	696	C	C6-N1-C2	6.87	123.05	120.30
36	1	3377	G	C6-C5-N7	-6.87	126.28	130.40
36	5	1902	G	C4-N9-C1'	6.87	135.43	126.50
36	1	85	A	C2-N3-C4	-6.87	107.17	110.60
36	1	776	U	C5-C4-O4	6.87	130.02	125.90
36	5	3022	G	C8-N9-C4	6.87	109.15	106.40
36	1	2339	C	OP1-P-O3'	6.86	120.30	105.20
36	1	3344	A	N7-C8-N9	6.86	117.23	113.80
36	1	1316	C	N1-C2-O2	-6.86	114.78	118.90
36	5	2639	G	N7-C8-N9	6.86	116.53	113.10
36	5	3164	C	O4'-C1'-N1	6.86	113.69	108.20
1	2	1768	G	N3-C4-N9	-6.86	121.89	126.00
36	5	2830	G	C6-N1-C2	-6.86	120.99	125.10
36	1	699	A	O5'-P-OP2	-6.85	99.53	105.70
1	6	976	G	C5-N7-C8	-6.85	100.87	104.30
36	5	2353	G	C6-C5-N7	-6.85	126.29	130.40
36	1	1901	A	N1-C6-N6	-6.85	114.49	118.60
36	5	2970	C	N3-C4-C5	-6.85	119.16	121.90
1	6	163	G	C8-N9-C1'	6.85	135.90	127.00
36	5	425	G	C2-N3-C4	-6.85	108.48	111.90
36	1	2629	U	O5'-P-OP2	-6.84	99.54	105.70
1	6	1773	C	C6-N1-C2	-6.84	117.56	120.30
36	5	2954	U	O4'-C1'-N1	6.84	113.67	108.20
36	1	2836	C	N3-C4-N4	-6.84	113.21	118.00
36	1	1149	G	N3-C2-N2	-6.84	115.11	119.90
1	6	558	U	C2-N1-C1'	6.84	125.91	117.70
36	1	54	C	O5'-P-OP1	-6.84	99.55	105.70
1	6	1198	G	C6-C5-N7	6.83	134.50	130.40
36	5	2391	G	O5'-P-OP2	6.83	118.90	110.70
1	2	1324	G	N3-C2-N2	-6.83	115.12	119.90
1	6	624	G	C8-N9-C4	6.83	109.13	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1439	C	C5-C6-N1	6.83	124.42	121.00
36	1	1118	C	C6-N1-C2	-6.83	117.57	120.30
1	6	902	G	N1-C6-O6	6.83	124.00	119.90
36	5	21	G	C2-N3-C4	-6.83	108.48	111.90
36	5	2724	U	N1-C2-N3	6.83	119.00	114.90
36	5	2630	C	N1-C2-O2	-6.82	114.81	118.90
36	5	1155	C	O5'-P-OP1	-6.82	99.56	105.70
36	5	386	A	N1-C6-N6	6.82	122.69	118.60
36	5	1124	U	C4-C5-C6	-6.82	115.61	119.70
36	1	109	A	OP1-P-O3'	6.82	120.19	105.20
36	1	416	A	C8-N9-C4	6.82	108.53	105.80
36	1	25	U	N3-C4-O4	6.81	124.17	119.40
1	2	1611	A	N1-C2-N3	6.81	132.71	129.30
36	1	369	A	C8-N9-C4	-6.81	103.08	105.80
1	6	609	U	C5-C6-N1	-6.81	119.29	122.70
36	5	1789	G	C4-N9-C1'	-6.81	117.64	126.50
36	5	313	A	N1-C6-N6	6.80	122.68	118.60
36	1	213	A	N1-C6-N6	6.80	122.68	118.60
36	5	2870	C	C2-N1-C1'	-6.80	111.32	118.80
36	1	1156	C	C4-C5-C6	6.79	120.80	117.40
47	m0	57	LEU	CA-CB-CG	6.79	130.92	115.30
1	6	982	U	O5'-P-OP1	-6.79	99.59	105.70
36	5	966	U	N1-C2-O2	6.79	127.55	122.80
36	1	332	C	C6-N1-C2	6.79	123.01	120.30
36	5	3133	C	N3-C4-C5	-6.79	119.19	121.90
36	1	218	G	O5'-P-OP1	-6.78	99.60	105.70
35	SM	167	PRO	N-CA-CB	6.78	111.43	103.30
36	1	802	C	C4-C5-C6	6.78	120.79	117.40
35	sM	167	PRO	N-CA-CB	6.77	111.43	103.30
36	5	3120	C	N3-C2-O2	-6.77	117.16	121.90
1	2	507	U	C2-N1-C1'	6.77	125.83	117.70
36	5	3214	U	N3-C2-O2	-6.77	117.46	122.20
1	2	831	U	C2-N1-C1'	6.77	125.82	117.70
47	M0	57	LEU	CA-CB-CG	6.77	130.87	115.30
36	5	1897	G	N7-C8-N9	6.77	116.48	113.10
36	5	2197	C	C6-N1-C2	6.77	123.01	120.30
36	5	2964	G	C5-C6-O6	6.77	132.66	128.60
36	5	3335	A	C2-N3-C4	-6.77	107.22	110.60
1	6	1269	U	C6-N1-C2	-6.77	116.94	121.00
36	5	2971	A	C2-N3-C4	6.77	113.98	110.60
36	1	2714	G	C5-N7-C8	-6.76	100.92	104.30
1	2	334	G	C4-N9-C1'	-6.76	117.71	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	881	C	C6-N1-C2	-6.76	117.59	120.30
36	5	3200	G	N1-C6-O6	6.76	123.96	119.90
36	1	1203	A	C8-N9-C4	6.76	108.50	105.80
36	5	437	G	N1-C2-N2	6.76	122.28	116.20
36	1	942	U	N3-C4-O4	6.76	124.13	119.40
36	1	2212	C	C6-N1-C2	6.75	123.00	120.30
36	5	1500	G	N7-C8-N9	-6.75	109.72	113.10
36	5	2572	C	N3-C2-O2	-6.75	117.17	121.90
36	1	1307	G	P-O3'-C3'	6.75	127.80	119.70
36	5	1936	A	N1-C6-N6	6.75	122.65	118.60
36	1	324	A	C4-C5-C6	6.75	120.37	117.00
36	1	919	U	O5'-P-OP2	-6.75	99.63	105.70
36	1	2357	A	N1-C6-N6	6.75	122.65	118.60
36	5	1112	A	C5-C6-N6	-6.74	118.31	123.70
36	1	859	G	N9-C4-C5	-6.74	102.70	105.40
36	5	234	G	N1-C6-O6	6.74	123.94	119.90
36	1	1322	U	O5'-P-OP2	-6.74	99.64	105.70
1	6	425	A	N1-C6-N6	-6.74	114.56	118.60
1	2	1196	A	P-O3'-C3'	6.73	127.78	119.70
36	1	2617	U	C5-C6-N1	-6.73	119.33	122.70
36	1	969	C	N3-C4-C5	6.73	124.59	121.90
36	5	718	G	O4'-C1'-N9	6.73	113.58	108.20
36	5	2253	G	O5'-P-OP2	-6.73	99.65	105.70
36	5	2406	C	N1-C2-O2	-6.73	114.86	118.90
36	5	3092	C	C2-N3-C4	-6.73	116.54	119.90
36	5	776	U	C5-C4-O4	6.72	129.93	125.90
36	5	3309	G	C8-N9-C1'	-6.72	118.26	127.00
1	6	421	A	C8-N9-C4	6.72	108.49	105.80
36	5	1595	U	N1-C2-O2	-6.72	118.10	122.80
36	1	1389	G	N9-C4-C5	-6.72	102.71	105.40
36	5	1661	G	N1-C6-O6	6.72	123.93	119.90
36	1	915	A	N1-C6-N6	-6.71	114.57	118.60
36	1	969	C	C2-N1-C1'	-6.71	111.41	118.80
36	1	2647	A	C6-N1-C2	-6.71	114.57	118.60
36	1	859	G	C6-C5-N7	-6.71	126.38	130.40
36	1	1154	A	O5'-P-OP1	-6.71	99.66	105.70
36	5	2524	A	N7-C8-N9	6.71	117.15	113.80
36	5	2825	C	C6-N1-C2	6.71	122.98	120.30
36	1	361	A	N1-C6-N6	-6.71	114.58	118.60
36	1	232	G	N3-C4-N9	6.71	130.02	126.00
36	5	2699	G	N1-C6-O6	6.71	123.92	119.90
36	1	375	A	O5'-P-OP2	-6.70	99.67	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2996	U	C6-N1-C1'	-6.70	111.82	121.20
36	1	3318	G	C8-N9-C4	-6.70	103.72	106.40
36	5	1940	G	C8-N9-C4	6.70	109.08	106.40
36	1	1884	A	N1-C6-N6	6.70	122.62	118.60
36	5	1310	G	N1-C6-O6	-6.70	115.88	119.90
36	1	2622	C	C6-N1-C2	-6.70	117.62	120.30
36	1	1150	A	N1-C6-N6	-6.70	114.58	118.60
36	1	1820	U	P-O3'-C3'	6.70	127.73	119.70
36	5	1390	A	N9-C4-C5	6.70	108.48	105.80
36	1	2339	C	O5'-P-OP2	-6.69	99.68	105.70
36	5	3068	U	N1-C2-N3	6.69	118.92	114.90
1	6	1137	A	C8-N9-C4	6.69	108.48	105.80
1	2	647	G	N3-C2-N2	-6.69	115.22	119.90
36	1	942	U	N3-C4-C5	-6.69	110.59	114.60
36	1	2885	C	C6-N1-C2	6.69	122.97	120.30
1	6	858	G	C6-C5-N7	-6.69	126.39	130.40
36	1	2418	G	C2-N3-C4	6.69	115.24	111.90
36	5	3212	C	C6-N1-C2	6.68	122.97	120.30
36	1	1158	A	C5-C6-N6	-6.68	118.35	123.70
36	1	1535	A	C4-C5-N7	6.68	114.04	110.70
36	1	2643	A	N1-C6-N6	6.68	122.61	118.60
36	5	1149	G	N3-C4-N9	6.68	130.01	126.00
36	5	2797	C	N3-C4-C5	-6.68	119.23	121.90
1	6	176	C	N1-C2-O2	6.68	122.91	118.90
37	7	103	A	N1-C6-N6	6.68	122.61	118.60
36	1	281	G	N3-C4-N9	6.68	130.01	126.00
36	1	2176	U	N3-C2-O2	-6.68	117.52	122.20
15	C3	114	ARG	NE-CZ-NH1	6.68	123.64	120.30
36	1	2996	U	N1-C2-O2	6.68	127.47	122.80
36	1	637	C	C2-N1-C1'	-6.68	111.45	118.80
36	5	1433	A	N1-C2-N3	6.68	132.64	129.30
36	1	959	C	C6-N1-C2	6.67	122.97	120.30
36	5	2234	G	N9-C4-C5	-6.67	102.73	105.40
36	5	371	G	C5-C6-O6	-6.67	124.60	128.60
1	2	144	U	N3-C2-O2	-6.67	117.53	122.20
1	6	610	G	C4-N9-C1'	6.67	135.17	126.50
36	5	2353	G	C5-C6-O6	-6.67	124.60	128.60
1	6	1667	A	OP1-P-OP2	-6.67	109.59	119.60
36	1	1117	G	N1-C6-O6	6.67	123.90	119.90
36	1	1466	G	C4-C5-N7	6.67	113.47	110.80
36	5	821	U	N3-C4-O4	-6.67	114.73	119.40
36	1	43	A	O5'-P-OP1	-6.66	99.70	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	273	A	N1-C6-N6	-6.66	114.61	118.60
36	5	2550	U	C5-C4-O4	6.66	129.89	125.90
1	2	831	U	C5-C6-N1	6.66	126.03	122.70
36	5	2884	C	C5-C4-N4	-6.66	115.54	120.20
36	1	2606	G	C8-N9-C1'	-6.65	118.35	127.00
15	C3	22	ALA	C-N-CD	-6.65	105.96	120.60
1	6	317	C	C2-N3-C4	-6.65	116.57	119.90
1	6	377	G	N3-C2-N2	6.65	124.56	119.90
36	5	1152	G	C4-C5-N7	6.65	113.46	110.80
36	5	2763	U	C5-C4-O4	-6.65	121.91	125.90
36	1	2718	U	N3-C2-O2	-6.65	117.55	122.20
36	5	1151	U	N1-C2-O2	-6.65	118.15	122.80
36	5	3047	U	N3-C4-C5	-6.65	110.61	114.60
36	1	3278	C	C2-N1-C1'	6.64	126.11	118.80
36	5	222	A	O5'-P-OP2	-6.64	99.72	105.70
36	5	2234	G	N1-C6-O6	6.64	123.89	119.90
1	2	448	C	C6-N1-C2	-6.64	117.64	120.30
1	2	830	U	N3-C2-O2	-6.64	117.55	122.20
36	1	1497	C	N3-C4-C5	-6.64	119.24	121.90
1	6	258	C	C6-N1-C2	6.64	122.95	120.30
1	2	1768	G	C4-C5-N7	-6.64	108.14	110.80
36	5	942	U	C5-C4-O4	-6.64	121.92	125.90
36	5	3190	C	N3-C4-C5	-6.64	119.25	121.90
1	2	831	U	C6-N1-C2	-6.63	117.02	121.00
36	5	609	G	C5-C6-N1	-6.63	108.18	111.50
36	5	2163	C	C4-C5-C6	6.63	120.72	117.40
36	1	3181	C	C6-N1-C2	-6.63	117.65	120.30
36	1	3377	G	C4-N9-C1'	6.63	135.12	126.50
36	1	2384	A	N3-C4-N9	6.63	132.70	127.40
36	5	1116	G	C4-C5-N7	-6.63	108.15	110.80
36	1	646	A	C8-N9-C4	-6.63	103.15	105.80
36	5	1171	G	N1-C2-N2	-6.63	110.24	116.20
36	5	2643	A	C8-N9-C4	6.63	108.45	105.80
36	1	1144	U	C5-C6-N1	-6.62	119.39	122.70
1	6	937	C	C6-N1-C2	-6.62	117.65	120.30
36	5	1483	G	O4'-C1'-N9	6.62	113.50	108.20
36	5	2318	U	N3-C2-O2	-6.62	117.57	122.20
36	1	2764	C	N1-C2-O2	-6.62	114.93	118.90
36	1	1445	U	C5-C6-N1	-6.62	119.39	122.70
36	5	2600	C	C6-N1-C2	-6.62	117.65	120.30
1	6	1117	U	O5'-P-OP1	6.61	118.63	110.70
1	6	1643	U	C2-N3-C4	-6.61	123.03	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2857	C	C6-N1-C2	6.61	122.94	120.30
1	2	1773	C	N3-C4-N4	6.61	122.62	118.00
36	1	2617	U	N3-C4-O4	-6.60	114.78	119.40
36	5	424	G	N9-C4-C5	-6.60	102.76	105.40
36	1	1315	U	C5-C6-N1	-6.60	119.40	122.70
36	1	2343	C	N3-C4-C5	6.60	124.54	121.90
36	1	1148	G	N7-C8-N9	-6.59	109.81	113.10
1	6	75	U	N1-C2-O2	6.59	127.41	122.80
37	7	100	C	C6-N1-C2	6.59	122.94	120.30
36	1	2943	G	C6-C5-N7	-6.59	126.45	130.40
1	6	1537	C	C6-N1-C1'	6.58	128.70	120.80
36	1	2978	U	N3-C2-O2	-6.58	117.59	122.20
1	2	639	U	N1-C2-O2	6.58	127.41	122.80
36	1	66	A	O5'-P-OP1	-6.58	99.78	105.70
36	5	2136	C	C4-C5-C6	6.58	120.69	117.40
36	5	2710	C	N1-C2-O2	-6.58	114.95	118.90
1	2	934	C	C2-N1-C1'	6.57	126.03	118.80
1	2	1456	C	C2-N1-C1'	6.57	126.03	118.80
36	5	1343	A	O5'-P-OP2	-6.57	99.78	105.70
36	1	1481	A	N1-C6-N6	6.57	122.54	118.60
38	4	56	G	O5'-P-OP2	-6.57	99.79	105.70
36	1	1556	C	C2-N1-C1'	6.57	126.03	118.80
36	1	2356	A	N1-C6-N6	6.57	122.54	118.60
36	1	2726	C	C2-N3-C4	-6.57	116.62	119.90
37	7	100	C	C5-C6-N1	-6.57	117.72	121.00
1	6	317	C	C5-C6-N1	-6.56	117.72	121.00
36	1	2601	A	C5-C6-N1	6.56	120.98	117.70
36	5	1416	C	N1-C2-O2	6.56	122.84	118.90
36	5	3339	A	N1-C6-N6	6.56	122.54	118.60
1	6	1793	G	C5-C6-O6	6.56	132.54	128.60
36	5	2144	A	O4'-C1'-N9	6.56	113.45	108.20
36	1	369	A	N3-C4-C5	-6.56	122.21	126.80
36	1	1303	A	N1-C6-N6	6.56	122.53	118.60
36	1	895	A	C4-C5-N7	6.55	113.98	110.70
36	1	2197	C	N1-C2-O2	6.55	122.83	118.90
36	5	1519	G	N1-C6-O6	6.55	123.83	119.90
36	1	2209	U	C5-C6-N1	6.55	125.97	122.70
1	6	384	G	C8-N9-C4	6.55	109.02	106.40
36	5	1085	A	O5'-P-OP1	-6.55	99.81	105.70
36	5	3324	C	C6-N1-C2	6.55	122.92	120.30
36	1	1124	U	C4-C5-C6	-6.55	115.77	119.70
36	1	3217	C	N3-C2-O2	-6.55	117.32	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	217	U	OP1-P-O3'	6.55	119.60	105.20
36	5	408	A	O5'-P-OP1	-6.55	99.81	105.70
36	1	1308	A	C5-C6-N1	-6.54	114.43	117.70
36	5	2355	G	C4-C5-N7	6.54	113.42	110.80
36	5	2649	A	C4-C5-N7	6.54	113.97	110.70
1	6	1117	U	O5'-P-OP2	-6.54	99.81	105.70
1	6	1600	A	C2-N3-C4	-6.54	107.33	110.60
36	5	1010	G	N3-C4-C5	-6.54	125.33	128.60
36	1	1119	C	C6-N1-C2	6.54	122.92	120.30
1	6	421	A	N9-C4-C5	-6.54	103.18	105.80
36	5	1167	U	N3-C4-O4	6.54	123.98	119.40
1	6	158	U	P-O3'-C3'	6.54	127.55	119.70
36	5	3330	A	C5-C6-N1	6.54	120.97	117.70
1	2	1761	U	C6-N1-C2	-6.54	117.08	121.00
36	1	285	A	N1-C6-N6	6.54	122.52	118.60
36	1	1114	U	N1-C2-O2	6.54	127.37	122.80
1	6	265	A	N1-C6-N6	6.54	122.52	118.60
36	5	217	U	C5-C6-N1	-6.54	119.43	122.70
36	5	349	A	N1-C6-N6	-6.53	114.68	118.60
1	2	1503	A	N1-C6-N6	6.53	122.52	118.60
36	1	439	C	C2-N1-C1'	6.53	125.98	118.80
38	8	3	A	C5-C6-N1	6.53	120.97	117.70
36	5	934	G	C4-N9-C1'	6.53	134.99	126.50
36	1	2618	G	C5-C6-N1	6.53	114.76	111.50
36	5	2411	U	C2-N3-C4	-6.53	123.08	127.00
36	5	2611	U	O5'-P-OP1	6.53	118.53	110.70
36	1	76	G	N3-C4-C5	-6.53	125.34	128.60
36	1	2802	A	OP2-P-O3'	6.52	119.55	105.20
41	14	339	LEU	CA-CB-CG	6.52	130.30	115.30
36	1	647	A	C8-N9-C4	6.52	108.41	105.80
36	5	2724	U	N3-C2-O2	-6.52	117.64	122.20
36	1	2374	C	C4-C5-C6	6.52	120.66	117.40
36	1	2355	G	N9-C4-C5	-6.52	102.79	105.40
1	6	308	C	N3-C4-N4	-6.52	113.44	118.00
36	5	739	G	N1-C6-O6	-6.52	115.99	119.90
36	5	2726	C	C6-N1-C2	-6.51	117.69	120.30
36	1	2156	C	C6-N1-C2	6.51	122.91	120.30
1	6	1029	U	N3-C4-O4	-6.51	114.84	119.40
36	1	939	U	N1-C2-O2	-6.51	118.24	122.80
36	1	2796	G	C2-N3-C4	-6.51	108.64	111.90
36	5	211	A	O5'-P-OP1	-6.51	99.84	105.70
36	1	517	G	N1-C6-O6	-6.51	116.00	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	645	A	C5-C6-N1	6.51	120.95	117.70
1	2	831	U	N3-C2-O2	-6.50	117.65	122.20
36	5	3377	G	C5-C6-N1	6.50	114.75	111.50
37	7	36	C	C6-N1-C2	6.50	122.90	120.30
36	5	2355	G	C5-C6-O6	-6.50	124.70	128.60
36	1	2112	U	P-O3'-C3'	6.50	127.50	119.70
36	5	2272	G	N1-C6-O6	-6.50	116.00	119.90
36	5	2953	U	N3-C2-O2	6.50	126.75	122.20
1	2	1096	C	C6-N1-C1'	-6.49	113.01	120.80
36	5	940	G	C5-C6-O6	-6.49	124.71	128.60
36	5	2354	C	N3-C4-N4	6.49	122.54	118.00
36	1	2541	U	C2-N1-C1'	6.49	125.49	117.70
1	6	101	U	N3-C2-O2	-6.49	117.66	122.20
36	1	1279	C	C5-C6-N1	6.49	124.24	121.00
36	5	1161	G	O5'-P-OP1	-6.49	99.86	105.70
36	1	2892	A	N1-C6-N6	-6.49	114.71	118.60
36	1	2130	G	N1-C6-O6	-6.48	116.01	119.90
36	5	1443	G	N1-C2-N2	-6.48	110.37	116.20
36	1	2725	U	N3-C4-O4	-6.48	114.86	119.40
36	1	3344	A	C5-N7-C8	-6.48	100.66	103.90
36	5	326	U	N3-C4-C5	-6.48	110.71	114.60
36	5	2887	A	C6-C5-N7	-6.48	127.77	132.30
36	5	3039	C	O5'-P-OP2	-6.48	99.87	105.70
36	1	2827	U	C5-C6-N1	-6.48	119.46	122.70
1	6	382	C	C2-N3-C4	-6.48	116.66	119.90
36	5	1843	C	C5-C4-N4	-6.47	115.67	120.20
36	5	1060	U	C5-C6-N1	-6.47	119.46	122.70
1	6	1637	C	C2-N1-C1'	6.47	125.92	118.80
1	2	1745	G	N9-C4-C5	-6.47	102.81	105.40
36	1	783	A	N1-C6-N6	6.47	122.48	118.60
1	2	1761	U	C5-C4-O4	6.46	129.78	125.90
36	1	2719	U	C6-N1-C1'	6.46	130.25	121.20
36	5	907	G	N3-C2-N2	6.46	124.42	119.90
1	6	1596	C	N3-C2-O2	-6.46	117.38	121.90
36	5	1434	G	C5-C6-O6	-6.46	124.72	128.60
36	1	2411	U	N3-C4-O4	-6.46	114.88	119.40
1	6	542	A	N7-C8-N9	6.46	117.03	113.80
36	5	880	G	C5-C6-O6	-6.46	124.73	128.60
36	5	1473	G	C8-N9-C4	6.46	108.98	106.40
36	5	2917	G	C6-C5-N7	-6.45	126.53	130.40
1	6	1657	U	N1-C2-O2	6.45	127.32	122.80
36	5	1302	A	N9-C4-C5	6.45	108.38	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	577	G	N1-C6-O6	6.45	123.77	119.90
36	5	3362	A	N7-C8-N9	6.45	117.02	113.80
36	5	2639	G	N1-C6-O6	6.45	123.77	119.90
36	1	894	G	N3-C4-N9	-6.45	122.13	126.00
36	1	1198	C	O5'-P-OP1	-6.45	99.90	105.70
36	1	1367	G	O5'-P-OP1	-6.45	99.90	105.70
36	1	2950	G	O4'-C1'-N9	6.45	113.36	108.20
36	1	3362	A	N1-C2-N3	6.45	132.52	129.30
36	5	3008	A	O5'-P-OP2	-6.45	99.90	105.70
1	6	1414	U	N3-C2-O2	-6.44	117.69	122.20
36	5	652	G	C6-C5-N7	-6.44	126.53	130.40
1	6	1109	G	C8-N9-C4	-6.44	103.82	106.40
36	5	2351	U	N1-C2-N3	6.44	118.76	114.90
38	8	95	G	C4-N9-C1'	-6.44	118.13	126.50
36	1	3209	A	N1-C6-N6	6.44	122.46	118.60
38	8	44	A	C5-C6-N6	-6.44	118.55	123.70
1	2	1462	G	C8-N9-C4	6.43	108.97	106.40
1	6	1280	C	C6-N1-C2	-6.43	117.73	120.30
36	1	1152	G	O5'-P-OP1	-6.43	99.91	105.70
36	1	1796	G	C8-N9-C4	-6.43	103.83	106.40
1	6	858	G	N7-C8-N9	6.43	116.32	113.10
36	5	2912	G	O5'-P-OP1	-6.43	99.91	105.70
36	1	1891	A	C8-N9-C4	6.43	108.37	105.80
36	5	3018	C	C6-N1-C2	-6.43	117.73	120.30
36	5	1592	G	C5-C6-N1	-6.42	108.29	111.50
36	5	3071	U	C5-C4-O4	6.42	129.75	125.90
1	6	902	G	C5-C6-N1	-6.42	108.29	111.50
36	5	1938	U	C6-N1-C2	6.42	124.85	121.00
36	1	2827	U	C2-N1-C1'	-6.42	109.99	117.70
36	5	1060	U	N3-C4-O4	-6.42	114.91	119.40
36	5	2531	C	N1-C2-O2	6.42	122.75	118.90
1	6	1735	U	N1-C2-O2	6.42	127.29	122.80
1	6	1794	A	O5'-P-OP1	-6.42	99.92	105.70
36	5	903	U	C5-C6-N1	-6.42	119.49	122.70
36	5	1112	A	C5-C6-N1	6.42	120.91	117.70
36	5	1466	G	OP1-P-OP2	-6.42	109.97	119.60
36	5	2287	C	C6-N1-C2	-6.42	117.73	120.30
36	5	3089	C	N3-C4-C5	6.42	124.47	121.90
36	5	3151	U	C6-N1-C2	6.42	124.85	121.00
38	8	45	C	C6-N1-C2	-6.42	117.73	120.30
1	6	163	G	C8-N9-C4	-6.41	103.83	106.40
36	5	637	C	N1-C2-O2	-6.41	115.05	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	84	A	N1-C6-N6	6.41	122.45	118.60
36	1	894	G	N9-C4-C5	6.41	107.96	105.40
1	6	453	U	N1-C2-O2	6.41	127.28	122.80
36	1	984	G	C6-N1-C2	-6.40	121.26	125.10
36	1	857	G	N1-C6-O6	6.40	123.74	119.90
1	6	75	U	C2-N1-C1'	6.40	125.38	117.70
1	2	554	C	C6-N1-C1'	-6.40	113.12	120.80
36	1	1481	A	C6-C5-N7	-6.40	127.82	132.30
36	5	2231	C	O4'-C1'-N1	6.40	113.32	108.20
36	1	1133	A	C8-N9-C4	6.40	108.36	105.80
36	5	1370	G	C6-N1-C2	-6.39	121.26	125.10
36	5	1868	G	C8-N9-C4	6.39	108.96	106.40
38	4	125	U	N1-C2-O2	6.39	127.27	122.80
1	6	687	G	N3-C4-N9	-6.39	122.17	126.00
36	1	232	G	C6-C5-N7	-6.39	126.57	130.40
1	6	425	A	C5-C6-N1	6.39	120.89	117.70
7	s5	92	ARG	NE-CZ-NH1	6.39	123.49	120.30
36	1	156	G	C5-C6-N1	6.39	114.69	111.50
36	1	894	G	N1-C2-N2	6.39	121.95	116.20
36	5	2943	G	C2-N3-C4	-6.39	108.71	111.90
1	2	694	U	C2-N1-C1'	6.38	125.36	117.70
38	4	125	U	C2-N1-C1'	6.38	125.36	117.70
36	5	934	G	N3-C4-C5	-6.38	125.41	128.60
37	7	77	G	N1-C6-O6	6.38	123.73	119.90
40	l3	26	ARG	NE-CZ-NH1	-6.38	117.11	120.30
36	1	326	U	N3-C4-O4	6.38	123.87	119.40
36	5	2139	A	N1-C2-N3	6.38	132.49	129.30
36	1	96	G	N1-C6-O6	6.38	123.73	119.90
36	1	968	G	C5-C6-O6	-6.38	124.77	128.60
1	6	858	G	C5-N7-C8	-6.38	101.11	104.30
1	6	1584	G	C5-C6-O6	-6.38	124.77	128.60
21	c9	57	ARG	NE-CZ-NH1	6.38	123.49	120.30
36	1	2355	G	C5-C6-O6	-6.38	124.77	128.60
1	6	901	G	C4-C5-N7	6.38	113.35	110.80
36	5	2350	C	O5'-P-OP2	-6.38	99.96	105.70
36	5	2860	U	C5-C4-O4	6.38	129.73	125.90
36	1	1269	U	C2-N1-C1'	6.38	125.35	117.70
36	5	894	G	C5-C6-O6	-6.38	124.78	128.60
36	5	1112	A	N3-C4-N9	6.37	132.50	127.40
36	5	3218	A	N9-C4-C5	-6.37	103.25	105.80
36	1	1405	U	C6-N1-C2	6.37	124.82	121.00
36	1	961	C	N3-C4-N4	6.37	122.46	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	307	G	N3-C4-N9	6.37	129.82	126.00
36	1	1849	C	N3-C2-O2	6.37	126.36	121.90
36	1	2610	G	N1-C6-O6	6.37	123.72	119.90
36	5	2391	G	OP1-P-OP2	-6.37	110.05	119.60
37	7	101	G	C4-C5-N7	6.36	113.34	110.80
36	1	2124	G	C5-C6-O6	-6.36	124.78	128.60
1	6	336	G	O5'-P-OP2	-6.36	99.98	105.70
1	6	1000	C	C2-N1-C1'	6.36	125.80	118.80
36	5	1833	G	N1-C6-O6	-6.36	116.08	119.90
36	1	1113	G	C5-C6-O6	-6.36	124.78	128.60
1	6	115	G	O5'-P-OP2	-6.36	99.98	105.70
1	6	136	C	C2-N1-C1'	6.36	125.79	118.80
36	5	2620	G	N9-C4-C5	6.35	107.94	105.40
36	1	1151	U	N3-C4-C5	-6.35	110.79	114.60
80	c0	97	PRO	N-CA-CB	6.35	110.92	103.30
36	5	1437	C	C2-N1-C1'	6.35	125.78	118.80
36	5	3208	G	N3-C4-N9	-6.35	122.19	126.00
36	5	2112	U	C6-N1-C2	-6.35	117.19	121.00
36	1	2624	G	N1-C6-O6	6.34	123.71	119.90
36	1	3140	G	N3-C4-N9	6.34	129.81	126.00
36	5	2724	U	C5-C4-O4	6.34	129.71	125.90
24	D2	65	LEU	CA-CB-CG	6.34	129.89	115.30
36	1	1743	G	C8-N9-C4	6.34	108.94	106.40
36	5	2882	U	N1-C2-N3	6.34	118.71	114.90
56	N0	155	ARG	NE-CZ-NH2	6.34	123.47	120.30
36	5	21	G	N3-C4-C5	6.34	131.77	128.60
36	5	398	A	O5'-P-OP2	-6.34	99.99	105.70
36	5	1316	C	N3-C2-O2	6.34	126.34	121.90
36	1	86	G	O5'-P-OP2	-6.34	99.99	105.70
36	5	112	U	O4'-C1'-N1	6.34	113.27	108.20
36	5	146	U	N3-C4-O4	-6.34	114.96	119.40
36	5	2403	G	O5'-P-OP1	6.34	118.31	110.70
1	6	250	C	C5-C6-N1	6.34	124.17	121.00
36	5	1604	G	C4-N9-C1'	6.34	134.74	126.50
36	5	3343	G	N3-C4-N9	6.34	129.80	126.00
36	5	1592	G	C8-N9-C4	-6.33	103.87	106.40
36	1	701	G	N1-C6-O6	6.33	123.70	119.90
36	1	3269	U	N1-C2-N3	6.33	118.70	114.90
1	6	387	A	N1-C6-N6	-6.33	114.80	118.60
1	6	1091	A	C5-C6-N1	-6.33	114.53	117.70
36	1	2249	G	N3-C4-N9	6.33	129.80	126.00
36	5	3387	U	C5-C6-N1	-6.33	119.53	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1377	G	C4-C5-N7	6.33	113.33	110.80
36	1	1402	C	N3-C4-C5	6.33	124.43	121.90
36	5	1340	G	C8-N9-C4	6.33	108.93	106.40
36	1	2121	G	N3-C4-C5	-6.33	125.44	128.60
36	5	1316	C	N3-C4-N4	6.33	122.43	118.00
36	5	2117	A	N1-C6-N6	-6.33	114.81	118.60
36	5	2957	G	O5'-P-OP1	-6.33	100.01	105.70
36	1	717	C	C6-N1-C2	-6.32	117.77	120.30
36	1	1341	U	N3-C2-O2	-6.32	117.77	122.20
1	6	1473	U	N3-C2-O2	-6.32	117.77	122.20
38	8	139	U	N3-C4-O4	-6.32	114.97	119.40
1	6	1514	U	C5-C4-O4	6.32	129.69	125.90
36	1	664	U	N3-C4-O4	6.32	123.83	119.40
36	5	934	G	C5-C6-O6	-6.32	124.81	128.60
36	5	2397	A	N1-C6-N6	-6.32	114.81	118.60
1	6	17	C	O5'-P-OP2	-6.32	100.01	105.70
36	5	27	C	N1-C2-O2	-6.32	115.11	118.90
36	1	919	U	N3-C4-O4	-6.32	114.98	119.40
36	1	3207	U	C5-C4-O4	6.32	129.69	125.90
36	1	281	G	C6-C5-N7	-6.31	126.61	130.40
36	1	1122	U	N3-C4-O4	-6.31	114.98	119.40
36	5	1441	G	C5-C6-N1	6.31	114.66	111.50
36	5	56	G	N1-C6-O6	-6.31	116.11	119.90
36	5	1438	U	C2-N1-C1'	6.31	125.27	117.70
36	1	2693	C	C6-N1-C2	6.31	122.82	120.30
1	6	1568	C	P-O3'-C3'	6.31	127.27	119.70
36	5	1445	U	N1-C2-O2	-6.31	118.39	122.80
36	1	120	G	C8-N9-C4	6.30	108.92	106.40
1	6	1146	G	C6-C5-N7	-6.30	126.62	130.40
3	s1	231	LEU	CA-CB-CG	6.30	129.80	115.30
36	5	2167	A	C8-N9-C4	-6.30	103.28	105.80
1	2	1768	G	C5-C6-O6	6.30	132.38	128.60
36	1	24	G	N3-C2-N2	-6.30	115.49	119.90
36	1	106	A	C8-N9-C4	6.30	108.32	105.80
36	1	3361	G	N3-C2-N2	6.30	124.31	119.90
36	5	2385	G	C4-N9-C1'	-6.30	118.31	126.50
36	5	3217	C	C2-N1-C1'	-6.30	111.87	118.80
38	4	40	A	N1-C6-N6	6.30	122.38	118.60
36	5	776	U	N1-C2-N3	6.30	118.68	114.90
36	5	1878	G	C4-N9-C1'	6.30	134.69	126.50
1	2	186	C	C2-N1-C1'	6.29	125.72	118.80
36	1	1866	C	C6-N1-C2	6.29	122.82	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1076	A	C8-N9-C4	6.29	108.32	105.80
36	5	1112	A	N3-C4-C5	-6.29	122.39	126.80
36	1	3010	U	C5-C4-O4	-6.29	122.12	125.90
36	5	2304	C	N1-C2-O2	-6.29	115.13	118.90
1	6	1164	G	C8-N9-C4	6.29	108.92	106.40
36	1	2621	G	N3-C2-N2	-6.29	115.50	119.90
38	4	21	C	C6-N1-C2	6.29	122.81	120.30
36	5	864	G	O5'-P-OP2	-6.29	100.04	105.70
36	1	1396	C	C5-C4-N4	-6.28	115.80	120.20
36	5	2396	G	N9-C4-C5	6.28	107.91	105.40
36	5	2817	A	C5-C6-N6	-6.28	118.67	123.70
1	6	425	A	C4-C5-C6	-6.28	113.86	117.00
1	6	1648	A	C8-N9-C4	6.28	108.31	105.80
36	5	2816	G	N7-C8-N9	-6.28	109.96	113.10
1	2	966	A	C5-C6-N6	-6.28	118.68	123.70
36	1	1463	U	C5-C6-N1	-6.28	119.56	122.70
36	1	783	A	N9-C4-C5	-6.27	103.29	105.80
36	5	3133	C	C4-C5-C6	6.27	120.54	117.40
1	6	1119	G	O5'-P-OP2	-6.27	100.06	105.70
36	1	2237	C	N1-C2-O2	6.27	122.66	118.90
36	1	2866	U	N3-C2-O2	-6.27	117.81	122.20
1	6	1269	U	N3-C2-O2	-6.27	117.81	122.20
36	5	1669	C	C6-N1-C2	6.27	122.81	120.30
36	5	2387	A	N1-C6-N6	6.27	122.36	118.60
36	5	3208	G	N9-C4-C5	6.27	107.91	105.40
1	6	337	G	C8-N9-C1'	-6.27	118.85	127.00
36	5	3308	C	C4-C5-C6	6.27	120.53	117.40
36	5	2622	C	C4-C5-C6	6.26	120.53	117.40
36	1	890	C	N3-C4-C5	6.26	124.40	121.90
1	6	1091	A	C2-N3-C4	-6.26	107.47	110.60
36	1	1111	U	C6-N1-C2	6.25	124.75	121.00
36	5	234	G	C5-C6-O6	-6.25	124.85	128.60
36	1	921	A	N1-C6-N6	-6.25	114.85	118.60
36	1	1481	A	C5-C6-N1	-6.25	114.58	117.70
36	1	3103	A	O5'-P-OP2	-6.25	100.08	105.70
36	5	2236	G	C6-C5-N7	-6.25	126.65	130.40
36	5	2248	C	OP1-P-O3'	6.25	118.94	105.20
36	1	2653	C	C5-C6-N1	-6.25	117.88	121.00
36	5	2341	A	O5'-P-OP2	-6.25	100.08	105.70
36	5	2917	G	C8-N9-C1'	-6.25	118.88	127.00
1	2	1200	G	N3-C2-N2	-6.25	115.53	119.90
36	1	979	U	C6-N1-C2	-6.24	117.25	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	917	A	O5'-P-OP1	6.24	118.19	110.70
1	6	577	G	N7-C8-N9	6.24	116.22	113.10
36	1	83	U	C5-C4-O4	-6.24	122.16	125.90
36	5	2960	C	N3-C4-C5	6.24	124.40	121.90
36	5	3034	C	C6-N1-C2	6.24	122.80	120.30
36	1	2949	U	C5-C6-N1	-6.24	119.58	122.70
1	2	1456	C	O4'-C1'-N1	6.23	113.19	108.20
38	4	40	A	C5-C6-N6	-6.23	118.71	123.70
1	6	1000	C	N3-C2-O2	-6.23	117.54	121.90
36	5	101	G	C6-C5-N7	-6.23	126.66	130.40
36	5	3141	A	C4-C5-C6	6.23	120.12	117.00
77	q1	23	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	6	119	A	C2-N3-C4	-6.23	107.49	110.60
1	6	815	G	C6-C5-N7	-6.23	126.66	130.40
36	5	146	U	C5-C6-N1	-6.23	119.59	122.70
36	5	804	C	C4-C5-C6	6.23	120.51	117.40
36	1	1129	A	N9-C4-C5	-6.22	103.31	105.80
1	6	1025	A	C2-N3-C4	-6.22	107.49	110.60
36	5	632	G	N3-C4-C5	-6.22	125.49	128.60
36	1	2283	G	N9-C4-C5	-6.22	102.91	105.40
36	1	2356	A	C5-C6-N6	-6.22	118.72	123.70
36	5	1863	G	C5-C6-N1	6.22	114.61	111.50
36	5	1081	U	C2-N1-C1'	6.22	125.16	117.70
36	5	1082	U	C2-N1-C1'	6.22	125.16	117.70
36	5	1156	C	N1-C2-O2	-6.22	115.17	118.90
36	1	1390	A	C8-N9-C4	-6.21	103.31	105.80
36	1	2871	G	C4-C5-C6	-6.21	115.07	118.80
36	1	2371	G	C5-C6-O6	-6.21	124.87	128.60
1	6	1582	U	C5-C6-N1	-6.21	119.59	122.70
36	1	2737	C	N3-C2-O2	6.21	126.25	121.90
36	1	25	U	C4-C5-C6	6.21	123.42	119.70
36	1	1556	C	N1-C2-O2	6.21	122.62	118.90
36	1	2585	G	N3-C4-C5	-6.21	125.50	128.60
1	2	1258	U	N3-C2-O2	-6.21	117.86	122.20
1	6	634	G	O5'-P-OP2	-6.21	100.11	105.70
36	5	2430	A	N1-C6-N6	6.20	122.32	118.60
36	1	608	A	C5-C6-N6	-6.20	118.74	123.70
1	6	1665	U	C6-N1-C2	6.20	124.72	121.00
1	2	1269	U	O4'-C1'-N1	6.20	113.16	108.20
36	1	3361	G	N3-C4-N9	6.20	129.72	126.00
36	1	1495	U	C2-N1-C1'	-6.20	110.26	117.70
36	1	2860	U	C5-C4-O4	-6.20	122.18	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1879	A	C6-C5-N7	-6.20	127.96	132.30
36	5	3362	A	C5-N7-C8	-6.20	100.80	103.90
36	5	2434	U	N3-C4-O4	-6.20	115.06	119.40
1	6	985	G	N3-C2-N2	-6.20	115.56	119.90
36	1	2762	A	O5'-P-OP1	6.19	118.13	110.70
36	1	1920	U	N3-C2-O2	-6.19	117.87	122.20
1	6	20	G	C5-C6-O6	-6.19	124.89	128.60
36	5	906	A	N1-C2-N3	6.19	132.40	129.30
36	5	2996	U	N1-C2-O2	6.19	127.14	122.80
36	5	1886	A	N1-C6-N6	6.19	122.31	118.60
1	2	553	G	C4-C5-N7	6.19	113.28	110.80
36	1	3199	G	C4-N9-C1'	-6.19	118.45	126.50
41	L4	327	LEU	CA-CB-CG	6.19	129.53	115.30
1	6	20	G	N1-C6-O6	6.19	123.61	119.90
38	8	55	U	N3-C4-C5	-6.19	110.89	114.60
36	5	969	C	O5'-P-OP1	-6.18	100.13	105.70
36	5	2350	C	O5'-P-OP1	6.18	118.12	110.70
36	1	949	C	C4-C5-C6	6.18	120.49	117.40
1	2	1096	C	N1-C2-O2	6.18	122.61	118.90
36	1	2404	A	C2-N3-C4	6.18	113.69	110.60
1	2	987	G	N1-C6-O6	-6.18	116.19	119.90
1	6	1722	A	C8-N9-C4	6.18	108.27	105.80
36	1	2603	G	N9-C4-C5	-6.18	102.93	105.40
38	8	95	G	N3-C4-N9	-6.18	122.29	126.00
1	2	158	U	P-O3'-C3'	6.17	127.11	119.70
36	5	3042	U	N1-C2-N3	6.17	118.60	114.90
36	1	2643	A	N9-C4-C5	-6.17	103.33	105.80
1	6	577	G	C5-N7-C8	-6.17	101.21	104.30
36	5	2332	A	C8-N9-C4	6.17	108.27	105.80
36	1	890	C	O5'-P-OP2	-6.17	100.15	105.70
36	1	2617	U	C4-C5-C6	6.17	123.40	119.70
80	c0	83	PRO	N-CA-CB	6.17	110.70	103.30
36	5	2584	G	C4-N9-C1'	6.17	134.52	126.50
1	2	373	G	N3-C4-C5	-6.17	125.52	128.60
36	1	1144	U	N3-C4-C5	6.17	118.30	114.60
1	6	426	G	N3-C4-C5	-6.17	125.52	128.60
36	5	570	A	N1-C6-N6	6.17	122.30	118.60
36	5	1902	G	C4-C5-N7	6.17	113.27	110.80
36	1	988	U	C2-N1-C1'	-6.17	110.30	117.70
1	6	1145	U	C4-C5-C6	6.16	123.40	119.70
1	6	1539	G	N3-C4-C5	6.16	131.68	128.60
36	5	3256	G	N1-C6-O6	6.16	123.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	44	A	N1-C6-N6	6.16	122.30	118.60
1	6	163	G	N1-C2-N2	6.16	121.75	116.20
36	5	2890	A	C4-C5-C6	6.16	120.08	117.00
1	6	144	U	O4'-C1'-N1	6.16	113.13	108.20
36	1	1390	A	N9-C4-C5	6.16	108.26	105.80
36	1	2884	C	C6-N1-C2	6.16	122.76	120.30
1	6	310	C	N3-C4-C5	-6.16	119.44	121.90
36	5	1392	G	C8-N9-C4	6.16	108.86	106.40
36	1	2658	G	C8-N9-C4	6.16	108.86	106.40
36	5	2699	G	C5-C6-O6	-6.16	124.91	128.60
36	1	2606	G	C4-N9-C1'	6.15	134.50	126.50
1	6	539	G	N3-C4-C5	6.15	131.68	128.60
36	5	1057	A	O5'-P-OP2	-6.15	100.16	105.70
36	1	1296	C	C6-N1-C2	-6.15	117.84	120.30
36	1	1318	A	C5-N7-C8	-6.15	100.83	103.90
1	6	1778	G	N1-C6-O6	-6.15	116.21	119.90
37	7	91	G	C6-C5-N7	-6.15	126.71	130.40
1	2	1745	G	N3-C2-N2	6.14	124.20	119.90
36	1	3278	C	N3-C2-O2	-6.14	117.60	121.90
36	5	2917	G	C4-N9-C1'	6.14	134.49	126.50
36	5	2341	A	N7-C8-N9	-6.14	110.73	113.80
36	1	939	U	O5'-P-OP2	-6.14	100.17	105.70
36	1	1835	A	C8-N9-C4	6.14	108.26	105.80
36	1	2434	U	N3-C4-O4	-6.14	115.10	119.40
11	s9	3	ARG	NE-CZ-NH2	6.14	123.37	120.30
36	5	2245	C	N3-C4-C5	-6.14	119.44	121.90
36	5	2849	C	N3-C2-O2	6.14	126.20	121.90
37	7	81	U	N3-C4-C5	6.14	118.28	114.60
1	2	1363	U	N1-C2-O2	6.14	127.10	122.80
36	1	2726	C	C6-N1-C2	-6.13	117.85	120.30
36	5	2943	G	O5'-P-OP2	-6.13	100.18	105.70
61	N5	34	LEU	CA-CB-CG	6.13	129.41	115.30
36	1	170	G	O5'-P-OP1	-6.13	100.18	105.70
36	1	1476	G	N1-C6-O6	-6.13	116.22	119.90
36	1	3022	G	O4'-C1'-N9	6.13	113.10	108.20
38	4	31	G	C8-N9-C4	6.13	108.85	106.40
36	5	2139	A	C6-N1-C2	-6.13	114.92	118.60
36	1	2731	U	N1-C2-O2	-6.13	118.51	122.80
1	2	453	U	C5-C4-O4	6.12	129.57	125.90
36	1	984	G	C5-C6-O6	-6.12	124.93	128.60
36	1	1433	A	C5-C6-N6	-6.12	118.81	123.70
36	1	197	G	N1-C6-O6	6.12	123.57	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1157	G	N9-C4-C5	6.12	107.85	105.40
36	1	1397	C	C2-N3-C4	-6.12	116.84	119.90
36	5	1903	U	C5-C4-O4	6.12	129.57	125.90
36	5	2953	U	N3-C4-O4	6.12	123.68	119.40
36	5	41	G	C5-N7-C8	-6.11	101.25	104.30
36	5	645	A	C6-N1-C2	-6.11	114.93	118.60
36	5	1302	A	C5-C6-N6	6.11	128.59	123.70
36	1	3364	C	O5'-P-OP1	-6.11	100.20	105.70
36	5	2354	C	C4-C5-C6	6.11	120.45	117.40
48	m1	12	LEU	CA-CB-CG	6.11	129.35	115.30
36	1	672	A	C2-N3-C4	-6.11	107.55	110.60
36	5	220	G	OP1-P-O3'	6.11	118.63	105.20
1	2	1754	A	N3-C4-C5	6.10	131.07	126.80
36	1	142	C	C5-C6-N1	6.10	124.05	121.00
36	5	63	A	N9-C4-C5	-6.10	103.36	105.80
1	2	1530	C	O5'-P-OP2	-6.10	100.21	105.70
1	6	1774	G	O5'-P-OP2	6.10	118.02	110.70
36	5	2351	U	C6-N1-C2	-6.10	117.34	121.00
36	1	2418	G	N3-C4-C5	-6.09	125.55	128.60
36	5	75	G	C6-C5-N7	-6.09	126.74	130.40
36	5	420	G	C8-N9-C4	6.09	108.84	106.40
36	5	501	A	N1-C6-N6	-6.09	114.94	118.60
36	5	969	C	C4-C5-C6	6.09	120.45	117.40
36	1	96	G	N3-C4-C5	6.09	131.65	128.60
36	1	2124	G	N1-C6-O6	6.09	123.56	119.90
36	1	2889	C	N1-C2-O2	6.09	122.56	118.90
36	5	969	C	C5-C6-N1	-6.09	117.95	121.00
36	5	2430	A	C6-C5-N7	-6.09	128.03	132.30
36	1	3377	G	N3-C2-N2	6.09	124.16	119.90
38	4	113	U	C2-N1-C1'	-6.09	110.39	117.70
36	5	835	G	O4'-C1'-N9	6.09	113.07	108.20
36	5	1371	G	N1-C6-O6	-6.09	116.25	119.90
36	1	2993	G	C8-N9-C4	6.09	108.84	106.40
36	1	49	A	C8-N9-C4	6.09	108.23	105.80
36	5	1116	G	N3-C2-N2	-6.09	115.64	119.90
36	1	1503	A	C8-N9-C4	6.09	108.23	105.80
1	6	625	C	C6-N1-C2	6.09	122.73	120.30
36	5	79	U	C5-C6-N1	6.08	125.74	122.70
36	1	339	C	C5-C4-N4	6.08	124.46	120.20
36	1	878	G	N3-C4-C5	6.08	131.64	128.60
36	5	961	C	OP1-P-OP2	-6.08	110.48	119.60
36	5	2970	C	O5'-P-OP1	-6.08	100.22	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2925	C	O5'-P-OP1	-6.08	100.23	105.70
1	6	65	A	N3-C4-C5	6.08	131.06	126.80
36	5	2971	A	O5'-P-OP2	-6.08	100.23	105.70
36	1	1465	A	C2-N3-C4	-6.08	107.56	110.60
36	1	2435	G	C2-N3-C4	-6.08	108.86	111.90
36	5	3216	G	C6-C5-N7	-6.08	126.75	130.40
1	6	542	A	P-O3'-C3'	6.08	126.99	119.70
36	5	75	G	N3-C4-N9	6.08	129.65	126.00
36	1	1151	U	C6-N1-C2	-6.07	117.36	121.00
9	s7	131	PHE	C-N-CD	6.07	141.15	128.40
36	5	2381	G	N3-C4-C5	-6.07	125.56	128.60
1	6	1	U	O4'-C1'-N1	6.07	113.06	108.20
36	5	3030	G	C5-N7-C8	6.07	107.34	104.30
1	2	829	A	P-O3'-C3'	6.07	126.98	119.70
36	1	1346	G	C5-C6-N1	-6.07	108.46	111.50
38	4	103	G	C5-C6-N1	6.07	114.53	111.50
36	5	2978	U	N3-C2-O2	-6.07	117.95	122.20
36	1	3319	U	P-O3'-C3'	6.07	126.98	119.70
21	c9	57	ARG	NE-CZ-NH2	-6.07	117.27	120.30
36	5	2830	G	N1-C2-N2	-6.07	110.74	116.20
1	2	448	C	N3-C4-C5	-6.07	119.47	121.90
36	1	2242	A	N1-C2-N3	6.07	132.33	129.30
1	6	46	A	C2-N3-C4	-6.07	107.57	110.60
1	6	528	U	N3-C2-O2	-6.07	117.95	122.20
36	1	1850	A	N1-C6-N6	6.07	122.24	118.60
36	5	2897	A	C6-N1-C2	-6.07	114.96	118.60
1	2	1412	G	O4'-C1'-N9	6.06	113.05	108.20
36	5	63	A	N1-C6-N6	6.06	122.24	118.60
36	1	395	A	C8-N9-C4	-6.06	103.38	105.80
36	1	416	A	C5-N7-C8	6.06	106.93	103.90
36	1	2123	G	C8-N9-C4	6.06	108.83	106.40
36	5	2811	A	N1-C2-N3	6.06	132.33	129.30
36	5	3107	U	O5'-P-OP2	-6.06	100.25	105.70
1	6	343	C	N1-C2-O2	-6.06	115.27	118.90
36	1	3344	A	C6-C5-N7	-6.06	128.06	132.30
36	5	342	A	N1-C2-N3	-6.06	126.27	129.30
36	1	324	A	C8-N9-C4	-6.05	103.38	105.80
36	1	942	U	OP1-P-OP2	-6.05	110.52	119.60
36	1	1310	G	C5-C6-O6	6.05	132.23	128.60
36	5	2617	U	N3-C4-C5	-6.05	110.97	114.60
1	2	966	A	N9-C4-C5	-6.05	103.38	105.80
1	2	1189	A	C8-N9-C4	6.05	108.22	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1058	U	O5'-P-OP1	6.05	117.96	110.70
36	1	1548	C	N1-C2-O2	-6.05	115.27	118.90
1	6	787	G	C4-N9-C1'	6.05	134.37	126.50
36	5	770	G	O4'-C1'-N9	6.05	113.04	108.20
1	2	377	G	C8-N9-C4	6.05	108.82	106.40
21	C9	57	ARG	NE-CZ-NH1	6.05	123.33	120.30
1	6	1389	C	C6-N1-C2	-6.05	117.88	120.30
1	6	1657	U	N3-C2-O2	-6.05	117.97	122.20
36	5	3362	A	N1-C2-N3	6.05	132.32	129.30
36	1	1534	A	N1-C6-N6	6.05	122.23	118.60
37	7	103	A	C5-C6-N6	-6.05	118.86	123.70
18	C6	28	LEU	CA-CB-CG	6.05	129.21	115.30
1	6	385	A	C5-C6-N6	6.05	128.54	123.70
1	6	425	A	OP2-P-O3'	6.05	118.50	105.20
36	5	614	C	C6-N1-C2	6.05	122.72	120.30
36	5	911	C	C5-C6-N1	-6.05	117.98	121.00
36	5	2620	G	C5-C6-N1	6.05	114.52	111.50
36	5	2756	C	C6-N1-C2	6.05	122.72	120.30
36	1	1336	U	O5'-P-OP1	6.04	117.95	110.70
36	1	1417	G	C8-N9-C4	6.04	108.82	106.40
1	6	1522	U	N3-C2-O2	-6.04	117.97	122.20
36	1	1296	C	C4-C5-C6	6.04	120.42	117.40
36	5	271	C	N1-C2-O2	6.04	122.53	118.90
36	1	1535	A	C5-C6-N6	-6.04	118.87	123.70
1	2	694	U	N1-C2-O2	6.04	127.03	122.80
36	1	3368	U	C2-N1-C1'	-6.04	110.46	117.70
36	5	3047	U	C4-C5-C6	6.04	123.32	119.70
36	1	1365	G	N1-C2-N2	-6.03	110.77	116.20
36	1	1891	A	C2-N3-C4	-6.03	107.58	110.60
36	1	2283	G	N3-C4-C5	6.03	131.62	128.60
38	4	113	U	C4-C5-C6	6.03	123.32	119.70
36	5	894	G	C4-C5-N7	6.03	113.21	110.80
36	5	2649	A	C5-N7-C8	-6.03	100.88	103.90
36	1	696	C	N3-C4-C5	6.03	124.31	121.90
36	1	3050	U	N1-C2-O2	6.03	127.02	122.80
38	4	65	A	C8-N9-C4	6.03	108.21	105.80
1	6	976	G	C2-N3-C4	-6.03	108.89	111.90
1	6	1007	C	N3-C4-N4	-6.03	113.78	118.00
36	5	1181	U	N3-C2-O2	-6.03	117.98	122.20
36	1	1103	A	P-O3'-C3'	6.03	126.93	119.70
36	1	2886	U	N3-C4-O4	6.03	123.62	119.40
36	5	1896	A	O5'-P-OP1	-6.03	100.28	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2960	C	C2-N3-C4	-6.03	116.89	119.90
36	5	3212	C	C2-N1-C1'	-6.03	112.17	118.80
36	1	1192	C	C6-N1-C1'	-6.03	113.57	120.80
36	5	1495	U	C5-C6-N1	6.03	125.71	122.70
36	5	2147	A	N9-C4-C5	-6.03	103.39	105.80
36	1	63	A	C8-N9-C4	-6.02	103.39	105.80
36	5	1152	G	N1-C2-N3	6.02	127.51	123.90
36	5	2411	U	C6-N1-C2	6.02	124.61	121.00
36	1	857	G	C5-C6-N1	-6.02	108.49	111.50
36	1	2413	A	C8-N9-C4	6.02	108.21	105.80
36	5	3368	U	C2-N1-C1'	-6.02	110.48	117.70
36	1	3181	C	N3-C2-O2	-6.02	117.69	121.90
1	6	542	A	C8-N9-C4	-6.02	103.39	105.80
1	6	1162	C	C6-N1-C2	-6.02	117.89	120.30
36	1	648	C	O5'-P-OP1	-6.02	100.29	105.70
1	6	301	A	O5'-P-OP2	-6.02	100.29	105.70
36	5	1113	G	C5-C6-N1	-6.02	108.49	111.50
36	1	2153	U	C6-N1-C2	-6.01	117.39	121.00
73	O7	45	ARG	NE-CZ-NH1	-6.01	117.29	120.30
36	5	1841	A	O5'-P-OP1	-6.01	100.29	105.70
1	6	309	C	C4-C5-C6	6.01	120.41	117.40
1	6	1164	G	C5-C6-O6	-6.01	124.99	128.60
1	6	999	U	N3-C4-C5	6.01	118.21	114.60
36	5	3216	G	N1-C6-O6	6.01	123.51	119.90
1	2	507	U	N1-C2-O2	6.01	127.00	122.80
36	5	1372	C	N3-C4-C5	-6.01	119.50	121.90
50	m4	72	LEU	CA-CB-CG	6.01	129.12	115.30
36	5	2917	G	N3-C4-C5	-6.01	125.60	128.60
1	2	987	G	C5-C6-O6	6.00	132.20	128.60
1	6	815	G	N7-C8-N9	6.00	116.10	113.10
1	6	1010	C	O5'-P-OP2	-6.00	100.30	105.70
36	5	283	G	C5-C6-N1	6.00	114.50	111.50
36	5	1110	U	N3-C2-O2	-6.00	118.00	122.20
36	1	2621	G	O5'-P-OP1	6.00	117.90	110.70
36	5	1200	A	C6-C5-N7	-6.00	128.10	132.30
36	1	917	A	O5'-P-OP1	6.00	117.90	110.70
36	5	2710	C	N3-C2-O2	6.00	126.10	121.90
36	5	330	G	C8-N9-C4	6.00	108.80	106.40
37	7	49	G	C5-C6-N1	-6.00	108.50	111.50
36	1	273	A	C5-N7-C8	6.00	106.90	103.90
36	1	1838	G	C5-C6-O6	-6.00	125.00	128.60
36	1	3034	C	N3-C2-O2	-6.00	117.70	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	280	U	C2-N1-C1'	6.00	124.90	117.70
36	5	2717	U	N1-C2-N3	6.00	118.50	114.90
36	1	339	C	OP1-P-OP2	-6.00	110.60	119.60
36	1	935	U	N3-C2-O2	-6.00	118.00	122.20
37	7	37	G	N9-C4-C5	-6.00	103.00	105.40
36	1	1062	A	N1-C6-N6	-5.99	115.00	118.60
36	5	1449	A	C6-C5-N7	-5.99	128.10	132.30
36	5	66	A	N9-C4-C5	-5.99	103.40	105.80
36	5	831	G	C5-C6-O6	-5.99	125.00	128.60
36	1	1157	G	N1-C6-O6	-5.99	116.31	119.90
36	1	2613	U	N3-C4-C5	-5.99	111.01	114.60
36	1	2643	A	O5'-P-OP1	-5.99	100.31	105.70
36	5	209	A	C6-C5-N7	-5.99	128.11	132.30
36	1	1269	U	N1-C2-O2	5.99	126.99	122.80
36	5	1056	U	N1-C2-N3	5.99	118.49	114.90
36	1	1157	G	OP2-P-O3'	5.98	118.36	105.20
36	1	3344	A	C8-N9-C4	-5.98	103.41	105.80
1	6	1560	U	N3-C2-O2	-5.98	118.01	122.20
36	5	1495	U	C2-N1-C1'	5.98	124.88	117.70
36	5	2156	C	N3-C4-C5	5.98	124.29	121.90
38	4	53	A	C2-N3-C4	5.98	113.59	110.60
1	2	765	G	O4'-C1'-N9	-5.98	103.42	108.20
1	2	1324	G	C8-N9-C1'	5.98	134.77	127.00
1	6	582	U	C2-N1-C1'	5.98	124.88	117.70
36	5	1533	U	N3-C2-O2	-5.98	118.02	122.20
36	1	1445	U	C2-N3-C4	-5.98	123.41	127.00
36	5	394	G	N1-C6-O6	-5.98	116.31	119.90
36	5	2306	C	O5'-P-OP2	-5.98	100.32	105.70
36	5	2707	C	N3-C4-C5	5.98	124.29	121.90
1	2	1082	C	C6-N1-C2	-5.98	117.91	120.30
36	1	1445	U	N1-C2-O2	-5.98	118.62	122.80
1	6	426	G	C4-N9-C1'	5.97	134.27	126.50
1	6	1145	U	N3-C4-O4	5.97	123.58	119.40
1	6	1745	G	N9-C4-C5	-5.97	103.01	105.40
36	5	283	G	C6-C5-N7	-5.97	126.82	130.40
36	5	2412	G	N3-C4-C5	-5.97	125.61	128.60
36	1	1868	G	C4-C5-N7	5.97	113.19	110.80
36	1	670	C	C4-C5-C6	5.97	120.39	117.40
36	1	2727	A	C2-N3-C4	5.97	113.58	110.60
37	3	84	A	C6-C5-N7	-5.97	128.12	132.30
36	1	1556	C	C6-N1-C2	-5.97	117.91	120.30
36	5	652	G	C4-C5-C6	5.97	122.38	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2255	A	O5'-P-OP1	-5.97	100.33	105.70
36	5	343	U	O5'-P-OP1	-5.97	100.33	105.70
36	1	86	G	C8-N9-C4	-5.97	104.01	106.40
1	6	295	A	C8-N9-C4	5.97	108.19	105.80
1	6	1020	A	C8-N9-C4	-5.97	103.41	105.80
36	5	890	C	C6-N1-C2	5.97	122.69	120.30
36	5	3339	A	C5-C6-N6	-5.97	118.93	123.70
36	1	81	C	C5-C6-N1	-5.96	118.02	121.00
36	1	1313	G	C5-C6-N1	5.96	114.48	111.50
36	5	1000	C	C6-N1-C2	5.96	122.69	120.30
36	1	518	G	O4'-C1'-N9	5.96	112.97	108.20
37	7	37	G	N3-C4-N9	5.96	129.58	126.00
1	6	596	C	C6-N1-C2	5.96	122.68	120.30
36	5	2640	A	C8-N9-C4	5.96	108.18	105.80
36	5	3154	C	C6-N1-C2	-5.96	117.92	120.30
36	1	435	C	C5-C6-N1	-5.96	118.02	121.00
36	1	783	A	C8-N9-C4	5.96	108.18	105.80
36	1	2779	A	O5'-P-OP2	-5.96	100.34	105.70
36	1	2867	C	C5-C6-N1	-5.96	118.02	121.00
36	1	2993	G	OP1-P-OP2	5.96	128.54	119.60
36	1	3049	A	N1-C6-N6	5.96	122.17	118.60
36	1	797	U	OP2-P-O3'	5.96	118.30	105.20
36	1	1162	U	N3-C2-O2	-5.96	118.03	122.20
1	6	858	G	C4-N9-C1'	5.96	134.24	126.50
1	2	543	C	N1-C2-O2	5.95	122.47	118.90
36	1	231	G	O5'-P-OP2	-5.95	100.34	105.70
36	1	906	A	C5-C6-N6	-5.95	118.94	123.70
36	1	943	U	N3-C2-O2	-5.95	118.03	122.20
36	1	1556	C	N3-C2-O2	-5.95	117.73	121.90
36	5	1167	U	C5-C4-O4	-5.95	122.33	125.90
36	5	2392	C	N1-C2-O2	-5.95	115.33	118.90
36	1	2418	G	N3-C4-N9	5.95	129.57	126.00
1	2	1324	G	C4-C5-N7	-5.95	108.42	110.80
36	1	104	G	C5-C6-O6	-5.95	125.03	128.60
36	1	347	G	C5-C6-O6	-5.95	125.03	128.60
38	4	97	A	N1-C6-N6	-5.95	115.03	118.60
36	5	3245	A	C8-N9-C4	-5.95	103.42	105.80
73	o7	65	ARG	NE-CZ-NH1	5.95	123.28	120.30
36	1	3377	G	N1-C2-N2	-5.95	110.85	116.20
36	5	1924	U	C6-N1-C2	5.95	124.57	121.00
1	2	1768	G	C4-N9-C1'	-5.95	118.77	126.50
36	1	232	G	C4-C5-C6	5.95	122.37	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1774	G	N1-C6-O6	-5.94	116.33	119.90
36	1	875	G	N3-C2-N2	-5.94	115.74	119.90
36	5	2421	U	N1-C2-N3	5.94	118.47	114.90
1	2	334	G	N3-C4-C5	5.94	131.57	128.60
36	1	633	C	C4-C5-C6	5.94	120.37	117.40
36	5	2283	G	O5'-P-OP2	-5.94	100.35	105.70
36	1	2218	G	C8-N9-C4	5.94	108.78	106.40
1	6	804	A	N1-C6-N6	5.94	122.16	118.60
36	5	1109	U	N1-C2-O2	5.94	126.96	122.80
36	5	1391	C	N1-C2-O2	-5.94	115.34	118.90
36	5	2953	U	N1-C2-O2	-5.94	118.64	122.80
1	2	19	A	N1-C6-N6	5.94	122.16	118.60
1	2	1462	G	N9-C4-C5	-5.94	103.03	105.40
36	1	639	G	C6-C5-N7	-5.94	126.84	130.40
36	5	2743	A	N7-C8-N9	-5.94	110.83	113.80
36	5	150	A	N1-C6-N6	5.93	122.16	118.60
36	5	1056	U	C6-N1-C2	-5.93	117.44	121.00
36	5	1398	U	C5-C4-O4	5.93	129.46	125.90
36	5	1678	G	N1-C6-O6	-5.93	116.34	119.90
36	1	281	G	N1-C6-O6	5.93	123.46	119.90
36	5	1899	G	N9-C4-C5	5.93	107.77	105.40
36	1	78	U	N1-C2-N3	5.93	118.46	114.90
36	5	37	U	N1-C2-N3	5.93	118.46	114.90
36	5	1303	A	N7-C8-N9	-5.93	110.83	113.80
36	1	908	G	C4-N9-C1'	5.93	134.21	126.50
36	1	677	A	C8-N9-C4	5.93	108.17	105.80
36	1	2641	U	C5-C6-N1	-5.93	119.74	122.70
36	1	2946	A	N1-C6-N6	5.93	122.16	118.60
1	6	1765	A	O5'-P-OP1	-5.93	100.37	105.70
36	1	282	G	O5'-P-OP1	-5.92	100.37	105.70
36	1	1913	A	C8-N9-C4	5.92	108.17	105.80
36	5	2333	C	C6-N1-C2	5.92	122.67	120.30
37	7	91	G	C4-C5-N7	5.92	113.17	110.80
36	1	3322	A	N1-C6-N6	5.92	122.15	118.60
36	5	875	G	N3-C4-C5	-5.92	125.64	128.60
36	5	1931	U	C5-C6-N1	-5.92	119.74	122.70
36	5	3304	U	OP1-P-OP2	5.92	128.48	119.60
36	1	1296	C	N1-C2-N3	5.92	123.34	119.20
36	1	1133	A	N9-C4-C5	-5.92	103.43	105.80
36	1	2550	U	N1-C2-N3	5.92	118.45	114.90
80	c0	88	PRO	N-CA-CB	5.92	110.40	103.30
36	1	677	A	N1-C6-N6	5.92	122.15	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1909	A	C5-C6-N6	-5.92	118.97	123.70
1	6	1389	C	C2-N1-C1'	5.92	125.31	118.80
36	5	609	G	C6-C5-N7	-5.92	126.85	130.40
36	1	652	G	N3-C2-N2	5.91	124.04	119.90
36	1	1142	G	O5'-P-OP2	-5.91	100.38	105.70
36	1	1335	C	C2-N3-C4	-5.91	116.94	119.90
36	5	370	U	N3-C2-O2	-5.91	118.06	122.20
36	5	383	G	C8-N9-C4	5.91	108.77	106.40
36	5	504	A	C4-C5-N7	5.91	113.66	110.70
36	5	2816	G	C5-C6-O6	-5.91	125.05	128.60
36	1	1904	C	C6-N1-C2	-5.91	117.94	120.30
1	6	1597	A	C8-N9-C4	5.91	108.16	105.80
36	5	1178	G	C5-N7-C8	-5.91	101.34	104.30
1	2	1749	A	C8-N9-C4	5.91	108.16	105.80
36	1	739	G	C8-N9-C4	5.91	108.76	106.40
36	5	1909	A	N7-C8-N9	-5.91	110.85	113.80
36	5	3266	G	C5-C6-O6	5.91	132.15	128.60
36	5	884	A	N3-C4-N9	-5.91	122.67	127.40
36	1	2610	G	C5-C6-O6	-5.91	125.06	128.60
37	3	92	A	N1-C2-N3	5.91	132.25	129.30
36	5	1181	U	C4-C5-C6	5.91	123.24	119.70
36	5	1939	G	C6-C5-N7	-5.91	126.86	130.40
36	5	2377	G	C8-N9-C4	5.90	108.76	106.40
1	6	1478	G	N3-C4-N9	5.90	129.54	126.00
36	5	1847	A	O5'-P-OP2	-5.90	100.39	105.70
36	5	1937	U	C5-C6-N1	-5.90	119.75	122.70
36	1	2384	A	C6-C5-N7	-5.90	128.17	132.30
36	5	2383	C	N3-C4-N4	5.90	122.13	118.00
1	2	1202	A	C8-N9-C4	-5.90	103.44	105.80
36	5	220	G	O5'-P-OP2	-5.90	100.39	105.70
36	5	1239	C	C2-N1-C1'	5.90	125.29	118.80
36	1	2695	A	C8-N9-C4	-5.90	103.44	105.80
41	L4	139	GLY	N-CA-C	-5.90	98.36	113.10
1	6	1389	C	N1-C2-O2	5.90	122.44	118.90
36	5	2215	A	C2-N3-C4	-5.90	107.65	110.60
36	5	1592	G	C5-C6-O6	5.90	132.14	128.60
36	1	365	A	N1-C2-N3	5.89	132.25	129.30
36	1	1416	C	N3-C2-O2	-5.89	117.77	121.90
36	1	3275	U	OP1-P-O3'	5.89	118.17	105.20
38	4	103	G	N3-C4-N9	5.89	129.54	126.00
36	5	938	C	C6-N1-C2	5.89	122.66	120.30
37	3	33	U	N3-C2-O2	-5.89	118.08	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	400	A	N1-C6-N6	5.89	122.14	118.60
36	5	3374	U	N3-C4-C5	5.89	118.14	114.60
1	2	1432	U	C5-C6-N1	-5.89	119.76	122.70
36	5	3008	A	O5'-P-OP1	5.89	117.77	110.70
36	5	3105	U	C5-C6-N1	-5.89	119.76	122.70
1	2	736	C	C2-N1-C1'	5.89	125.28	118.80
36	1	1489	A	C5-C6-N6	-5.89	118.99	123.70
36	1	2193	U	N3-C2-O2	-5.89	118.08	122.20
36	1	2601	A	N7-C8-N9	-5.89	110.86	113.80
1	6	1600	A	N1-C6-N6	5.89	122.13	118.60
1	6	1432	U	C5-C6-N1	-5.88	119.76	122.70
36	5	2698	G	C8-N9-C4	5.88	108.75	106.40
36	5	907	G	N1-C2-N2	-5.88	110.91	116.20
36	5	1843	C	C2-N1-C1'	5.88	125.27	118.80
36	5	2169	G	N1-C6-O6	-5.88	116.37	119.90
1	2	314	C	N3-C4-C5	5.88	124.25	121.90
36	5	3123	A	N9-C4-C5	-5.88	103.45	105.80
36	1	2408	U	N3-C4-C5	-5.88	111.07	114.60
36	1	3114	A	C8-N9-C4	5.88	108.15	105.80
38	4	13	A	N1-C6-N6	5.88	122.13	118.60
1	6	1535	U	N3-C2-O2	-5.88	118.08	122.20
36	5	2735	U	C2-N1-C1'	5.88	124.75	117.70
36	5	3054	U	O5'-P-OP2	-5.88	100.41	105.70
36	1	517	G	N3-C4-C5	-5.88	125.66	128.60
36	5	1893	A	C8-N9-C4	5.88	108.15	105.80
36	1	1906	G	O5'-P-OP1	-5.88	100.41	105.70
1	2	186	C	C5-C6-N1	5.87	123.94	121.00
1	6	1029	U	C2-N1-C1'	-5.87	110.65	117.70
36	5	504	A	C5-C6-N6	-5.87	119.00	123.70
36	5	1200	A	N3-C4-C5	-5.87	122.69	126.80
36	1	350	C	C6-N1-C2	-5.87	117.95	120.30
36	1	957	C	N1-C2-O2	-5.87	115.38	118.90
36	5	3245	A	C5-C6-N1	-5.87	114.76	117.70
1	2	720	G	OP1-P-O3'	5.87	118.11	105.20
36	1	1124	U	N1-C2-O2	5.87	126.91	122.80
1	6	163	G	C5-N7-C8	-5.87	101.37	104.30
36	5	2952	G	N1-C6-O6	-5.87	116.38	119.90
52	m6	27	LEU	CA-CB-CG	-5.87	101.81	115.30
1	2	404	G	C5-C6-O6	-5.87	125.08	128.60
36	5	3015	G	C5-C6-N1	-5.87	108.57	111.50
1	2	635	A	N1-C6-N6	5.86	122.12	118.60
36	1	2301	U	O5'-P-OP2	-5.86	100.42	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2942	C	N1-C2-O2	-5.86	115.38	118.90
36	1	3324	C	C6-N1-C2	5.86	122.64	120.30
36	5	3050	U	C5-C4-O4	5.86	129.42	125.90
36	1	2636	A	N7-C8-N9	5.86	116.73	113.80
1	6	1	U	C2-N1-C1'	5.86	124.73	117.70
1	6	1643	U	C5-C6-N1	-5.86	119.77	122.70
36	5	1694	U	N1-C2-N3	5.86	118.42	114.90
36	1	282	G	C2'-C3'-O3'	5.86	123.08	113.70
36	5	41	G	C4-C5-N7	5.86	113.14	110.80
36	5	1010	G	C2-N3-C4	5.86	114.83	111.90
36	1	788	C	C6-N1-C2	5.86	122.64	120.30
1	2	1600	A	C2-N3-C4	-5.86	107.67	110.60
1	6	961	U	C6-N1-C2	-5.86	117.49	121.00
36	1	582	G	N1-C6-O6	-5.85	116.39	119.90
36	1	895	A	C5-N7-C8	-5.85	100.97	103.90
36	1	3326	G	N9-C4-C5	-5.85	103.06	105.40
36	1	346	C	C5-C6-N1	-5.85	118.07	121.00
36	1	700	C	C6-N1-C2	5.85	122.64	120.30
36	5	1158	A	C5-C6-N6	-5.85	119.02	123.70
36	5	2524	A	C5-N7-C8	-5.85	100.97	103.90
36	1	1171	G	N7-C8-N9	-5.85	110.17	113.10
1	6	1029	U	C6-N1-C1'	5.85	129.39	121.20
36	1	1047	A	C5-N7-C8	-5.85	100.98	103.90
36	1	1856	C	C5-C4-N4	-5.85	116.11	120.20
36	1	3057	U	C6-N1-C2	-5.85	117.49	121.00
36	1	1868	G	C6-C5-N7	-5.85	126.89	130.40
36	5	1436	U	N3-C2-O2	-5.85	118.11	122.20
36	5	2295	A	O5'-P-OP2	-5.85	100.44	105.70
36	1	2871	G	C4-N9-C1'	-5.85	118.90	126.50
36	5	2288	G	N9-C4-C5	-5.85	103.06	105.40
47	m0	48	LEU	CA-CB-CG	5.85	128.75	115.30
36	1	808	A	N1-C2-N3	5.84	132.22	129.30
36	1	1905	G	N3-C4-N9	-5.84	122.49	126.00
36	1	3326	G	N3-C2-N2	5.84	123.99	119.90
36	5	427	C	O5'-P-OP1	-5.84	100.44	105.70
36	5	1115	G	C8-N9-C4	-5.84	104.06	106.40
36	5	2800	G	N3-C2-N2	-5.84	115.81	119.90
1	2	298	C	C6-N1-C2	5.84	122.64	120.30
36	5	1879	A	C4-C5-N7	5.84	113.62	110.70
36	5	3362	A	O4'-C1'-N9	5.84	112.87	108.20
36	5	3018	C	O5'-P-OP1	5.84	117.71	110.70
1	2	1600	A	C5-C6-N1	-5.84	114.78	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	339	C	N3-C4-N4	-5.84	113.91	118.00
36	1	24	G	C8-N9-C4	5.84	108.73	106.40
36	5	300	G	O5'-P-OP1	-5.84	100.45	105.70
36	5	1433	A	N9-C4-C5	5.84	108.14	105.80
36	5	3351	U	N3-C2-O2	-5.84	118.11	122.20
37	7	101	G	N9-C4-C5	-5.84	103.07	105.40
1	6	1782	A	N7-C8-N9	5.83	116.72	113.80
36	1	361	A	C8-N9-C4	5.83	108.13	105.80
36	1	1617	G	C8-N9-C4	5.83	108.73	106.40
36	5	939	U	O5'-P-OP2	-5.83	100.45	105.70
36	5	2919	A	C5-C6-N6	5.83	128.37	123.70
1	2	169	A	N1-C6-N6	5.83	122.10	118.60
36	1	2606	G	N9-C4-C5	-5.83	103.07	105.40
36	5	1902	G	C5-C6-N1	-5.83	108.58	111.50
36	5	2233	A	C8-N9-C4	5.83	108.13	105.80
36	5	2403	G	O5'-P-OP2	-5.83	100.45	105.70
1	6	310	C	N3-C4-N4	5.83	122.08	118.00
1	6	331	A	N1-C6-N6	-5.83	115.10	118.60
36	5	1116	G	N1-C2-N3	5.83	127.40	123.90
36	5	3287	U	N1-C2-O2	5.83	126.88	122.80
36	1	1604	G	C2-N3-C4	5.83	114.81	111.90
36	1	2372	A	C4-C5-C6	5.83	119.91	117.00
36	5	1847	A	N3-C4-C5	5.83	130.88	126.80
36	1	2314	U	C6-N1-C1'	-5.82	113.05	121.20
36	5	838	G	N1-C6-O6	-5.82	116.41	119.90
36	5	2271	A	N1-C2-N3	-5.82	126.39	129.30
36	1	2284	C	N3-C2-O2	-5.82	117.83	121.90
38	4	9	A	N1-C6-N6	-5.82	115.11	118.60
36	5	3041	U	N3-C4-C5	5.82	118.09	114.60
36	1	1224	C	C6-N1-C2	-5.82	117.97	120.30
36	1	1798	A	C2-N3-C4	-5.82	107.69	110.60
36	1	2916	U	OP1-P-O3'	5.82	118.00	105.20
36	1	3312	U	C5-C6-N1	-5.82	119.79	122.70
36	1	324	A	N1-C2-N3	5.82	132.21	129.30
36	5	2197	C	N3-C4-C5	5.82	124.23	121.90
36	5	2211	U	C5-C4-O4	5.82	129.39	125.90
36	5	2323	G	N9-C4-C5	5.82	107.73	105.40
1	2	1600	A	P-O3'-C3'	5.82	126.68	119.70
36	1	1537	A	N1-C6-N6	5.82	122.09	118.60
38	4	99	C	N3-C4-C5	5.82	124.23	121.90
37	7	92	A	C8-N9-C4	5.81	108.12	105.80
36	5	2639	G	C4-N9-C1'	5.81	134.06	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	89	G	C8-N9-C4	5.81	108.72	106.40
36	1	1114	U	N3-C2-O2	-5.81	118.13	122.20
36	1	2123	G	N7-C8-N9	-5.81	110.19	113.10
36	1	2791	G	C8-N9-C4	-5.81	104.08	106.40
70	O4	51	LEU	CA-CB-CG	5.81	128.66	115.30
36	5	1792	C	C6-N1-C2	5.81	122.62	120.30
36	5	2267	C	N3-C4-C5	5.81	124.22	121.90
36	1	1928	G	N3-C4-N9	-5.81	122.52	126.00
36	5	3147	G	C2-N3-C4	-5.81	109.00	111.90
37	7	98	C	O5'-P-OP2	-5.81	100.47	105.70
36	1	81	C	C6-N1-C2	5.81	122.62	120.30
36	1	1884	A	C5-C6-N6	-5.81	119.05	123.70
36	1	3318	G	C4-N9-C1'	5.81	134.05	126.50
38	8	17	A	N9-C4-C5	-5.81	103.48	105.80
36	1	919	U	N3-C4-C5	5.81	118.08	114.60
36	1	2617	U	N3-C2-O2	-5.81	118.14	122.20
36	1	3312	U	C6-N1-C2	5.81	124.48	121.00
1	6	359	A	N3-C4-C5	5.81	130.86	126.80
36	5	2383	C	N1-C2-O2	-5.81	115.42	118.90
36	5	2797	C	N1-C2-O2	-5.81	115.42	118.90
36	1	1099	A	OP1-P-OP2	-5.80	110.89	119.60
36	1	2935	U	C5-C6-N1	5.80	125.60	122.70
37	3	82	G	N1-C2-N3	5.80	127.38	123.90
1	6	1581	C	C6-N1-C2	5.80	122.62	120.30
36	5	3285	C	N1-C2-O2	5.80	122.38	118.90
36	1	1110	U	N3-C4-C5	5.80	118.08	114.60
36	1	3123	A	C2-N3-C4	-5.80	107.70	110.60
36	5	1207	G	N7-C8-N9	-5.80	110.20	113.10
1	2	73	U	OP1-P-O3'	5.80	117.96	105.20
36	1	1379	G	N1-C2-N3	5.80	127.38	123.90
36	1	780	A	N9-C4-C5	5.80	108.12	105.80
36	1	1369	A	O5'-P-OP1	-5.80	100.48	105.70
36	1	152	U	N3-C4-C5	-5.80	111.12	114.60
36	5	337	G	N3-C4-C5	-5.80	125.70	128.60
36	1	2394	G	C5-C6-O6	5.79	132.08	128.60
36	1	3270	U	C2-N1-C1'	-5.79	110.75	117.70
36	5	2288	G	C6-N1-C2	-5.79	121.62	125.10
36	5	2772	C	P-O3'-C3'	5.79	126.65	119.70
36	1	645	A	N3-C4-C5	-5.79	122.75	126.80
36	1	1715	A	O4'-C1'-N9	-5.79	103.57	108.20
36	1	3025	C	C6-N1-C2	5.79	122.62	120.30
36	5	776	U	N3-C2-O2	-5.79	118.15	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1084	A	C2-N3-C4	-5.79	107.70	110.60
36	1	2699	G	C5-C6-O6	-5.79	125.13	128.60
36	5	1724	U	C6-N1-C1'	5.79	129.31	121.20
1	6	1637	C	N1-C2-O2	5.79	122.37	118.90
36	5	2881	C	C6-N1-C2	5.79	122.62	120.30
36	5	2965	U	C5-C4-O4	-5.79	122.43	125.90
36	1	1307	G	N1-C6-O6	-5.79	116.43	119.90
36	5	2137	U	O5'-P-OP1	-5.79	100.49	105.70
36	1	2243	A	N1-C6-N6	-5.79	115.13	118.60
1	6	473	A	N1-C6-N6	-5.79	115.13	118.60
36	5	1389	G	C5-C6-O6	-5.79	125.13	128.60
36	5	2634	U	N3-C4-C5	5.78	118.07	114.60
36	1	2356	A	C4-C5-N7	5.78	113.59	110.70
36	5	1183	C	C6-N1-C2	5.78	122.61	120.30
36	1	2870	C	C2-N3-C4	-5.78	117.01	119.90
36	5	690	A	C8-N9-C4	5.78	108.11	105.80
36	5	2865	U	C5-C4-O4	-5.78	122.43	125.90
36	1	1389	G	C8-N9-C1'	-5.78	119.49	127.00
36	1	3143	C	N1-C2-O2	-5.78	115.43	118.90
36	5	1782	U	N1-C2-O2	-5.78	118.75	122.80
1	2	734	A	OP1-P-O3'	5.78	117.91	105.20
36	1	345	G	C4-C5-C6	5.78	122.27	118.80
36	1	650	C	C6-N1-C2	5.78	122.61	120.30
36	1	1405	U	N3-C2-O2	5.78	126.24	122.20
36	5	622	A	N1-C6-N6	5.78	122.07	118.60
1	2	942	G	N1-C6-O6	-5.78	116.44	119.90
1	6	863	A	N1-C6-N6	5.78	122.06	118.60
36	1	1397	C	N3-C4-C5	5.77	124.21	121.90
37	3	33	U	N1-C2-O2	5.77	126.84	122.80
36	5	921	A	C8-N9-C4	-5.77	103.49	105.80
1	2	1029	U	C5-C6-N1	-5.77	119.81	122.70
36	1	29	C	C5-C4-N4	-5.77	116.16	120.20
36	5	1826	C	C6-N1-C2	5.77	122.61	120.30
36	1	835	G	O4'-C1'-N9	5.77	112.82	108.20
36	1	992	A	C5-C6-N1	5.77	120.59	117.70
36	5	1449	A	C2-N3-C4	-5.77	107.71	110.60
36	5	1493	G	O4'-C1'-N9	5.77	112.82	108.20
36	5	1899	G	C5-C6-O6	5.77	132.06	128.60
1	2	940	A	N9-C4-C5	5.77	108.11	105.80
36	1	1151	U	N3-C4-O4	5.77	123.44	119.40
36	1	1433	A	N3-C4-C5	-5.77	122.76	126.80
36	1	2199	G	C5-C6-O6	5.77	132.06	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2861	U	OP2-P-O3'	5.77	117.89	105.20
36	5	640	U	N3-C4-O4	5.77	123.44	119.40
36	1	81	C	C2-N3-C4	-5.77	117.02	119.90
36	1	347	G	N9-C4-C5	-5.77	103.09	105.40
36	1	439	C	N1-C2-O2	5.77	122.36	118.90
36	1	2795	U	N1-C2-N3	5.77	118.36	114.90
1	6	455	C	N3-C4-N4	5.77	122.04	118.00
36	5	2799	A	O5'-P-OP2	-5.77	100.51	105.70
36	1	1116	G	N1-C6-O6	5.77	123.36	119.90
1	2	1119	G	N1-C6-O6	-5.76	116.44	119.90
36	1	1369	A	C2-N3-C4	-5.76	107.72	110.60
1	6	352	A	OP2-P-O3'	5.76	117.88	105.20
36	1	788	C	C2-N1-C1'	-5.76	112.46	118.80
36	5	1547	G	C8-N9-C4	5.76	108.70	106.40
1	2	543	C	N3-C2-O2	-5.76	117.87	121.90
36	1	2261	G	N3-C4-N9	5.76	129.46	126.00
36	5	2843	U	O5'-P-OP1	-5.76	100.51	105.70
37	7	98	C	C6-N1-C2	5.76	122.61	120.30
36	1	2305	G	C6-C5-N7	-5.76	126.94	130.40
38	4	43	A	O5'-P-OP1	-5.76	100.52	105.70
1	6	1664	C	N1-C2-O2	-5.76	115.45	118.90
36	1	2343	C	C5-C4-N4	-5.75	116.17	120.20
1	6	194	U	N1-C2-O2	5.75	126.83	122.80
36	1	25	U	N1-C2-O2	-5.75	118.77	122.80
36	1	3076	C	C6-N1-C2	-5.75	118.00	120.30
36	5	2728	G	O4'-C1'-N9	5.75	112.80	108.20
36	5	2868	U	N1-C2-O2	5.75	126.83	122.80
36	1	3368	U	C6-N1-C1'	5.75	129.25	121.20
1	6	25	C	P-O3'-C3'	5.75	126.60	119.70
1	6	901	G	O4'-C1'-N9	5.75	112.80	108.20
36	1	968	G	C6-C5-N7	-5.75	126.95	130.40
36	5	369	A	C8-N9-C4	-5.75	103.50	105.80
36	5	2887	A	C4-C5-C6	5.75	119.88	117.00
38	4	29	U	N3-C4-O4	5.75	123.42	119.40
36	5	2808	A	N9-C4-C5	-5.75	103.50	105.80
36	1	2165	G	N1-C6-O6	5.75	123.35	119.90
36	1	2836	C	N3-C2-O2	-5.75	117.88	121.90
36	5	1368	U	N3-C2-O2	5.75	126.22	122.20
36	1	917	A	N1-C6-N6	-5.74	115.15	118.60
36	5	911	C	C2-N3-C4	-5.74	117.03	119.90
1	2	329	G	N1-C2-N3	5.74	127.34	123.90
1	2	426	G	C4-N9-C1'	5.74	133.96	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2408	U	C4-C5-C6	5.74	123.14	119.70
36	5	2372	A	N7-C8-N9	5.74	116.67	113.80
1	2	1600	A	N1-C6-N6	5.74	122.04	118.60
36	1	92	G	C5-C6-N1	5.74	114.37	111.50
1	6	1413	U	OP2-P-O3'	5.74	117.82	105.20
1	6	1473	U	C6-N1-C2	-5.74	117.56	121.00
36	5	876	A	C8-N9-C4	5.74	108.10	105.80
36	5	3335	A	N1-C6-N6	5.74	122.04	118.60
54	m8	127	LEU	CA-CB-CG	5.74	128.50	115.30
1	2	507	U	N3-C2-O2	-5.74	118.18	122.20
1	2	1269	U	C6-N1-C1'	-5.74	113.17	121.20
36	1	1310	G	N1-C6-O6	-5.74	116.46	119.90
1	6	151	G	N3-C2-N2	-5.74	115.89	119.90
36	5	2387	A	C5-C6-N6	-5.74	119.11	123.70
36	5	2921	U	C5-C4-O4	-5.74	122.46	125.90
36	5	2931	C	C6-N1-C2	5.74	122.59	120.30
36	1	2376	G	C5-C6-N1	5.73	114.37	111.50
1	6	163	G	C2-N3-C4	-5.73	109.03	111.90
36	5	2600	C	C2-N1-C1'	5.73	125.11	118.80
1	2	585	A	N1-C6-N6	5.73	122.04	118.60
1	2	734	A	P-O3'-C3'	5.73	126.58	119.70
36	1	942	U	N1-C2-N3	5.73	118.34	114.90
36	1	1157	G	C4-C5-N7	-5.73	108.51	110.80
36	5	1846	C	C5-C6-N1	-5.73	118.13	121.00
36	1	1113	G	N3-C2-N2	-5.73	115.89	119.90
36	5	3373	U	C5-C6-N1	-5.73	119.83	122.70
36	1	816	A	C8-N9-C4	-5.73	103.51	105.80
36	1	1520	G	N3-C4-N9	5.73	129.44	126.00
36	5	2355	G	N1-C6-O6	5.73	123.34	119.90
36	1	1151	U	C5-C6-N1	5.73	125.56	122.70
36	1	2308	C	C5-C6-N1	-5.73	118.14	121.00
25	d3	33	LEU	CA-CB-CG	-5.73	102.13	115.30
36	5	83	U	C5-C4-O4	-5.73	122.46	125.90
36	5	2112	U	O5'-P-OP1	-5.73	100.54	105.70
36	1	715	A	N7-C8-N9	5.73	116.66	113.80
36	1	931	C	N3-C2-O2	-5.73	117.89	121.90
1	6	194	U	C5-C6-N1	5.73	125.56	122.70
36	1	324	A	C6-N1-C2	-5.72	115.17	118.60
36	1	1365	G	C6-N1-C2	-5.72	121.67	125.10
36	5	907	G	N9-C4-C5	-5.72	103.11	105.40
36	1	1417	G	N3-C4-C5	5.72	131.46	128.60
36	1	2936	A	O5'-P-OP2	-5.72	100.55	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1595	U	O4'-C1'-N1	5.72	112.78	108.20
6	s4	38	LEU	CA-CB-CG	5.72	128.46	115.30
36	5	1939	G	C8-N9-C1'	-5.72	119.56	127.00
36	1	1658	G	C5-C6-O6	5.72	132.03	128.60
1	6	1042	G	C8-N9-C4	5.72	108.69	106.40
36	1	419	G	N9-C4-C5	-5.72	103.11	105.40
36	1	1497	C	C6-N1-C2	-5.72	118.01	120.30
1	6	1619	C	C6-N1-C2	-5.72	118.01	120.30
36	5	101	G	C4-N9-C1'	5.72	133.94	126.50
36	5	804	C	N3-C4-N4	5.72	122.00	118.00
36	5	1152	G	N9-C4-C5	5.72	107.69	105.40
36	5	1662	G	N1-C6-O6	5.72	123.33	119.90
36	5	1899	G	C4-C5-N7	-5.72	108.51	110.80
36	5	3041	U	N3-C4-O4	-5.72	115.40	119.40
1	2	554	C	C2-N3-C4	5.72	122.76	119.90
36	5	3317	U	O4'-C1'-N1	5.72	112.77	108.20
36	1	1482	A	C5-N7-C8	-5.72	101.04	103.90
36	1	1490	A	C2-N3-C4	-5.72	107.74	110.60
37	3	81	U	C6-N1-C2	5.72	124.43	121.00
1	6	1111	G	C6-C5-N7	-5.72	126.97	130.40
1	6	1745	G	C5-C6-N1	5.72	114.36	111.50
36	5	2825	C	N3-C2-O2	5.72	125.90	121.90
18	C6	53	LEU	CA-CB-CG	-5.71	102.16	115.30
1	6	1389	C	N3-C2-O2	-5.71	117.90	121.90
36	5	61	A	O5'-P-OP1	-5.71	100.56	105.70
36	5	1868	G	N1-C6-O6	5.71	123.33	119.90
36	5	2288	G	N3-C4-N9	5.71	129.43	126.00
36	1	1116	G	N3-C2-N2	-5.71	115.90	119.90
1	6	787	G	N3-C4-C5	-5.71	125.75	128.60
1	6	1523	G	N1-C6-O6	-5.71	116.47	119.90
36	5	767	U	O4'-C1'-N1	5.71	112.77	108.20
36	5	2350	C	OP1-P-OP2	-5.71	111.03	119.60
36	1	969	C	C2-N3-C4	-5.71	117.05	119.90
36	1	1303	A	N9-C4-C5	-5.71	103.52	105.80
36	1	2714	G	N3-C2-N2	-5.71	115.90	119.90
1	6	861	U	N3-C2-O2	-5.71	118.20	122.20
36	5	1939	G	C4-C5-C6	5.71	122.22	118.80
36	5	2775	U	C5-C6-N1	-5.71	119.85	122.70
1	2	499	U	P-O3'-C3'	5.71	126.55	119.70
1	2	571	G	C4-C5-N7	-5.71	108.52	110.80
1	2	1486	G	C8-N9-C4	-5.71	104.12	106.40
1	6	610	G	N3-C4-N9	5.71	129.42	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2841	G	OP1-P-OP2	5.71	128.16	119.60
36	1	2618	G	C6-N1-C2	-5.70	121.68	125.10
1	6	825	U	N3-C2-O2	5.70	126.19	122.20
36	5	504	A	N9-C4-C5	-5.70	103.52	105.80
36	5	1868	G	C4-C5-N7	5.70	113.08	110.80
36	5	1892	G	C5-N7-C8	5.70	107.15	104.30
36	1	1158	A	N1-C6-N6	5.70	122.02	118.60
36	1	582	G	C5-C6-O6	5.70	132.02	128.60
36	1	810	A	N1-C6-N6	-5.70	115.18	118.60
36	1	2309	A	N1-C6-N6	5.70	122.02	118.60
1	6	961	U	N3-C4-C5	-5.70	111.18	114.60
36	5	414	U	N3-C2-O2	5.70	126.19	122.20
36	5	1445	U	N1-C2-N3	5.70	118.32	114.90
36	5	1602	A	OP2-P-O3'	5.70	117.74	105.20
1	2	1747	G	C8-N9-C4	5.70	108.68	106.40
36	1	182	U	C2-N1-C1'	-5.70	110.86	117.70
36	1	2873	U	N3-C2-O2	-5.70	118.21	122.20
36	5	1909	A	N9-C4-C5	-5.70	103.52	105.80
36	1	674	G	C8-N9-C4	-5.70	104.12	106.40
36	1	2873	U	C5-C4-O4	5.70	129.32	125.90
1	6	574	G	C8-N9-C4	5.70	108.68	106.40
36	5	581	U	C5-C4-O4	-5.70	122.48	125.90
36	5	658	G	O5'-P-OP2	-5.70	100.58	105.70
36	5	1903	U	C2-N3-C4	5.70	130.42	127.00
36	5	3218	A	C2-N3-C4	-5.70	107.75	110.60
1	6	1649	G	N3-C2-N2	5.69	123.89	119.90
14	c2	58	LEU	CA-CB-CG	5.69	128.40	115.30
36	5	1370	G	C5-C6-N1	5.69	114.35	111.50
36	5	3147	G	N1-C2-N3	5.69	127.32	123.90
36	1	1327	C	C6-N1-C2	-5.69	118.02	120.30
36	5	1389	G	N1-C6-O6	5.69	123.32	119.90
36	5	2849	C	N1-C2-O2	-5.69	115.48	118.90
36	1	203	G	C8-N9-C4	5.69	108.68	106.40
36	1	1399	A	C8-N9-C4	5.69	108.08	105.80
36	1	1834	U	N1-C2-N3	5.69	118.31	114.90
36	1	3107	U	O5'-P-OP2	-5.69	100.58	105.70
36	1	99	A	O4'-C1'-N9	5.69	112.75	108.20
1	2	940	A	N1-C6-N6	-5.69	115.19	118.60
1	2	1486	G	C5-N7-C8	-5.69	101.46	104.30
36	1	808	A	C6-N1-C2	-5.69	115.19	118.60
59	N3	48	ARG	NE-CZ-NH1	5.69	123.14	120.30
20	C8	3	LEU	CA-CB-CG	5.68	128.37	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
82	e1	100	LEU	CA-CB-CG	5.68	128.37	115.30
36	5	2699	G	N9-C4-C5	-5.68	103.13	105.40
36	1	1589	A	O5'-P-OP2	-5.68	100.58	105.70
36	5	3326	G	N9-C4-C5	-5.68	103.13	105.40
36	1	2679	A	C6-C5-N7	-5.68	128.32	132.30
1	6	864	U	N3-C2-O2	-5.68	118.22	122.20
36	5	1595	U	N3-C2-O2	5.68	126.17	122.20
36	5	1650	G	N1-C6-O6	-5.68	116.49	119.90
36	5	1886	A	C4-C5-N7	5.68	113.54	110.70
36	5	2428	U	O5'-P-OP1	5.68	117.52	110.70
36	5	2839	G	C8-N9-C4	5.68	108.67	106.40
36	5	2849	C	OP2-P-O3'	5.68	117.69	105.20
36	1	1476	G	C6-C5-N7	5.68	133.81	130.40
36	1	1951	C	C2-N1-C1'	5.68	125.05	118.80
36	1	2383	C	C5-C4-N4	-5.68	116.23	120.20
36	1	3318	G	C6-C5-N7	-5.68	126.99	130.40
38	4	29	U	C5-C4-O4	-5.68	122.49	125.90
38	8	99	C	N1-C2-O2	5.68	122.31	118.90
1	2	1588	G	N1-C6-O6	-5.67	116.50	119.90
36	1	2818	U	C5-C6-N1	5.67	125.54	122.70
1	6	813	U	C6-N1-C1'	-5.67	113.26	121.20
36	1	650	C	OP2-P-O3'	5.67	117.68	105.20
36	5	1303	A	N9-C4-C5	-5.67	103.53	105.80
36	1	2363	A	C5-C6-N6	-5.67	119.16	123.70
36	1	1433	A	N3-C4-N9	5.67	131.93	127.40
36	1	2289	U	N1-C2-N3	5.67	118.30	114.90
36	1	3181	C	N1-C2-N3	5.67	123.17	119.20
36	5	411	U	C5-C6-N1	-5.67	119.87	122.70
36	5	2680	A	C5-N7-C8	5.67	106.73	103.90
36	5	2956	A	C4-C5-C6	5.67	119.83	117.00
36	5	3078	U	N3-C2-O2	-5.67	118.23	122.20
36	5	3197	G	N3-C4-N9	-5.67	122.60	126.00
1	2	1241	G	C4-C5-N7	5.66	113.06	110.80
36	1	345	G	N3-C4-C5	-5.66	125.77	128.60
36	1	2618	G	N1-C6-O6	-5.66	116.50	119.90
36	1	2816	G	O4'-C1'-N9	5.66	112.73	108.20
36	5	1003	A	C8-N9-C4	5.66	108.07	105.80
36	5	1307	G	C2'-C3'-O3'	5.66	122.76	113.70
36	5	2167	A	N9-C4-C5	5.66	108.06	105.80
36	1	1845	G	N1-C6-O6	-5.66	116.50	119.90
36	5	2197	C	C5-C4-N4	-5.66	116.24	120.20
36	5	3351	U	N1-C2-O2	5.66	126.76	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2961	G	N9-C4-C5	5.66	107.67	105.40
1	2	1370	U	P-O3'-C3'	5.66	126.49	119.70
1	6	95	G	C5-C6-O6	5.66	132.00	128.60
1	6	813	U	N1-C2-O2	5.66	126.76	122.80
36	5	921	A	OP2-P-O3'	5.66	117.65	105.20
36	5	2399	A	C8-N9-C4	5.66	108.06	105.80
1	6	95	G	N1-C6-O6	-5.66	116.51	119.90
36	1	1929	G	N9-C4-C5	-5.65	103.14	105.40
36	1	783	A	C5-C6-N6	-5.65	119.18	123.70
36	1	1348	U	O4'-C1'-N1	5.65	112.72	108.20
36	1	1520	G	N3-C4-C5	-5.65	125.77	128.60
36	1	1881	A	N1-C6-N6	-5.65	115.21	118.60
36	1	2148	U	N1-C2-O2	-5.65	118.84	122.80
38	4	47	C	C5-C6-N1	-5.65	118.17	121.00
1	6	637	C	N3-C4-C5	5.65	124.16	121.90
36	5	1561	G	O4'-C1'-N9	5.65	112.72	108.20
36	5	3148	U	C6-N1-C2	5.65	124.39	121.00
1	6	176	C	N3-C2-O2	-5.65	117.95	121.90
36	5	1443	G	C8-N9-C1'	-5.65	119.66	127.00
36	5	3131	U	N3-C4-C5	5.65	117.99	114.60
37	7	120	C	N3-C4-C5	5.65	124.16	121.90
36	1	1362	G	C8-N9-C4	5.65	108.66	106.40
36	1	2679	A	O4'-C1'-N9	5.65	112.72	108.20
36	1	2700	G	N3-C4-N9	5.65	129.39	126.00
36	1	3275	U	C6-N1-C2	-5.65	117.61	121.00
36	5	2260	U	N3-C2-O2	-5.65	118.25	122.20
36	1	590	G	C8-N9-C4	5.65	108.66	106.40
36	1	3269	U	C5-C4-O4	5.65	129.29	125.90
54	M8	99	THR	N-CA-C	5.65	126.24	111.00
36	5	1389	G	N3-C4-N9	5.65	129.39	126.00
36	5	2343	C	O5'-P-OP2	-5.65	100.62	105.70
36	1	2392	C	C6-N1-C2	5.64	122.56	120.30
36	1	2875	U	C3'-C2'-C1'	-5.64	96.98	101.50
36	5	902	G	C8-N9-C4	5.64	108.66	106.40
36	5	1898	G	N1-C6-O6	5.64	123.29	119.90
36	1	3318	G	N7-C8-N9	5.64	115.92	113.10
36	1	2361	A	N1-C2-N3	5.64	132.12	129.30
36	5	1376	C	OP1-P-OP2	5.64	128.06	119.60
1	2	1560	U	N3-C2-O2	-5.64	118.25	122.20
1	6	1602	C	N3-C2-O2	-5.64	117.95	121.90
36	5	197	G	C6-C5-N7	-5.64	127.02	130.40
36	5	1451	C	C6-N1-C2	5.64	122.56	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2964	G	C5-N7-C8	5.64	107.12	104.30
36	5	3115	C	O5'-P-OP2	-5.64	100.62	105.70
36	1	1884	A	C4-C5-N7	5.64	113.52	110.70
1	6	430	G	O5'-P-OP1	-5.64	100.63	105.70
1	2	7	G	C4-C5-N7	-5.64	108.55	110.80
36	1	1658	G	C8-N9-C4	-5.64	104.14	106.40
36	1	2855	U	C5-C6-N1	-5.64	119.88	122.70
36	5	3008	A	N1-C2-N3	5.64	132.12	129.30
1	2	1761	U	N3-C4-C5	-5.63	111.22	114.60
36	1	1585	C	C6-N1-C2	5.63	122.55	120.30
36	5	1452	A	C5-N7-C8	-5.63	101.08	103.90
36	5	1917	C	C4-C5-C6	5.63	120.22	117.40
36	1	611	A	O5'-P-OP1	5.63	117.46	110.70
36	1	1489	A	N9-C4-C5	-5.63	103.55	105.80
36	1	3303	G	C8-N9-C4	5.63	108.65	106.40
36	5	3303	G	O4'-C1'-N9	5.63	112.71	108.20
36	1	2926	A	N1-C6-N6	5.63	121.98	118.60
38	4	4	C	O5'-P-OP2	-5.63	100.64	105.70
1	6	308	C	C5-C4-N4	5.63	124.14	120.20
36	5	526	C	N3-C4-C5	5.63	124.15	121.90
36	5	990	U	N1-C2-O2	5.63	126.74	122.80
37	7	32	U	C5-C6-N1	-5.63	119.89	122.70
36	1	1363	A	O5'-P-OP2	-5.63	100.64	105.70
1	6	1283	U	C5-C6-N1	-5.63	119.89	122.70
36	5	313	A	C5-C6-N6	-5.63	119.20	123.70
36	5	399	A	C8-N9-C4	5.63	108.05	105.80
36	5	2848	G	O5'-P-OP1	-5.63	100.64	105.70
38	8	113	U	C2-N1-C1'	5.63	124.45	117.70
1	2	1749	A	C2-N3-C4	-5.62	107.79	110.60
36	1	1796	G	N3-C4-C5	-5.62	125.79	128.60
36	1	2603	G	N3-C2-N2	5.62	123.84	119.90
41	14	300	ARG	NE-CZ-NH1	5.62	123.11	120.30
36	1	2418	G	OP1-P-O3'	5.62	117.57	105.20
36	1	3081	C	C4-C5-C6	5.62	120.21	117.40
36	1	3377	G	C8-N9-C4	5.62	108.65	106.40
1	6	1164	G	N9-C4-C5	-5.62	103.15	105.40
36	1	1413	G	C8-N9-C4	5.62	108.65	106.40
36	1	2787	G	C5-C6-N1	5.62	114.31	111.50
1	6	542	A	C6-C5-N7	-5.62	128.37	132.30
1	6	1760	G	C5-C6-O6	-5.62	125.23	128.60
36	1	3132	C	N3-C2-O2	-5.62	117.97	121.90
36	1	3183	A	N9-C4-C5	-5.62	103.55	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	88	A	C8-N9-C4	5.62	108.05	105.80
36	5	2924	U	N1-C2-O2	-5.62	118.87	122.80
36	1	748	U	C5-C4-O4	-5.62	122.53	125.90
36	5	372	A	O5'-P-OP2	-5.62	100.64	105.70
36	5	938	C	N3-C4-C5	5.62	124.15	121.90
36	5	2695	A	N9-C4-C5	5.62	108.05	105.80
36	5	2941	A	N1-C6-N6	-5.62	115.23	118.60
36	1	2585	G	C2-N3-C4	5.62	114.71	111.90
36	1	2610	G	C4-C5-N7	5.62	113.05	110.80
36	5	3218	A	P-O3'-C3'	5.62	126.44	119.70
36	1	48	A	N1-C2-N3	5.62	132.11	129.30
36	1	1369	A	O5'-P-OP2	5.62	117.44	110.70
36	5	974	G	N3-C4-C5	-5.62	125.79	128.60
36	1	669	U	C6-N1-C2	5.61	124.37	121.00
36	5	1922	A	C8-N9-C4	5.61	108.05	105.80
36	5	2951	G	N1-C6-O6	-5.61	116.53	119.90
37	3	28	C	N3-C4-N4	5.61	121.93	118.00
36	5	1929	G	C4-C5-N7	5.61	113.05	110.80
36	5	890	C	OP2-P-O3'	5.61	117.54	105.20
36	5	1001	G	O5'-P-OP1	-5.61	100.65	105.70
36	5	2191	U	N3-C4-O4	-5.61	115.47	119.40
1	2	996	U	N1-C2-O2	5.61	126.73	122.80
36	5	3154	C	N3-C2-O2	-5.61	117.97	121.90
1	2	2	A	O4'-C1'-N9	-5.61	103.71	108.20
36	5	939	U	N3-C2-O2	5.61	126.13	122.20
36	5	3060	C	N3-C4-N4	5.61	121.93	118.00
36	1	2376	G	OP1-P-OP2	5.61	128.01	119.60
36	5	2334	U	N3-C2-O2	-5.61	118.28	122.20
1	2	11	A	O5'-P-OP1	-5.60	100.66	105.70
36	1	1204	A	N1-C6-N6	5.60	121.96	118.60
36	1	2920	U	C2-N3-C4	-5.60	123.64	127.00
36	1	1159	A	N1-C6-N6	-5.60	115.24	118.60
36	1	2169	G	C5-C6-O6	5.60	131.96	128.60
36	5	145	G	N3-C4-N9	-5.60	122.64	126.00
36	5	1491	A	N1-C2-N3	5.60	132.10	129.30
1	2	1052	U	C2-N1-C1'	5.60	124.42	117.70
36	5	2965	U	N3-C4-O4	5.60	123.32	119.40
1	2	864	U	N3-C2-O2	-5.60	118.28	122.20
36	1	1425	U	C5-C6-N1	-5.60	119.90	122.70
36	1	2719	U	C5-C6-N1	-5.60	119.90	122.70
36	5	630	A	C8-N9-C4	5.60	108.04	105.80
36	5	869	G	C5-C6-N1	5.60	114.30	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1315	U	C6-N1-C2	5.60	124.36	121.00
36	5	2897	A	N1-C2-N3	5.60	132.10	129.30
36	1	719	U	O5'-P-OP1	-5.60	100.66	105.70
1	6	387	A	N3-C4-C5	-5.60	122.88	126.80
36	5	41	G	C5-C6-O6	-5.60	125.24	128.60
36	5	645	A	N1-C6-N6	-5.60	115.24	118.60
36	5	2941	A	O4'-C1'-N9	-5.60	103.72	108.20
36	1	2197	C	C5-C4-N4	-5.60	116.28	120.20
36	5	624	G	C8-N9-C4	5.60	108.64	106.40
38	8	23	U	N1-C2-N3	5.60	118.26	114.90
1	2	402	C	O5'-P-OP1	-5.59	100.66	105.70
36	1	652	G	N1-C2-N2	-5.59	111.16	116.20
36	5	687	U	N3-C2-O2	5.59	126.12	122.20
36	5	1443	G	N3-C2-N2	5.59	123.82	119.90
36	5	2271	A	C8-N9-C4	5.59	108.04	105.80
1	2	736	C	C5-C6-N1	5.59	123.80	121.00
36	1	914	A	N1-C2-N3	5.59	132.10	129.30
36	1	2110	G	O4'-C1'-N9	5.59	112.67	108.20
36	5	1517	G	N9-C4-C5	5.59	107.64	105.40
36	5	2130	G	C8-N9-C4	5.59	108.64	106.40
1	2	1486	G	N7-C8-N9	5.59	115.89	113.10
36	1	145	G	C5-C6-O6	-5.59	125.25	128.60
36	5	2134	G	N1-C6-O6	-5.59	116.55	119.90
36	1	1203	A	N9-C4-C5	-5.59	103.56	105.80
36	5	40	A	N1-C6-N6	5.59	121.95	118.60
77	q1	23	ARG	NE-CZ-NH2	-5.58	117.51	120.30
1	2	1389	C	N1-C2-O2	5.58	122.25	118.90
36	1	182	U	N3-C4-O4	-5.58	115.49	119.40
36	1	2698	G	C5-C6-N1	5.58	114.29	111.50
36	5	1049	C	N3-C4-C5	5.58	124.13	121.90
36	5	1917	C	N1-C2-O2	-5.58	115.55	118.90
36	5	2680	A	C4-C5-N7	-5.58	107.91	110.70
36	5	3005	A	O5'-P-OP2	-5.58	100.67	105.70
56	n0	155	ARG	NE-CZ-NH2	5.58	123.09	120.30
1	2	934	C	C5-C6-N1	5.58	123.79	121.00
36	1	2369	G	C5-C6-O6	-5.58	125.25	128.60
36	1	2608	G	N1-C6-O6	5.58	123.25	119.90
1	6	1758	U	N1-C2-O2	5.58	126.71	122.80
36	5	1372	C	C4-C5-C6	5.58	120.19	117.40
36	5	2706	G	O5'-P-OP2	-5.58	100.68	105.70
36	5	1939	G	N3-C4-C5	-5.58	125.81	128.60
1	2	1754	A	C8-N9-C4	5.58	108.03	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2193	U	N1-C2-O2	5.58	126.71	122.80
36	1	2285	C	C6-N1-C2	5.58	122.53	120.30
36	5	641	C	C5-C4-N4	-5.58	116.30	120.20
36	5	2349	U	OP1-P-O3'	5.58	117.47	105.20
36	5	2851	A	N1-C2-N3	5.58	132.09	129.30
36	1	281	G	C8-N9-C1'	-5.58	119.75	127.00
1	6	1023	A	N1-C6-N6	5.58	121.95	118.60
36	5	101	G	O4'-C1'-N9	5.58	112.66	108.20
1	6	1481	C	N3-C2-O2	-5.58	118.00	121.90
36	5	2426	U	C5-C4-O4	5.58	129.25	125.90
36	1	361	A	N7-C8-N9	-5.57	111.01	113.80
36	1	2993	G	N3-C4-N9	5.57	129.34	126.00
36	1	3278	C	C2-N3-C4	5.57	122.69	119.90
36	5	946	U	N3-C4-O4	5.57	123.30	119.40
36	5	2298	U	C5-C6-N1	-5.57	119.91	122.70
62	N6	57	LEU	CA-CB-CG	5.57	128.12	115.30
36	1	1130	A	N1-C2-N3	-5.57	126.52	129.30
1	6	863	A	C5-C6-N6	-5.57	119.24	123.70
36	5	1436	U	N1-C2-O2	5.57	126.70	122.80
36	1	429	U	N3-C2-O2	-5.57	118.30	122.20
36	5	3362	A	C8-N9-C4	-5.57	103.57	105.80
36	5	1346	G	C8-N9-C4	5.57	108.63	106.40
36	5	3144	G	N7-C8-N9	5.57	115.88	113.10
36	1	19	U	N1-C2-N3	5.57	118.24	114.90
36	1	2393	G	C5-C6-N1	5.57	114.28	111.50
36	1	2791	G	N9-C4-C5	5.57	107.63	105.40
36	5	1609	C	N3-C4-N4	5.57	121.90	118.00
36	5	2598	G	N1-C6-O6	5.57	123.24	119.90
1	2	647	G	N9-C4-C5	5.56	107.63	105.40
1	2	973	A	O5'-P-OP2	-5.56	100.69	105.70
36	1	145	G	N1-C6-O6	5.56	123.24	119.90
36	5	3322	A	C2-N3-C4	-5.56	107.82	110.60
36	1	1002	A	C8-N9-C4	5.56	108.03	105.80
1	6	29	U	C5-C6-N1	-5.56	119.92	122.70
1	6	542	A	C4-N9-C1'	5.56	136.31	126.30
36	5	1158	A	N9-C4-C5	-5.56	103.58	105.80
36	5	3347	A	C8-N9-C4	5.56	108.03	105.80
36	1	1437	C	C2-N1-C1'	5.56	124.92	118.80
36	1	2275	A	O5'-P-OP1	-5.56	100.69	105.70
1	6	521	A	N1-C6-N6	-5.56	115.26	118.60
36	1	2830	G	N3-C2-N2	-5.56	116.01	119.90
1	6	577	G	C4-C5-N7	5.56	113.02	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1698	G	P-O3'-C3'	5.56	126.37	119.70
36	5	3177	G	C2-N3-C4	-5.56	109.12	111.90
36	1	1604	G	C4-N9-C1'	5.56	133.72	126.50
64	N8	57	GLY	N-CA-C	5.56	127.00	113.10
36	5	1193	A	C6-C5-N7	-5.56	128.41	132.30
36	5	1213	G	N1-C6-O6	-5.56	116.57	119.90
44	L7	179	LEU	CA-CB-CG	5.56	128.08	115.30
36	5	647	A	C4-C5-C6	5.56	119.78	117.00
1	2	1744	A	O5'-P-OP1	-5.55	100.70	105.70
36	1	109	A	N1-C6-N6	-5.55	115.27	118.60
36	1	2827	U	C6-N1-C1'	5.55	128.98	121.20
36	5	2929	C	C4-C5-C6	5.55	120.18	117.40
36	1	353	G	C4-C5-N7	5.55	113.02	110.80
36	5	881	C	N3-C2-O2	-5.55	118.01	121.90
36	5	1941	C	N1-C2-O2	-5.55	115.57	118.90
36	5	3309	G	C8-N9-C4	-5.55	104.18	106.40
1	2	968	U	N3-C2-O2	-5.55	118.31	122.20
36	1	1553	U	N3-C4-O4	5.55	123.29	119.40
36	1	2786	G	C5-N7-C8	5.55	107.08	104.30
36	1	95	A	N1-C2-N3	5.55	132.07	129.30
36	1	682	U	C5-C4-O4	5.55	129.23	125.90
38	4	40	A	C4-C5-N7	5.55	113.47	110.70
36	5	1329	U	N3-C2-O2	-5.55	118.32	122.20
36	5	2817	A	OP2-P-O3'	5.55	117.41	105.20
36	1	211	A	C2-N3-C4	-5.55	107.83	110.60
36	5	2391	G	N1-C6-O6	-5.55	116.57	119.90
36	5	2811	A	C2-N3-C4	-5.55	107.83	110.60
36	5	3216	G	C5-C6-O6	-5.55	125.27	128.60
36	1	2572	C	C5-C6-N1	5.55	123.77	121.00
1	6	1636	C	C4-C5-C6	5.55	120.17	117.40
36	5	197	G	N7-C8-N9	5.55	115.87	113.10
36	5	387	A	C2-N3-C4	-5.55	107.83	110.60
36	5	1895	A	C6-N1-C2	-5.55	115.27	118.60
1	2	314	C	C6-N1-C2	5.54	122.52	120.30
1	2	865	A	C2-N3-C4	-5.54	107.83	110.60
36	1	1385	C	N1-C2-O2	-5.54	115.57	118.90
38	8	140	G	C8-N9-C4	-5.54	104.18	106.40
36	1	1405	U	N3-C4-C5	5.54	117.92	114.60
36	1	1902	G	C5-N7-C8	-5.54	101.53	104.30
36	1	2391	G	C4-C5-C6	5.54	122.12	118.80
1	6	118	U	N3-C4-O4	-5.54	115.52	119.40
1	6	541	A	C8-N9-C4	-5.54	103.58	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	39	A	N1-C6-N6	5.54	121.92	118.60
1	2	1363	U	N3-C2-O2	-5.54	118.32	122.20
36	1	2284	C	C2-N1-C1'	5.54	124.89	118.80
38	4	107	G	N1-C6-O6	-5.54	116.58	119.90
36	1	3034	C	N1-C2-O2	5.54	122.22	118.90
38	4	56	G	C8-N9-C4	5.54	108.61	106.40
36	5	127	G	N1-C6-O6	5.54	123.22	119.90
36	5	1902	G	N9-C4-C5	-5.54	103.18	105.40
36	5	2572	C	C6-N1-C2	-5.54	118.08	120.30
36	1	988	U	C5-C4-O4	5.54	129.22	125.90
37	7	49	G	C6-C5-N7	-5.54	127.08	130.40
1	2	831	U	N1-C2-O2	5.54	126.67	122.80
1	2	1200	G	C6-C5-N7	-5.54	127.08	130.40
36	1	433	A	C5-C6-N6	-5.54	119.27	123.70
36	5	2389	C	N3-C4-C5	5.54	124.11	121.90
36	5	2550	U	N3-C4-O4	-5.54	115.53	119.40
1	2	577	G	C4-C5-N7	5.53	113.01	110.80
36	1	909	G	N3-C4-C5	5.53	131.37	128.60
1	6	1745	G	N3-C4-C5	-5.53	125.83	128.60
36	5	641	C	N1-C2-O2	-5.53	115.58	118.90
36	5	806	A	O5'-P-OP2	5.53	117.34	110.70
37	7	93	C	O5'-P-OP1	5.53	117.34	110.70
38	8	32	C	C6-N1-C2	5.53	122.51	120.30
1	2	1157	A	P-O3'-C3'	5.53	126.34	119.70
36	1	1949	G	C6-C5-N7	-5.53	127.08	130.40
36	1	2656	A	C8-N9-C4	-5.53	103.59	105.80
18	c6	117	LEU	CA-CB-CG	5.53	128.02	115.30
36	1	521	A	N1-C6-N6	5.53	121.92	118.60
36	1	637	C	N3-C4-C5	5.53	124.11	121.90
36	1	2572	C	C6-N1-C1'	-5.53	114.16	120.80
37	7	37	G	C5-C6-O6	-5.53	125.28	128.60
36	1	1133	A	N1-C6-N6	5.53	121.92	118.60
36	5	2334	U	N1-C2-N3	5.53	118.22	114.90
36	5	2938	G	OP1-P-OP2	5.53	127.89	119.60
36	1	1352	A	P-O3'-C3'	5.53	126.33	119.70
1	6	65	A	C4-C5-N7	5.53	113.46	110.70
36	5	2983	C	N1-C2-O2	-5.52	115.59	118.90
36	1	2356	A	N9-C4-C5	-5.52	103.59	105.80
36	1	2619	G	O5'-P-OP1	-5.52	100.73	105.70
1	6	1649	G	C5-C6-O6	5.52	131.91	128.60
36	5	2715	A	N9-C4-C5	5.52	108.01	105.80
36	5	3115	C	N1-C2-N3	5.52	123.07	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	26	U	N3-C2-O2	-5.52	118.33	122.20
36	5	749	C	C4-C5-C6	5.52	120.16	117.40
1	2	240	U	OP2-P-O3'	5.52	117.34	105.20
36	1	1000	C	C6-N1-C1'	-5.52	114.18	120.80
36	1	2121	G	N1-C2-N2	-5.52	111.23	116.20
36	5	1205	A	C8-N9-C4	-5.52	103.59	105.80
36	5	1673	G	N1-C6-O6	-5.52	116.59	119.90
1	2	1782	A	N9-C4-C5	5.52	108.01	105.80
36	1	1458	U	C5-C6-N1	-5.52	119.94	122.70
36	1	3111	U	N3-C4-O4	-5.52	115.54	119.40
1	6	165	G	C6-C5-N7	-5.52	127.09	130.40
1	6	308	C	C5-C6-N1	-5.52	118.24	121.00
36	5	2351	U	N3-C2-O2	-5.52	118.34	122.20
36	1	312	C	N3-C4-C5	5.52	124.11	121.90
36	1	1345	G	OP2-P-O3'	5.52	117.34	105.20
1	6	866	G	C8-N9-C4	5.52	108.61	106.40
1	6	1473	U	C5-C4-O4	5.52	129.21	125.90
36	1	206	G	N1-C6-O6	-5.51	116.59	119.90
36	1	212	G	N3-C4-N9	5.51	129.31	126.00
36	1	609	G	N1-C2-N2	5.51	121.16	116.20
36	1	1346	G	N3-C4-C5	5.51	131.36	128.60
36	1	2606	G	N1-C2-N2	-5.51	111.24	116.20
36	5	875	G	C4-C5-N7	-5.51	108.59	110.80
36	5	1141	C	N3-C4-C5	5.51	124.11	121.90
36	5	1395	G	OP2-P-O3'	5.51	117.33	105.20
36	5	2514	U	O5'-P-OP1	-5.51	100.74	105.70
1	2	1679	G	N1-C6-O6	-5.51	116.59	119.90
36	1	317	A	C2-N3-C4	-5.51	107.84	110.60
36	1	626	U	N3-C4-C5	5.51	117.91	114.60
36	1	1269	U	N3-C2-O2	-5.51	118.34	122.20
36	1	1929	G	C4-C5-N7	5.51	113.00	110.80
36	1	3174	A	C5-N7-C8	-5.51	101.14	103.90
36	5	2620	G	C2-N3-C4	5.51	114.66	111.90
1	2	310	C	N3-C4-C5	-5.51	119.70	121.90
1	6	1100	G	N3-C4-C5	-5.51	125.84	128.60
1	6	1602	C	N1-C2-O2	5.51	122.20	118.90
36	5	1200	A	N3-C4-N9	5.51	131.81	127.40
36	5	1858	A	O5'-P-OP2	-5.51	100.74	105.70
36	1	2644	C	N1-C2-O2	5.51	122.20	118.90
36	5	1589	A	C5-C6-N1	5.51	120.45	117.70
36	5	2709	C	C5-C4-N4	-5.51	116.34	120.20
1	2	720	G	P-O3'-C3'	5.50	126.31	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1332	A	C6-N1-C2	-5.50	115.30	118.60
36	5	3266	G	N9-C4-C5	5.50	107.60	105.40
36	1	645	A	N1-C2-N3	5.50	132.05	129.30
36	1	914	A	O5'-P-OP1	-5.50	100.75	105.70
36	1	1407	A	N1-C6-N6	-5.50	115.30	118.60
38	4	13	A	C5-C6-N6	-5.50	119.30	123.70
36	5	1113	G	N1-C2-N3	5.50	127.20	123.90
36	5	2176	U	N3-C2-O2	-5.50	118.35	122.20
1	2	1274	C	N3-C2-O2	-5.50	118.05	121.90
36	1	2601	A	C2-N3-C4	5.50	113.35	110.60
1	6	1058	U	OP1-P-O3'	5.50	117.30	105.20
36	5	2715	A	C8-N9-C4	-5.50	103.60	105.80
36	5	3321	C	N1-C2-O2	-5.50	115.60	118.90
1	2	830	U	N1-C2-O2	5.50	126.65	122.80
36	1	1099	A	N1-C6-N6	5.50	121.90	118.60
36	1	1181	U	N3-C2-O2	-5.50	118.35	122.20
1	6	314	C	OP2-P-O3'	5.50	117.29	105.20
36	5	190	U	O4'-C1'-N1	5.50	112.60	108.20
36	5	2398	A	N1-C6-N6	-5.50	115.30	118.60
37	7	80	G	C4-C5-N7	5.50	113.00	110.80
47	m0	7	ARG	NE-CZ-NH1	-5.50	117.55	120.30
36	5	2278	C	OP1-P-OP2	-5.50	111.36	119.60
36	1	343	U	OP2-P-O3'	5.49	117.29	105.20
36	1	1330	A	C4-C5-N7	5.49	113.45	110.70
36	1	2433	U	C5-C6-N1	-5.49	119.95	122.70
36	5	1496	C	O5'-P-OP1	5.49	117.29	110.70
36	5	3004	C	C6-N1-C2	5.49	122.50	120.30
36	5	3120	C	O5'-P-OP1	-5.49	100.76	105.70
36	1	1405	U	C5-C4-O4	-5.49	122.61	125.90
36	1	2550	U	C5-C4-O4	5.49	129.19	125.90
36	1	312	C	C5-C4-N4	-5.49	116.36	120.20
36	1	918	C	O5'-P-OP2	-5.49	100.76	105.70
36	1	2214	A	N1-C6-N6	5.49	121.89	118.60
36	1	2816	G	C6-N1-C2	-5.49	121.81	125.10
1	6	377	G	C5-C6-N1	5.49	114.25	111.50
36	5	2434	U	C5-C6-N1	-5.49	119.95	122.70
1	2	852	C	C5-C6-N1	5.49	123.74	121.00
36	1	156	G	C2-N3-C4	5.49	114.64	111.90
36	1	581	U	OP2-P-O3'	5.49	117.27	105.20
1	6	382	C	N3-C4-C5	5.49	124.09	121.90
1	6	858	G	N1-C6-O6	5.49	123.19	119.90
36	5	2196	C	C5-C6-N1	-5.49	118.26	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2889	C	N3-C2-O2	-5.49	118.06	121.90
36	5	3380	U	C5-C4-O4	5.49	129.19	125.90
36	1	2728	G	N3-C4-C5	-5.49	125.86	128.60
36	5	92	G	N3-C4-N9	5.49	129.29	126.00
36	1	223	U	C6-N1-C2	5.49	124.29	121.00
36	1	2403	G	O5'-P-OP1	5.49	117.28	110.70
36	5	323	A	C8-N9-C4	-5.49	103.61	105.80
36	5	408	A	OP1-P-OP2	5.49	127.83	119.60
36	5	2867	C	N3-C2-O2	5.49	125.74	121.90
1	2	1455	G	C4-C5-N7	-5.48	108.61	110.80
36	1	2865	U	C6-N1-C2	5.48	124.29	121.00
36	1	3374	U	C5-C4-O4	-5.48	122.61	125.90
1	6	359	A	C4-N9-C1'	-5.48	116.43	126.30
37	7	92	A	C5-C6-N6	-5.48	119.31	123.70
1	2	1100	G	N1-C6-O6	5.48	123.19	119.90
1	2	1782	A	C5-C6-N6	5.48	128.09	123.70
36	1	49	A	C5-C6-N1	-5.48	114.96	117.70
36	1	3387	U	C6-N1-C2	5.48	124.29	121.00
36	1	3362	A	C5-C6-N6	-5.48	119.32	123.70
36	5	914	A	C6-N1-C2	-5.48	115.31	118.60
1	2	1457	C	C6-N1-C2	-5.48	118.11	120.30
36	1	2201	G	C5-C6-N1	-5.48	108.76	111.50
36	1	2702	A	C8-N9-C4	-5.48	103.61	105.80
36	1	3269	U	C6-N1-C2	-5.48	117.71	121.00
1	6	1299	G	N3-C4-C5	-5.48	125.86	128.60
56	n0	40	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	2	1297	G	C4-N9-C1'	-5.48	119.38	126.50
36	1	1165	A	C8-N9-C4	5.47	107.99	105.80
36	1	2245	C	C5-C4-N4	5.47	124.03	120.20
36	1	2610	G	C6-C5-N7	-5.47	127.11	130.40
36	1	2657	A	N1-C6-N6	-5.47	115.31	118.60
73	O7	65	ARG	NE-CZ-NH2	-5.47	117.56	120.30
36	5	924	G	C5-C6-N1	-5.47	108.76	111.50
36	5	1443	G	N1-C6-O6	-5.47	116.61	119.90
38	8	17	A	C4-C5-N7	5.47	113.44	110.70
36	1	908	G	O4'-C1'-N9	-5.47	103.82	108.20
36	1	1202	A	C8-N9-C4	5.47	107.99	105.80
1	6	1614	A	N1-C6-N6	5.47	121.88	118.60
36	5	1213	G	C6-C5-N7	5.47	133.68	130.40
36	5	1938	U	N3-C4-C5	5.47	117.88	114.60
36	1	931	C	N1-C2-O2	5.47	122.18	118.90
36	1	972	A	N7-C8-N9	-5.47	111.06	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2416	U	C5-C6-N1	5.47	125.44	122.70
1	2	1761	U	N1-C2-N3	5.47	118.18	114.90
36	1	2198	A	N9-C4-C5	5.47	107.99	105.80
36	5	1848	G	C6-C5-N7	-5.47	127.12	130.40
36	5	2299	A	C5-C6-N1	-5.47	114.97	117.70
36	5	2383	C	C6-N1-C2	-5.47	118.11	120.30
36	1	1156	C	C2-N3-C4	-5.47	117.17	119.90
36	5	1724	U	C4-C5-C6	5.47	122.98	119.70
36	1	636	C	C5-C4-N4	-5.47	116.37	120.20
36	1	1116	G	C4-C5-C6	5.47	122.08	118.80
36	5	2123	G	C2-N3-C4	5.47	114.63	111.90
36	1	1435	A	N1-C6-N6	5.46	121.88	118.60
36	5	2132	C	C6-N1-C2	-5.46	118.11	120.30
36	5	2719	U	C2-N1-C1'	-5.46	111.14	117.70
36	5	2780	A	O5'-P-OP2	-5.46	100.78	105.70
36	5	197	G	C4-C5-N7	5.46	112.98	110.80
36	5	2531	C	C2-N1-C1'	5.46	124.81	118.80
36	1	273	A	N7-C8-N9	-5.46	111.07	113.80
36	1	1445	U	C6-N1-C1'	5.46	128.85	121.20
36	1	2121	G	N3-C4-N9	5.46	129.28	126.00
36	5	352	A	O4'-C1'-N9	5.46	112.57	108.20
36	5	2921	U	C2-N1-C1'	5.46	124.25	117.70
36	1	964	G	OP2-P-O3'	5.46	117.21	105.20
36	1	976	U	O5'-P-OP2	-5.46	100.79	105.70
1	6	1649	G	N1-C2-N2	-5.46	111.29	116.20
36	5	1161	G	C2-N3-C4	5.46	114.63	111.90
36	5	1171	G	N3-C2-N2	5.46	123.72	119.90
36	5	2699	G	C8-N9-C4	5.46	108.58	106.40
36	5	2900	A	OP2-P-O3'	5.46	117.21	105.20
36	1	2623	G	N9-C4-C5	-5.46	103.22	105.40
1	6	448	C	OP1-P-O3'	5.46	117.20	105.20
36	5	838	G	C5-C6-O6	5.46	131.87	128.60
36	5	2919	A	C4-C5-N7	-5.46	107.97	110.70
36	5	2978	U	O4'-C1'-N1	5.46	112.56	108.20
1	2	728	U	N1-C2-O2	5.46	126.62	122.80
1	6	1473	U	C2-N1-C1'	5.46	124.25	117.70
36	5	2833	A	C6-N1-C2	-5.46	115.33	118.60
36	5	3310	A	N1-C2-N3	5.46	132.03	129.30
36	1	95	A	C2-N3-C4	-5.45	107.87	110.60
36	1	3216	G	N1-C6-O6	-5.45	116.63	119.90
36	5	2273	G	C8-N9-C4	5.45	108.58	106.40
36	5	2338	C	N3-C4-C5	-5.45	119.72	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	283	G	C8-N9-C1'	-5.45	119.91	127.00
36	1	926	A	N7-C8-N9	-5.45	111.07	113.80
1	6	309	C	O5'-P-OP1	-5.45	100.79	105.70
1	6	1484	G	O5'-P-OP1	-5.45	100.79	105.70
36	5	1128	U	C2-N3-C4	-5.45	123.73	127.00
36	1	345	G	C4-N9-C1'	5.45	133.59	126.50
36	1	1633	C	C5-C6-N1	5.45	123.72	121.00
1	6	1596	C	N3-C4-N4	-5.45	114.19	118.00
36	5	2344	U	C5-C6-N1	-5.45	119.97	122.70
36	5	2808	A	C8-N9-C4	5.45	107.98	105.80
36	1	435	C	N3-C4-C5	5.45	124.08	121.90
36	1	716	A	C5-N7-C8	-5.45	101.18	103.90
41	L4	206	LEU	CA-CB-CG	5.45	127.83	115.30
36	5	326	U	C5-C6-N1	5.45	125.42	122.70
36	5	2123	G	N1-C6-O6	-5.45	116.63	119.90
36	5	3374	U	C6-N1-C2	5.45	124.27	121.00
62	n6	76	LEU	CA-CB-CG	5.45	127.82	115.30
36	5	2673	A	C8-N9-C4	5.44	107.98	105.80
1	2	457	G	N3-C4-N9	5.44	129.26	126.00
36	5	1156	C	C5-C4-N4	-5.44	116.39	120.20
36	5	2396	G	C8-N9-C4	-5.44	104.22	106.40
38	8	112	U	C2-N1-C1'	-5.44	111.17	117.70
36	1	40	A	O5'-P-OP1	-5.44	100.80	105.70
36	1	818	C	C6-N1-C2	-5.44	118.12	120.30
36	1	2314	U	O4'-C1'-N1	5.44	112.55	108.20
52	M6	110	PRO	C-N-CD	-5.44	108.63	120.60
36	5	1159	A	C2-N3-C4	-5.44	107.88	110.60
1	6	875	G	N1-C6-O6	-5.44	116.64	119.90
36	5	1188	U	C2-N3-C4	-5.44	123.74	127.00
1	2	1746	A	N1-C2-N3	-5.44	126.58	129.30
36	1	1476	G	C5-C6-O6	5.44	131.86	128.60
36	1	2210	G	N1-C6-O6	-5.44	116.64	119.90
36	1	2756	C	C6-N1-C2	-5.44	118.12	120.30
36	1	2944	U	N3-C2-O2	-5.44	118.39	122.20
36	5	716	A	N9-C4-C5	-5.44	103.62	105.80
36	5	2341	A	C5-C6-N1	5.44	120.42	117.70
36	5	2855	U	N3-C4-C5	5.44	117.86	114.60
44	17	229	PHE	CB-CG-CD2	-5.44	116.99	120.80
36	1	33	G	N3-C4-N9	-5.44	122.74	126.00
36	1	639	G	N3-C2-N2	-5.43	116.10	119.90
1	6	612	U	O5'-P-OP1	5.43	117.22	110.70
36	5	2714	G	N1-C6-O6	-5.43	116.64	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1466	G	C8-N9-C4	5.43	108.57	106.40
36	1	2747	A	N1-C6-N6	-5.43	115.34	118.60
1	6	1584	G	N1-C6-O6	5.43	123.16	119.90
36	5	197	G	C4-N9-C1'	5.43	133.56	126.50
36	5	1536	G	N3-C2-N2	-5.43	116.10	119.90
36	5	3084	C	C5-C6-N1	-5.43	118.28	121.00
40	l3	4	ARG	NE-CZ-NH1	5.43	123.02	120.30
36	1	2953	U	N1-C2-O2	-5.43	119.00	122.80
36	5	1451	C	C5-C4-N4	-5.43	116.40	120.20
1	2	142	G	N3-C4-C5	5.43	131.31	128.60
36	1	968	G	N3-C4-C5	-5.43	125.89	128.60
36	1	1313	G	C5-C6-O6	-5.43	125.34	128.60
36	5	1142	G	C8-N9-C4	-5.43	104.23	106.40
36	5	1511	U	N1-C2-O2	5.43	126.60	122.80
36	5	3111	U	N3-C4-O4	-5.43	115.60	119.40
14	C2	103	LEU	CA-CB-CG	5.43	127.78	115.30
36	1	29	C	N3-C4-N4	5.43	121.80	118.00
1	6	321	C	N3-C2-O2	-5.43	118.10	121.90
36	5	2388	U	N3-C4-O4	5.43	123.20	119.40
36	5	2800	G	C5-C6-O6	-5.43	125.34	128.60
36	1	416	A	N7-C8-N9	-5.42	111.09	113.80
52	M6	84	LEU	CB-CG-CD1	-5.42	101.78	111.00
37	7	68	C	N1-C2-O2	5.42	122.16	118.90
36	5	960	U	N3-C2-O2	-5.42	118.40	122.20
36	1	61	A	OP2-P-O3'	5.42	117.13	105.20
36	1	926	A	C8-N9-C4	5.42	107.97	105.80
1	6	1109	G	N9-C4-C5	5.42	107.57	105.40
36	5	2619	G	C6-N1-C2	-5.42	121.85	125.10
36	1	1886	A	N1-C6-N6	-5.42	115.35	118.60
36	1	2298	U	C5-C6-N1	-5.42	119.99	122.70
36	1	2756	C	C2-N1-C1'	5.42	124.76	118.80
36	1	2913	C	N3-C2-O2	-5.42	118.11	121.90
36	1	31	C	O5'-P-OP2	-5.42	100.82	105.70
36	1	671	U	O5'-P-OP2	-5.42	100.82	105.70
36	1	1082	U	C2-N1-C1'	5.42	124.20	117.70
1	6	765	G	N1-C2-N3	-5.42	120.65	123.90
36	5	3015	G	C2-N3-C4	-5.42	109.19	111.90
36	1	893	C	C6-N1-C2	-5.42	118.13	120.30
36	1	1409	G	C5-C6-N1	5.42	114.21	111.50
36	1	2303	A	C2-N3-C4	-5.42	107.89	110.60
36	1	2355	G	N3-C4-N9	5.42	129.25	126.00
36	1	2795	U	N3-C2-O2	-5.42	118.41	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3046	A	O5'-P-OP1	-5.42	100.83	105.70
1	6	1572	G	C4-N9-C1'	5.42	133.54	126.50
36	1	784	A	O4'-C1'-N9	5.41	112.53	108.20
36	1	1366	A	C5-C6-N6	-5.41	119.37	123.70
36	5	2981	U	C2-N1-C1'	5.41	124.20	117.70
36	1	2237	C	C6-N1-C2	5.41	122.47	120.30
36	1	2321	A	C4-C5-C6	-5.41	114.29	117.00
36	5	433	A	O5'-P-OP2	-5.41	100.83	105.70
36	5	719	U	N3-C2-O2	-5.41	118.41	122.20
36	5	3260	G	C5-C6-O6	5.41	131.85	128.60
36	1	1061	A	N1-C6-N6	5.41	121.85	118.60
36	5	1181	U	C5-C6-N1	-5.41	120.00	122.70
36	5	2813	A	C4-C5-C6	5.41	119.70	117.00
38	8	34	U	O4'-C1'-N1	5.41	112.53	108.20
36	1	1370	G	C5-C6-O6	-5.41	125.36	128.60
36	1	1379	G	C2-N3-C4	-5.41	109.20	111.90
36	1	2356	A	C5-N7-C8	-5.41	101.20	103.90
36	1	3175	U	N3-C2-O2	-5.41	118.41	122.20
36	5	90	C	N3-C4-N4	5.41	121.78	118.00
36	5	2921	U	C4-C5-C6	5.41	122.94	119.70
36	5	2956	A	N1-C2-N3	5.41	132.00	129.30
36	5	3022	G	N7-C8-N9	-5.41	110.40	113.10
36	1	2101	C	P-O3'-C3'	5.41	126.19	119.70
36	5	1202	A	OP1-P-OP2	5.41	127.71	119.60
36	5	2614	G	OP1-P-OP2	5.41	127.71	119.60
36	5	2733	A	OP1-P-O3'	5.41	117.09	105.20
38	8	23	U	N1-C2-O2	-5.41	119.02	122.80
36	1	3081	C	C2-N3-C4	-5.40	117.20	119.90
54	M8	178	ARG	NE-CZ-NH1	-5.40	117.60	120.30
1	6	1121	C	O5'-P-OP2	-5.40	100.84	105.70
36	5	55	G	OP2-P-O3'	5.40	117.08	105.20
36	5	358	G	N9-C1'-C2'	-5.40	106.06	112.00
36	5	1788	C	O5'-P-OP2	-5.40	100.84	105.70
36	1	299	G	C8-N9-C1'	-5.40	119.98	127.00
36	1	351	A	N1-C2-N3	5.40	132.00	129.30
36	1	351	A	N1-C6-N6	-5.40	115.36	118.60
36	1	1364	C	C5-C4-N4	-5.40	116.42	120.20
36	5	1484	U	C6-N1-C2	5.40	124.24	121.00
36	5	2619	G	C5-C6-O6	-5.40	125.36	128.60
36	5	2805	G	C5-C6-O6	-5.40	125.36	128.60
36	1	1411	C	C2-N3-C4	-5.40	117.20	119.90
36	1	2766	U	OP1-P-O3'	5.40	117.08	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2388	U	N3-C2-O2	5.40	125.98	122.20
36	5	2943	G	O5'-P-OP1	5.40	117.18	110.70
36	1	1365	G	C4-N9-C1'	5.40	133.51	126.50
36	5	2411	U	C5-C6-N1	-5.40	120.00	122.70
36	5	3351	U	C2-N1-C1'	5.40	124.18	117.70
52	m6	94	ARG	NE-CZ-NH1	-5.40	117.60	120.30
1	6	308	C	C6-N1-C1'	5.39	127.27	120.80
36	5	2199	G	C8-N9-C1'	-5.39	119.99	127.00
36	1	752	C	C6-N1-C2	5.39	122.46	120.30
36	1	1187	C	C6-N1-C2	5.39	122.46	120.30
36	1	2796	G	N1-C2-N3	5.39	127.14	123.90
36	5	271	C	N3-C2-O2	-5.39	118.12	121.90
36	1	301	G	C8-N9-C4	5.39	108.56	106.40
36	1	715	A	O4'-C1'-N9	5.39	112.51	108.20
1	6	84	A	N1-C6-N6	-5.39	115.36	118.60
36	5	3092	C	N3-C2-O2	-5.39	118.13	121.90
5	S3	182	LEU	CA-CB-CG	5.39	127.69	115.30
36	1	283	G	O4'-C1'-N9	-5.39	103.89	108.20
36	1	910	G	C4-C5-C6	5.39	122.03	118.80
36	1	3055	U	C5-C4-O4	-5.39	122.67	125.90
1	6	1340	U	N3-C2-O2	-5.39	118.43	122.20
38	8	84	C	C6-N1-C2	-5.39	118.14	120.30
36	1	2303	A	N1-C6-N6	5.39	121.83	118.60
36	1	3278	C	C5-C6-N1	5.39	123.69	121.00
1	6	957	G	N1-C6-O6	5.39	123.13	119.90
36	5	1112	A	C4-C5-C6	5.39	119.69	117.00
36	1	182	U	C5-C4-O4	5.39	129.13	125.90
36	1	1111	U	C5-C6-N1	-5.39	120.01	122.70
36	1	1305	U	O5'-P-OP1	-5.39	100.85	105.70
1	6	1283	U	C2-N1-C1'	-5.39	111.24	117.70
1	6	1458	G	C8-N9-C1'	-5.39	120.00	127.00
36	5	326	U	N3-C4-O4	5.39	123.17	119.40
36	5	2827	U	O4'-C1'-N1	5.39	112.51	108.20
36	5	2866	U	O5'-P-OP1	-5.39	100.85	105.70
36	1	2719	U	N1-C2-N3	5.38	118.13	114.90
36	1	2866	U	N1-C2-O2	5.38	126.57	122.80
1	6	1058	U	P-O3'-C3'	5.38	126.16	119.70
36	5	1370	G	N1-C6-O6	-5.38	116.67	119.90
36	1	703	G	N1-C6-O6	-5.38	116.67	119.90
38	4	121	U	C5-C4-O4	5.38	129.13	125.90
1	6	139	C	P-O3'-C3'	5.38	126.16	119.70
36	5	2166	A	C2-N3-C4	-5.38	107.91	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2733	A	N1-C2-N3	5.38	131.99	129.30
36	1	312	C	N3-C2-O2	5.38	125.67	121.90
36	1	804	C	N3-C4-C5	-5.38	119.75	121.90
36	1	2633	U	N3-C2-O2	-5.38	118.43	122.20
36	5	669	U	C2-N3-C4	-5.38	123.77	127.00
36	5	1083	G	N3-C4-C5	-5.38	125.91	128.60
36	1	2293	C	C5-C4-N4	-5.38	116.43	120.20
36	5	2524	A	N9-C1'-C2'	5.38	120.99	114.00
36	5	2892	A	N1-C2-N3	5.38	131.99	129.30
36	5	2941	A	C5-C6-N6	5.38	128.00	123.70
36	5	425	G	C8-N9-C4	5.38	108.55	106.40
36	5	1903	U	O5'-P-OP2	5.38	117.16	110.70
37	7	57	G	N3-C4-C5	5.38	131.29	128.60
37	7	105	C	C6-N1-C2	-5.38	118.15	120.30
36	1	2298	U	C5-C4-O4	5.38	129.13	125.90
36	1	2766	U	N3-C4-O4	-5.38	115.64	119.40
36	5	644	G	N3-C4-C5	-5.38	125.91	128.60
36	5	1803	C	C6-N1-C2	5.38	122.45	120.30
36	5	1892	G	C4-C5-N7	-5.38	108.65	110.80
36	5	3317	U	N3-C4-O4	-5.38	115.64	119.40
36	5	1207	G	OP1-P-OP2	5.38	127.66	119.60
1	6	103	A	P-O3'-C3'	5.37	126.15	119.70
1	6	1700	C	C6-N1-C1'	-5.37	114.35	120.80
36	5	74	G	C8-N9-C4	-5.37	104.25	106.40
36	5	990	U	N3-C4-C5	5.37	117.82	114.60
36	5	2332	A	N9-C4-C5	-5.37	103.65	105.80
36	1	2619	G	OP1-P-OP2	5.37	127.66	119.60
36	1	2930	A	C5-C6-N6	-5.37	119.40	123.70
1	6	1148	C	C5-C6-N1	-5.37	118.31	121.00
1	6	1600	A	C5-N7-C8	-5.37	101.21	103.90
36	5	719	U	N1-C2-O2	5.37	126.56	122.80
36	5	1144	U	N1-C2-N3	5.37	118.12	114.90
36	5	2382	G	N7-C8-N9	-5.37	110.41	113.10
37	7	41	G	N1-C6-O6	5.37	123.12	119.90
1	6	1744	A	C8-N9-C4	5.37	107.95	105.80
36	5	690	A	N7-C8-N9	-5.37	111.12	113.80
36	5	2859	U	N1-C2-N3	5.37	118.12	114.90
36	5	2952	G	N3-C2-N2	5.37	123.66	119.90
37	7	87	G	N3-C2-N2	-5.37	116.14	119.90
1	2	499	U	C3'-C2'-C1'	5.37	105.79	101.50
36	5	1367	G	C5-C6-N1	-5.37	108.82	111.50
1	6	1549	C	C6-N1-C2	-5.37	118.15	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2634	U	C5-C4-O4	-5.37	122.68	125.90
1	2	355	G	C8-N9-C4	5.36	108.55	106.40
36	1	2355	G	C4-C5-C6	5.36	122.02	118.80
6	s4	222	LEU	CA-CB-CG	5.36	127.64	115.30
36	5	2179	C	C6-N1-C2	5.36	122.44	120.30
36	1	3245	A	OP1-P-O3'	5.36	117.00	105.20
36	1	752	C	C2-N3-C4	-5.36	117.22	119.90
36	1	1336	U	O5'-P-OP2	-5.36	100.88	105.70
36	1	1521	G	C2-N3-C4	-5.36	109.22	111.90
36	1	1830	G	N3-C4-N9	-5.36	122.78	126.00
36	1	2614	G	C5-N7-C8	5.36	106.98	104.30
36	1	2772	C	C2-N1-C1'	5.36	124.70	118.80
1	6	1111	G	C4-C5-N7	5.36	112.94	110.80
36	5	346	C	N1-C2-O2	5.36	122.12	118.90
36	5	2208	A	O4'-C1'-N9	5.36	112.49	108.20
36	1	1661	G	N9-C4-C5	-5.36	103.26	105.40
36	1	2257	C	N3-C2-O2	-5.36	118.15	121.90
1	6	265	A	C5-C6-N6	-5.36	119.41	123.70
36	5	1208	U	N3-C2-O2	-5.36	118.45	122.20
1	6	387	A	N9-C4-C5	5.36	107.94	105.80
1	6	387	A	C4-C5-N7	-5.36	108.02	110.70
1	6	1246	C	C2-N1-C1'	5.36	124.69	118.80
36	5	862	U	N3-C2-O2	5.36	125.95	122.20
36	5	1846	C	C6-N1-C1'	-5.36	114.37	120.80
36	5	2299	A	O5'-P-OP2	-5.36	100.88	105.70
36	1	1082	U	C6-N1-C2	-5.35	117.79	121.00
36	1	1199	C	N3-C2-O2	-5.35	118.15	121.90
36	1	2600	C	N3-C4-N4	-5.35	114.25	118.00
36	1	2653	C	C4-C5-C6	5.35	120.08	117.40
13	c1	120	GLY	N-CA-C	-5.35	99.71	113.10
36	5	3043	C	N3-C4-C5	5.35	124.04	121.90
36	5	1605	A	O4'-C1'-N9	5.35	112.48	108.20
36	5	2882	U	O5'-P-OP2	-5.35	100.88	105.70
36	5	1152	G	C8-N9-C4	-5.35	104.26	106.40
36	5	2231	C	N3-C4-C5	-5.35	119.76	121.90
36	5	2858	U	N1-C2-N3	5.35	118.11	114.90
1	2	1447	C	C6-N1-C2	5.35	122.44	120.30
36	1	1516	C	C6-N1-C2	-5.35	118.16	120.30
36	1	1581	C	N3-C2-O2	-5.35	118.16	121.90
36	1	2187	G	C8-N9-C4	-5.35	104.26	106.40
36	1	2823	G	N9-C4-C5	5.35	107.54	105.40
36	5	327	A	C8-N9-C4	5.35	107.94	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1546	A	N1-C6-N6	5.35	121.81	118.60
36	1	299	G	C6-C5-N7	-5.34	127.19	130.40
36	1	1838	G	N9-C4-C5	-5.34	103.26	105.40
36	1	2875	U	P-O3'-C3'	-5.34	113.29	119.70
36	5	994	G	OP1-P-O3'	5.34	116.96	105.20
36	1	1660	C	N3-C2-O2	5.34	125.64	121.90
1	6	1333	C	N3-C4-C5	5.34	124.04	121.90
36	1	2550	U	N3-C4-O4	-5.34	115.66	119.40
36	1	2662	G	N1-C2-N3	5.34	127.11	123.90
24	d2	68	ARG	NE-CZ-NH1	-5.34	117.63	120.30
36	5	1169	A	C8-N9-C4	5.34	107.94	105.80
36	5	1886	A	O5'-P-OP1	5.34	117.11	110.70
36	5	2372	A	OP2-P-O3'	5.34	116.95	105.20
36	1	715	A	P-O3'-C3'	5.34	126.11	119.70
36	1	1181	U	O5'-P-OP2	-5.34	100.89	105.70
36	1	3306	U	N1-C2-N3	5.34	118.10	114.90
1	6	614	C	C5-C6-N1	-5.34	118.33	121.00
36	5	326	U	C6-N1-C2	-5.34	117.80	121.00
36	5	1199	C	C4-C5-C6	5.34	120.07	117.40
36	5	2621	G	N3-C2-N2	-5.34	116.16	119.90
36	5	2830	G	N3-C4-C5	-5.34	125.93	128.60
36	1	2402	A	OP1-P-OP2	5.34	127.61	119.60
1	2	139	C	P-O3'-C3'	5.34	126.10	119.70
36	5	1222	G	N9-C4-C5	-5.34	103.27	105.40
36	5	2639	G	C5-N7-C8	-5.34	101.63	104.30
36	5	3105	U	C2-N3-C4	-5.34	123.80	127.00
36	5	3128	G	N9-C4-C5	-5.34	103.27	105.40
36	1	2911	A	N7-C8-N9	-5.33	111.13	113.80
1	6	1754	A	N1-C6-N6	-5.33	115.40	118.60
36	5	1124	U	C5-C6-N1	5.33	125.37	122.70
36	5	1496	C	C2-N1-C1'	5.33	124.67	118.80
40	l3	4	ARG	CG-CD-NE	5.33	123.00	111.80
36	1	2764	C	N3-C4-C5	-5.33	119.77	121.90
36	1	3344	A	N1-C2-N3	5.33	131.97	129.30
37	3	84	A	C4-C5-C6	5.33	119.67	117.00
1	6	609	U	O5'-P-OP2	-5.33	100.90	105.70
36	1	1535	A	C6-C5-N7	-5.33	128.57	132.30
36	1	1716	U	P-O3'-C3'	5.33	126.10	119.70
36	5	1438	U	N1-C2-N3	5.33	118.10	114.90
36	5	2919	A	N1-C6-N6	-5.33	115.40	118.60
1	2	1491	U	N3-C2-O2	-5.33	118.47	122.20
36	1	1398	U	N3-C4-O4	-5.33	115.67	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2958	A	C5-C6-N1	5.33	120.36	117.70
36	5	437	G	C8-N9-C1'	5.33	133.93	127.00
36	5	2968	G	C4-C5-N7	-5.33	108.67	110.80
36	1	76	G	N9-C4-C5	5.33	107.53	105.40
36	1	1133	A	C5-C6-N6	-5.33	119.44	123.70
36	5	328	U	C2-N1-C1'	-5.33	111.31	117.70
1	2	1169	G	C8-N9-C4	-5.33	104.27	106.40
36	1	2197	C	C2-N3-C4	5.33	122.56	119.90
36	1	3028	G	N3-C4-C5	-5.33	125.94	128.60
36	5	589	A	N1-C6-N6	5.33	121.80	118.60
38	8	129	C	N1-C2-O2	-5.33	115.70	118.90
1	2	934	C	N3-C4-N4	5.32	121.73	118.00
36	1	343	U	N3-C4-O4	5.32	123.13	119.40
36	1	968	G	N1-C6-O6	5.32	123.09	119.90
36	1	2541	U	P-O3'-C3'	5.32	126.09	119.70
36	5	1489	A	N1-C6-N6	5.32	121.79	118.60
36	1	1082	U	C5-C6-N1	5.32	125.36	122.70
36	1	3312	U	N3-C4-O4	-5.32	115.67	119.40
38	8	17	A	C6-C5-N7	-5.32	128.57	132.30
1	2	694	U	N3-C2-O2	-5.32	118.47	122.20
36	1	2409	G	C8-N9-C4	-5.32	104.27	106.40
61	n5	34	LEU	CA-CB-CG	5.32	127.53	115.30
36	1	664	U	C5-C4-O4	-5.32	122.71	125.90
36	1	1157	G	C8-N9-C4	-5.32	104.27	106.40
36	1	2846	U	C6-N1-C2	-5.32	117.81	121.00
36	1	954	U	N1-C2-O2	-5.32	119.08	122.80
36	1	1406	A	N1-C6-N6	5.32	121.79	118.60
36	1	2278	C	OP2-P-O3'	5.32	116.90	105.20
36	1	2871	G	C8-N9-C1'	5.32	133.91	127.00
36	5	109	A	C8-N9-C4	-5.32	103.67	105.80
36	5	1516	C	C5-C6-N1	-5.32	118.34	121.00
1	2	398	G	C8-N9-C4	-5.32	104.27	106.40
1	2	1768	G	C8-N9-C1'	5.32	133.91	127.00
36	1	894	G	C8-N9-C1'	5.32	133.91	127.00
1	6	617	U	C2-N1-C1'	5.32	124.08	117.70
36	5	514	G	N1-C6-O6	5.32	123.09	119.90
36	5	2718	U	N3-C2-O2	-5.32	118.48	122.20
36	5	2816	G	C4-N9-C1'	-5.32	119.59	126.50
1	6	308	C	C2-N3-C4	-5.31	117.24	119.90
36	5	1942	U	N1-C2-N3	5.31	118.09	114.90
36	5	2901	G	C5-C6-O6	-5.31	125.41	128.60
36	1	627	U	N3-C2-O2	5.31	125.92	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3268	A	N1-C6-N6	5.31	121.79	118.60
36	5	421	G	N1-C2-N3	5.31	127.09	123.90
36	5	1151	U	N3-C4-O4	5.31	123.12	119.40
36	5	1604	G	C8-N9-C1'	-5.31	120.09	127.00
36	5	2765	C	C6-N1-C2	-5.31	118.17	120.30
36	1	1535	A	C5-N7-C8	-5.31	101.25	103.90
36	5	875	G	N1-C6-O6	-5.31	116.71	119.90
43	l6	169	ASP	CB-CG-OD1	-5.31	113.52	118.30
8	S6	54	GLY	N-CA-C	5.31	126.37	113.10
36	1	1377	G	N1-C6-O6	5.31	123.08	119.90
36	1	2225	U	C5-C6-N1	-5.31	120.05	122.70
36	1	2634	U	C2-N3-C4	-5.31	123.82	127.00
36	1	2750	U	C5-C6-N1	-5.31	120.05	122.70
39	L2	191	LEU	CA-CB-CG	-5.31	103.09	115.30
36	5	1056	U	OP2-P-O3'	5.31	116.88	105.20
36	5	2978	U	C4-C5-C6	5.31	122.88	119.70
36	5	3309	G	O4'-C1'-N9	5.31	112.44	108.20
36	1	1699	A	N1-C6-N6	5.31	121.78	118.60
36	5	2650	U	N3-C4-C5	5.31	117.78	114.60
36	5	2887	A	OP1-P-OP2	5.31	127.56	119.60
36	1	2818	U	O4'-C1'-N1	-5.30	103.96	108.20
36	1	3112	G	OP1-P-O3'	5.30	116.87	105.20
38	4	32	C	O5'-P-OP2	-5.30	100.93	105.70
36	5	1110	U	N3-C4-O4	-5.30	115.69	119.40
36	5	2355	G	C6-C5-N7	-5.30	127.22	130.40
36	5	2360	C	OP2-P-O3'	5.30	116.87	105.20
36	1	2406	C	O5'-P-OP2	-5.30	100.93	105.70
1	6	1602	C	N3-C4-N4	-5.30	114.29	118.00
36	5	2186	U	C5-C6-N1	5.30	125.35	122.70
36	5	2405	C	N3-C2-O2	-5.30	118.19	121.90
36	5	2643	A	N9-C4-C5	-5.30	103.68	105.80
36	1	3174	A	N7-C8-N9	5.30	116.45	113.80
1	6	1361	U	N1-C2-O2	5.30	126.51	122.80
36	5	746	A	N1-C6-N6	5.30	121.78	118.60
36	5	2653	C	N1-C2-O2	-5.30	115.72	118.90
36	1	142	C	C2-N1-C1'	5.30	124.63	118.80
36	1	2371	G	C4-C5-N7	5.30	112.92	110.80
36	5	1886	A	C5-C6-N6	-5.30	119.46	123.70
36	1	950	G	N1-C6-O6	-5.30	116.72	119.90
36	1	2692	A	N1-C6-N6	5.30	121.78	118.60
36	5	622	A	C5-C6-N6	-5.30	119.46	123.70
36	5	2818	U	C5'-C4'-O4'	-5.30	102.74	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	299	G	N9-C4-C5	-5.30	103.28	105.40
36	1	2827	U	N1-C2-N3	5.30	118.08	114.90
36	1	3361	G	N9-C4-C5	-5.29	103.28	105.40
37	3	80	G	C6-C5-N7	-5.29	127.22	130.40
1	6	971	A	OP1-P-OP2	-5.29	111.66	119.60
36	5	991	G	N1-C6-O6	-5.29	116.72	119.90
36	5	2730	G	C4-C5-N7	5.29	112.92	110.80
36	1	501	A	N9-C4-C5	-5.29	103.68	105.80
36	1	997	A	C8-N9-C4	-5.29	103.68	105.80
36	5	793	C	O5'-P-OP2	-5.29	100.94	105.70
36	5	2197	C	N3-C2-O2	5.29	125.61	121.90
36	5	2599	U	C5-C6-N1	-5.29	120.05	122.70
36	5	3374	U	N3-C4-O4	-5.29	115.69	119.40
1	2	324	U	C6-N1-C2	-5.29	117.83	121.00
36	1	979	U	N3-C2-O2	-5.29	118.50	122.20
36	1	991	G	C6-C5-N7	-5.29	127.22	130.40
36	1	1581	C	N1-C2-O2	5.29	122.08	118.90
1	6	1297	G	N7-C8-N9	-5.29	110.45	113.10
36	5	2148	U	N1-C2-O2	-5.29	119.10	122.80
36	1	1120	A	N1-C2-N3	5.29	131.94	129.30
36	1	2223	A	OP2-P-O3'	5.29	116.84	105.20
1	2	994	G	C4-C5-N7	-5.29	108.68	110.80
36	1	81	C	N3-C4-C5	5.29	124.02	121.90
36	1	501	A	N1-C6-N6	5.29	121.77	118.60
36	1	2986	U	N3-C4-C5	-5.29	111.43	114.60
36	5	921	A	C6-N1-C2	-5.29	115.43	118.60
36	5	1054	A	C8-N9-C4	5.29	107.92	105.80
36	5	1694	U	N3-C2-O2	-5.29	118.50	122.20
37	7	93	C	C5-C6-N1	-5.29	118.36	121.00
1	2	1153	G	N1-C6-O6	-5.29	116.73	119.90
36	1	1330	A	N1-C6-N6	5.29	121.77	118.60
36	1	2823	G	C5-N7-C8	5.29	106.94	104.30
1	6	1095	U	N3-C4-O4	-5.29	115.70	119.40
36	5	2584	G	OP2-P-O3'	5.29	116.83	105.20
36	1	908	G	N1-C6-O6	5.29	123.07	119.90
36	1	1390	A	N1-C2-N3	5.29	131.94	129.30
36	1	1620	U	C2-N1-C1'	5.29	124.04	117.70
1	6	617	U	N3-C2-O2	-5.29	118.50	122.20
36	5	2862	U	N1-C2-N3	5.29	118.07	114.90
1	2	266	A	C8-N9-C4	5.28	107.91	105.80
1	6	337	G	N7-C8-N9	5.28	115.74	113.10
36	5	2882	U	C6-N1-C2	-5.28	117.83	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1745	G	C6-N1-C2	-5.28	121.93	125.10
36	1	1389	G	C6-C5-N7	-5.28	127.23	130.40
36	1	1699	A	C8-N9-C4	5.28	107.91	105.80
36	1	2283	G	C5-C6-N1	-5.28	108.86	111.50
1	6	1793	G	C6-C5-N7	5.28	133.57	130.40
36	5	1208	U	N1-C2-N3	5.28	118.07	114.90
36	5	1725	C	O4'-C1'-N1	5.28	112.42	108.20
36	5	3231	U	C5-C4-O4	5.28	129.07	125.90
1	6	755	A	P-O3'-C3'	5.28	126.03	119.70
1	2	1572	G	C4-C5-N7	5.28	112.91	110.80
36	1	267	G	N1-C6-O6	5.28	123.07	119.90
36	1	1320	C	C2-N1-C1'	5.28	124.60	118.80
1	6	1745	G	C5-C6-O6	-5.28	125.43	128.60
36	5	968	G	N7-C8-N9	-5.28	110.46	113.10
36	5	1064	A	P-O3'-C3'	5.28	126.03	119.70
36	5	2943	G	C4-C5-N7	5.28	112.91	110.80
1	2	75	U	N1-C2-O2	5.28	126.49	122.80
1	2	1206	U	C6-N1-C2	-5.28	117.83	121.00
36	1	420	G	N3-C4-N9	5.28	129.17	126.00
36	1	1119	C	C5-C6-N1	-5.28	118.36	121.00
1	6	1037	C	C6-N1-C2	5.28	122.41	120.30
36	5	1799	A	C8-N9-C4	-5.28	103.69	105.80
36	5	2618	G	C5-C6-N1	5.28	114.14	111.50
1	6	582	U	N1-C2-O2	5.27	126.49	122.80
36	5	2820	A	N1-C6-N6	5.27	121.77	118.60
36	1	3312	U	N3-C4-C5	5.27	117.76	114.60
1	6	377	G	N1-C6-O6	-5.27	116.74	119.90
1	6	1028	C	C4-C5-C6	5.27	120.04	117.40
36	5	1371	G	C4-C5-N7	-5.27	108.69	110.80
36	5	3269	U	P-O3'-C3'	5.27	126.03	119.70
36	1	152	U	C6-N1-C2	-5.27	117.84	121.00
36	1	281	G	C4-N9-C1'	5.27	133.35	126.50
36	1	708	G	C8-N9-C4	5.27	108.51	106.40
36	1	1171	G	C8-N9-C4	5.27	108.51	106.40
36	5	1181	U	N1-C2-N3	5.27	118.06	114.90
36	1	3199	G	C8-N9-C1'	5.27	133.85	127.00
36	1	3218	A	P-O3'-C3'	5.27	126.02	119.70
1	6	337	G	C4-C5-N7	5.27	112.91	110.80
36	5	887	G	C2-N3-C4	-5.27	109.27	111.90
84	p0	70	LEU	CA-CB-CG	5.27	127.42	115.30
36	1	2118	C	N3-C2-O2	5.27	125.59	121.90
36	1	2355	G	C4-C5-N7	5.27	112.91	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	218	G	OP1-P-OP2	5.27	127.50	119.60
36	5	1452	A	C4-C5-N7	5.27	113.33	110.70
36	5	2430	A	C4-C5-C6	5.27	119.63	117.00
36	5	3227	A	N1-C6-N6	5.27	121.76	118.60
36	1	518	G	C4-C5-N7	5.27	112.91	110.80
1	6	1006	C	N1-C2-O2	-5.27	115.74	118.90
1	6	1638	G	N9-C4-C5	5.27	107.51	105.40
37	7	105	C	N3-C4-C5	-5.27	119.79	121.90
1	2	1324	G	N1-C2-N2	5.26	120.94	116.20
36	1	3277	U	N1-C2-O2	5.26	126.48	122.80
36	5	1116	G	C4-C5-C6	5.26	121.96	118.80
36	5	3015	G	OP2-P-O3'	5.26	116.78	105.20
36	1	3215	A	C8-N9-C4	5.26	107.91	105.80
36	5	2950	G	C8-N9-C4	-5.26	104.30	106.40
36	1	2727	A	OP2-P-O3'	5.26	116.77	105.20
1	6	385	A	N9-C4-C5	5.26	107.91	105.80
36	5	648	C	O5'-P-OP1	-5.26	100.96	105.70
36	5	1307	G	OP1-P-OP2	5.26	127.49	119.60
36	5	2379	U	C5-C6-N1	-5.26	120.07	122.70
36	5	2617	U	N1-C2-N3	5.26	118.06	114.90
36	5	2888	U	C5-C4-O4	-5.26	122.74	125.90
1	2	1363	U	C2-N1-C1'	5.26	124.01	117.70
36	1	2176	U	N1-C2-O2	5.26	126.48	122.80
36	1	2257	C	C6-N1-C2	-5.26	118.20	120.30
38	4	40	A	C6-C5-N7	-5.26	128.62	132.30
1	6	65	A	C5-N7-C8	-5.26	101.27	103.90
36	5	1041	U	O5'-P-OP2	-5.26	100.97	105.70
36	5	3200	G	C6-C5-N7	-5.26	127.25	130.40
36	1	1868	G	C5-N7-C8	-5.26	101.67	104.30
36	1	2879	C	N3-C4-C5	-5.26	119.80	121.90
36	5	2165	G	C6-C5-N7	-5.26	127.25	130.40
36	1	2720	G	C8-N9-C4	5.26	108.50	106.40
1	6	1641	C	N1-C2-O2	-5.26	115.75	118.90
36	5	1381	A	C2-N3-C4	-5.26	107.97	110.60
38	8	24	G	N1-C6-O6	-5.26	116.75	119.90
1	6	400	A	C5-C6-N6	-5.25	119.50	123.70
36	5	2199	G	C5-C6-N1	-5.25	108.87	111.50
38	8	17	A	C5-C6-N6	-5.25	119.50	123.70
36	1	98	G	C2-N3-C4	-5.25	109.27	111.90
36	1	332	C	C2-N1-C1'	-5.25	113.02	118.80
36	1	1417	G	N7-C8-N9	-5.25	110.47	113.10
1	6	1584	G	N9-C4-C5	-5.25	103.30	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	325	G	N3-C4-C5	5.25	131.22	128.60
1	2	1585	U	O5'-P-OP2	-5.25	100.97	105.70
36	1	392	G	C4-C5-N7	5.25	112.90	110.80
36	1	2276	G	C8-N9-C4	-5.25	104.30	106.40
36	5	1789	G	C8-N9-C4	5.25	108.50	106.40
36	5	1885	U	C5-C6-N1	-5.25	120.07	122.70
1	2	1768	G	N9-C4-C5	5.25	107.50	105.40
36	1	2434	U	C5-C6-N1	-5.25	120.08	122.70
36	1	2791	G	N3-C2-N2	-5.25	116.23	119.90
37	3	79	A	N1-C2-N3	5.25	131.92	129.30
38	8	44	A	C4-C5-N7	5.25	113.32	110.70
1	2	1596	C	N3-C2-O2	-5.25	118.23	121.90
1	6	1766	A	OP1-P-O3'	5.25	116.74	105.20
36	5	2763	U	C2-N3-C4	-5.25	123.85	127.00
36	5	3041	U	C4-C5-C6	-5.25	116.55	119.70
36	1	2335	G	N1-C6-O6	-5.25	116.75	119.90
36	1	2967	A	N1-C6-N6	5.25	121.75	118.60
1	6	1037	C	N3-C4-C5	5.25	124.00	121.90
36	5	1874	A	C2-N3-C4	-5.25	107.98	110.60
36	5	2920	U	N1-C2-N3	5.25	118.05	114.90
36	1	3016	A	N1-C6-N6	5.24	121.75	118.60
36	1	3361	G	C4-C5-N7	5.24	112.90	110.80
36	5	2374	C	C2-N1-C1'	5.24	124.57	118.80
36	1	1204	A	N9-C4-C5	-5.24	103.70	105.80
36	1	2104	A	C8-N9-C4	5.24	107.90	105.80
1	6	540	G	N1-C2-N3	-5.24	120.75	123.90
1	6	815	G	C4-C5-N7	5.24	112.90	110.80
36	5	2651	G	OP2-P-O3'	5.24	116.73	105.20
36	5	3086	A	O5'-P-OP2	5.24	116.99	110.70
36	1	900	G	C4-C5-N7	-5.24	108.70	110.80
36	1	1102	A	C2-N3-C4	-5.24	107.98	110.60
36	1	2306	C	N3-C4-N4	-5.24	114.33	118.00
36	5	1848	G	N9-C4-C5	-5.24	103.31	105.40
36	5	2412	G	N1-C6-O6	-5.24	116.76	119.90
37	7	91	G	N3-C4-N9	5.24	129.14	126.00
36	1	1505	C	OP2-P-O3'	5.24	116.72	105.20
36	1	2350	C	C2-N3-C4	-5.24	117.28	119.90
36	5	145	G	N3-C4-C5	5.24	131.22	128.60
36	5	1797	A	OP1-P-OP2	-5.24	111.74	119.60
36	5	2273	G	N7-C8-N9	-5.24	110.48	113.10
1	2	362	G	N1-C2-N3	5.24	127.04	123.90
1	2	1246	C	N3-C2-O2	-5.24	118.23	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	587	U	C5-C6-N1	-5.24	120.08	122.70
36	1	793	C	O5'-P-OP2	-5.24	100.99	105.70
36	1	1496	C	C2-N1-C1'	5.24	124.56	118.80
36	5	1882	G	C5-C6-O6	-5.24	125.46	128.60
36	5	3377	G	C2-N3-C4	5.24	114.52	111.90
1	6	901	G	C5-N7-C8	-5.23	101.68	104.30
1	6	1458	G	C4-N9-C1'	5.23	133.30	126.50
36	1	2988	C	N1-C2-O2	-5.23	115.76	118.90
1	6	1600	A	C5-C6-N1	-5.23	115.08	117.70
36	5	27	C	C6-N1-C1'	5.23	127.08	120.80
36	5	197	G	C5-N7-C8	-5.23	101.68	104.30
36	5	530	G	N1-C6-O6	-5.23	116.76	119.90
36	5	669	U	C5-C6-N1	-5.23	120.08	122.70
1	2	704	C	O4'-C1'-N1	5.23	112.38	108.20
1	2	730	G	C4-N9-C1'	5.23	133.30	126.50
36	1	1883	A	C8-N9-C4	5.23	107.89	105.80
36	1	2357	A	C4-C5-N7	5.23	113.31	110.70
1	6	1478	G	N3-C4-C5	-5.23	125.98	128.60
36	5	1879	A	N9-C4-C5	-5.23	103.71	105.80
36	5	1884	A	C2-N3-C4	-5.23	107.98	110.60
1	2	704	C	N1-C2-O2	5.23	122.04	118.90
36	1	1445	U	N1-C2-N3	5.23	118.04	114.90
36	5	644	G	C5-N7-C8	5.23	106.91	104.30
36	5	718	G	C4-N9-C1'	5.23	133.30	126.50
38	8	8	C	N1-C2-N3	5.23	122.86	119.20
36	1	1097	G	C2-N3-C4	5.23	114.51	111.90
36	1	2321	A	C8-N9-C4	5.23	107.89	105.80
1	6	404	G	O5'-P-OP1	-5.23	101.00	105.70
36	1	2818	U	O5'-P-OP2	-5.23	101.00	105.70
1	6	136	C	N1-C2-O2	5.23	122.04	118.90
36	5	19	U	N3-C4-O4	5.23	123.06	119.40
36	1	419	G	N3-C2-N2	5.22	123.56	119.90
36	1	663	C	N1-C2-O2	-5.22	115.77	118.90
36	1	1167	U	C5-C6-N1	-5.22	120.09	122.70
36	1	2606	G	N3-C2-N2	5.22	123.56	119.90
36	1	2607	G	O5'-P-OP2	-5.22	101.00	105.70
1	6	145	A	OP1-P-O3'	5.22	116.69	105.20
36	5	859	G	C4-C5-N7	5.22	112.89	110.80
36	5	1843	C	N3-C4-N4	5.22	121.66	118.00
36	5	2615	G	C6-C5-N7	-5.22	127.27	130.40
36	5	2970	C	C4-C5-C6	5.22	120.01	117.40
15	C3	22	ALA	C-N-CA	5.22	143.93	122.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	SM	134	ASP	CB-CG-OD2	5.22	123.00	118.30
36	1	3123	A	N3-C4-C5	5.22	130.46	126.80
1	6	308	C	C2-N1-C1'	-5.22	113.06	118.80
36	5	2620	G	C8-N9-C1'	5.22	133.79	127.00
36	5	3128	G	C5-C6-O6	-5.22	125.47	128.60
1	2	1798	U	N3-C2-O2	-5.22	118.55	122.20
36	1	283	G	C4-N9-C1'	5.22	133.29	126.50
36	5	2278	C	OP2-P-O3'	5.22	116.69	105.20
36	5	2940	A	N1-C6-N6	5.22	121.73	118.60
36	5	3341	U	C5-C6-N1	5.22	125.31	122.70
38	8	95	G	C8-N9-C1'	5.22	133.79	127.00
1	2	334	G	N3-C4-N9	-5.22	122.87	126.00
1	2	1798	U	C2-N1-C1'	5.22	123.96	117.70
1	6	1150	G	C8-N9-C4	5.22	108.49	106.40
36	5	2279	A	OP1-P-OP2	-5.22	111.77	119.60
36	5	2408	U	O5'-P-OP2	-5.22	101.00	105.70
68	o2	4	LEU	C-N-CD	5.22	139.36	128.40
36	1	613	G	N1-C6-O6	5.22	123.03	119.90
36	1	3303	G	O4'-C1'-N9	5.22	112.38	108.20
20	c8	116	LEU	CA-CB-CG	5.22	127.30	115.30
1	6	1297	G	C8-N9-C4	5.22	108.49	106.40
36	5	716	A	C8-N9-C4	5.22	107.89	105.80
36	5	1114	U	N1-C2-O2	5.22	126.45	122.80
36	5	1336	U	O5'-P-OP2	-5.22	101.00	105.70
36	5	2231	C	C2-N1-C1'	5.22	124.54	118.80
36	5	2957	G	C2-N3-C4	-5.22	109.29	111.90
1	2	73	U	P-O3'-C3'	5.21	125.96	119.70
36	1	96	G	N3-C4-N9	-5.21	122.87	126.00
36	1	1476	G	C4-C5-N7	-5.21	108.71	110.80
36	1	1741	A	C2-N3-C4	-5.21	107.99	110.60
1	6	695	U	N3-C2-O2	-5.21	118.55	122.20
36	5	2619	G	C5-C6-N1	5.21	114.11	111.50
36	1	351	A	C5-C6-N6	5.21	127.87	123.70
36	1	585	A	C2-N3-C4	-5.21	107.99	110.60
36	1	939	U	C5-C4-O4	-5.21	122.77	125.90
36	1	1081	U	C5-C6-N1	5.21	125.31	122.70
36	1	1367	G	C4-C5-N7	5.21	112.89	110.80
36	1	2918	G	C2-N3-C4	5.21	114.51	111.90
36	1	3208	G	N9-C4-C5	5.21	107.48	105.40
38	4	21	C	C2-N1-C1'	-5.21	113.07	118.80
1	6	1722	A	C2-N3-C4	-5.21	107.99	110.60
36	5	1125	U	N3-C4-O4	-5.21	115.75	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1238	C	P-O3'-C3'	5.21	125.95	119.70
36	5	1389	G	C4-C5-N7	5.21	112.89	110.80
36	1	651	G	OP2-P-O3'	5.21	116.66	105.20
36	5	374	A	N9-C4-C5	5.21	107.88	105.80
1	2	1213	G	C5-C6-O6	5.21	131.72	128.60
36	1	49	A	N9-C4-C5	-5.21	103.72	105.80
36	1	780	A	C5-C6-N6	5.21	127.87	123.70
36	1	785	G	C2-N3-C4	5.21	114.50	111.90
36	1	1307	G	C5-C6-N1	5.21	114.10	111.50
36	1	2279	A	O5'-P-OP1	-5.21	101.01	105.70
36	1	2613	U	C4-C5-C6	5.21	122.83	119.70
36	5	2727	A	O5'-P-OP2	-5.21	101.01	105.70
36	1	2286	U	O5'-P-OP2	-5.21	101.02	105.70
36	1	3326	G	N7-C8-N9	-5.21	110.50	113.10
36	5	2817	A	N1-C6-N6	5.21	121.72	118.60
36	5	101	G	C8-N9-C4	-5.21	104.32	106.40
36	5	509	U	N3-C4-C5	5.21	117.72	114.60
36	5	2942	C	N1-C2-O2	-5.21	115.78	118.90
1	2	424	C	C2-N3-C4	5.20	122.50	119.90
36	1	55	G	OP2-P-O3'	5.20	116.65	105.20
36	1	1881	A	C5-C6-N1	5.20	120.30	117.70
36	1	2603	G	C5-C6-O6	-5.20	125.48	128.60
36	5	890	C	P-O3'-C3'	5.20	125.94	119.70
36	5	1060	U	C2-N1-C1'	-5.20	111.45	117.70
36	5	1868	G	C6-C5-N7	-5.20	127.28	130.40
36	5	2164	A	C4-C5-C6	5.20	119.60	117.00
36	5	3183	A	C8-N9-C4	5.20	107.88	105.80
36	5	3000	A	C8-N9-C4	5.20	107.88	105.80
1	2	1213	G	N1-C6-O6	-5.20	116.78	119.90
36	1	1433	A	C6-N1-C2	-5.20	115.48	118.60
36	1	1860	G	C8-N9-C4	5.20	108.48	106.40
36	1	2833	A	C8-N9-C4	5.20	107.88	105.80
1	6	337	G	N3-C4-N9	5.20	129.12	126.00
36	5	32	U	N3-C2-O2	-5.20	118.56	122.20
36	5	207	U	C2-N3-C4	-5.20	123.88	127.00
36	5	859	G	C6-C5-N7	-5.20	127.28	130.40
36	5	1506	A	C8-N9-C4	-5.20	103.72	105.80
36	5	2682	C	C2'-C3'-O3'	5.20	122.02	113.70
36	1	1202	A	C5-C6-N1	-5.20	115.10	117.70
1	6	1022	C	C5-C6-N1	-5.20	118.40	121.00
36	5	234	G	C4-C5-N7	5.20	112.88	110.80
36	5	1149	G	N9-C1'-C2'	-5.20	106.28	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1716	U	P-O3'-C3'	5.20	125.94	119.70
36	5	2164	A	N1-C6-N6	5.20	121.72	118.60
38	8	55	U	N3-C2-O2	-5.20	118.56	122.20
36	1	1199	C	N1-C2-O2	5.20	122.02	118.90
36	1	2369	G	N3-C4-N9	5.20	129.12	126.00
36	1	2760	C	N3-C4-C5	-5.20	119.82	121.90
36	5	700	C	C6-N1-C2	5.20	122.38	120.30
36	5	3177	G	C8-N9-C4	5.20	108.48	106.40
38	8	32	C	C2-N1-C1'	-5.20	113.08	118.80
78	q2	93	LEU	CA-CB-CG	5.20	127.25	115.30
1	2	388	G	C5-C6-O6	-5.20	125.48	128.60
36	1	3148	U	N3-C4-C5	5.20	117.72	114.60
1	6	65	A	C6-N1-C2	5.20	121.72	118.60
1	6	1517	U	C2-N1-C1'	-5.20	111.47	117.70
4	s2	229	LEU	CA-CB-CG	5.20	127.25	115.30
36	5	1662	G	C6-C5-N7	-5.20	127.28	130.40
36	5	2372	A	N3-C4-C5	-5.20	123.16	126.80
36	5	2726	C	N1-C2-N3	5.20	122.84	119.20
1	2	896	U	N1-C2-O2	5.19	126.44	122.80
36	1	2632	G	N1-C6-O6	-5.19	116.78	119.90
36	1	3252	G	N3-C4-C5	5.19	131.20	128.60
36	5	2924	U	N3-C2-O2	5.19	125.84	122.20
36	1	2943	G	C4-C5-N7	5.19	112.88	110.80
1	6	1039	A	O4'-C1'-N9	5.19	112.35	108.20
36	5	1384	U	N3-C2-O2	-5.19	118.56	122.20
36	5	2986	U	N3-C4-O4	5.19	123.03	119.40
36	1	653	A	C2-N3-C4	-5.19	108.00	110.60
36	1	2621	G	O5'-P-OP2	-5.19	101.03	105.70
36	5	880	G	C6-N1-C2	-5.19	121.99	125.10
36	5	2928	C	C6-N1-C2	-5.19	118.22	120.30
36	5	1306	G	N1-C6-O6	5.19	123.01	119.90
36	5	1929	G	C5-C6-O6	-5.19	125.49	128.60
36	5	2250	G	N3-C4-N9	5.19	129.11	126.00
36	1	2409	G	N3-C4-C5	-5.19	126.01	128.60
36	1	2831	G	C6-C5-N7	-5.19	127.29	130.40
36	5	1150	A	O5'-P-OP2	-5.19	101.03	105.70
1	2	1745	G	C6-N1-C2	-5.19	121.99	125.10
36	1	107	A	N1-C6-N6	5.19	121.71	118.60
36	1	1097	G	P-O3'-C3'	5.19	125.92	119.70
36	5	3365	U	C5-C4-O4	-5.19	122.79	125.90
1	2	1745	G	N3-C4-C5	-5.18	126.01	128.60
36	1	80	G	C6-N1-C2	-5.18	121.99	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1791	C	C6-N1-C2	5.18	122.37	120.30
36	1	1807	G	N3-C4-N9	5.18	129.11	126.00
36	1	2603	G	OP1-P-O3'	5.18	116.61	105.20
1	6	577	G	C6-C5-N7	-5.18	127.29	130.40
36	5	2661	G	OP1-P-O3'	5.18	116.61	105.20
1	2	1637	C	N1-C2-O2	5.18	122.01	118.90
36	1	318	A	O5'-P-OP1	-5.18	101.03	105.70
36	1	339	C	N3-C2-O2	-5.18	118.27	121.90
1	6	941	A	N1-C6-N6	-5.18	115.49	118.60
36	5	43	A	O4'-C1'-N9	5.18	112.35	108.20
36	5	863	C	C5-C6-N1	-5.18	118.41	121.00
36	5	898	U	N1-C2-N3	-5.18	111.79	114.90
36	5	1879	A	OP1-P-OP2	-5.18	111.83	119.60
36	5	2912	G	O5'-P-OP2	5.18	116.92	110.70
36	1	1505	C	C2-N3-C4	-5.18	117.31	119.90
36	1	2431	C	C5-C6-N1	-5.18	118.41	121.00
36	5	1549	U	C6-N1-C2	5.18	124.11	121.00
1	2	1036	A	C8-N9-C4	5.18	107.87	105.80
36	1	613	G	C5-C6-O6	-5.18	125.49	128.60
36	1	1885	U	N3-C4-O4	5.18	123.03	119.40
36	1	2603	G	C6-C5-N7	-5.18	127.29	130.40
38	4	113	U	C6-N1-C1'	5.18	128.45	121.20
73	O7	11	ARG	NE-CZ-NH1	-5.18	117.71	120.30
36	5	75	G	N3-C4-C5	-5.18	126.01	128.60
36	5	1598	G	C8-N9-C4	5.18	108.47	106.40
36	5	1847	A	C2-N3-C4	-5.18	108.01	110.60
36	5	2774	C	N3-C4-C5	-5.18	119.83	121.90
36	5	3172	A	C2-N3-C4	-5.18	108.01	110.60
1	2	631	G	C4-C5-N7	-5.18	108.73	110.80
36	1	1116	G	C8-N9-C4	-5.18	104.33	106.40
36	5	1449	A	N1-C2-N3	5.18	131.89	129.30
1	2	1772	C	OP1-P-O3'	5.18	116.59	105.20
36	1	2369	G	N3-C4-C5	-5.18	126.01	128.60
36	1	2624	G	C6-C5-N7	-5.18	127.29	130.40
1	6	1596	C	C5-C4-N4	5.18	123.82	120.20
36	5	121	A	C8-N9-C4	5.18	107.87	105.80
36	5	343	U	N1-C2-N3	5.18	118.01	114.90
36	5	435	C	O5'-P-OP2	-5.18	101.04	105.70
36	5	818	C	N1-C2-O2	-5.18	115.79	118.90
36	5	1147	G	C2-N3-C4	5.18	114.49	111.90
36	1	2606	G	C4-C5-N7	5.17	112.87	110.80
1	6	9	U	C5-C4-O4	-5.17	122.80	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	115	G	C8-N9-C4	5.17	108.47	106.40
1	6	125	U	C6-N1-C2	5.17	124.10	121.00
1	6	1095	U	N3-C4-C5	5.17	117.70	114.60
36	1	1724	U	P-O3'-C3'	5.17	125.91	119.70
36	5	1438	U	C6-N1-C2	-5.17	117.90	121.00
38	8	22	U	C5-C6-N1	-5.17	120.11	122.70
1	2	75	U	N3-C2-O2	-5.17	118.58	122.20
36	1	1751	G	C8-N9-C4	5.17	108.47	106.40
1	6	558	U	C5-C6-N1	5.17	125.28	122.70
36	5	522	A	C2-N3-C4	-5.17	108.01	110.60
36	5	935	U	N3-C4-O4	5.17	123.02	119.40
36	1	159	A	C8-N9-C4	5.17	107.87	105.80
36	1	934	G	C8-N9-C1'	-5.17	120.28	127.00
1	6	787	G	N3-C4-N9	5.17	129.10	126.00
36	1	681	U	C5-C6-N1	-5.17	120.11	122.70
36	1	2831	G	C5-C6-N1	-5.17	108.92	111.50
49	M3	47	ALA	C-N-CD	5.17	139.25	128.40
36	5	757	C	OP2-P-O3'	5.17	116.57	105.20
1	2	874	C	C5-C6-N1	5.17	123.58	121.00
36	1	2283	G	C2-N3-C4	-5.17	109.32	111.90
36	5	718	G	C8-N9-C1'	-5.17	120.28	127.00
36	5	847	A	N7-C8-N9	-5.17	111.22	113.80
36	5	2526	C	C6-N1-C1'	-5.17	114.60	120.80
36	5	2817	A	N3-C4-N9	5.17	131.53	127.40
38	8	90	U	C6-N1-C2	5.17	124.10	121.00
1	2	1268	G	O5'-P-OP2	-5.17	101.05	105.70
36	1	1180	A	N1-C6-N6	-5.17	115.50	118.60
36	1	1741	A	N1-C2-N3	5.17	131.88	129.30
36	1	2571	U	N3-C2-O2	-5.17	118.58	122.20
1	6	616	G	C2-N3-C4	5.17	114.48	111.90
1	2	110	U	N3-C4-C5	5.16	117.70	114.60
36	1	715	A	C8-N9-C4	-5.16	103.73	105.80
1	6	42	G	C5-C6-N1	5.16	114.08	111.50
1	2	934	C	C6-N1-C1'	-5.16	114.61	120.80
36	1	1305	U	C2-N1-C1'	5.16	123.89	117.70
20	c8	15	LEU	CA-CB-CG	5.16	127.17	115.30
36	5	1433	A	C5-C6-N6	5.16	127.83	123.70
36	5	1789	G	C8-N9-C1'	5.16	133.71	127.00
1	2	1754	A	C2-N3-C4	-5.16	108.02	110.60
3	S1	70	LEU	CA-CB-CG	5.16	127.17	115.30
36	1	2928	C	O5'-P-OP1	-5.16	101.06	105.70
1	6	313	U	C5-C6-N1	-5.16	120.12	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2665	U	O5'-P-OP2	-5.16	101.06	105.70
38	8	42	G	O5'-P-OP2	-5.16	101.06	105.70
36	1	25	U	N1-C2-N3	5.16	118.00	114.90
36	1	942	U	O5'-P-OP1	5.16	116.89	110.70
1	6	957	G	N3-C2-N2	-5.16	116.29	119.90
1	2	25	C	P-O3'-C3'	5.16	125.89	119.70
36	1	1040	A	N1-C6-N6	5.16	121.69	118.60
36	5	677	A	C2-N3-C4	-5.16	108.02	110.60
36	5	1179	A	C8-N9-C4	5.16	107.86	105.80
36	5	1431	G	C2-N3-C4	5.16	114.48	111.90
1	2	565	C	N3-C4-C5	5.16	123.96	121.90
36	1	1124	U	C5-C4-O4	-5.16	122.81	125.90
36	1	1425	U	C5-C4-O4	5.16	128.99	125.90
36	1	2537	U	P-O3'-C3'	5.15	125.89	119.70
36	5	3343	G	N3-C2-N2	5.15	123.51	119.90
1	2	1124	A	O5'-P-OP2	5.15	116.88	110.70
1	2	1651	A	C5-C6-N1	-5.15	115.12	117.70
36	1	1335	C	N3-C2-O2	-5.15	118.29	121.90
38	4	96	A	N1-C6-N6	5.15	121.69	118.60
36	5	1420	C	OP2-P-O3'	5.15	116.54	105.20
36	5	1902	G	O5'-P-OP1	-5.15	101.06	105.70
36	5	2695	A	N1-C6-N6	-5.15	115.51	118.60
36	1	1203	A	C2-N3-C4	-5.15	108.03	110.60
36	1	1691	U	O5'-P-OP2	-5.15	101.06	105.70
36	1	1940	G	N1-C2-N2	-5.15	111.56	116.20
36	1	2621	G	N1-C2-N2	5.15	120.84	116.20
36	1	3377	G	C4-C5-N7	5.15	112.86	110.80
36	1	650	C	N3-C2-O2	5.15	125.50	121.90
36	5	1190	A	O4'-C1'-N9	-5.15	104.08	108.20
36	1	1838	G	C5-N7-C8	-5.15	101.73	104.30
36	1	2722	U	C5-C6-N1	-5.15	120.13	122.70
38	4	42	G	OP1-P-O3'	5.15	116.53	105.20
1	6	1340	U	C5-C4-O4	5.15	128.99	125.90
36	5	2375	G	N1-C6-O6	-5.15	116.81	119.90
36	5	2385	G	C8-N9-C1'	5.15	133.69	127.00
36	5	2626	A	N1-C2-N3	5.15	131.87	129.30
1	6	113	U	C2-N1-C1'	-5.15	111.52	117.70
1	6	144	U	C6-N1-C2	-5.15	117.91	121.00
36	5	749	C	C6-N1-C2	-5.15	118.24	120.30
1	2	103	A	P-O3'-C3'	5.14	125.87	119.70
1	2	1244	A	P-O3'-C3'	5.14	125.87	119.70
1	2	1324	G	C6-C5-N7	5.14	133.49	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1410	U	C5-C4-O4	5.14	128.99	125.90
36	1	1939	G	N3-C2-N2	-5.14	116.30	119.90
36	1	2860	U	C4-C5-C6	-5.14	116.61	119.70
1	6	1659	A	N1-C6-N6	5.14	121.69	118.60
36	5	2237	C	OP2-P-O3'	5.14	116.52	105.20
36	5	2387	A	C6-C5-N7	-5.14	128.70	132.30
36	5	3124	G	C8-N9-C4	-5.14	104.34	106.40
36	1	2818	U	P-O3'-C3'	5.14	125.87	119.70
74	O8	14	LEU	CA-CB-CG	5.14	127.12	115.30
36	5	2201	G	N3-C2-N2	5.14	123.50	119.90
36	5	3381	U	C5-C4-O4	5.14	128.98	125.90
1	2	1611	A	O4'-C1'-N9	5.14	112.31	108.20
36	1	281	G	N9-C4-C5	-5.14	103.34	105.40
36	1	2700	G	C6-C5-N7	-5.14	127.32	130.40
36	5	1556	C	C6-N1-C2	-5.14	118.24	120.30
36	1	2234	G	C4-N9-C1'	5.14	133.18	126.50
36	1	2810	C	C6-N1-C2	5.14	122.36	120.30
1	6	862	A	N1-C6-N6	-5.14	115.52	118.60
36	5	2990	G	N3-C4-N9	5.14	129.08	126.00
36	1	608	A	C4-C5-C6	5.13	119.57	117.00
36	1	857	G	C2-N3-C4	-5.13	109.33	111.90
1	6	426	G	N1-C6-O6	-5.13	116.82	119.90
36	5	2649	A	N1-C6-N6	5.13	121.68	118.60
36	5	2725	U	N1-C2-O2	5.13	126.39	122.80
38	4	113	U	N3-C4-O4	-5.13	115.81	119.40
36	1	1342	C	N3-C4-C5	5.13	123.95	121.90
36	5	644	G	N9-C4-C5	5.13	107.45	105.40
36	5	3182	G	OP1-P-OP2	-5.13	111.90	119.60
1	2	328	A	N1-C6-N6	5.13	121.68	118.60
1	2	334	G	C8-N9-C1'	5.13	133.67	127.00
1	6	95	G	N9-C4-C5	5.13	107.45	105.40
36	5	1151	U	N3-C4-C5	-5.13	111.52	114.60
36	5	1480	G	N3-C4-C5	5.13	131.16	128.60
36	5	2325	G	C5-C6-N1	-5.13	108.94	111.50
36	1	623	U	C2-N1-C1'	-5.13	111.55	117.70
36	1	874	U	N3-C4-C5	5.13	117.68	114.60
36	1	1216	C	C5-C6-N1	5.13	123.56	121.00
36	1	2403	G	C4-C5-C6	5.13	121.88	118.80
36	5	555	U	C2-N1-C1'	5.13	123.86	117.70
37	7	36	C	N3-C4-N4	-5.13	114.41	118.00
36	1	658	G	C4-C5-N7	-5.13	108.75	110.80
1	6	1177	C	C6-N1-C2	5.13	122.35	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	205	C	O5'-P-OP1	-5.13	101.09	105.70
36	5	1810	A	C8-N9-C4	5.13	107.85	105.80
36	1	1928	G	N3-C4-C5	5.12	131.16	128.60
36	1	2305	G	C5-C6-O6	-5.12	125.53	128.60
36	1	2384	A	N3-C4-C5	-5.12	123.21	126.80
1	6	1645	G	C5-C6-N1	5.12	114.06	111.50
1	2	1269	U	C5-C4-O4	-5.12	122.83	125.90
1	2	1455	G	O5'-P-OP2	-5.12	101.09	105.70
36	1	2357	A	C5-C6-N1	5.12	120.26	117.70
36	5	651	G	C6-C5-N7	-5.12	127.33	130.40
36	5	2804	A	N1-C2-N3	5.12	131.86	129.30
1	2	571	G	N7-C8-N9	-5.12	110.54	113.10
1	2	1782	A	C8-N9-C4	-5.12	103.75	105.80
36	1	157	A	C4-C5-C6	5.12	119.56	117.00
36	1	3143	C	C6-N1-C2	5.12	122.35	120.30
36	1	3269	U	P-O3'-C3'	5.12	125.84	119.70
36	1	3369	G	O4'-C1'-N9	5.12	112.30	108.20
53	M7	56	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	6	1503	A	O4'-C1'-N9	5.12	112.30	108.20
36	5	1384	U	N1-C2-O2	5.12	126.39	122.80
1	2	323	A	O5'-P-OP2	-5.12	101.09	105.70
1	2	426	G	C8-N9-C1'	-5.12	120.34	127.00
36	1	888	A	N1-C6-N6	5.12	121.67	118.60
1	6	1023	A	C5-C6-N6	-5.12	119.60	123.70
36	5	2152	A	N1-C6-N6	5.12	121.67	118.60
36	5	2273	G	C4-N9-C1'	-5.12	119.84	126.50
36	1	1122	U	C5-C4-O4	5.12	128.97	125.90
36	1	1633	C	C2-N1-C1'	5.12	124.43	118.80
1	6	101	U	N1-C2-O2	5.12	126.38	122.80
1	6	1514	U	N3-C4-O4	-5.12	115.82	119.40
36	5	2231	C	C6-N1-C2	-5.12	118.25	120.30
36	5	3331	U	C5-C6-N1	-5.12	120.14	122.70
36	5	1367	G	C4-C5-C6	5.12	121.87	118.80
36	1	24	G	N7-C8-N9	-5.12	110.54	113.10
36	1	898	U	N1-C2-O2	5.12	126.38	122.80
36	1	2696	A	OP2-P-O3'	5.12	116.45	105.20
1	6	1	U	N1-C2-O2	5.12	126.38	122.80
1	6	815	G	C5-N7-C8	-5.12	101.74	104.30
36	5	1359	C	N3-C4-N4	5.12	121.58	118.00
36	5	1846	C	C4-C5-C6	5.12	119.96	117.40
1	6	1631	A	N1-C6-N6	-5.11	115.53	118.60
36	5	809	G	C8-N9-C4	5.11	108.44	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1207	G	O5'-P-OP1	-5.11	101.10	105.70
36	5	1213	G	C4-C5-N7	-5.11	108.75	110.80
68	o2	4	LEU	C-N-CA	-5.11	100.53	122.00
27	D5	75	LEU	CB-CG-CD1	-5.11	102.31	111.00
36	1	1659	U	N1-C2-O2	-5.11	119.22	122.80
36	5	1115	G	C4-N9-C1'	5.11	133.15	126.50
36	5	2937	G	C8-N9-C4	5.11	108.44	106.40
1	2	397	A	N1-C6-N6	-5.11	115.53	118.60
44	L7	107	ARG	NE-CZ-NH1	-5.11	117.75	120.30
13	c1	5	LEU	CA-CB-CG	5.11	127.05	115.30
36	5	2199	G	C4-N9-C1'	5.11	133.14	126.50
36	5	2817	A	C6-N1-C2	-5.11	115.53	118.60
36	5	2952	G	C5-C6-N1	5.11	114.06	111.50
36	1	426	G	N3-C4-N9	5.11	129.06	126.00
1	6	1614	A	C4-C5-N7	5.11	113.25	110.70
36	5	349	A	C6-C5-N7	5.11	135.88	132.30
36	5	2968	G	N1-C6-O6	-5.11	116.83	119.90
36	1	1604	G	C8-N9-C4	-5.11	104.36	106.40
15	c3	75	LEU	CB-CG-CD2	-5.11	102.32	111.00
1	2	308	C	C5-C6-N1	-5.11	118.45	121.00
1	2	1560	U	C2-N1-C1'	5.11	123.83	117.70
36	1	388	G	N3-C2-N2	-5.11	116.33	119.90
1	6	1759	C	C6-N1-C2	5.11	122.34	120.30
36	5	1390	A	N7-C8-N9	5.11	116.35	113.80
36	5	1390	A	N1-C6-N6	-5.11	115.54	118.60
36	5	94	G	C2-N3-C4	-5.10	109.35	111.90
36	5	2620	G	C4-N9-C1'	-5.10	119.86	126.50
1	2	728	U	C6-N1-C1'	-5.10	114.06	121.20
36	1	776	U	N1-C2-O2	-5.10	119.23	122.80
36	1	810	A	C5-C6-N1	5.10	120.25	117.70
36	1	890	C	N3-C4-N4	-5.10	114.43	118.00
1	6	826	U	C5-C6-N1	5.10	125.25	122.70
1	6	934	C	C2-N1-C1'	5.10	124.41	118.80
1	6	1436	A	C8-N9-C4	-5.10	103.76	105.80
36	5	2621	G	C5-C6-O6	-5.10	125.54	128.60
36	5	3245	A	C5-C6-N6	-5.10	119.62	123.70
36	1	334	A	C5-C6-N6	-5.10	119.62	123.70
36	1	1791	C	C5-C6-N1	-5.10	118.45	121.00
36	1	2846	U	N3-C4-O4	-5.10	115.83	119.40
36	1	3079	U	C2-N1-C1'	-5.10	111.58	117.70
36	1	3268	A	C6-C5-N7	-5.10	128.73	132.30
37	7	1	G	C6-C5-N7	-5.10	127.34	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	752	C	N3-C4-C5	5.10	123.94	121.90
36	1	1204	A	C8-N9-C4	5.10	107.84	105.80
36	1	2384	A	C4-C5-C6	5.10	119.55	117.00
1	6	1656	U	O5'-P-OP1	5.10	116.82	110.70
36	5	1878	G	C8-N9-C4	-5.10	104.36	106.40
36	5	2333	C	OP2-P-O3'	5.10	116.41	105.20
36	5	1923	C	C6-N1-C2	-5.10	118.26	120.30
36	5	2804	A	C2-N3-C4	-5.10	108.05	110.60
38	8	12	A	C4-C5-N7	5.10	113.25	110.70
36	1	585	A	O5'-P-OP2	-5.09	101.11	105.70
36	1	2925	C	O5'-P-OP2	5.09	116.81	110.70
36	1	2935	U	OP2-P-O3'	5.09	116.41	105.20
36	5	407	A	N9-C4-C5	-5.09	103.76	105.80
36	5	2271	A	C4-C5-C6	-5.09	114.45	117.00
36	5	3122	A	OP2-P-O3'	5.09	116.41	105.20
38	8	125	U	C2-N1-C1'	5.09	123.81	117.70
27	D5	95	HIS	N-CA-C	5.09	124.75	111.00
36	5	1303	A	C5-C6-N6	-5.09	119.63	123.70
36	1	954	U	N3-C2-O2	5.09	125.76	122.20
36	1	1658	G	C4-C5-N7	-5.09	108.76	110.80
1	6	136	C	C6-N1-C1'	-5.09	114.69	120.80
36	5	946	U	N1-C2-N3	5.09	117.95	114.90
36	5	1117	G	O5'-P-OP1	-5.09	101.12	105.70
36	5	1927	G	C5-C6-O6	-5.09	125.55	128.60
36	5	2400	G	C8-N9-C4	5.09	108.44	106.40
36	1	1366	A	N1-C6-N6	5.09	121.65	118.60
36	1	2117	A	N9-C4-C5	5.09	107.84	105.80
36	1	2318	U	N3-C4-C5	5.09	117.65	114.60
36	5	315	C	N3-C4-C5	5.09	123.94	121.90
36	5	1938	U	C5-C6-N1	-5.09	120.16	122.70
36	5	2112	U	P-O3'-C3'	5.09	125.81	119.70
36	5	2283	G	C8-N9-C4	5.09	108.44	106.40
36	5	2869	U	O5'-P-OP1	-5.09	101.12	105.70
1	2	1745	G	C8-N9-C1'	-5.09	120.39	127.00
36	1	2705	A	C2-N3-C4	5.09	113.14	110.60
1	6	66	U	P-O3'-C3'	5.09	125.81	119.70
1	6	371	G	C6-C5-N7	-5.09	127.35	130.40
36	5	2978	U	C5-C4-O4	5.09	128.95	125.90
1	2	136	C	C6-N1-C2	-5.09	118.27	120.30
1	2	610	G	C8-N9-C1'	-5.09	120.39	127.00
36	1	1537	A	C5-C6-N6	-5.09	119.63	123.70
36	1	1929	G	N3-C2-N2	5.09	123.46	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2417	U	N1-C2-N3	5.09	117.95	114.90
36	1	2623	G	N1-C6-O6	5.09	122.95	119.90
36	1	3079	U	C6-N1-C1'	5.09	128.32	121.20
38	4	17	A	N1-C6-N6	5.09	121.65	118.60
38	4	107	G	C6-C5-N7	5.09	133.45	130.40
1	6	452	A	N1-C6-N6	5.09	121.65	118.60
1	2	1773	C	N1-C2-O2	-5.08	115.85	118.90
36	1	1779	C	OP1-P-OP2	5.08	127.23	119.60
36	1	1911	A	C5-C6-N6	-5.08	119.63	123.70
36	1	2859	U	C5-C6-N1	-5.08	120.16	122.70
1	6	626	U	C6-N1-C2	5.08	124.05	121.00
1	2	404	G	C4-C5-N7	5.08	112.83	110.80
36	1	1124	U	C5-C6-N1	5.08	125.24	122.70
1	6	558	U	P-O3'-C3'	5.08	125.80	119.70
1	6	1615	C	N1-C1'-C2'	-5.08	106.41	112.00
1	6	1736	G	O5'-P-OP1	-5.08	101.12	105.70
36	1	900	G	N7-C8-N9	-5.08	110.56	113.10
36	1	2679	A	C5-C6-N1	-5.08	115.16	117.70
1	6	1747	G	O5'-P-OP2	-5.08	101.13	105.70
36	5	2514	U	C6-N1-C2	-5.08	117.95	121.00
36	5	75	G	C5-C6-O6	-5.08	125.55	128.60
36	5	2940	A	C6-C5-N7	-5.08	128.74	132.30
36	1	293	C	N3-C4-N4	5.08	121.56	118.00
36	1	967	A	N1-C2-N3	5.08	131.84	129.30
36	1	2640	A	C6-N1-C2	-5.08	115.55	118.60
1	6	359	A	C4-C5-C6	-5.08	114.46	117.00
36	5	79	U	C5-C4-O4	-5.08	122.85	125.90
41	14	206	LEU	CA-CB-CG	5.08	126.98	115.30
1	2	1376	C	C6-N1-C2	5.08	122.33	120.30
36	1	86	G	N3-C4-N9	-5.08	122.95	126.00
36	1	88	A	N1-C6-N6	5.08	121.64	118.60
36	1	325	A	C6-N1-C2	-5.08	115.56	118.60
36	1	1117	G	C5-C6-O6	-5.08	125.56	128.60
36	1	2631	U	C2-N3-C4	-5.08	123.95	127.00
1	6	18	C	N3-C4-C5	-5.08	119.87	121.90
36	5	1429	G	C4-C5-N7	5.08	112.83	110.80
36	5	1788	C	N3-C4-C5	-5.08	119.87	121.90
36	5	1789	G	N3-C4-C5	5.08	131.14	128.60
36	5	2758	A	N9-C4-C5	5.08	107.83	105.80
52	m6	16	VAL	CG1-CB-CG2	-5.08	102.78	110.90
36	1	417	A	C2-N3-C4	-5.07	108.06	110.60
36	1	965	A	N1-C6-N6	5.07	121.64	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1611	G	C5-C6-N1	-5.07	108.96	111.50
36	1	2610	G	O5'-P-OP1	5.07	116.79	110.70
38	4	48	A	C2-N3-C4	5.07	113.14	110.60
36	1	282	G	N1-C6-O6	-5.07	116.86	119.90
36	1	946	U	N1-C2-N3	5.07	117.94	114.90
36	1	1589	A	O4'-C1'-N9	-5.07	104.14	108.20
36	1	2394	G	C4-C5-N7	-5.07	108.77	110.80
1	6	1198	G	C4-C5-N7	-5.07	108.77	110.80
25	d3	45	GLY	N-CA-C	-5.07	100.42	113.10
36	1	105	C	C2-N1-C1'	5.07	124.38	118.80
36	1	371	G	N9-C4-C5	-5.07	103.37	105.40
36	1	2391	G	OP1-P-O3'	5.07	116.35	105.20
36	5	904	A	C5-C6-N6	-5.07	119.64	123.70
36	5	2388	U	OP2-P-O3'	5.07	116.36	105.20
36	5	2850	G	C5-C6-N1	5.07	114.04	111.50
37	7	102	A	C8-N9-C4	5.07	107.83	105.80
54	m8	99	THR	N-CA-C	5.07	124.69	111.00
1	2	1168	U	C2-N1-C1'	5.07	123.78	117.70
36	1	652	G	C5-C6-O6	5.07	131.64	128.60
36	1	827	A	C8-N9-C4	5.07	107.83	105.80
1	6	472	U	N3-C2-O2	-5.07	118.65	122.20
1	2	275	C	C5-C6-N1	5.07	123.53	121.00
1	2	406	U	C6-N1-C2	5.07	124.04	121.00
24	D2	104	LEU	CA-CB-CG	5.07	126.96	115.30
38	4	140	G	N9-C4-C5	5.07	107.43	105.40
1	6	1	U	N3-C2-O2	-5.07	118.65	122.20
1	6	176	C	C2-N1-C1'	5.07	124.37	118.80
1	6	1396	U	C2-N1-C1'	5.07	123.78	117.70
36	5	906	A	C6-N1-C2	-5.07	115.56	118.60
36	1	3344	A	C4-C5-N7	5.07	113.23	110.70
70	O4	58	ARG	NE-CZ-NH1	5.07	122.83	120.30
1	6	687	G	N3-C2-N2	-5.07	116.35	119.90
36	5	282	G	C5-C6-O6	5.07	131.64	128.60
36	5	2894	C	C6-N1-C2	5.07	122.33	120.30
36	1	1183	C	C6-N1-C2	5.06	122.33	120.30
36	1	2121	G	C5-C6-N1	5.06	114.03	111.50
36	5	1101	G	N1-C6-O6	-5.06	116.86	119.90
36	5	3143	C	N3-C2-O2	5.06	125.44	121.90
36	1	3368	U	C5-C4-O4	5.06	128.94	125.90
1	6	1075	C	N1-C2-O2	-5.06	115.86	118.90
36	5	1152	G	N7-C8-N9	5.06	115.63	113.10
37	7	98	C	N3-C4-C5	5.06	123.92	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	12	A	N1-C2-N3	-5.06	126.77	129.30
36	1	922	U	C2-N1-C1'	5.06	123.77	117.70
36	1	1144	U	C2-N3-C4	-5.06	123.96	127.00
1	6	1735	U	C6-N1-C2	5.06	124.04	121.00
36	5	527	A	C5-C6-N1	5.06	120.23	117.70
36	5	3105	U	O5'-P-OP1	-5.06	101.14	105.70
1	2	1169	G	N3-C4-C5	-5.06	126.07	128.60
1	2	1611	A	C2-N3-C4	-5.06	108.07	110.60
36	1	2305	G	N1-C6-O6	5.06	122.94	119.90
36	5	2904	U	C5-C6-N1	-5.06	120.17	122.70
1	2	74	U	O4'-C1'-N1	5.06	112.25	108.20
36	1	961	C	C5-C6-N1	-5.06	118.47	121.00
36	1	2810	C	C5-C6-N1	-5.06	118.47	121.00
36	5	75	G	C4-N9-C1'	5.06	133.08	126.50
36	5	990	U	N3-C2-O2	-5.06	118.66	122.20
36	5	2940	A	N1-C2-N3	5.06	131.83	129.30
1	2	571	G	C5-N7-C8	5.06	106.83	104.30
36	1	2249	G	N9-C4-C5	-5.06	103.38	105.40
1	6	813	U	N3-C2-O2	-5.06	118.66	122.20
36	5	2327	U	C6-N1-C2	5.06	124.03	121.00
1	2	1124	A	O5'-P-OP1	-5.05	101.15	105.70
36	1	662	U	N3-C2-O2	-5.05	118.66	122.20
36	1	1203	A	N3-C4-C5	5.05	130.34	126.80
36	1	2986	U	N1-C2-N3	5.05	117.93	114.90
36	5	2862	U	C5-C6-N1	-5.05	120.17	122.70
1	2	1100	G	C6-C5-N7	-5.05	127.37	130.40
36	1	281	G	C4-C5-N7	5.05	112.82	110.80
36	1	1179	A	C2-N3-C4	-5.05	108.07	110.60
1	6	1600	A	C6-C5-N7	-5.05	128.76	132.30
36	5	3217	C	C6-N1-C1'	5.05	126.86	120.80
36	1	3066	U	C5-C6-N1	-5.05	120.17	122.70
36	5	221	A	C2-N3-C4	-5.05	108.07	110.60
36	5	2774	C	C6-N1-C2	-5.05	118.28	120.30
36	5	2990	G	C5-C6-O6	-5.05	125.57	128.60
36	1	2328	U	C5-C6-N1	-5.05	120.17	122.70
36	1	2688	U	N1-C2-N3	-5.05	111.87	114.90
1	6	377	G	N1-C2-N2	-5.05	111.66	116.20
1	6	437	A	C8-N9-C4	5.05	107.82	105.80
36	5	2395	G	C4-C5-N7	5.05	112.82	110.80
1	2	474	A	C8-N9-C4	5.05	107.82	105.80
1	2	647	G	N3-C4-C5	5.05	131.12	128.60
1	2	1145	U	N1-C2-O2	-5.05	119.27	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	899	U	N3-C2-O2	-5.05	118.67	122.20
36	1	1373	A	C5-C6-N1	5.05	120.22	117.70
36	1	1578	C	C2-N1-C1'	5.05	124.35	118.80
36	1	2273	G	N9-C4-C5	-5.05	103.38	105.40
36	1	2638	C	N1-C2-O2	5.05	121.93	118.90
1	6	65	A	N9-C4-C5	-5.05	103.78	105.80
1	6	558	U	N1-C2-O2	5.05	126.33	122.80
1	6	1752	U	C5-C6-N1	-5.05	120.18	122.70
36	5	530	G	O5'-P-OP2	-5.05	101.16	105.70
36	5	2287	C	N1-C2-O2	-5.05	115.87	118.90
36	5	3175	U	O5'-P-OP2	-5.05	101.16	105.70
36	1	1366	A	C4-C5-N7	5.04	113.22	110.70
51	M5	68	ARG	NE-CZ-NH1	5.04	122.82	120.30
36	1	701	G	C5-C6-O6	-5.04	125.57	128.60
36	1	1294	A	O4'-C1'-N9	5.04	112.23	108.20
36	1	2316	G	N3-C4-N9	5.04	129.03	126.00
36	1	2571	U	C2-N1-C1'	5.04	123.75	117.70
36	5	328	U	N3-C4-O4	-5.04	115.87	119.40
36	5	1236	G	N1-C6-O6	5.04	122.93	119.90
36	5	1347	U	N1-C2-O2	-5.04	119.27	122.80
36	5	1662	G	C5-C6-O6	-5.04	125.57	128.60
36	5	1850	A	C2-N3-C4	-5.04	108.08	110.60
36	5	2320	A	N1-C6-N6	-5.04	115.57	118.60
1	2	1673	G	C6-C5-N7	-5.04	127.38	130.40
36	1	2869	U	O5'-P-OP2	5.04	116.75	110.70
36	1	3049	A	N9-C4-C5	-5.04	103.78	105.80
1	6	103	A	C5-N7-C8	-5.04	101.38	103.90
1	6	557	G	C4-N9-C1'	5.04	133.05	126.50
1	6	911	U	N3-C2-O2	-5.04	118.67	122.20
1	6	1361	U	C6-N1-C1'	-5.04	114.14	121.20
36	5	3217	C	N3-C4-N4	-5.04	114.47	118.00
36	5	1143	A	N1-C2-N3	5.04	131.82	129.30
36	5	2940	A	C4-C5-C6	5.04	119.52	117.00
36	1	749	C	O5'-P-OP2	-5.04	101.17	105.70
36	1	1699	A	N9-C4-C5	-5.04	103.78	105.80
36	1	1902	G	N9-C4-C5	-5.04	103.38	105.40
36	1	2631	U	C5-C6-N1	-5.04	120.18	122.70
1	6	1082	C	C6-N1-C2	-5.04	118.28	120.30
36	5	364	G	O5'-P-OP2	5.04	116.75	110.70
36	5	1191	U	N1-C2-O2	-5.04	119.27	122.80
36	1	1412	G	C5-N7-C8	-5.04	101.78	104.30
36	5	1371	G	N3-C4-C5	-5.04	126.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3221	C	C6-N1-C2	-5.04	118.28	120.30
36	1	398	A	C2-N3-C4	5.04	113.12	110.60
36	1	1318	A	N7-C8-N9	5.04	116.32	113.80
36	1	1549	U	C5-C4-O4	-5.04	122.88	125.90
37	3	114	U	N3-C4-O4	-5.04	115.88	119.40
36	5	1922	A	C2-N3-C4	-5.04	108.08	110.60
36	1	1660	C	N1-C2-O2	-5.03	115.88	118.90
47	M0	167	LEU	CA-CB-CG	5.03	126.88	115.30
36	5	2185	G	C5-C6-N1	-5.03	108.98	111.50
36	5	2938	G	C5-C6-N1	5.03	114.02	111.50
36	5	3145	C	C6-N1-C2	5.03	122.31	120.30
36	5	37	U	C5-C4-O4	5.03	128.92	125.90
36	5	960	U	OP2-P-O3'	5.03	116.27	105.20
36	5	1724	U	C2-N1-C1'	-5.03	111.66	117.70
36	5	2943	G	C5-N7-C8	-5.03	101.78	104.30
1	2	1135	U	N1-C2-N3	-5.03	111.88	114.90
36	1	432	G	C4-C5-C6	5.03	121.82	118.80
36	1	1509	A	C8-N9-C4	5.03	107.81	105.80
36	5	105	C	C6-N1-C2	5.03	122.31	120.30
36	5	881	C	N1-C2-O2	5.03	121.92	118.90
36	5	1504	A	C2-N3-C4	-5.03	108.08	110.60
36	5	2353	G	C4-C5-N7	5.03	112.81	110.80
36	5	3309	G	N3-C4-N9	5.03	129.02	126.00
36	1	878	G	C2-N3-C4	-5.03	109.39	111.90
36	1	3325	G	N1-C6-O6	-5.03	116.88	119.90
36	5	1103	A	OP2-P-O3'	5.03	116.26	105.20
36	1	273	A	C4-C5-N7	-5.03	108.19	110.70
36	1	594	U	C5-C4-O4	5.03	128.92	125.90
36	1	1389	G	C4-N9-C1'	5.03	133.03	126.50
36	1	2130	G	N3-C4-C5	-5.03	126.09	128.60
36	5	2984	C	C2-N3-C4	-5.03	117.39	119.90
1	6	1503	A	N7-C8-N9	5.03	116.31	113.80
36	5	1060	U	N3-C4-C5	5.03	117.61	114.60
1	2	1503	A	C5-N7-C8	-5.02	101.39	103.90
1	2	1600	A	N9-C4-C5	-5.02	103.79	105.80
36	1	1371	G	C8-N9-C4	5.02	108.41	106.40
36	5	2175	U	C5-C6-N1	-5.02	120.19	122.70
36	1	282	G	P-O3'-C3'	5.02	125.73	119.70
36	1	1180	A	C4-C5-N7	-5.02	108.19	110.70
36	1	1373	A	O5'-P-OP2	-5.02	101.18	105.70
36	1	2200	U	N3-C4-O4	5.02	122.92	119.40
36	1	2303	A	N1-C2-N3	5.02	131.81	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2604	U	C5-C6-N1	-5.02	120.19	122.70
36	1	3057	U	N3-C4-O4	-5.02	115.88	119.40
37	3	67	G	N3-C4-C5	5.02	131.11	128.60
36	5	647	A	N1-C2-N3	5.02	131.81	129.30
36	5	1200	A	C5-C6-N6	-5.02	119.68	123.70
48	M1	112	LEU	CA-CB-CG	5.02	126.85	115.30
36	5	1628	C	C6-N1-C2	-5.02	118.29	120.30
1	2	1431	C	C6-N1-C2	5.02	122.31	120.30
36	1	2323	G	N3-C2-N2	5.02	123.41	119.90
36	1	2364	G	C4-C5-N7	-5.02	108.79	110.80
36	1	2373	A	C8-N9-C4	-5.02	103.79	105.80
36	1	2745	G	C8-N9-C4	5.02	108.41	106.40
39	L2	122	ASP	CB-CG-OD2	5.02	122.82	118.30
1	6	797	G	N3-C4-C5	5.02	131.11	128.60
1	6	1433	G	C5-C6-O6	5.02	131.61	128.60
1	6	1780	G	N3-C2-N2	5.02	123.41	119.90
36	5	313	A	C6-C5-N7	-5.02	128.79	132.30
36	5	2393	G	C5-C6-N1	5.02	114.01	111.50
37	7	97	A	C6-N1-C2	-5.02	115.59	118.60
38	8	140	G	N7-C8-N9	5.02	115.61	113.10
36	1	718	G	N3-C4-C5	5.02	131.11	128.60
36	1	994	G	N3-C4-N9	5.02	129.01	126.00
36	1	1158	A	C4-C5-C6	5.02	119.51	117.00
36	1	1510	G	C6-C5-N7	-5.02	127.39	130.40
36	1	3298	C	C6-N1-C2	5.02	122.31	120.30
1	6	797	G	C8-N9-C4	5.02	108.41	106.40
36	5	74	G	N7-C8-N9	5.02	115.61	113.10
36	5	1659	U	C5-C6-N1	5.02	125.21	122.70
36	5	2320	A	O5'-P-OP2	-5.02	101.19	105.70
36	5	2531	C	N3-C2-O2	-5.02	118.39	121.90
36	5	2866	U	N3-C2-O2	-5.02	118.69	122.20
36	5	2867	C	C6-N1-C2	5.02	122.31	120.30
36	5	2916	U	C4-C5-C6	5.02	122.71	119.70
36	5	3215	A	N1-C6-N6	5.02	121.61	118.60
37	7	29	C	C5-C6-N1	-5.02	118.49	121.00
5	S3	202	LEU	CA-CB-CG	5.02	126.84	115.30
37	3	15	C	C6-N1-C2	5.02	122.31	120.30
36	5	2811	A	N1-C6-N6	-5.02	115.59	118.60
36	5	3200	G	C5-C6-O6	-5.02	125.59	128.60
36	1	104	G	C4-C5-N7	5.01	112.81	110.80
36	1	957	C	N3-C2-O2	5.01	125.41	121.90
36	1	1346	G	N1-C6-O6	5.01	122.91	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2242	A	OP2-P-O3'	5.01	116.23	105.20
36	1	2732	G	C2-N3-C4	-5.01	109.39	111.90
36	1	3050	U	N3-C2-O2	-5.01	118.69	122.20
36	1	3361	G	N1-C2-N2	-5.01	111.69	116.20
1	6	1146	G	C5-C6-O6	-5.01	125.59	128.60
1	6	1463	C	C6-N1-C2	5.01	122.31	120.30
36	5	276	U	N1-C2-O2	-5.01	119.29	122.80
36	5	1321	G	C6-C5-N7	-5.01	127.39	130.40
36	5	1446	A	C8-N9-C4	5.01	107.81	105.80
37	7	103	A	C4-C5-N7	5.01	113.21	110.70
36	1	590	G	N9-C4-C5	-5.01	103.39	105.40
36	1	2643	A	C2-N3-C4	-5.01	108.09	110.60
36	5	2817	A	N3-C4-C5	-5.01	123.29	126.80
36	1	3244	A	N1-C6-N6	5.01	121.61	118.60
1	6	985	G	C2-N3-C4	-5.01	109.39	111.90
36	5	934	G	N1-C2-N3	-5.01	120.89	123.90
1	2	687	G	C8-N9-C4	-5.01	104.40	106.40
1	2	1241	G	O4'-C1'-N9	5.01	112.21	108.20
36	1	1306	G	N1-C2-N3	5.01	126.91	123.90
56	N0	115	ARG	NE-CZ-NH2	-5.01	117.80	120.30
1	6	308	C	N3-C2-O2	-5.01	118.39	121.90
36	5	1546	A	C5-C6-N6	-5.01	119.69	123.70
36	1	2133	U	C2-N1-C1'	-5.01	111.69	117.70
1	2	75	U	C2-N1-C1'	5.01	123.71	117.70
1	2	453	U	C6-N1-C2	-5.01	118.00	121.00
36	1	1393	A	C6-N1-C2	-5.01	115.60	118.60
36	1	2285	C	C5-C6-N1	-5.01	118.50	121.00
36	1	2403	G	C6-C5-N7	-5.01	127.40	130.40
1	6	1700	C	N3-C2-O2	-5.00	118.40	121.90
36	5	2116	G	N3-C4-N9	5.00	129.00	126.00
36	5	2620	G	C5-C6-O6	5.00	131.60	128.60
36	5	3314	A	N1-C6-N6	5.00	121.60	118.60
36	1	93	C	C6-N1-C2	-5.00	118.30	120.30
1	6	1657	U	C2-N1-C1'	5.00	123.70	117.70
36	5	749	C	N3-C4-C5	-5.00	119.90	121.90
36	5	1701	C	N3-C2-O2	-5.00	118.40	121.90
37	7	92	A	C4-C5-N7	5.00	113.20	110.70
37	7	109	G	C5-C6-O6	-5.00	125.60	128.60

There are no chirality outliers.

All (52) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
13	C1	127	GLN	Peptide
16	C4	124	ASP	Peptide
18	C6	40	GLU	Peptide
19	C7	22	PRO	Peptide
19	C7	85	VAL	Peptide
25	D3	78	LYS	Peptide
27	D5	54	VAL	Peptide
27	D5	94	LYS	Peptide
27	D5	96	SER	Peptide
33	E1	137	ASP	Peptide
39	L2	19	HIS	Peptide
45	L8	124	ASP	Peptide
45	L8	74	THR	Peptide
48	M1	64	LYS	Peptide
48	M1	8	PRO	Peptide
52	M6	110	PRO	Peptide
56	N0	12	ARG	Peptide
56	N0	22	PRO	Peptide
57	N1	16	GLN	Peptide
65	N9	20	GLY	Peptide
9	S7	131	PHE	Peptide
15	c3	17	PRO	Peptide
17	c5	52	LYS	Peptide
18	c6	40	GLU	Peptide
19	c7	87	GLU	Peptide
19	c7	88	VAL	Peptide
19	c7	96	SER	Peptide
22	d0	70	THR	Peptide
26	d4	29	HIS	Peptide
26	d4	49	LYS	Peptide
27	d5	85	LYS	Peptide
82	e1	146	SER	Peptide
39	l2	171	GLY	Peptide
39	l2	237	LEU	Peptide
42	l5	270	LYS	Peptide
42	l5	271	LYS	Peptide
43	l6	51	ARG	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
51	m5	66	VAL	Peptide
52	m6	110	PRO	Peptide
56	n0	133	ALA	Peptide
60	n4	78	ALA	Peptide

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Mol	Chain	Res	Type	Group
63	n7	5	LEU	Peptide
64	n8	18	GLY	Peptide
64	n8	66	ALA	Peptide
65	n9	22	LYS	Peptide
3	s1	134	VAL	Peptide
7	s5	44	ASN	Peptide
7	s5	99	MET	Peptide
9	s7	29	ASN	Peptide
10	s8	60	ILE	Peptide

5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37283	0	18758	895	0
1	6	38238	0	19240	845	0
2	S0	1577	0	1567	166	0
2	s0	1583	0	1578	0	0
3	S1	1709	0	1784	187	0
3	s1	1722	0	1793	0	0
4	S2	1635	0	1723	119	0
4	s2	1635	0	1723	0	0
5	S3	1734	0	1817	110	0
5	s3	1734	0	1817	0	0
6	S4	2068	0	2154	184	0
6	s4	2068	0	2154	0	0
7	S5	1609	0	1675	153	0
7	s5	1609	0	1675	0	0
8	S6	1799	0	1879	138	0
8	s6	1755	0	1846	0	0
9	S7	1481	0	1572	126	0
9	s7	1491	0	1578	0	0
10	S8	1489	0	1525	131	0
10	s8	1489	0	1525	0	0
11	S9	1494	0	1573	148	0
11	s9	1494	0	1573	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	C0	773	0	729	74	0
13	C1	1214	0	1259	101	0
13	c1	1168	0	1231	0	0
14	C2	892	0	891	65	0
14	c2	892	0	891	0	0
15	C3	1192	0	1255	95	0
15	c3	1192	0	1255	0	0
16	C4	891	0	883	94	0
16	c4	949	0	985	0	0
17	C5	977	0	1002	89	0
17	c5	1039	0	1050	0	0
18	C6	1105	0	1166	117	0
18	c6	1111	0	1171	0	0
19	C7	926	0	930	94	0
19	c7	906	0	909	0	0
20	C8	1192	0	1222	109	0
20	c8	1192	0	1222	0	0
21	C9	1112	0	1124	96	0
21	c9	1112	0	1124	0	0
22	D0	855	0	917	88	0
22	d0	882	0	939	0	0
23	D1	684	0	672	78	0
23	d1	684	0	672	0	0
24	D2	1021	0	1060	88	0
24	d2	1021	0	1060	0	0
25	D3	1121	0	1196	86	0
25	d3	1121	0	1196	0	0
26	D4	1073	0	1132	94	0
26	d4	1073	0	1132	0	0
27	D5	563	0	603	70	0
27	d5	558	0	598	0	0
28	D6	769	0	814	99	0
28	d6	769	0	815	0	0
29	D7	610	0	630	51	0
29	d7	610	0	631	0	0
30	D8	497	0	535	47	0
30	d8	497	0	535	0	0
31	D9	442	0	428	32	0
31	d9	442	0	428	0	0
32	E0	475	0	525	37	0
33	E1	566	0	602	58	0
34	SR	2441	0	2397	183	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
34	sR	2442	0	2392	0	0
35	SM	1104	0	996	74	0
35	sM	680	0	607	0	0
36	1	67355	0	33846	1234	0
36	5	67376	0	33861	1200	0
37	3	2579	0	1304	46	0
37	7	2579	0	1304	51	0
38	4	3353	0	1695	60	0
38	8	3353	0	1695	72	0
39	L2	1914	0	1981	157	0
39	l2	1912	0	1976	0	0
40	L3	3075	0	3142	260	0
40	l3	3075	0	3142	0	0
41	L4	2748	0	2859	204	0
41	l4	2748	0	2859	0	0
42	L5	2375	0	2325	182	0
42	l5	2359	0	2311	0	0
43	L6	1239	0	1326	86	0
43	l6	1248	0	1339	0	0
44	L7	1784	0	1862	131	0
44	l7	1791	0	1869	0	0
45	L8	1804	0	1877	126	0
45	l8	1763	0	1819	0	0
46	L9	1518	0	1587	131	0
46	l9	1518	0	1587	0	0
47	M0	1705	0	1736	158	0
47	m0	1722	0	1755	0	0
48	M1	1353	0	1383	103	0
48	m1	1353	0	1383	0	0
49	M3	1543	0	1608	134	0
49	m3	1548	0	1613	0	0
50	M4	1053	0	1149	89	0
50	m4	1059	0	1154	0	0
51	M5	1720	0	1779	125	0
51	m5	1720	0	1779	0	0
52	M6	1555	0	1659	103	0
52	m6	1555	0	1659	0	0
53	M7	1420	0	1437	100	0
53	m7	1227	0	1236	0	0
54	M8	1441	0	1543	102	0
54	m8	1441	0	1543	0	0
55	M9	1521	0	1616	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	m9	1521	0	1617	0	0
56	N0	1445	0	1487	107	0
56	n0	1445	0	1487	0	0
57	N1	1276	0	1323	105	0
57	n1	1276	0	1323	0	0
58	N2	796	0	812	51	0
58	n2	778	0	791	0	0
59	N3	1003	0	1048	70	0
59	n3	1003	0	1048	0	0
60	N4	699	0	640	25	0
60	n4	1038	0	1071	0	0
61	N5	964	0	1025	60	0
61	n5	959	0	1023	0	0
62	N6	993	0	1081	80	0
62	n6	993	0	1081	0	0
63	N7	1092	0	1155	103	0
63	n7	1092	0	1155	0	0
64	N8	1173	0	1215	94	0
64	n8	1173	0	1215	0	0
65	N9	462	0	491	31	0
65	n9	462	0	491	0	0
66	O0	743	0	797	61	0
66	o0	767	0	816	0	0
67	O1	876	0	912	57	0
67	o1	883	0	918	0	0
68	O2	1020	0	1090	88	0
68	o2	1020	0	1090	0	0
69	O3	850	0	880	47	0
69	o3	850	0	880	0	0
70	O4	880	0	945	69	0
70	o4	880	0	945	0	0
71	O5	969	0	1078	81	0
71	o5	965	0	1067	0	0
72	O6	771	0	849	66	0
72	o6	770	0	846	0	0
73	O7	681	0	683	47	0
73	o7	681	0	683	0	0
74	O8	612	0	682	49	0
74	o8	608	0	671	0	0
75	O9	436	0	475	32	0
75	o9	436	0	475	0	0
76	Q0	417	0	455	22	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
76	q0	417	0	456	0	0
77	Q1	233	0	284	26	0
77	q1	233	0	284	0	0
78	Q2	847	0	915	56	0
78	q2	847	0	915	0	0
79	Q3	694	0	734	57	0
79	q3	694	0	734	0	0
80	c0	762	0	699	0	0
81	e0	491	0	542	0	0
82	e1	608	0	654	0	0
83	m2	750	0	178	0	0
84	p0	1077	0	1041	0	0
85	p1	235	0	50	0	0
86	p2	230	0	52	0	0
87	1	477	0	0	0	0
87	2	124	0	0	0	0
87	3	14	0	0	0	0
87	4	19	0	0	0	0
87	5	502	0	0	0	0
87	6	144	0	0	0	0
87	7	15	0	0	0	0
87	8	16	0	0	0	0
87	D3	1	0	0	0	0
87	L2	1	0	0	0	0
87	L3	3	0	0	0	0
87	L4	1	0	0	0	0
87	L5	1	0	0	0	0
87	L7	4	0	0	0	0
87	L8	1	0	0	0	0
87	M0	2	0	0	0	0
87	M1	1	0	0	0	0
87	M3	2	0	0	0	0
87	M5	2	0	0	0	0
87	M6	1	0	0	0	0
87	M7	4	0	0	0	0
87	M9	1	0	0	0	0
87	N0	1	0	0	0	0
87	N3	3	0	0	0	0
87	N5	1	0	0	0	0
87	N8	5	0	0	0	0
87	O2	1	0	0	0	0
87	O4	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	O5	1	0	0	0	0
87	O7	1	0	0	0	0
87	S4	2	0	0	0	0
87	S8	1	0	0	0	0
87	SM	1	0	0	0	0
87	c1	1	0	0	0	0
87	c7	2	0	0	0	0
87	c8	1	0	0	0	0
87	c9	1	0	0	0	0
87	d3	1	0	0	0	0
87	d4	1	0	0	0	0
87	d6	1	0	0	0	0
87	l2	1	0	0	0	0
87	l3	3	0	0	0	0
87	l4	2	0	0	0	0
87	l5	2	0	0	0	0
87	l7	1	0	0	0	0
87	m1	2	0	0	0	0
87	m5	5	0	0	0	0
87	m6	2	0	0	0	0
87	m7	5	0	0	0	0
87	n0	3	0	0	0	0
87	n3	2	0	0	0	0
87	n6	2	0	0	0	0
87	n8	3	0	0	0	0
87	o1	1	0	0	0	0
87	o3	1	0	0	0	0
87	o4	1	0	0	0	0
87	q0	1	0	0	0	0
87	q1	1	0	0	0	0
87	q3	2	0	0	0	0
87	s1	1	0	0	0	0
87	s6	1	0	0	0	0
87	s8	3	0	0	0	0
87	sM	1	0	0	0	0
88	1	2478	0	0	145	0
88	2	1106	0	0	73	0
88	3	77	0	0	1	0
88	4	98	0	0	6	0
88	5	2506	0	0	157	0
88	6	1113	0	0	73	0
88	7	84	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
88	8	98	0	0	11	0
88	C3	7	0	0	1	0
88	C5	7	0	0	5	0
88	C8	7	0	0	0	0
88	D3	7	0	0	0	0
88	D9	7	0	0	0	0
88	L3	21	0	0	2	0
88	L4	7	0	0	3	0
88	M0	7	0	0	0	0
88	M5	7	0	0	1	0
88	M7	14	0	0	1	0
88	M8	7	0	0	0	0
88	M9	7	0	0	0	0
88	N9	7	0	0	0	0
88	O3	7	0	0	0	0
88	O7	14	0	0	2	0
88	S8	7	0	0	1	0
88	SR	7	0	0	0	0
88	c1	7	0	0	0	0
88	c3	7	0	0	0	0
88	c5	7	0	0	0	0
88	c8	7	0	0	0	0
88	d4	7	0	0	0	0
88	d9	7	0	0	0	0
88	l3	21	0	0	0	0
88	l4	14	0	0	0	0
88	l5	28	0	0	0	0
88	l9	7	0	0	0	0
88	m0	14	0	0	0	0
88	m1	7	0	0	0	0
88	m4	7	0	0	0	0
88	m5	7	0	0	0	0
88	m6	7	0	0	0	0
88	n3	14	0	0	0	0
88	n9	7	0	0	0	0
88	o3	7	0	0	0	0
88	o7	7	0	0	0	0
88	q2	7	0	0	0	0
88	s1	14	0	0	0	0
88	s8	7	0	0	0	0
88	sR	7	0	0	0	0
89	D6	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
89	D7	1	0	0	0	0
89	D9	1	0	0	0	0
89	E1	1	0	0	0	0
89	O7	1	0	0	0	0
89	Q0	1	0	0	0	0
89	Q2	1	0	0	0	0
89	Q3	1	0	0	0	0
89	d6	1	0	0	0	0
89	d7	1	0	0	0	0
89	d9	1	0	0	0	0
89	e1	1	0	0	0	0
89	o7	1	0	0	0	0
89	q0	1	0	0	0	0
89	q2	1	0	0	0	0
89	q3	1	0	0	0	0
90	1	22	0	12	0	0
90	5	22	0	12	0	0
91	Q2	40	0	22	3	0
91	q2	40	0	22	0	0
All	All	411288	0	297360	10031	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 15.

All (10031) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.56	1.11
40:L3:296:THR:HG22	40:L3:298:PHE:H	2.66	1.06
1:6:1636:C:H4'	1:6:1637:C:H5'	1.34	1.05
28:D6:26:CYS:SG	28:D6:77:CYS:SG	3.43	1.01
36:5:3274:A:H3'	36:5:3275:U:H5''	1.42	1.01
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.59	0.98
71:O5:85:THR:HG22	71:O5:87:ALA:H	1.27	0.96
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.10	0.96
36:1:640:U:OP1	64:N8:21:ARG:NH2	1.97	0.96
36:5:1239:C:H42	36:5:1249:G:H1	1.12	0.95
17:C5:43:ARG:NH2	1:6:1552:U:OP2	403.84	0.95
36:5:437:G:H22	36:5:622:A:H61	1.12	0.95
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.31	0.94
6:S4:49:ARG:NH1	1:6:448:C:OP2	379.66	0.94
41:L4:317:PRO:O	41:L4:319:LYS:N	2.00	0.94
36:1:1898:G:OP2	88:1:3940:OHX:N4	2.00	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:L6:78:ARG:HG3	43:L6:78:ARG:HH11	1.32	0.93
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.00	0.93
39:L2:193:ARG:NH1	36:5:2174:G:OP2	190.71	0.93
70:O4:74:ARG:NH2	36:5:1639:C:OP2	200.69	0.93
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.02	0.93
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.02	0.92
56:N0:6:GLU:OE1	56:N0:99:ARG:NH2	2.92	0.92
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.74	0.92
36:1:1362:G:H4'	44:L7:159:GLN:O	1.70	0.92
63:N7:83:THR:HG22	63:N7:85:TYR:H	2.95	0.91
41:L4:3:ARG:HH11	41:L4:22:LEU:HD12	1.33	0.91
16:C4:29:HIS:HB2	16:C4:41:ARG:HG3	1.50	0.91
50:M4:113:THR:HG22	50:M4:116:GLU:HB2	3.72	0.91
43:L6:40:LEU:HD13	43:L6:84:VAL:HG11	2.30	0.91
36:5:1555:U:O4	36:5:1557:A:N6	2.03	0.91
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.02	0.90
64:N8:21:ARG:NH2	36:5:640:U:OP1	182.77	0.90
36:1:1951:C:H42	36:1:2095:G:H1	1.19	0.90
56:N0:90:MET:HG3	36:5:1213:G:H4'	318.47	0.90
1:2:1585:U:H3	1:2:1611:A:H2	1.19	0.90
5:S3:178:ARG:H	5:S3:178:ARG:HE	1.20	0.90
51:M5:188:ARG:NH2	36:5:31:C:OP2	121.89	0.89
36:1:2356:A:H61	36:1:2983:C:H5	1.19	0.89
1:2:868:G:OP1	15:C3:121:ARG:NH1	2.05	0.89
1:6:488:G:H21	1:6:499:U:H3	1.20	0.89
3:S1:39:GLU:HG3	3:S1:40:ASN:H	1.37	0.88
36:1:1233:G:H1	36:1:1255:C:H42	1.20	0.88
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	2.13	0.88
78:Q2:12:CYS:SG	78:Q2:17:CYS:HB3	2.79	0.88
64:N8:6:THR:HG23	64:N8:8:THR:HG23	2.21	0.88
19:C7:5:ARG:NH1	1:6:1402:G:OP2	408.81	0.87
78:Q2:41:ARG:NH1	36:5:284:A:OP2	156.94	0.87
41:L4:338:LYS:O	41:L4:340:GLY:N	2.08	0.87
42:L5:64:ILE:HD12	42:L5:109:THR:HG21	1.56	0.87
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.37	0.87
52:M6:110:PRO:O	52:M6:112:TYR:N	2.94	0.87
18:C6:58:ASP:O	18:C6:60:PHE:N	2.08	0.87
36:5:2273:G:O6	88:5:4203:OHX:N5	2.08	0.87
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.57	0.86
88:1:3985:OHX:N2	78:Q2:50:PHE:O	2.08	0.86
42:L5:269:SER:OG	42:L5:270:LYS:N	4.52	0.86
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.57	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.37	0.86
1:2:1508:U:O4	88:2:2031:OHX:N5	2.08	0.86
42:L5:111:GLN:HA	42:L5:116:ASP:HB3	3.73	0.86
17:C5:22:LEU:HA	17:C5:25:LEU:HB2	3.25	0.86
36:5:1877:U:H5''	36:5:1878:G:H5'	1.57	0.86
1:6:1588:G:H1	1:6:1608:U:H3	1.21	0.86
9:S7:117:THR:HG22	9:S7:120:ALA:H	2.59	0.86
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.57	0.85
11:S9:59:LEU:HD22	11:S9:69:ARG:HA	2.29	0.85
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.09	0.85
36:5:2836:C:H5	36:5:2852:C:H42	1.21	0.85
65:N9:50:THR:HG22	36:5:1073:U:H1'	206.07	0.85
68:O2:44:ARG:NH1	36:5:1145:G:OP1	207.55	0.85
11:S9:126:ARG:NH1	1:6:475:A:OP2	424.16	0.85
15:C3:114:ARG:HH11	15:C3:114:ARG:HG2	1.41	0.85
36:1:1427:U:OP2	64:N8:4:ARG:NH2	2.09	0.85
71:O5:78:LYS:HA	71:O5:81:ARG:HD3	1.91	0.85
71:O5:76:GLN:O	71:O5:81:ARG:NH1	2.38	0.85
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.09	0.85
40:L3:266:ARG:NH2	36:5:2392:C:O2'	209.18	0.85
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.09	0.85
63:N7:27:LYS:HB3	63:N7:42:LEU:HB2	2.54	0.85
53:M7:122:ALA:HB3	53:M7:143:PRO:HB2	2.25	0.85
54:M8:100:THR:HG22	54:M8:120:GLU:HB3	2.20	0.84
49:M3:165:SER:O	49:M3:167:PHE:N	2.11	0.84
40:L3:81:THR:HG22	40:L3:321:PHE:HA	4.96	0.84
42:L5:120:LYS:O	42:L5:248:ARG:NH2	2.30	0.84
1:6:486:G:H22	1:6:501:U:H3	1.25	0.84
48:M1:15:GLU:HB3	48:M1:130:VAL:HG23	1.56	0.84
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.11	0.84
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	2.37	0.84
36:5:2620:G:O6	88:5:4248:OHX:N4	2.09	0.84
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.10	0.84
1:6:471:A:OP2	88:6:2100:OHX:N5	2.11	0.84
36:1:709:A:OP1	54:M8:179:ARG:NH2	2.11	0.83
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.31	0.83
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.13	0.83
26:D4:91:LEU:HD13	26:D4:96:LEU:HB2	5.53	0.83
6:S4:9:LEU:HB2	6:S4:30:ARG:HB2	2.38	0.83
52:M6:160:ARG:NH2	36:5:3182:G:OP1	280.49	0.83
36:5:2439:A:H61	36:5:2508:U:H3	1.25	0.83
11:S9:38:ASN:HB2	11:S9:41:GLU:HG3	1.59	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	1.61	0.83
54:M8:170:ARG:HA	54:M8:174:ARG:HD2	1.60	0.83
36:5:343:U:OP2	88:5:3927:OHX:N3	2.12	0.83
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.59	0.83
64:N8:4:ARG:NH2	36:5:1427:U:OP2	135.06	0.82
13:C1:94:ILE:HD13	25:D3:16:ARG:HD2	1.61	0.82
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.60	0.82
2:S0:139:VAL:HG23	4:S2:62:PRO:HG3	1.67	0.82
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.58	0.82
22:D0:71:PRO:O	22:D0:72:ASN:ND2	6.16	0.82
13:C1:101:GLU:OE2	25:D3:16:ARG:NH2	2.66	0.82
67:O1:75:ILE:HG12	67:O1:93:VAL:HG13	2.45	0.82
71:O5:81:ARG:NH2	36:5:18:G:OP1	77.45	0.82
3:S1:128:LYS:HE2	3:S1:132:ASP:HB3	1.59	0.82
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.13	0.82
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.78	0.82
7:S5:200:ASN:HB3	7:S5:208:SER:HB3	3.37	0.82
36:5:3343:G:H21	36:5:3362:A:H2	1.28	0.82
3:S1:152:ARG:NH1	1:6:1799:U:O2'	342.47	0.82
36:1:3344:A:H2	36:1:3361:G:H21	1.24	0.82
36:1:3166:C:H42	36:1:3284:G:H1	1.24	0.81
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.75	0.81
13:C1:132:SER:O	13:C1:134:THR:N	3.10	0.81
36:1:1230:G:H1	36:1:1279:C:H42	1.28	0.81
1:2:1331:A:OP1	19:C7:45:ARG:NH2	2.12	0.81
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.13	0.81
76:Q0:125:LYS:HG3	36:5:2897:A:H5''	327.43	0.81
36:1:2818:U:H6	36:1:2818:U:H5'	1.44	0.81
3:S1:181:LEU:O	3:S1:185:THR:N	2.12	0.81
1:6:1097:U:H4'	1:6:1098:U:H5'	1.62	0.81
36:1:3049:A:OP2	88:1:4195:OHX:N1	2.12	0.81
1:2:325:G:H4'	13:C1:83:THR:HG21	1.62	0.81
41:L4:22:LEU:HD11	41:L4:26:PHE:HB2	1.62	0.81
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.13	0.81
36:5:3194:C:O2	36:5:3197:G:N2	2.14	0.81
1:6:1726:G:N7	88:6:2143:OHX:N5	2.29	0.81
3:S1:125:VAL:HG11	3:S1:173:THR:HG22	2.42	0.81
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.28	0.81
1:2:1773:C:OP2	77:Q1:2:ARG:NH1	2.13	0.81
74:O8:24:THR:HG22	74:O8:76:ASN:HB3	1.63	0.81
41:L4:300:ARG:HG2	41:L4:300:ARG:HH11	3.71	0.81
1:6:1695:G:H21	1:6:1706:C:H41	1.28	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:230:C:H42	1:6:235:G:H1	1.28	0.81
66:O0:16:LEU:HB3	66:O0:98:SER:HB2	1.62	0.81
5:S3:179:GLN:NE2	5:S3:179:GLN:O	2.14	0.81
31:D9:21:CYS:HB2	31:D9:39:CYS:HB3	2.19	0.81
27:D5:55:PRO:O	27:D5:57:TYR:N	2.13	0.81
2:S0:13:ASP:OD1	2:S0:179:ARG:NH2	2.99	0.80
2:S0:112:THR:HG23	2:S0:114:SER:H	2.63	0.80
1:2:237:C:H5''	1:2:238:U:H5'	1.64	0.80
36:5:2123:G:N7	88:5:4103:OHX:N1	2.30	0.80
36:1:2836:C:H5	36:1:2852:C:H42	1.29	0.80
70:O4:102:LYS:HD2	70:O4:103:LYS:HE3	7.58	0.80
36:5:2818:U:H6	36:5:2818:U:H5'	1.47	0.80
62:N6:52:ARG:O	62:N6:54:ASP:N	2.13	0.80
56:N0:155:ARG:HH21	56:N0:155:ARG:HG2	1.45	0.80
10:S8:11:ARG:NH1	10:S8:15:GLY:O	3.14	0.80
66:O0:13:LYS:HE3	66:O0:103:THR:HG21	1.63	0.80
36:1:2443:A:N6	36:1:2504:U:O4	2.14	0.80
45:L8:48:ARG:NH2	36:5:2588:U:OP1	183.37	0.80
10:S8:39:GLY:N	10:S8:60:ILE:O	2.15	0.80
3:S1:216:LYS:NZ	1:6:885:G:OP1	275.48	0.80
9:S7:131:PHE:O	9:S7:133:THR:N	2.14	0.80
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.62	0.80
50:M4:132:LYS:HD3	36:5:3230:G:H4'	286.95	0.80
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	2.35	0.80
54:M8:34:THR:HG22	54:M8:49:LEU:HD21	1.76	0.80
41:L4:181:VAL:O	41:L4:182:LEU:HB2	1.81	0.79
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.15	0.79
10:S8:26:LYS:HG2	10:S8:29:LEU:HD12	4.99	0.79
36:5:3153:U:H4'	36:5:3154:C:H5'	1.64	0.79
26:D4:112:LYS:NZ	1:6:57:G:OP1	345.62	0.79
36:1:2794:G:N7	88:1:3943:OHX:N2	2.30	0.79
18:C6:83:GLN:HE22	18:C6:119:ALA:HA	2.96	0.79
48:M1:155:THR:HG23	48:M1:158:ASP:HB2	1.64	0.79
62:N6:39:LEU:HD13	62:N6:43:TYR:HE2	2.50	0.79
1:2:741:C:O2	9:S7:107:ARG:NH1	2.16	0.79
54:M8:66:ARG:NH2	36:5:744:A:OP1	166.95	0.79
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.16	0.79
1:2:565:C:O2	88:2:2039:OHX:N5	2.16	0.79
36:1:3375:A:O2'	36:1:3378:C:OP2	2.00	0.79
1:6:1150:G:O6	88:6:2112:OHX:N5	2.15	0.79
6:S4:50:ASN:O	6:S4:53:LYS:NZ	2.15	0.79
1:2:1564:U:OP1	21:C9:38:LYS:NZ	2.13	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
73:O7:65:ARG:HG3	73:O7:65:ARG:HH11	1.45	0.79
42:L5:285:ARG:NH1	37:7:62:U:O3'	341.05	0.79
39:L2:28:LYS:HB3	39:L2:123:ARG:HD3	3.46	0.79
16:C4:50:ALA:O	16:C4:52:ARG:N	2.29	0.79
8:S6:163:THR:HA	8:S6:168:THR:HG22	3.76	0.79
49:M3:73:ARG:NH1	36:5:110:G:OP2	75.69	0.78
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.16	0.78
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.16	0.78
36:1:1095:U:H4'	36:1:1096:U:H5'	1.62	0.78
5:S3:175:VAL:HG13	5:S3:182:LEU:HD13	1.66	0.78
61:N5:115:ARG:NH1	61:N5:119:THR:OG1	2.38	0.78
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	1.64	0.78
34:SR:220:ILE:HD11	34:SR:254:ALA:HB2	1.65	0.78
3:S1:103:MET:HB3	3:S1:215:VAL:HG13	2.05	0.78
21:C9:63:ARG:NH1	21:C9:67:MET:SD	2.57	0.78
41:L4:269:SER:O	41:L4:271:LYS:N	2.16	0.78
42:L5:265:TYR:OH	37:7:121:U:OP2	312.68	0.78
36:1:2561:A:HO2'	36:1:2562:A:H8	1.31	0.78
13:C1:64:VAL:HG11	13:C1:131:ILE:HD11	1.66	0.78
23:D1:62:ARG:HH12	24:D2:20:THR:HG22	2.57	0.78
47:M0:3:ARG:NH2	36:5:2854:U:OP2	291.24	0.78
1:2:569:C:H41	25:D3:69:ARG:HH12	1.31	0.78
48:M1:94:ARG:O	48:M1:96:PHE:N	2.14	0.78
73:O7:52:LYS:HG2	73:O7:55:ARG:HH11	2.62	0.78
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.87	0.78
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.31	0.78
44:L7:139:PRO:HA	44:L7:237:ASN:HD21	1.48	0.77
1:2:452:A:OP2	88:2:2038:OHX:N5	2.17	0.77
68:O2:81:ASP:O	68:O2:84:THR:HG23	1.82	0.77
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.65	0.77
1:2:794:U:O2'	1:2:795:U:O2	2.01	0.77
1:2:702:G:O6	1:2:736:C:N4	2.17	0.77
36:1:3134:A:OP1	88:1:3910:OHX:N4	2.18	0.77
6:S4:48:LEU:HD21	6:S4:70:VAL:HG11	1.65	0.77
1:2:740:A:H2'	1:2:741:C:H5''	1.65	0.77
47:M0:63:GLU:HB2	36:5:2853:A:H5'	297.14	0.77
12:C0:32:HIS:CD2	12:C0:33:GLU:H	4.07	0.77
36:5:2211:U:H5	36:5:2234:G:O6	1.67	0.77
41:L4:329:PRO:O	41:L4:331:ALA:N	3.37	0.77
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.65	0.77
42:L5:184:ASP:OD2	42:L5:187:THR:OG1	5.14	0.77
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.48	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1010:C:OP2	88:2:2131:OHX:N6	2.17	0.77
49:M3:126:PHE:HD2	71:O5:115:LYS:HG2	1.48	0.77
15:C3:55:ARG:NH1	15:C3:56:ASP:OD2	2.18	0.77
69:O3:19:SER:HB3	36:5:1330:A:OP1	234.28	0.77
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.16	0.77
36:1:776:U:H5	36:1:2719:U:O2	1.68	0.77
19:C7:14:LYS:NZ	19:C7:18:GLU:OE2	2.17	0.77
11:S9:116:LEU:O	11:S9:118:LEU:N	3.75	0.77
1:2:1291:G:N2	1:2:1324:G:H22	1.83	0.77
36:1:3376:A:OP2	88:1:3915:OHX:N5	2.18	0.77
53:M7:25:SER:O	53:M7:29:THR:HG23	1.85	0.77
36:1:2828:G:O2'	47:M0:4:ARG:NH1	2.18	0.77
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.17	0.77
36:1:1565:G:N2	36:1:1574:C:O2	2.17	0.76
40:L3:37:ARG:HG2	40:L3:187:SER:H	3.59	0.76
56:N0:73:LYS:NZ	56:N0:97:VAL:O	3.05	0.76
1:6:845:G:H2'	1:6:846:G:H8	1.48	0.76
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.16	0.76
53:M7:105:LYS:HB3	53:M7:107:LEU:HD13	2.18	0.76
66:O0:9:SER:OG	66:O0:10:ILE:N	2.17	0.76
36:5:2407:C:H2'	36:5:2408:U:H6	1.50	0.76
1:6:1280:C:H2'	1:6:1281:G:H8	1.50	0.76
88:1:4093:OHX:N1	72:O6:28:TYR:O	2.17	0.76
59:N3:2:SER:HA	59:N3:56:ASP:HA	3.74	0.76
79:Q3:4:ARG:NH2	36:5:838:G:O6	236.59	0.76
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.19	0.76
28:D6:25:ASN:ND2	28:D6:77:CYS:SG	2.57	0.76
1:6:826:U:O4	88:6:2063:OHX:N3	2.18	0.76
36:1:368:G:OP1	88:1:3892:OHX:N1	2.19	0.76
36:1:3361:G:O6	88:1:4174:OHX:N6	2.18	0.76
36:5:2211:U:O4	88:5:3965:OHX:N4	2.17	0.76
1:2:1034:C:HO2'	24:D2:2:THR:N	1.84	0.76
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	1.68	0.76
36:1:3259:U:H6	36:1:3259:U:H5'	1.50	0.76
1:2:1680:G:O6	88:2:2110:OHX:N5	2.19	0.76
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.19	0.76
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.68	0.76
15:C3:65:VAL:HG23	15:C3:66:ILE:HG23	4.95	0.76
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.67	0.76
6:S4:151:ASP:OD1	8:S6:215:ARG:NH1	3.22	0.76
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.19	0.76
2:S0:55:GLU:OE2	23:D1:80:LYS:N	2.19	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:M6:65:ASN:OD1	52:M6:67:THR:HB	1.85	0.76
1:2:104:A:OP2	1:2:308:C:N4	2.18	0.76
36:1:1464:G:OP2	88:1:4212:OHX:N5	2.18	0.76
48:M1:106:ILE:HD11	48:M1:125:MET:HG2	4.76	0.76
40:L3:139:GLN:O	40:L3:141:GLY:N	2.18	0.76
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.19	0.76
42:L5:60:ILE:HB	42:L5:80:SER:HB3	1.67	0.76
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.19	0.76
65:N9:23:LYS:HB3	65:N9:24:PRO:HD3	3.25	0.75
3:S1:35:PRO:HD3	3:S1:98:THR:HG23	1.67	0.75
21:C9:68:ARG:NH1	1:6:1521:G:O6	414.05	0.75
3:S1:70:LEU:HA	3:S1:73:LEU:HB3	1.67	0.75
16:C4:51:ASP:OD1	1:6:902:G:N1	283.44	0.75
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.17	0.75
36:1:1454:A:OP2	88:1:4221:OHX:N6	2.19	0.75
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.18	0.75
39:L2:70:ARG:NH2	36:5:2522:G:O6	176.12	0.75
71:O5:92:LEU:HB3	71:O5:96:GLU:O	1.86	0.75
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.18	0.75
40:L3:147:GLU:OE2	40:L3:150:ARG:NH1	3.20	0.75
1:2:1339:C:O2'	1:2:1341:A:N7	2.18	0.75
67:O1:46:THR:OG1	67:O1:47:ASP:N	3.43	0.75
72:O6:70:ARG:HD3	72:O6:84:LYS:HG2	2.44	0.75
41:L4:292:SER:HB3	41:L4:295:ILE:HB	1.66	0.75
39:L2:70:ARG:HD2	39:L2:72:ARG:HE	3.94	0.75
7:S5:185:ARG:NH1	1:6:1471:A:OP1	333.71	0.75
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.19	0.75
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.71	0.75
1:2:1535:U:O2'	1:2:1536:G:N3	2.18	0.75
46:L9:48:VAL:HG21	46:L9:52:LEU:HD13	2.57	0.75
41:L4:44:LYS:HB3	41:L4:47:ARG:NH1	2.43	0.75
37:3:112:G:OP2	88:3:220:OHX:N1	2.19	0.75
1:2:895:G:H1	1:2:917:U:H3	1.34	0.75
36:5:1235:U:H4'	36:5:1236:G:H5'	1.68	0.75
36:5:1804:A:H2'	36:5:1805:C:C6	2.20	0.75
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.69	0.75
66:O0:22:LYS:HD3	66:O0:94:GLU:HG3	3.21	0.75
63:N7:26:VAL:HG21	63:N7:96:VAL:HB	1.68	0.75
36:1:1466:G:O6	88:1:3887:OHX:N4	2.20	0.74
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	2.34	0.74
1:6:1160:A:H2'	1:6:1161:C:C6	2.22	0.74
1:2:1369:U:OP1	21:C9:119:LYS:NZ	2.19	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:S5:64:VAL:HG22	7:S5:89:ILE:HD11	1.66	0.74
24:D2:53:ILE:HG12	24:D2:60:LYS:HB2	1.69	0.74
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.67	0.74
63:N7:33:SER:HB2	63:N7:36:HIS:HB2	1.69	0.74
1:2:1228:G:H1	14:C2:67:THR:HB	1.53	0.74
24:D2:70:ASN:HB2	24:D2:130:TYR:O	2.58	0.74
54:M8:30:VAL:O	54:M8:34:THR:HG23	1.88	0.74
36:1:829:U:H3	36:1:895:A:H62	1.36	0.74
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.18	0.74
42:L5:68:THR:HG22	42:L5:70:THR:H	1.52	0.74
37:3:17:A:OP1	42:L5:2:ALA:N	2.20	0.74
61:N5:67:ILE:HD12	61:N5:121:LYS:HG3	1.69	0.74
27:D5:92:ILE:HD11	27:D5:100:ILE:HG22	3.89	0.74
39:L2:142:ASP:OD2	39:L2:142:ASP:N	2.19	0.74
3:S1:51:SER:HA	3:S1:57:ALA:H	1.52	0.74
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.69	0.74
22:D0:48:HIS:O	22:D0:48:HIS:ND1	2.20	0.74
28:D6:10:ARG:HB2	28:D6:34:LYS:HG2	1.68	0.74
1:2:1532:U:OP1	27:D5:81:ARG:NH2	2.20	0.74
42:L5:279:LYS:HD2	42:L5:282:ARG:HH12	4.10	0.74
36:5:1878:G:OP1	88:5:3960:OHX:N5	2.19	0.74
19:C7:66:VAL:HB	19:C7:69:ILE:HD11	1.69	0.74
45:L8:68:ARG:O	45:L8:69:LEU:HB2	4.57	0.74
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	3.34	0.74
1:6:25:C:O2	88:6:2105:OHX:N6	2.21	0.74
37:3:49:G:N7	42:L5:58:LYS:HG3	2.02	0.74
1:6:218:A:H2'	1:6:219:A:H5''	1.70	0.74
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	3.54	0.74
2:S0:59:LEU:HD11	23:D1:78:LEU:HD12	1.70	0.74
47:M0:43:VAL:HG21	47:M0:197:VAL:HB	2.99	0.74
41:L4:170:LYS:HG3	41:L4:175:HIS:HB2	2.22	0.74
1:6:833:U:O4	88:6:2098:OHX:N2	2.21	0.74
28:D6:32:LYS:NZ	1:6:932:U:O2	311.55	0.74
36:5:863:C:OP1	88:5:3919:OHX:N3	2.21	0.74
47:M0:41:ALA:O	47:M0:139:ARG:NH2	2.38	0.74
47:M0:208:ASN:HB3	47:M0:211:ARG:HH11	3.13	0.74
38:4:126:A:O2'	38:4:128:U:OP1	2.06	0.74
27:D5:85:LYS:HG3	27:D5:86:GLU:H	2.61	0.74
36:1:2663:G:H5'	42:L5:152:ARG:HD3	1.70	0.74
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	1.70	0.74
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.20	0.74
43:L6:85:ILE:HG23	69:O3:107:ILE:HG21	3.09	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:S6:98:ARG:HD3	8:S6:99:GLY:N	2.89	0.74
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.70	0.74
47:M0:78:THR:OG1	47:M0:79:VAL:N	3.23	0.74
42:L5:4:GLN:O	42:L5:6:ASP:N	3.12	0.74
21:C9:57:ARG:NH1	1:6:1479:A:OP1	393.21	0.73
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.70	0.73
50:M4:19:ARG:HA	50:M4:69:THR:HG22	2.00	0.73
36:1:1740:U:H1'	36:1:1741:A:H2	1.53	0.73
1:2:190:C:N4	1:2:196:G:O6	2.19	0.73
1:2:273:G:H1	1:2:283:U:H3	1.35	0.73
3:S1:137:ILE:HD11	3:S1:172:LEU:HB3	1.71	0.73
72:O6:26:ILE:HD13	36:5:155:G:H1'	88.13	0.73
36:1:2208:A:N1	88:1:4056:OHX:N2	2.35	0.73
6:S4:49:ARG:NH2	6:S4:50:ASN:OD1	4.09	0.73
36:5:419:G:N7	88:5:3907:OHX:N3	2.37	0.73
36:5:174:C:H42	36:5:244:G:H1	1.37	0.73
36:1:517:G:P	44:L7:60:ARG:HH22	2.11	0.73
10:S8:34:ALA:HB2	10:S8:56:ARG:HD3	2.47	0.73
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.76	0.73
36:1:1215:U:H2'	36:1:1216:C:H5''	1.69	0.73
1:2:1202:A:OP1	88:2:2111:OHX:N1	2.22	0.73
25:D3:6:PRO:HG3	25:D3:14:LYS:HG2	1.71	0.73
33:E1:97:LYS:NZ	1:6:1253:U:O4	439.96	0.73
46:L9:91:ARG:HG2	46:L9:182:SER:HB3	2.12	0.73
36:5:2233:A:OP2	88:5:3965:OHX:N5	2.21	0.73
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.22	0.73
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.21	0.73
36:1:1233:G:N2	36:1:1255:C:N3	2.36	0.73
42:L5:265:TYR:HE1	37:7:121:U:H5''	316.73	0.73
10:S8:36:THR:HB	10:S8:57:ALA:O	2.29	0.73
47:M0:77:THR:HG22	47:M0:82:ARG:HA	1.97	0.73
29:D7:28:PRO:HB3	1:6:959:U:H5''	351.63	0.73
19:C7:104:ASN:O	19:C7:106:THR:N	3.82	0.73
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.70	0.73
77:Q1:15:ARG:NH1	1:6:1126:G:OP1	280.24	0.73
6:S4:187:ARG:HH11	6:S4:187:ARG:HB2	5.85	0.73
36:1:544:C:H1'	36:1:548:G:H22	1.53	0.73
36:1:3343:G:H21	36:1:3362:A:H2	1.35	0.73
36:1:1878:G:OP1	88:1:3936:OHX:N4	2.22	0.73
1:6:895:G:H1	1:6:917:U:H3	1.35	0.73
72:O6:4:LYS:HD3	72:O6:14:GLY:HA3	3.33	0.73
25:D3:30:LYS:HE2	25:D3:34:LEU:HD11	2.46	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1942:U:OP2	55:M9:74:ARG:NH1	2.22	0.72
40:L3:346:THR:O	40:L3:348:ARG:N	2.35	0.72
36:1:1944:U:H2'	36:1:1945:A:C8	2.24	0.72
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.71	0.72
1:2:583:C:OP1	88:2:2026:OHX:N3	2.21	0.72
36:1:1243:G:N2	36:1:1244:A:N7	2.36	0.72
37:3:7:G:OP1	42:L5:33:ARG:NH1	2.22	0.72
28:D6:58:VAL:HG22	28:D6:59:TYR:H	3.64	0.72
36:5:2249:G:OP1	88:5:4203:OHX:N6	2.22	0.72
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.95	0.72
36:5:1066:G:OP1	88:5:4233:OHX:N2	2.22	0.72
20:C8:83:ALA:HA	20:C8:86:LEU:HD22	1.71	0.72
59:N3:108:GLU:HG2	59:N3:128:ARG:HD3	1.70	0.72
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	1.71	0.72
71:O5:101:THR:HG22	71:O5:104:GLN:HB2	1.72	0.72
1:2:328:A:OP2	13:C1:56:LYS:NZ	2.22	0.72
4:S2:53:ILE:HG12	4:S2:73:LEU:HD22	4.43	0.72
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.23	0.72
8:S6:155:ASP:OD2	8:S6:155:ASP:N	2.86	0.72
36:5:410:U:O4	88:5:4106:OHX:N1	2.23	0.72
36:5:3295:A:H2'	36:5:3296:A:C8	2.24	0.72
36:5:437:G:H22	36:5:622:A:N6	1.85	0.72
36:1:2852:C:N3	47:M0:158:LYS:NZ	2.36	0.72
11:S9:100:LYS:HE3	11:S9:102:GLU:HB2	1.70	0.72
10:S8:50:GLY:HA2	1:6:397:A:O3'	314.99	0.72
33:E1:90:LYS:HB2	33:E1:93:HIS:HE1	10.25	0.72
10:S8:59:ARG:NH2	1:6:1678:A:OP1	253.14	0.72
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	3.11	0.72
39:L2:68:LYS:HD2	39:L2:70:ARG:HH21	2.55	0.72
8:S6:176:GLN:HG2	1:6:169:A:H5'	328.36	0.72
34:SR:135:THR:HG22	34:SR:141:LEU:HD23	1.72	0.72
36:1:1456:A:N7	67:O1:26:LYS:NZ	2.37	0.72
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.69	0.72
37:7:2:G:O2'	37:7:23:A:N1	2.22	0.72
36:1:2992:U:H1'	53:M7:69:ARG:HH21	1.54	0.72
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.23	0.72
27:D5:46:LYS:HE2	27:D5:70:LYS:HD2	1.69	0.72
36:5:900:G:H1'	36:5:1589:A:N6	2.03	0.72
46:L9:77:ASN:HA	46:L9:80:THR:HG23	3.23	0.72
34:SR:200:ASN:ND2	34:SR:240:VAL:O	2.22	0.72
56:N0:82:ASP:OD1	56:N0:87:THR:HB	1.89	0.72
68:O2:81:ASP:O	68:O2:84:THR:OG1	3.76	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2895:G:H2'	36:5:2896:A:H5''	1.72	0.72
19:C7:33:ARG:NH2	34:SR:109:ASP:OD1	2.53	0.72
22:D0:95:ALA:HB1	22:D0:99:ILE:HG13	3.98	0.72
19:C7:67:ARG:NH2	1:6:1398:U:O2'	405.30	0.72
1:6:104:A:H61	1:6:308:C:H5'	1.54	0.72
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.23	0.72
10:S8:10:LYS:NZ	1:6:339:C:OP2	283.87	0.72
7:S5:92:ARG:HH11	7:S5:92:ARG:HG2	2.84	0.72
44:L7:88:ARG:HD2	44:L7:90:LYS:O	1.92	0.72
36:1:1238:C:N4	36:1:1245:A:OP2	2.22	0.72
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.20	0.72
48:M1:107:ASP:N	48:M1:107:ASP:OD1	2.24	0.72
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.70	0.72
22:D0:53:LYS:HB2	22:D0:92:ASP:HB2	2.99	0.72
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.23	0.72
36:1:2395:G:H5''	40:L3:255:TRP:CD1	2.25	0.72
36:1:300:G:O6	88:1:4164:OHX:N1	2.22	0.72
3:S1:101:HIS:HA	3:S1:217:LEU:HD22	1.86	0.72
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	1.85	0.72
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.25	0.72
36:5:1949:G:H1	36:5:2097:U:H3	1.36	0.72
55:M9:145:ALA:HA	55:M9:148:ASP:HB2	3.75	0.72
19:C7:8:THR:HG21	1:6:1330:G:H21	420.02	0.72
1:6:1011:G:OP2	88:6:2117:OHX:N3	2.22	0.72
11:S9:3:ARG:HG2	11:S9:3:ARG:HH21	4.44	0.72
42:L5:122:VAL:HG23	42:L5:123:GLU:H	3.09	0.71
74:O8:24:THR:HG23	74:O8:44:LYS:HB2	4.30	0.71
20:C8:29:VAL:HG21	20:C8:54:LEU:HD23	5.84	0.71
1:6:151:G:H1	1:6:163:G:H1	1.38	0.71
36:1:679:U:O4	88:1:3983:OHX:N1	2.23	0.71
1:2:851:U:H2'	1:2:852:C:C6	2.25	0.71
51:M5:18:VAL:HG22	51:M5:19:LEU:HD12	3.18	0.71
9:S7:150:GLN:HB3	9:S7:181:ILE:HD12	1.72	0.71
36:1:718:G:C2	36:1:721:G:H1'	2.25	0.71
36:1:3047:U:O2'	40:L3:53:MET:HE1	1.90	0.71
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.12	0.71
3:S1:181:LEU:HD13	3:S1:181:LEU:H	1.55	0.71
24:D2:20:THR:HB	24:D2:22:LYS:HD3	2.68	0.71
47:M0:4:ARG:NH2	47:M0:99:ILE:HG22	6.59	0.71
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.72	0.71
1:2:1745:G:O6	88:2:2086:OHX:N6	2.23	0.71
1:2:471:A:OP2	88:2:2076:OHX:N4	2.22	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:7:G:O6	4:S2:205:ARG:NH2	2.22	0.71
1:6:833:U:O4	88:6:2098:OHX:N5	2.23	0.71
34:SR:52:GLN:HG2	34:SR:53:LYS:HG3	4.37	0.71
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.72	0.71
17:C5:65:LEU:O	88:C5:201:OHX:N2	4.81	0.71
33:E1:134:ASN:H	1:6:1251:U:H4'	442.41	0.71
36:1:1808:G:O6	88:1:3993:OHX:N3	2.22	0.71
88:1:3921:OHX:N6	51:M5:32:GLN:O	2.22	0.71
1:6:1294:G:O6	88:6:2066:OHX:N5	2.23	0.71
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.72	0.71
36:5:437:G:N2	36:5:622:A:H61	1.86	0.71
43:L6:78:ARG:NH1	36:5:3272:C:OP2	247.91	0.71
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.55	0.71
15:C3:55:ARG:NH1	15:C3:56:ASP:OD1	3.59	0.71
70:O4:22:VAL:HG12	70:O4:30:LEU:HD22	1.71	0.71
53:M7:138:LYS:NZ	36:5:2356:A:OP1	147.54	0.71
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.72	0.71
26:D4:20:ARG:HD2	26:D4:74:LEU:HD22	4.30	0.71
47:M0:134:ILE:HD11	57:N1:160:ILE:HD12	1.71	0.71
44:L7:25:GLN:NE2	44:L7:25:GLN:O	2.24	0.71
71:O5:85:THR:HG22	71:O5:88:LEU:H	2.22	0.71
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.23	0.71
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.23	0.71
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.71	0.71
36:1:2248:C:OP2	88:1:3890:OHX:N3	2.24	0.71
36:1:830:A:OP1	88:1:4022:OHX:N4	2.23	0.71
54:M8:151:ARG:HB2	54:M8:152:HIS:HD2	1.55	0.71
36:5:510:G:O6	88:5:4026:OHX:N2	2.24	0.71
11:S9:163:PRO:O	11:S9:165:GLY:N	2.18	0.71
36:5:3074:G:OP1	88:5:4123:OHX:N4	2.24	0.71
66:O0:13:LYS:HB3	66:O0:100:ILE:HG22	3.32	0.71
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	1.91	0.71
1:6:228:G:N2	1:6:237:C:N3	2.38	0.71
47:M0:194:GLY:HA3	36:5:1010:G:N3	335.75	0.71
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	1.99	0.71
28:D6:79:ILE:HD12	1:6:1794:A:H1'	330.45	0.71
1:2:1529:C:OP1	7:S5:112:ARG:NH1	2.23	0.71
36:1:3115:C:OP1	46:L9:62:ARG:NH2	2.24	0.71
3:S1:157:GLN:O	3:S1:159:SER:N	2.24	0.71
36:1:2503:G:H1'	36:1:2504:U:H5	1.55	0.71
1:2:796:A:OP2	88:2:2057:OHX:N6	2.23	0.71
19:C7:14:LYS:HG3	19:C7:69:ILE:HG22	3.30	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:68:PRO:O	88:C5:201:OHX:N5	6.67	0.71
36:1:3358:U:H2'	36:1:3359:A:O4'	1.91	0.71
49:M3:166:ALA:HB1	64:N8:147:LEU:HD21	1.94	0.71
29:D7:19:HIS:CD2	29:D7:21:LEU:H	4.25	0.71
39:L2:3:ARG:HB2	39:L2:207:VAL:HG12	3.36	0.71
14:C2:103:LEU:HD23	14:C2:115:VAL:HA	2.51	0.71
12:C0:29:GLN:NE2	12:C0:31:LYS:O	5.01	0.71
32:E0:29:LYS:HG3	32:E0:30:PRO:HD2	4.77	0.71
7:S5:57:SER:O	7:S5:59:VAL:N	2.23	0.71
36:1:514:G:N3	41:L4:341:SER:OG	2.23	0.70
4:S2:58:LEU:HD11	4:S2:236:PRO:HG2	3.07	0.70
30:D8:32:PHE:O	30:D8:34:GLU:N	3.55	0.70
36:5:2255:A:H5'	36:5:2261:G:H22	1.54	0.70
1:2:829:A:O2'	1:2:830:U:OP2	2.09	0.70
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	1.82	0.70
1:2:647:G:N2	1:2:687:G:H22	1.88	0.70
5:S3:142:LEU:O	5:S3:144:ALA:N	2.23	0.70
17:C5:44:ARG:NH2	17:C5:82:ASN:O	2.83	0.70
36:5:1898:G:OP2	88:5:3948:OHX:N5	2.23	0.70
10:S8:82:VAL:HG12	10:S8:101:ILE:HG22	3.53	0.70
36:5:2322:C:OP1	88:5:4164:OHX:N6	2.24	0.70
22:D0:42:VAL:HG21	22:D0:55:PRO:HD3	1.72	0.70
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.39	0.70
36:1:1015:U:O2'	36:1:1017:C:OP2	2.09	0.70
54:M8:151:ARG:HB2	54:M8:152:HIS:CD2	2.26	0.70
36:1:2123:G:N7	88:1:4213:OHX:N2	2.40	0.70
36:5:2579:G:O6	88:5:4034:OHX:N3	2.24	0.70
34:SR:160:GLU:O	34:SR:162:ALA:N	2.24	0.70
6:S4:3:ARG:HB3	1:6:93:A:H1'	326.26	0.70
61:N5:56:ARG:NH2	38:8:135:G:OP2	82.49	0.70
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.95	0.70
2:S0:182:LEU:HB3	2:S0:188:LEU:HD23	1.74	0.70
79:Q3:46:THR:HB	79:Q3:58:SER:HB2	1.74	0.70
46:L9:70:THR:HG21	36:5:3122:A:N1	324.48	0.70
36:5:3155:U:OP1	88:5:4231:OHX:N4	2.25	0.70
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.72	0.70
3:S1:87:ARG:NH2	3:S1:220:GLN:OE1	2.24	0.70
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.24	0.70
18:C6:50:GLU:OE1	18:C6:114:ARG:NH1	2.25	0.70
39:L2:207:VAL:HG21	36:5:916:G:C6	186.84	0.70
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	1.74	0.70
66:O0:26:GLY:O	66:O0:30:THR:HG23	2.03	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:85:ILE:HD11	17:C5:116:LEU:HD23	1.74	0.70
36:1:883:A:H5'	53:M7:133:HIS:HA	1.73	0.70
70:O4:58:ARG:HG3	70:O4:59:PRO:HD2	1.90	0.70
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.92	0.70
1:6:1564:U:H2'	1:6:1565:C:C6	2.26	0.70
9:S7:66:SER:O	9:S7:68:ALA:N	2.92	0.70
25:D3:78:LYS:HG3	25:D3:79:ASN:HB2	1.74	0.70
22:D0:69:LYS:HE2	22:D0:80:GLU:HG3	3.06	0.70
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.73	0.70
1:2:1550:A:OP2	17:C5:42:ARG:NH2	2.25	0.70
77:Q1:23:ARG:HG2	77:Q1:23:ARG:HH11	4.42	0.70
7:S5:182:ALA:O	7:S5:186:ASN:ND2	2.25	0.70
58:N2:59:ASP:OD1	58:N2:60:GLY:N	4.46	0.70
60:N4:58:HIS:ND1	60:N4:58:HIS:O	4.06	0.70
27:D5:36:ALA:O	27:D5:38:HIS:N	2.24	0.70
1:2:301:A:OP2	88:2:2064:OHX:N2	2.24	0.70
71:O5:70:TYR:HA	71:O5:73:LYS:HD2	1.73	0.70
23:D1:3:ASN:HD21	23:D1:7:GLN:HB3	2.03	0.70
72:O6:28:TYR:O	88:5:4194:OHX:N2	104.19	0.69
36:1:2703:A:OP2	42:L5:23:ARG:NH1	2.25	0.69
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	1.74	0.69
25:D3:91:GLY:O	25:D3:93:LEU:N	2.25	0.69
1:6:1417:A:OP1	88:6:2084:OHX:N4	2.25	0.69
9:S7:162:ILE:HB	9:S7:169:PHE:HE2	1.57	0.69
12:C0:29:GLN:HB2	12:C0:39:ASN:HB2	1.74	0.69
1:6:823:G:H2'	1:6:824:G:O4'	1.92	0.69
47:M0:21:ARG:NH1	47:M0:22:TYR:OH	4.16	0.69
50:M4:55:ARG:HD3	56:N0:70:THR:OG1	2.35	0.69
3:S1:180:THR:HG22	3:S1:181:LEU:HD22	1.75	0.69
2:S0:126:PRO:HB2	2:S0:152:PRO:HG2	2.27	0.69
1:6:915:A:OP1	88:6:2068:OHX:N6	2.24	0.69
21:C9:16:ASN:OD1	21:C9:56:LYS:NZ	2.58	0.69
36:1:1662:G:O6	88:1:3894:OHX:N2	2.25	0.69
41:L4:144:LYS:HD2	41:L4:145:ILE:H	4.90	0.69
1:6:1765:A:OP1	88:6:2122:OHX:N2	2.26	0.69
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.57	0.69
3:S1:110:LEU:HD11	3:S1:213:ARG:HD2	1.74	0.69
74:O8:8:ILE:HD12	74:O8:8:ILE:H	1.56	0.69
46:L9:28:VAL:HG22	46:L9:33:THR:HB	2.18	0.69
3:S1:144:ARG:NH2	3:S1:207:LEU:O	3.20	0.69
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.21	0.69
7:S5:163:SER:HB2	30:D8:48:VAL:HG22	2.22	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:C7:103:ASP:O	19:C7:104:ASN:ND2	6.32	0.69
53:M7:27:LYS:HD3	53:M7:63:PHE:HB3	1.74	0.69
1:2:656:G:O2'	1:2:657:U:O4'	2.08	0.69
7:S5:149:VAL:HG23	30:D8:67:ARG:H	1.56	0.69
36:1:3116:G:N2	36:1:3116:G:OP1	2.25	0.69
9:S7:38:LEU:HD23	9:S7:41:LEU:HD12	1.74	0.69
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.25	0.69
7:S5:43:PHE:N	7:S5:46:TRP:O	2.90	0.69
51:M5:197:LEU:HD21	51:M5:199:LEU:HD21	1.74	0.69
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	2.10	0.69
73:O7:28:HIS:CD2	73:O7:31:LYS:HE2	3.02	0.69
54:M8:133:LYS:HB2	54:M8:135:GLN:HE22	1.87	0.69
1:6:193:U:C2	1:6:195:G:H1'	2.28	0.69
36:5:300:G:O6	88:5:4196:OHX:N2	2.26	0.69
1:6:25:C:O2	88:6:2105:OHX:N5	2.25	0.69
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	1.73	0.69
4:S2:80:VAL:HG13	4:S2:81:MET:H	1.55	0.69
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.24	0.69
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	1.75	0.69
2:S0:119:ARG:HE	4:S2:240:LEU:HD23	3.16	0.69
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.75	0.69
1:6:1280:C:H2'	1:6:1281:G:C8	2.27	0.69
1:2:1203:A:OP2	88:2:2111:OHX:N5	2.26	0.69
36:1:911:C:H42	39:L2:3:ARG:HD3	1.57	0.69
13:C1:109:VAL:HG12	13:C1:137:PHE:HB2	1.94	0.69
62:N6:3:LYS:HG3	62:N6:8:VAL:HG13	1.75	0.69
44:L7:217:PRO:O	88:5:4005:OHX:N3	260.20	0.69
63:N7:3:LYS:HE3	66:O0:36:GLN:HA	1.74	0.69
53:M7:172:GLN:NE2	69:O3:60:ARG:O	2.25	0.69
33:E1:144:CYS:HB3	33:E1:147:VAL:HG13	1.74	0.69
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	1.74	0.69
1:2:715:U:H3	1:2:723:G:H1	1.38	0.69
25:D3:23:ARG:HH11	25:D3:23:ARG:HG3	2.37	0.69
1:2:649:U:O2'	1:2:650:U:O5'	2.11	0.69
88:1:3968:OHX:N3	44:L7:217:PRO:O	2.26	0.69
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.26	0.69
62:N6:120:GLN:HG3	62:N6:126:LEU:HA	7.33	0.69
41:L4:82:THR:HG23	41:L4:84:ARG:H	2.14	0.69
11:S9:147:MET:O	11:S9:149:ARG:NH1	4.43	0.69
22:D0:83:GLU:HG3	22:D0:85:ARG:HE	1.57	0.69
36:1:1786:G:H2'	36:1:1787:A:C8	2.28	0.69
1:6:350:U:H5''	1:6:352:A:H5'	1.75	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:3:HIS:ND1	40:L3:3:HIS:O	3.82	0.69
9:S7:30:SER:HB3	9:S7:34:LEU:HD12	2.34	0.69
79:Q3:13:LYS:HD2	79:Q3:14:TYR:CZ	2.70	0.69
11:S9:146:PHE:O	11:S9:147:MET:HB2	2.16	0.69
13:C1:139:VAL:O	13:C1:140:VAL:HB	1.92	0.69
36:1:1024:G:N7	88:1:4179:OHX:N6	2.41	0.69
5:S3:211:PRO:HG2	19:C7:19:ARG:HB2	1.93	0.69
57:N1:8:ARG:O	57:N1:11:THR:OG1	2.10	0.69
29:D7:14:SER:HA	29:D7:17:ARG:HG2	1.73	0.69
36:5:549:U:H2'	36:5:550:A:C8	2.27	0.69
62:N6:37:LYS:H	62:N6:37:LYS:HD3	1.77	0.69
50:M4:113:THR:HB	50:M4:116:GLU:HB2	1.75	0.68
3:S1:70:LEU:HB3	3:S1:79:HIS:HB3	5.24	0.68
11:S9:109:LEU:HD13	11:S9:129:ILE:HD13	2.18	0.68
78:Q2:45:ARG:NH2	36:5:283:G:OP2	147.05	0.68
18:C6:125:GLU:HG2	18:C6:126:PRO:HD2	1.76	0.68
1:6:868:G:H1	1:6:960:U:H3	1.41	0.68
51:M5:23:GLN:HG2	51:M5:122:ASN:HD21	1.58	0.68
27:D5:56:THR:HA	27:D5:103:ARG:HH11	1.58	0.68
25:D3:75:GLN:HG3	25:D3:82:LYS:HG3	1.74	0.68
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.58	0.68
58:N2:54:VAL:HG13	58:N2:67:SER:HB2	4.04	0.68
42:L5:110:LEU:HA	42:L5:113:LEU:HB2	3.26	0.68
59:N3:80:ARG:HH12	59:N3:116:GLY:HA3	1.56	0.68
77:Q1:11:ARG:NH2	1:6:1127:G:OP1	294.22	0.68
1:2:1796:C:OP2	28:D6:5:ARG:NH1	2.26	0.68
19:C7:13:SER:HA	19:C7:54:THR:HG22	1.75	0.68
47:M0:99:ILE:HD13	47:M0:101:LYS:HB2	6.33	0.68
22:D0:23:ARG:NH1	22:D0:92:ASP:OD1	2.21	0.68
58:N2:99:LYS:HG3	58:N2:102:GLU:HB2	1.76	0.68
36:1:291:C:OP1	51:M5:68:ARG:NH1	2.26	0.68
1:6:845:G:H2'	1:6:846:G:C8	2.28	0.68
44:L7:206:LYS:HB3	36:5:1334:U:H5''	237.05	0.68
1:6:219:A:C6	1:6:843:U:H1'	2.29	0.68
1:2:399:A:H4'	6:S4:3:ARG:HG2	1.74	0.68
72:O6:60:LEU:HD21	72:O6:68:ARG:HH21	1.58	0.68
1:2:1479:A:OP1	21:C9:57:ARG:NH1	2.27	0.68
9:S7:129:LEU:HD13	9:S7:169:PHE:HB3	2.91	0.68
3:S1:171:ILE:HA	3:S1:174:LYS:HE3	1.75	0.68
1:6:1696:G:H2'	1:6:1698:G:O6	1.93	0.68
35:SM:23:LYS:HD2	35:SM:23:LYS:H	1.59	0.68
36:1:276:U:O2	51:M5:93:LYS:NZ	2.27	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.25	0.68
36:1:619:A:H5''	36:1:620:U:OP1	1.94	0.68
4:S2:140:ARG:HB3	4:S2:221:THR:HB	1.75	0.68
52:M6:23:VAL:HG11	52:M6:84:LEU:HD11	1.73	0.68
59:N3:48:ARG:NH2	36:5:3043:C:OP2	251.56	0.68
60:N4:39:LEU:HD12	60:N4:44:LYS:HG3	1.74	0.68
1:2:916:U:H3	16:C4:41:ARG:HH22	1.40	0.68
73:O7:52:LYS:HA	73:O7:55:ARG:HD2	1.99	0.68
70:O4:58:ARG:HG3	70:O4:58:ARG:HH11	1.59	0.68
72:O6:36:ARG:NH1	36:5:116:A:OP1	109.26	0.68
1:2:936:G:N7	28:D6:15:ARG:NH1	2.41	0.68
24:D2:104:LEU:HD23	24:D2:125:ILE:HA	5.33	0.68
37:3:76:A:O2'	56:N0:50:LYS:NZ	2.26	0.68
63:N7:62:VAL:O	63:N7:66:THR:OG1	2.85	0.68
1:2:591:A:H2'	1:2:592:A:C8	2.27	0.68
38:8:82:U:H2'	38:8:83:C:H5'	1.76	0.68
41:L4:188:ARG:HG2	41:L4:190:GLY:H	3.46	0.68
36:5:1541:G:OP2	88:5:4097:OHX:N4	2.26	0.68
36:1:612:U:H2'	36:1:613:G:H8	1.57	0.68
53:M7:36:ILE:HG12	53:M7:44:ALA:HB1	1.75	0.68
71:O5:85:THR:HG22	71:O5:87:ALA:N	2.06	0.68
64:N8:21:ARG:NH1	36:5:1369:A:OP1	183.53	0.68
11:S9:129:ILE:HA	11:S9:134:ILE:HG12	3.90	0.68
1:2:734:A:H5''	1:2:735:C:OP1	1.93	0.68
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	2.12	0.68
55:M9:104:ARG:NH1	36:5:1949:G:OP1	219.57	0.68
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.48	0.68
36:5:2827:U:O4	88:5:3903:OHX:N6	2.26	0.68
46:L9:12:VAL:HB	46:L9:51:GLN:HA	1.99	0.68
1:6:373:G:N7	88:6:2184:OHX:N3	2.41	0.68
36:1:2296:A:OP1	88:1:4161:OHX:N2	2.26	0.68
21:C9:105:LEU:HD13	21:C9:122:ARG:HD3	2.54	0.68
3:S1:72:ASP:OD1	28:D6:59:TYR:OH	2.11	0.68
54:M8:89:ASP:OD1	54:M8:90:ASP:N	2.39	0.68
1:2:491:C:H42	1:2:496:G:H1	1.39	0.68
11:S9:108:ARG:HB2	11:S9:111:THR:HG23	2.52	0.68
54:M8:143:PRO:HB2	54:M8:146:SER:HB2	1.75	0.68
5:S3:114:ALA:HB3	5:S3:117:ARG:HB2	1.75	0.68
10:S8:42:ARG:HB3	10:S8:59:ARG:HB2	2.59	0.68
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.25	0.68
63:N7:36:HIS:CD2	63:N7:74:VAL:HG11	2.76	0.68
40:L3:4:ARG:HG3	40:L3:4:ARG:HH11	3.45	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
59:N3:48:ARG:HH22	36:5:3043:C:P	250.86	0.68
76:Q0:78:ILE:HG12	76:Q0:83:LYS:HD2	1.76	0.68
33:E1:108:VAL:HB	33:E1:114:VAL:HG22	1.76	0.68
69:O3:86:ARG:HH22	36:5:498:A:H5'	216.57	0.68
17:C5:130:ARG:HH12	35:SM:71:ASN:HA	2.21	0.68
71:O5:95:PHE:O	71:O5:97:ALA:N	2.27	0.68
36:1:847:A:H2'	36:1:848:A:C8	2.27	0.68
50:M4:128:ARG:NH2	36:5:3214:U:OP2	280.80	0.68
1:6:831:U:O2'	1:6:832:U:H5'	1.94	0.68
56:N0:13:ARG:NH1	37:7:73:C:O2	306.10	0.68
20:C8:143:ARG:NH2	1:6:1462:G:N7	339.16	0.68
36:5:25:U:O4	88:5:3909:OHX:N6	2.27	0.68
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.76	0.68
25:D3:62:LYS:HG3	25:D3:118:PRO:HG3	2.92	0.68
27:D5:71:ILE:HG23	27:D5:73:GLY:H	7.95	0.68
36:5:1781:C:H2'	36:5:1782:U:C6	2.29	0.68
57:N1:101:CYS:HB3	36:5:990:U:H1'	251.39	0.68
36:1:829:U:H3	36:1:895:A:N6	1.92	0.68
36:1:2897:A:H2'	36:1:2899:C:H5''	1.74	0.68
44:L7:216:VAL:HG11	44:L7:227:GLY:HA3	4.09	0.68
36:1:1724:U:H4'	36:1:1725:C:OP1	1.92	0.68
13:C1:116:ARG:HE	13:C1:116:ARG:H	5.24	0.68
36:5:118:U:O2	36:5:121:A:H5'	1.93	0.68
8:S6:2:LYS:HB2	8:S6:108:VAL:HG22	1.76	0.68
23:D1:74:GLN:HE22	23:D1:83:TRP:H	1.42	0.67
62:N6:35:LEU:HD13	62:N6:39:LEU:HB3	2.92	0.67
1:2:959:U:C6	15:C3:61:THR:HB	2.29	0.67
36:1:3309:G:O6	40:L3:21:ARG:NH2	2.27	0.67
7:S5:164:PRO:HA	7:S5:167:ARG:HG3	3.12	0.67
1:6:822:U:H2'	1:6:823:G:H5''	1.76	0.67
59:N3:89:ASP:OD1	59:N3:91:VAL:HG12	4.09	0.67
1:6:620:A:H5'	1:6:620:A:H8	1.58	0.67
9:S7:49:ILE:HG13	9:S7:57:ALA:HB3	2.50	0.67
18:C6:109:PHE:O	18:C6:113:ASP:N	2.73	0.67
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	2.52	0.67
69:O3:59:VAL:O	69:O3:61:GLY:N	2.61	0.67
53:M7:88:VAL:O	53:M7:92:GLN:HG2	1.94	0.67
1:2:386:G:OP2	10:S8:25:ARG:NH2	2.27	0.67
36:5:595:G:H1	36:5:609:G:H5''	1.59	0.67
52:M6:108:ILE:HD11	52:M6:113:ASP:HA	5.44	0.67
1:2:1097:U:HO2'	4:S2:159:THR:HG1	1.33	0.67
63:N7:100:THR:HA	63:N7:106:GLN:HG2	1.75	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.26	0.67
4:S2:230:TRP:CE2	24:D2:68:ARG:HD2	3.73	0.67
53:M7:64:ASN:O	53:M7:67:ILE:HG12	3.58	0.67
36:5:2117:A:HO2'	36:5:3080:G:HO2'	1.43	0.67
41:L4:217:LYS:HD3	41:L4:220:ARG:HH21	1.59	0.67
1:2:1338:C:H1'	1:2:1410:A:C4	2.30	0.67
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.31	0.67
36:1:385:A:H2'	36:1:386:A:C8	2.29	0.67
1:2:702:G:O6	1:2:737:A:N6	2.28	0.67
49:M3:56:PRO:HG3	49:M3:74:GLY:O	1.95	0.67
34:SR:307:ASP:OD2	34:SR:311:ARG:NH2	3.44	0.67
1:2:1201:G:N2	1:2:1600:A:H5''	2.08	0.67
1:6:770:A:OP2	88:6:2134:OHX:N3	2.28	0.67
4:S2:161:LYS:NZ	4:S2:163:GLY:O	2.27	0.67
57:N1:115:LYS:HA	57:N1:118:GLU:HB2	1.76	0.67
1:6:1579:U:OP1	88:6:2180:OHX:N4	2.27	0.67
54:M8:141:ARG:HD3	36:5:743:C:O2	175.71	0.67
8:S6:98:ARG:HD3	8:S6:99:GLY:H	2.88	0.67
36:5:990:U:O4	88:5:4189:OHX:N6	2.28	0.67
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.28	0.67
36:5:2568:C:N4	36:5:2574:G:O6	2.28	0.67
5:S3:72:LEU:HD22	12:C0:65:TYR:HD1	2.03	0.67
36:1:2916:U:H1'	59:N3:44:SER:HB3	1.77	0.67
36:5:1025:A:H3'	36:5:1026:A:H4'	1.76	0.67
34:SR:81:LEU:HD11	34:SR:122:ILE:HD13	2.78	0.67
66:O0:101:LEU:HD22	66:O0:101:LEU:H	3.42	0.67
47:M0:21:ARG:NH2	47:M0:22:TYR:OH	2.28	0.67
6:S4:139:VAL:HG13	6:S4:150:PRO:HG3	1.76	0.67
40:L3:178:LEU:HD12	40:L3:179:ALA:H	1.59	0.67
36:1:223:U:O4	88:1:4210:OHX:N5	2.27	0.67
55:M9:13:SER:OG	55:M9:38:ARG:NH2	2.28	0.67
64:N8:77:LYS:O	64:N8:79:TRP:N	2.43	0.67
49:M3:15:ARG:NH2	36:5:96:G:OP1	154.74	0.67
26:D4:29:HIS:O	26:D4:31:ASN:N	3.65	0.67
1:2:1795:U:O2	28:D6:10:ARG:HD2	1.95	0.67
36:1:2233:A:OP2	88:1:4056:OHX:N5	2.28	0.67
27:D5:43:ASP:O	27:D5:45:GLU:N	2.28	0.67
62:N6:112:ASP:HB2	62:N6:115:ARG:H	1.60	0.67
1:2:1145:U:O2'	4:S2:89:GLN:O	2.12	0.67
36:5:847:A:H2'	36:5:848:A:C8	2.30	0.67
36:5:2439:A:N6	36:5:2508:U:H3	1.92	0.67
40:L3:227:GLU:HG3	40:L3:270:ARG:HD3	4.04	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:D0:45:ALA:HB1	22:D0:50:LEU:HD12	1.77	0.67
12:C0:30:ALA:HA	12:C0:38:LYS:HG2	1.77	0.67
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.28	0.67
7:S5:190:ILE:O	7:S5:194:LEU:HB2	2.22	0.67
37:3:4:U:H2'	37:3:5:G:C8	2.29	0.67
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.85	0.67
8:S6:164:LYS:N	8:S6:167:LYS:O	2.26	0.67
6:S4:23:LEU:HD22	6:S4:23:LEU:H	2.58	0.67
36:1:2683:U:H2'	36:1:2684:C:C6	2.30	0.67
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.13	0.67
74:O8:44:LYS:HG2	74:O8:53:THR:HB	1.87	0.67
1:2:142:G:H22	1:2:173:A:H2	1.43	0.67
17:C5:69:GLU:OE1	88:C5:201:OHX:N4	2.28	0.67
1:6:1720:G:O6	88:6:2091:OHX:N4	2.28	0.67
47:M0:72:ALA:O	47:M0:76:MET:HG3	2.21	0.66
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.75	0.66
34:SR:22:SER:HB3	34:SR:70:ASP:HA	1.76	0.66
38:8:79:A:H3'	38:8:80:A:C8	2.30	0.66
76:Q0:97:ARG:HB2	76:Q0:120:GLN:O	1.94	0.66
1:2:652:G:H1	1:2:682:C:H42	1.42	0.66
66:O0:29:SER:HA	66:O0:32:LYS:HD3	1.76	0.66
39:L2:213:GLY:HA2	36:5:2967:A:H5''	205.53	0.66
1:6:184:C:H2'	1:6:185:U:C6	2.30	0.66
1:2:66:U:OP1	8:S6:136:LYS:NZ	2.22	0.66
40:L3:221:THR:HB	40:L3:273:HIS:H	1.87	0.66
36:5:1919:G:N7	88:5:4075:OHX:N4	2.44	0.66
36:5:2128:C:OP1	88:5:4094:OHX:N3	2.28	0.66
2:S0:70:PRO:HB2	2:S0:94:GLY:HA3	1.76	0.66
5:S3:65:ARG:HA	5:S3:68:GLU:HG3	1.76	0.66
36:1:1560:G:N2	36:1:1579:C:O2	2.28	0.66
48:M1:15:GLU:HB2	48:M1:132:ASN:ND2	2.11	0.66
2:S0:110:TYR:O	2:S0:112:THR:N	2.27	0.66
25:D3:63:GLN:HA	25:D3:65:ASN:H	1.60	0.66
67:O1:23:VAL:O	67:O1:28:ARG:NH1	3.20	0.66
6:S4:11:ARG:O	6:S4:12:LEU:HB2	1.93	0.66
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.68	0.66
71:O5:21:LEU:HD22	71:O5:25:LYS:HE2	1.77	0.66
1:2:820:U:H2'	1:2:821:U:H4'	1.76	0.66
1:6:1680:G:O6	88:6:2187:OHX:N4	2.29	0.66
78:Q2:77:CYS:O	78:Q2:79:THR:N	2.28	0.66
36:1:2356:A:N6	36:1:2983:C:H5	1.93	0.66
1:6:1628:U:H2'	1:6:1629:G:C8	2.30	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:140:ARG:NH1	23:D1:10:GLU:OE1	6.04	0.66
29:D7:2:VAL:O	29:D7:3:LEU:HB2	2.76	0.66
36:5:1246:G:O2'	36:5:1264:G:OP2	2.12	0.66
1:6:1665:U:O4	88:6:2120:OHX:N6	2.28	0.66
42:L5:270:LYS:O	42:L5:273:ARG:HB3	3.35	0.66
40:L3:81:THR:HG22	40:L3:321:PHE:CA	5.80	0.66
21:C9:86:ARG:NH1	21:C9:90:PRO:O	2.29	0.66
74:O8:17:ARG:HB3	74:O8:20:VAL:HG21	3.01	0.66
1:2:205:U:O4	88:2:2067:OHX:N3	2.28	0.66
1:6:1542:G:N2	1:6:1569:A:OP2	2.25	0.66
34:SR:184:ASN:HD22	34:SR:185:GLN:N	5.45	0.66
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.28	0.66
68:O2:103:LYS:O	68:O2:106:VAL:HG22	5.10	0.66
52:M6:68:ARG:NH1	36:5:2988:C:OP1	217.62	0.66
21:C9:119:LYS:NZ	1:6:1369:U:OP1	441.19	0.66
9:S7:50:ASP:N	9:S7:50:ASP:OD1	2.29	0.66
30:D8:36:THR:O	30:D8:38:ARG:N	2.28	0.66
1:6:195:G:H2'	1:6:196:G:H5''	1.78	0.66
6:S4:108:ARG:NH2	1:6:789:A:OP1	391.31	0.66
36:1:2255:A:H5'	36:1:2261:G:H22	1.60	0.66
41:L4:301:PRO:O	54:M8:39:ARG:NH1	3.42	0.66
34:SR:64:HIS:ND1	34:SR:86:ASP:OD2	2.37	0.66
3:S1:131:ASP:HB3	3:S1:180:THR:HG23	1.75	0.66
77:Q1:2:ARG:HG2	77:Q1:5:TRP:CD1	3.65	0.66
21:C9:63:ARG:HD2	21:C9:67:MET:HE1	1.78	0.66
6:S4:158:ASP:OD2	6:S4:174:LYS:NZ	2.29	0.66
36:5:3372:A:OP2	88:5:4242:OHX:N3	2.28	0.66
38:8:74:U:O2	88:8:221:OHX:N5	2.29	0.66
74:O8:46:ARG:NH1	74:O8:47:GLY:O	2.62	0.66
1:2:1041:G:OP1	88:2:2149:OHX:N5	2.29	0.66
36:1:2307:G:O2'	36:1:2310:U:OP2	2.11	0.66
20:C8:135:GLY:HA3	1:6:1559:A:H5''	366.36	0.66
51:M5:180:PHE:O	51:M5:184:LYS:HD2	3.43	0.66
56:N0:137:ARG:HG2	56:N0:139:TYR:CE1	2.31	0.66
1:2:657:U:O2	1:2:677:G:N2	2.29	0.66
43:L6:3:ALA:HB2	68:O2:77:ALA:HB2	2.07	0.66
36:1:3353:G:O2'	36:1:3356:G:OP2	2.13	0.66
10:S8:52:ASN:OD1	88:6:2132:OHX:N3	309.94	0.66
65:N9:14:ARG:HH12	65:N9:18:ARG:HH11	1.44	0.66
1:2:623:A:OP1	88:2:2157:OHX:N1	2.29	0.66
18:C6:66:ARG:HE	18:C6:68:ARG:HG2	4.88	0.66
54:M8:123:THR:OG1	54:M8:125:ASP:OD2	2.10	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.29	0.66
36:1:3115:C:O2'	36:1:3117:C:N4	2.29	0.66
79:Q3:58:SER:O	79:Q3:61:LYS:NZ	2.94	0.66
36:5:595:G:N1	36:5:609:G:H5''	2.10	0.66
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.76	0.66
36:5:1815:U:O2'	36:5:1816:A:OP2	2.13	0.66
36:1:2298:U:O4	36:1:2923:U:H5	1.78	0.66
1:2:520:A:H2'	1:2:521:A:C8	2.30	0.66
1:6:539:G:OP2	1:6:539:G:H8	1.78	0.66
47:M0:76:MET:HE3	47:M0:148:VAL:HA	1.76	0.66
1:2:1564:U:H2'	1:2:1565:C:C6	2.31	0.66
24:D2:10:ALA:HB1	24:D2:27:ILE:HD12	1.78	0.66
8:S6:173:PRO:HG3	1:6:66:U:H5	334.08	0.66
36:5:1654:A:H2'	36:5:1655:G:H5'	1.76	0.66
25:D3:97:ASP:O	25:D3:100:ASP:HB2	2.60	0.66
88:1:3968:OHX:N6	44:L7:217:PRO:O	2.28	0.66
62:N6:119:ILE:HG22	62:N6:124:GLY:HA3	3.12	0.66
36:5:1580:A:O2'	36:5:1581:C:OP2	2.14	0.66
36:1:3057:U:H5'	36:1:3086:A:H61	1.61	0.66
1:6:1756:A:H8	1:6:1756:A:O5'	1.77	0.66
19:C7:47:ARG:HB3	19:C7:47:ARG:HH11	3.98	0.66
1:2:365:G:N7	88:2:2106:OHX:N5	2.43	0.66
14:C2:119:SER:OG	1:6:1228:G:OP1	464.97	0.65
7:S5:161:ASP:O	30:D8:44:VAL:HA	1.96	0.65
26:D4:116:LYS:HE3	1:6:57:G:OP2	338.54	0.65
13:C1:57:LYS:HD3	13:C1:131:ILE:HG23	1.79	0.65
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.77	0.65
33:E1:86:THR:O	33:E1:87:THR:OG1	2.54	0.65
26:D4:10:ARG:HD2	1:6:778:G:O6	429.29	0.65
36:1:2948:C:O2'	40:L3:242:THR:HG22	1.96	0.65
36:5:1806:A:OP2	88:5:4027:OHX:N5	2.29	0.65
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.77	0.65
45:L8:101:THR:HG23	45:L8:104:GLU:H	1.62	0.65
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.48	0.65
36:1:3074:G:OP1	88:1:4051:OHX:N1	2.30	0.65
64:N8:74:ASN:HB2	64:N8:76:ASP:HB2	1.78	0.65
66:O0:75:ASN:HA	66:O0:86:ARG:HB2	3.58	0.65
36:1:1815:U:O2'	36:1:1816:A:OP2	2.15	0.65
1:2:347:G:OP1	13:C1:77:SER:OG	2.12	0.65
36:1:2775:U:H2'	36:1:2776:C:H6	1.61	0.65
11:S9:134:ILE:HA	11:S9:158:PHE:HA	1.78	0.65
40:L3:53:MET:HE2	40:L3:327:CYS:HB3	2.31	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:S1:133:TYR:CD2	3:S1:181:LEU:HD11	2.32	0.65
47:M0:12:GLN:HA	47:M0:59:GLN:HE21	4.65	0.65
9:S7:139:ARG:HD3	24:D2:53:ILE:HA	1.79	0.65
36:1:1035:G:H3'	36:1:1036:A:H8	1.61	0.65
1:6:1699:G:H22	1:6:1702:A:H5''	1.61	0.65
39:L2:178:PRO:HG2	79:Q3:26:VAL:HG23	1.79	0.65
36:5:3035:A:OP2	88:5:4054:OHX:N5	2.29	0.65
41:L4:10:SER:OG	41:L4:13:GLY:O	2.13	0.65
88:1:3881:OHX:N5	38:4:2:A:OP2	2.29	0.65
27:D5:42:LEU:HD22	27:D5:47:TYR:HB2	6.11	0.65
1:2:1533:C:H4'	1:2:1539:G:N1	2.11	0.65
36:1:1567:U:O2	36:1:1571:A:N6	2.26	0.65
34:SR:16:HIS:CE1	34:SR:43:ILE:HG12	2.30	0.65
47:M0:38:LYS:HG2	47:M0:41:ALA:HB2	1.81	0.65
11:S9:45:ILE:HG22	11:S9:101:VAL:HG12	3.24	0.65
75:O9:21:ARG:HH11	75:O9:21:ARG:HB2	2.95	0.65
1:2:218:A:O2'	1:2:219:A:OP1	2.13	0.65
36:1:1495:U:H5	36:1:1835:A:N1	1.94	0.65
41:L4:326:ARG:O	44:L7:41:ARG:NH2	3.28	0.65
44:L7:157:ASN:O	44:L7:159:GLN:N	2.92	0.65
36:1:2108:C:O2'	36:1:3362:A:N6	2.29	0.65
28:D6:10:ARG:NE	1:6:1795:U:O2	328.13	0.65
53:M7:69:ARG:HG3	53:M7:79:THR:HG23	6.44	0.65
27:D5:41:ILE:HG13	27:D5:42:LEU:HG	1.78	0.65
36:1:1348:U:O2	36:1:1349:G:N2	2.28	0.65
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.29	0.65
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.59	0.65
36:1:3148:U:O4	88:1:4122:OHX:N2	2.28	0.65
56:N0:26:ARG:HH11	57:N1:150:THR:HG21	2.52	0.65
39:L2:200:ARG:NH1	36:5:2146:C:OP1	212.96	0.65
36:1:2960:C:H2'	36:1:2961:G:H8	1.62	0.65
11:S9:171:ARG:HE	11:S9:174:ARG:HB2	4.49	0.65
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	2.17	0.65
1:6:235:G:H2'	1:6:236:A:H8	1.61	0.65
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.61	0.65
3:S1:62:LYS:O	3:S1:64:ARG:N	2.29	0.65
36:5:2407:C:H2'	36:5:2408:U:C6	2.32	0.65
36:1:155:G:H5''	36:1:156:G:C8	2.32	0.65
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.76	0.65
46:L9:57:VAL:HG23	46:L9:68:LEU:HG	2.44	0.65
46:L9:166:ARG:HH21	46:L9:168:ARG:HH12	12.45	0.65
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	1.79	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1565:G:N1	36:5:1574:C:N3	2.45	0.65
63:N7:21:LYS:HD3	63:N7:47:GLU:HA	1.78	0.65
36:5:3274:A:H3'	36:5:3275:U:C5'	2.23	0.65
40:L3:150:ARG:HG2	40:L3:150:ARG:HH11	1.93	0.65
30:D8:27:GLN:OE1	30:D8:64:ARG:NH2	2.30	0.65
36:1:2254:U:H2'	36:1:2261:G:N2	2.12	0.65
51:M5:172:ARG:HD2	36:5:30:G:O5'	111.13	0.65
1:2:1428:G:H5'	1:2:1428:G:H8	1.62	0.65
50:M4:124:ARG:NH2	36:5:3212:C:OP2	290.04	0.65
42:L5:64:ILE:HG13	42:L5:109:THR:HG21	2.95	0.65
50:M4:113:THR:HG22	50:M4:115:PHE:H	1.62	0.65
28:D6:10:ARG:NE	1:6:1797:A:OP2	330.88	0.65
73:O7:55:ARG:NH2	36:5:347:G:N7	109.45	0.65
7:S5:64:VAL:HG13	7:S5:89:ILE:HD11	3.61	0.65
7:S5:109:LYS:HE2	27:D5:97:LYS:HE2	5.96	0.65
65:N9:16:ALA:O	65:N9:20:GLY:HA3	4.19	0.65
10:S8:142:LYS:NZ	1:6:187:G:OP2	273.28	0.65
36:1:1286:A:O2'	36:1:1287:A:OP2	2.14	0.65
18:C6:82:ARG:HH22	18:C6:114:ARG:HB3	1.60	0.65
19:C7:67:ARG:HH22	1:6:1398:U:HO2'	405.45	0.65
66:O0:28:LYS:HB2	36:5:1730:G:N7	239.24	0.65
36:5:1952:G:H1	36:5:2094:C:H42	1.44	0.65
1:6:550:A:OP2	88:6:2047:OHX:N2	2.30	0.65
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	1.60	0.65
74:O8:11:PHE:HD1	74:O8:12:LEU:HD22	2.58	0.65
30:D8:52:ASP:OD1	30:D8:52:ASP:N	2.28	0.65
54:M8:178:ARG:HD3	64:N8:50:PRO:HB2	4.11	0.65
1:2:337:G:H3'	13:C1:133:LYS:HB2	1.79	0.65
4:S2:109:GLY:HA2	4:S2:139:ILE:HG22	4.11	0.65
39:L2:209:HIS:CD2	39:L2:211:HIS:H	2.15	0.65
1:2:1234:A:O2'	1:2:1235:C:O5'	2.13	0.65
51:M5:125:SER:HB3	36:5:2433:U:H1'	161.43	0.65
36:1:1064:A:H4'	36:1:1065:A:O5'	1.97	0.64
1:2:197:A:H61	10:S8:138:ASN:ND2	1.94	0.64
27:D5:58:ARG:HB3	27:D5:103:ARG:HH11	7.91	0.64
1:2:1518:C:OP1	88:2:2121:OHX:N5	2.30	0.64
36:1:2402:A:OP2	88:1:4101:OHX:N6	2.30	0.64
29:D7:37:CYS:O	29:D7:39:GLY:N	2.36	0.64
55:M9:20:ARG:HG3	36:5:1875:G:OP2	137.96	0.64
40:L3:120:LYS:NZ	36:5:3001:C:OP1	205.84	0.64
6:S4:100:ARG:NH2	6:S4:121:TYR:O	2.38	0.64
53:M7:129:THR:HG22	53:M7:139:TYR:HB2	1.78	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.79	0.64
36:5:3164:C:H42	36:5:3286:G:H1	1.45	0.64
48:M1:143:ARG:NH2	37:7:5:G:OP1	292.01	0.64
36:1:2572:C:O2'	36:1:2573:G:O4'	2.15	0.64
9:S7:31:SER:HB2	9:S7:32:PRO:HD3	1.79	0.64
36:1:562:C:H2'	36:1:563:U:H6	1.63	0.64
1:2:1034:C:OP1	15:C3:9:LYS:NZ	2.29	0.64
43:L6:149:ILE:HG23	43:L6:155:LEU:HD13	2.29	0.64
20:C8:33:THR:HA	20:C8:38:VAL:HG23	2.14	0.64
36:5:2947:G:OP2	36:5:2947:G:H4'	1.98	0.64
22:D0:28:SER:OG	22:D0:111:GLY:O	2.74	0.64
10:S8:2:GLY:N	1:6:393:C:OP2	291.76	0.64
37:7:112:G:OP2	88:7:220:OHX:N2	2.30	0.64
36:1:1374:G:O6	64:N8:10:LYS:NZ	2.31	0.64
70:O4:74:ARG:HG2	70:O4:75:ALA:N	2.11	0.64
1:2:933:A:OP2	28:D6:37:LYS:NZ	2.24	0.64
53:M7:25:SER:HB3	53:M7:28:ASN:HB2	2.38	0.64
51:M5:68:ARG:HG2	51:M5:68:ARG:HH11	1.62	0.64
36:5:23:A:OP1	88:5:3909:OHX:N4	2.31	0.64
46:L9:163:GLN:O	46:L9:166:ARG:HD2	1.97	0.64
68:O2:123:LYS:HA	68:O2:126:LEU:HG	2.09	0.64
9:S7:122:HIS:HA	9:S7:125:ILE:HD12	1.92	0.64
36:1:2244:A:H5''	39:L2:243:THR:OG1	1.96	0.64
26:D4:44:LEU:HA	26:D4:47:VAL:HG22	4.27	0.64
44:L7:143:THR:HG22	44:L7:241:LYS:HE3	1.79	0.64
34:SR:16:HIS:CE1	34:SR:37:SER:HB2	2.33	0.64
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.61	0.64
48:M1:137:ARG:HG2	37:7:28:C:H5''	307.13	0.64
1:6:235:G:H2'	1:6:236:A:C8	2.33	0.64
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.79	0.64
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.79	0.64
36:5:3121:U:H1'	36:5:3122:A:H5''	1.78	0.64
36:5:549:U:O4	88:5:4016:OHX:N4	2.30	0.64
20:C8:145:ARG:HB3	35:SM:68:ARG:HH12	3.73	0.64
33:E1:87:THR:O	1:6:1445:G:N1	378.51	0.64
36:1:2746:A:C6	42:L5:148:ILE:HD12	2.32	0.64
36:1:2592:G:H4'	36:1:2594:C:C2	2.32	0.64
4:S2:174:ARG:O	11:S9:53:ARG:NH2	2.27	0.64
2:S0:9:LEU:HD11	2:S0:14:ALA:HB2	2.18	0.64
13:C1:6:THR:O	13:C1:8:GLN:N	2.31	0.64
36:5:1561:G:O2'	36:5:1562:C:OP2	2.14	0.64
42:L5:40:HIS:CD2	42:L5:42:ALA:HB3	2.33	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1061:A:H2'	1:2:1062:A:H5'	1.79	0.64
48:M1:141:ARG:O	48:M1:145:LYS:HE2	3.27	0.64
19:C7:88:VAL:HG22	19:C7:89:SER:O	4.27	0.64
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.79	0.64
13:C1:124:THR:O	13:C1:140:VAL:HG12	1.96	0.64
72:O6:28:TYR:OH	36:5:315:C:OP2	97.95	0.64
52:M6:60:LYS:HD3	36:5:1307:G:H5''	248.67	0.64
36:1:2674:A:H5''	48:M1:105:GLY:HA3	1.79	0.64
55:M9:182:ASP:O	55:M9:184:LEU:N	3.58	0.64
57:N1:17:ARG:HG2	57:N1:17:ARG:HH11	3.77	0.64
36:1:1078:U:O4	88:1:3976:OHX:N2	2.30	0.64
1:2:1067:C:H5''	3:S1:150:VAL:HG23	1.79	0.64
3:S1:169:SER:O	3:S1:173:THR:HG23	2.58	0.64
36:5:1329:U:H4'	36:5:1330:A:OP1	1.97	0.64
25:D3:126:LYS:HA	25:D3:131:SER:HA	2.75	0.64
36:1:2193:U:H5'	36:1:2194:G:H5'	1.78	0.64
36:1:118:U:O2	36:1:121:A:H5'	1.97	0.64
9:S7:99:LEU:HD12	9:S7:116:ARG:HG2	1.80	0.64
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.79	0.64
36:1:1813:A:OP1	36:1:1817:G:O2'	2.16	0.64
49:M3:103:ASN:OD1	49:M3:103:ASN:N	3.39	0.64
1:6:484:C:H42	1:6:503:G:H1	1.46	0.64
1:2:1450:U:H2'	1:2:1451:C:C6	2.33	0.64
3:S1:61:LEU:O	3:S1:62:LYS:NZ	2.27	0.64
1:6:197:A:H2'	1:6:198:A:C8	2.32	0.64
36:1:2775:U:H2'	36:1:2776:C:C6	2.33	0.64
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	2.38	0.64
49:M3:55:ARG:O	49:M3:115:ARG:NH2	3.43	0.64
61:N5:58:ASP:O	61:N5:62:VAL:HG23	2.35	0.64
36:1:873:C:H5''	36:1:874:U:O5'	1.98	0.64
66:O0:102:THR:OG1	66:O0:102:THR:O	2.16	0.64
1:2:799:A:H5''	6:S4:201:HIS:CD2	2.33	0.64
24:D2:73:GLY:O	24:D2:127:GLY:HA3	1.98	0.64
44:L7:134:VAL:O	44:L7:229:PHE:HA	2.76	0.64
45:L8:90:THR:HA	45:L8:214:LEU:HD21	1.79	0.64
11:S9:57:ARG:HG3	11:S9:97:LEU:HD21	1.79	0.64
33:E1:88:PRO:HB2	33:E1:89:LYS:HD3	6.45	0.64
36:1:1823:A:H2'	36:1:1824:U:H6	1.63	0.64
36:5:2227:C:H2'	36:5:2228:A:H5''	1.80	0.64
34:SR:164:ASP:O	34:SR:166:SER:N	2.69	0.64
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.31	0.64
10:S8:8:ARG:NH2	10:S8:21:PHE:H	1.96	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1752:A:OP2	88:1:4060:OHX:N3	2.31	0.64
22:D0:58:LEU:HD12	22:D0:88:LYS:HB3	1.80	0.64
26:D4:94:TYR:HB2	26:D4:96:LEU:HG	2.75	0.64
47:M0:85:PHE:HA	47:M0:140:THR:HG22	1.79	0.64
1:2:702:G:O2'	1:2:703:G:O4'	2.16	0.64
1:2:1229:G:HO2'	1:2:1255:G:H1	1.44	0.64
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.63	0.64
39:L2:204:MET:HE3	39:L2:209:HIS:HB2	1.79	0.64
36:1:716:A:C5	64:N8:117:ARG:HD3	2.33	0.64
62:N6:32:SER:HA	62:N6:49:PRO:HA	2.06	0.64
45:L8:121:SER:O	45:L8:123:GLN:N	2.94	0.64
44:L7:222:HIS:CE1	44:L7:224:ILE:HG13	2.33	0.64
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH2	2.31	0.64
37:7:86:U:O2	88:7:218:OHX:N4	2.31	0.64
77:Q1:22:ALA:HA	77:Q1:25:LYS:HG3	1.80	0.64
1:6:263:C:H4'	1:6:292:U:H5'	1.80	0.64
18:C6:46:PHE:O	18:C6:50:GLU:HG3	1.98	0.63
18:C6:82:ARG:NH1	18:C6:114:ARG:O	3.09	0.63
7:S5:120:ILE:HG12	27:D5:100:ILE:HD11	1.80	0.63
1:2:397:A:O3'	10:S8:50:GLY:HA2	1.98	0.63
62:N6:3:LYS:NZ	62:N6:5:SER:O	3.32	0.63
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	1.79	0.63
62:N6:113:LYS:HB2	38:8:84:C:H1'	20.07	0.63
72:O6:74:LYS:HD2	72:O6:80:PHE:HD2	1.62	0.63
20:C8:88:ARG:NH1	20:C8:112:ASP:OD2	3.31	0.63
4:S2:147:ASN:O	4:S2:147:ASN:ND2	4.83	0.63
1:2:1649:G:N7	88:2:2051:OHX:N1	2.45	0.63
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	1.79	0.63
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	2.90	0.63
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.33	0.63
36:5:155:G:H5'	36:5:156:G:C8	2.33	0.63
36:1:1308:A:C8	36:1:1308:A:OP2	2.51	0.63
1:6:67:A:O2'	1:6:69:G:OP1	2.07	0.63
40:L3:2:SER:N	36:5:2940:A:N7	238.10	0.63
39:L2:209:HIS:HD2	39:L2:211:HIS:H	1.44	0.63
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.40	0.63
14:C2:81:ASP:O	14:C2:83:GLU:N	2.84	0.63
36:5:1778:G:O2'	36:5:1780:G:OP2	2.16	0.63
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.62	0.63
49:M3:175:SER:O	49:M3:178:LYS:N	2.32	0.63
63:N7:115:LYS:NZ	63:N7:119:GLU:OE2	2.31	0.63
1:2:886:U:O2'	16:C4:121:VAL:O	2.15	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:C6:143:ARG:HH22	35:SM:84:LYS:HZ3	1.46	0.63
36:5:223:U:O4	88:5:4249:OHX:N4	2.32	0.63
1:2:911:U:O2'	1:2:915:A:H1'	1.97	0.63
36:1:1276:U:OP1	88:1:4098:OHX:N4	2.31	0.63
1:2:1572:G:H1'	7:S5:185:ARG:HH12	1.63	0.63
25:D3:70:LYS:HB3	25:D3:93:LEU:HD22	1.79	0.63
19:C7:20:TYR:CD1	19:C7:38:ILE:HD11	2.32	0.63
41:L4:193:LYS:NZ	38:8:21:C:OP1	109.10	0.63
10:S8:48:THR:HG21	10:S8:54:LYS:HB2	1.81	0.63
6:S4:49:ARG:HG3	6:S4:50:ASN:N	3.78	0.63
1:6:417:A:H4'	1:6:418:G:O5'	1.97	0.63
36:1:2818:U:C6	36:1:2818:U:H5'	2.32	0.63
10:S8:138:ASN:HA	10:S8:141:ARG:HD3	3.45	0.63
36:1:2992:U:H1'	53:M7:69:ARG:NH2	2.13	0.63
36:1:434:U:O4	88:1:4178:OHX:N5	2.32	0.63
36:1:3043:C:OP2	59:N3:48:ARG:NH2	2.31	0.63
36:5:2569:A:H4'	36:5:2570:U:H5'	1.80	0.63
6:S4:241:GLY:O	6:S4:243:GLY:N	2.91	0.63
72:O6:79:SER:HB3	72:O6:82:ARG:HG3	4.79	0.63
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.28	0.63
49:M3:157:ARG:HG2	49:M3:158:ALA:N	2.13	0.63
36:5:1717:U:H2'	36:5:1718:G:C8	2.34	0.63
48:M1:10:ARG:NH2	48:M1:151:SER:O	2.31	0.63
59:N3:33:ASN:HD21	59:N3:63:LYS:H	1.45	0.63
1:6:1767:G:OP1	1:6:1770:U:H4'	1.97	0.63
1:6:383:G:N7	88:6:2145:OHX:N5	2.46	0.63
13:C1:139:VAL:HG12	13:C1:140:VAL:H	1.64	0.63
44:L7:138:TYR:O	44:L7:237:ASN:ND2	2.30	0.63
5:S3:206:VAL:HG22	19:C7:41:ILE:HG12	1.80	0.63
47:M0:12:GLN:HA	47:M0:59:GLN:NE2	4.03	0.63
3:S1:34:ALA:N	3:S1:41:ARG:O	2.30	0.63
17:C5:34:VAL:HG21	17:C5:45:PHE:HB2	1.80	0.63
72:O6:57:LEU:HD11	72:O6:73:ALA:HB2	2.32	0.63
1:6:1699:G:C2	1:6:1701:A:H5''	2.33	0.63
52:M6:79:ILE:HG21	52:M6:138:LEU:HD11	2.45	0.63
51:M5:12:ARG:HG2	36:5:268:A:C4	127.99	0.63
1:6:1350:U:H2'	1:6:1351:G:C8	2.33	0.63
1:6:470:A:H8	1:6:470:A:H5''	1.63	0.63
41:L4:126:ILE:HD11	41:L4:233:LEU:HD13	2.03	0.63
1:2:209:U:H2'	1:2:210:A:C8	2.34	0.63
66:O0:98:SER:OG	66:O0:99:ASP:N	2.27	0.63
39:L2:70:ARG:HH22	36:5:2522:G:H1	173.50	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1236:G:N2	36:5:1244:A:OP1	2.32	0.63
18:C6:128:LYS:HE3	1:6:1417:A:O3'	394.06	0.63
53:M7:31:GLU:HG3	53:M7:60:PHE:HA	3.21	0.63
34:SR:161:LYS:HE3	34:SR:164:ASP:HB3	1.81	0.63
52:M6:85:ARG:HD3	52:M6:90:HIS:CG	3.07	0.63
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.32	0.63
55:M9:62:ARG:NH2	36:5:3068:U:OP2	172.63	0.63
1:6:800:U:H2'	1:6:801:G:H8	1.64	0.63
11:S9:123:HIS:HB3	32:E0:33:ARG:HH21	2.77	0.63
1:2:542:A:C8	1:2:543:C:H3'	2.34	0.63
42:L5:52:VAL:HA	42:L5:147:ASP:HB3	2.13	0.63
60:N4:4:GLU:HG2	60:N4:30:ARG:HD3	1.81	0.63
49:M3:50:PRO:O	49:M3:52:ASP:N	3.24	0.63
1:2:1585:U:N3	1:2:1611:A:H2	1.95	0.63
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.63	0.63
21:C9:137:ALA:O	21:C9:141:GLU:HG2	1.99	0.63
19:C7:25:THR:OG1	19:C7:26:LEU:N	3.98	0.63
39:L2:40:TYR:HA	39:L2:91:GLY:HA3	1.80	0.63
16:C4:132:ARG:HB2	1:6:1787:C:OP2	292.16	0.63
20:C8:114:GLU:HA	20:C8:117:LYS:HD2	1.81	0.63
36:1:1229:G:H1	36:1:1280:C:H42	1.47	0.63
78:Q2:12:CYS:SG	78:Q2:17:CYS:CB	3.00	0.63
10:S8:106:ALA:HB2	10:S8:165:LEU:HG	2.08	0.63
36:1:1940:G:H21	36:1:3362:A:H8	1.45	0.63
47:M0:86:HIS:HB3	47:M0:139:ARG:CG	2.68	0.63
15:C3:61:THR:OG1	15:C3:62:GLN:N	2.52	0.63
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.28	0.63
36:1:1724:U:H1'	36:1:1725:C:C6	2.33	0.63
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.34	0.63
1:2:1528:U:OP1	7:S5:109:LYS:HG2	1.99	0.63
36:1:2255:A:OP1	88:1:3942:OHX:N3	2.32	0.63
54:M8:38:ARG:NH2	36:5:1348:U:OP2	188.56	0.63
1:2:1623:C:H2'	1:2:1624:C:C6	2.33	0.63
36:1:975:C:H2'	36:1:976:U:C6	2.34	0.63
29:D7:31:TYR:OH	29:D7:70:LYS:NZ	3.10	0.63
36:5:1895:A:O2'	36:5:3053:G:H4'	1.98	0.63
5:S3:125:TYR:O	5:S3:129:SER:OG	3.19	0.63
36:5:2996:U:OP1	36:5:2996:U:H4'	1.97	0.63
52:M6:37:ARG:HG3	52:M6:108:ILE:HG22	5.87	0.62
36:1:662:U:OP1	64:N8:8:THR:HG21	1.99	0.62
10:S8:61:GLU:HG2	10:S8:62:THR:HG23	3.10	0.62
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.52	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:3164:C:H1'	36:1:3165:A:H5'	1.80	0.62
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.80	0.62
36:5:2586:G:O2'	36:5:2588:U:OP1	2.17	0.62
1:6:1603:U:H2'	1:6:1604:U:H6	1.64	0.62
72:O6:97:SER:O	72:O6:99:ARG:N	2.32	0.62
67:O1:24:SER:HB2	67:O1:27:LYS:HG3	1.81	0.62
17:C5:122:THR:HG22	17:C5:123:TYR:HD1	5.60	0.62
39:L2:80:GLU:HG3	79:Q3:66:GLY:HA2	1.81	0.62
4:S2:134:LEU:O	4:S2:136:VAL:N	2.32	0.62
36:5:2436:U:H2'	36:5:2437:G:H5''	1.80	0.62
36:5:2836:C:H5	36:5:2852:C:N4	1.94	0.62
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.80	0.62
55:M9:148:ASP:OD1	55:M9:151:ARG:NH2	2.31	0.62
27:D5:61:SER:H	27:D5:64:VAL:HB	1.63	0.62
21:C9:84:LYS:NZ	1:6:1563:C:OP1	379.24	0.62
1:2:778:G:H22	26:D4:10:ARG:HH22	1.47	0.62
2:S0:200:ASP:HB2	19:C7:85:VAL:HG22	1.81	0.62
1:6:717:C:O2'	1:6:718:U:OP1	2.16	0.62
38:4:23:U:OP1	62:N6:16:ARG:NH2	2.32	0.62
1:2:398:G:P	10:S8:47:ARG:HH12	2.21	0.62
1:2:499:U:O2'	1:2:500:C:OP1	2.17	0.62
1:6:711:U:H5'	1:6:712:G:OP2	1.98	0.62
37:3:106:U:H2'	37:3:107:C:C6	2.34	0.62
70:O4:9:ARG:HG2	70:O4:34:HIS:CE1	5.34	0.62
36:1:634:C:O2'	68:O2:47:ARG:HD3	1.99	0.62
10:S8:62:THR:HA	10:S8:76:THR:O	2.47	0.62
17:C5:18:ARG:NH2	17:C5:38:PRO:HG3	3.56	0.62
1:6:190:C:N4	1:6:196:G:O6	2.33	0.62
41:L4:156:LEU:HD23	41:L4:159:ILE:HD12	1.80	0.62
36:1:1080:A:OP2	42:L5:140:ARG:NH2	2.32	0.62
41:L4:185:LYS:HD2	41:L4:201:GLN:HB3	1.82	0.62
46:L9:41:ILE:HD11	46:L9:67:ALA:HB1	1.81	0.62
36:5:90:C:H2'	36:5:91:G:H5'	1.79	0.62
40:L3:187:SER:HB3	40:L3:190:GLU:OE1	2.95	0.62
36:1:2503:G:H1'	36:1:2504:U:C5	2.34	0.62
53:M7:29:THR:HG22	53:M7:87:SER:OG	1.99	0.62
44:L7:151:ARG:HD2	44:L7:244:ASN:ND2	2.14	0.62
20:C8:91:ASP:HB3	20:C8:95:GLY:H	2.17	0.62
17:C5:126:VAL:O	17:C5:127:ARG:HB2	2.43	0.62
1:2:1562:G:OP1	21:C9:89:ARG:NH2	2.27	0.62
1:2:542:A:H8	1:2:543:C:H5'	1.63	0.62
67:O1:55:LEU:HB2	67:O1:95:PRO:HD3	1.89	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.34	0.62
36:5:2841:G:OP2	88:5:4142:OHX:N1	2.32	0.62
39:L2:105:GLY:HA3	39:L2:160:SER:HB3	3.22	0.62
36:5:1818:U:H2'	36:5:1819:U:H6	1.63	0.62
36:1:2150:G:H4'	79:Q3:22:LEU:HD21	1.80	0.62
36:1:1278:A:O2'	36:1:1279:C:O5'	2.16	0.62
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	1.82	0.62
15:C3:67:THR:O	15:C3:69:ASN:N	2.29	0.62
1:2:1041:G:H2'	1:2:1042:G:C8	2.34	0.62
17:C5:122:THR:HG21	1:6:1455:G:OP1	369.77	0.62
69:O3:72:THR:HG23	69:O3:83:ALA:HA	1.80	0.62
1:6:250:C:H6	1:6:250:C:H5'	1.65	0.62
15:C3:34:ILE:O	15:C3:38:VAL:HG23	1.99	0.62
36:1:3243:A:H4'	40:L3:95:THR:HG22	1.81	0.62
17:C5:19:GLY:N	20:C8:93:THR:O	2.32	0.62
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	2.15	0.62
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.11	0.62
58:N2:59:ASP:O	58:N2:61:THR:N	2.32	0.62
33:E1:135:HIS:ND1	33:E1:138:ARG:HD2	2.14	0.62
1:2:1002:G:H2'	1:2:1003:A:H5'	1.81	0.62
1:6:1130:G:OP2	88:6:2110:OHX:N1	2.32	0.62
1:2:862:A:N7	15:C3:64:ARG:NH2	2.45	0.62
36:1:410:U:O4	88:1:4069:OHX:N2	2.33	0.62
57:N1:78:LYS:HE3	36:5:2728:G:O6	219.37	0.62
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.47	0.62
44:L7:50:ALA:O	44:L7:53:LYS:N	2.32	0.62
36:1:1363:A:OP2	88:1:4057:OHX:N6	2.33	0.62
62:N6:38:GLU:HG3	62:N6:39:LEU:HD23	1.82	0.62
41:L4:226:GLU:OE2	41:L4:246:ARG:NH2	2.33	0.62
18:C6:40:GLU:HG3	18:C6:42:GLU:H	1.65	0.62
39:L2:128:ARG:NH1	36:5:2177:G:OP2	198.40	0.62
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.80	0.62
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.32	0.62
53:M7:50:GLN:OE1	53:M7:56:ARG:NH2	2.63	0.62
62:N6:10:SER:N	36:5:336:A:OP1	79.36	0.62
46:L9:4:ILE:HD11	56:N0:148:LEU:HD21	3.51	0.62
20:C8:26:ILE:HD11	20:C8:31:ALA:HA	2.85	0.62
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	2.04	0.62
13:C1:95:PRO:O	13:C1:98:ASN:N	2.33	0.62
2:S0:55:GLU:HG2	23:D1:79:LEU:HD22	2.55	0.62
27:D5:59:TYR:HE1	27:D5:100:ILE:HG23	6.87	0.62
36:1:2314:U:O4	88:1:3890:OHX:N5	2.32	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:C8:57:ARG:HB2	20:C8:59:GLY:H	1.65	0.62
36:1:621:A:O2'	88:1:4178:OHX:N3	2.32	0.62
53:M7:62:ARG:NH1	36:5:412:G:OP1	159.26	0.62
1:6:1315:U:OP1	1:6:1328:G:N2	2.29	0.62
1:6:357:G:OP2	88:6:2072:OHX:N6	2.33	0.62
36:5:3227:A:H2'	36:5:3228:C:H5'	1.81	0.62
8:S6:87:ARG:NH2	1:6:161:U:OP2	315.01	0.62
1:2:839:U:H2'	1:2:840:U:H5'	1.81	0.62
75:O9:45:ARG:NH2	36:5:1841:A:N3	126.25	0.62
36:1:1727:G:OP1	79:Q3:44:LYS:NZ	2.31	0.62
18:C6:6:SER:HB2	18:C6:23:LYS:HB3	3.77	0.62
30:D8:26:THR:HB	30:D8:44:VAL:HG13	1.82	0.62
48:M1:106:ILE:CD1	48:M1:125:MET:HG2	5.35	0.62
10:S8:188:GLU:OE2	13:C1:15:LYS:NZ	2.33	0.62
49:M3:153:ASP:OD1	49:M3:157:ARG:NH2	2.67	0.62
45:L8:67:ILE:HG23	45:L8:237:ILE:HD13	3.64	0.62
1:6:1239:U:O4	88:6:2094:OHX:N1	2.33	0.62
75:O9:23:LEU:HD23	75:O9:24:PRO:HD2	1.82	0.62
36:1:2120:A:OP2	88:1:4020:OHX:N2	2.32	0.62
45:L8:95:ASN:OD1	45:L8:98:ARG:NH1	4.46	0.62
36:1:2677:G:H2'	36:1:2679:A:H2	1.65	0.62
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.14	0.62
18:C6:6:SER:HB3	18:C6:23:LYS:HA	1.81	0.62
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.82	0.62
2:S0:41:ARG:HB3	2:S0:45:VAL:HG23	4.26	0.62
63:N7:48:ARG:HB3	63:N7:69:LYS:HB3	1.81	0.62
4:S2:45:VAL:HG21	4:S2:68:ILE:HG23	2.40	0.62
36:1:1752:A:OP2	88:1:4060:OHX:N5	2.33	0.62
64:N8:47:LYS:O	64:N8:49:HIS:N	2.90	0.62
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	1.82	0.62
1:6:1042:G:N2	1:6:1077:C:O2	2.32	0.62
18:C6:39:VAL:HG12	18:C6:41:PRO:HD2	5.33	0.62
1:6:138:A:H2'	1:6:139:C:H5'	1.82	0.62
16:C4:24:ASN:HA	16:C4:55:SER:HB3	2.93	0.62
16:C4:54:GLU:OE1	1:6:901:G:N2	282.15	0.61
36:1:1412:G:OP1	68:O2:105:ARG:NH2	2.33	0.61
11:S9:92:LYS:HB2	11:S9:95:TYR:HD2	7.64	0.61
2:S0:184:LEU:O	2:S0:186:GLY:N	2.32	0.61
16:C4:88:GLY:H	16:C4:120:PRO:HG2	1.64	0.61
1:6:1413:U:H4'	1:6:1414:U:OP2	2.00	0.61
46:L9:101:VAL:HG22	46:L9:114:VAL:HG22	2.67	0.61
36:1:1826:C:H2'	36:1:1827:C:H6	1.64	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:N2:104:ARG:HH11	58:N2:106:ALA:HB2	4.75	0.61
1:6:489:C:O2'	1:6:490:C:O4'	2.18	0.61
32:E0:50:VAL:HA	32:E0:54:ARG:HA	3.56	0.61
36:5:1661:G:H2'	36:5:1662:G:C8	2.35	0.61
1:6:565:C:O2	88:6:2155:OHX:N2	2.33	0.61
71:O5:85:THR:HB	71:O5:88:LEU:HB2	1.82	0.61
40:L3:286:GLY:HA3	40:L3:321:PHE:CE2	2.35	0.61
22:D0:71:PRO:HB3	31:D9:41:GLN:HG2	2.84	0.61
56:N0:167:ARG:HG3	56:N0:168:PRO:HD2	1.82	0.61
13:C1:72:THR:HA	13:C1:124:THR:HA	1.80	0.61
1:2:1290:U:H2'	1:2:1291:G:C8	2.35	0.61
6:S4:129:VAL:HB	6:S4:139:VAL:HG12	1.82	0.61
26:D4:29:HIS:HB3	26:D4:32:ARG:HB2	6.01	0.61
36:1:2960:C:OP1	88:1:4013:OHX:N4	2.33	0.61
42:L5:40:HIS:CE1	57:N1:69:LYS:HA	2.74	0.61
1:6:1603:U:H2'	1:6:1604:U:C6	2.35	0.61
26:D4:35:VAL:HG13	26:D4:36:SER:H	1.64	0.61
9:S7:16:LEU:HA	9:S7:19:GLN:HG3	1.82	0.61
36:1:3192:U:H2'	36:1:3193:C:H6	1.62	0.61
38:8:130:C:H2'	38:8:131:A:C8	2.35	0.61
1:2:1160:A:H2'	1:2:1161:C:C6	2.35	0.61
13:C1:83:THR:HG21	1:6:325:G:H4'	289.11	0.61
28:D6:10:ARG:NH2	28:D6:34:LYS:O	5.03	0.61
59:N3:13:ILE:HG12	59:N3:53:SER:HB2	4.20	0.61
57:N1:78:LYS:HB3	57:N1:87:LYS:HG3	1.81	0.61
49:M3:39:ARG:NH1	36:5:107:A:OP1	74.26	0.61
45:L8:195:SER:O	45:L8:197:VAL:N	2.33	0.61
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.63	0.61
11:S9:159:ALA:HB3	11:S9:162:SER:HB3	3.83	0.61
24:D2:76:SER:OG	24:D2:77:PRO:HD3	2.01	0.61
20:C8:41:ARG:HD3	1:6:1565:C:OP1	369.50	0.61
8:S6:137:ARG:NH1	1:6:144:U:H5	312.63	0.61
36:1:1240:A:H3'	36:1:1241:U:H5'	1.82	0.61
39:L2:3:ARG:HD3	36:5:911:C:H42	179.53	0.61
1:2:647:G:H22	1:2:687:G:N2	1.98	0.61
48:M1:10:ARG:HB2	48:M1:133:ARG:HD3	2.61	0.61
6:S4:182:TYR:HB2	6:S4:228:ILE:HD13	1.81	0.61
55:M9:175:GLN:O	55:M9:179:GLU:N	2.33	0.61
53:M7:108:ASP:N	53:M7:152:GLU:OE2	2.79	0.61
38:8:155:A:H2'	38:8:156:U:O4'	2.00	0.61
36:5:3178:A:H5''	36:5:3179:U:OP1	2.01	0.61
3:S1:154:SER:OG	3:S1:154:SER:O	2.10	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:280:U:O2'	1:2:281:G:OP2	2.14	0.61
1:6:73:U:H2'	1:6:74:U:C6	2.35	0.61
36:1:561:C:H2'	36:1:562:C:C6	2.35	0.61
3:S1:77:GLU:O	3:S1:79:HIS:N	2.32	0.61
2:S0:179:ARG:HD3	2:S0:183:ARG:NE	3.45	0.61
57:N1:105:PHE:O	57:N1:109:VAL:HG23	2.16	0.61
73:O7:28:HIS:CD2	73:O7:31:LYS:HG3	3.41	0.61
36:1:3060:C:OP1	88:1:4051:OHX:N4	2.34	0.61
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.21	0.61
2:S0:200:ASP:HA	2:S0:203:PHE:CE1	2.35	0.61
1:6:542:A:C8	1:6:543:C:H2'	2.36	0.61
20:C8:56:LYS:HD2	20:C8:61:LEU:HD23	3.64	0.61
1:2:1657:U:H4'	1:2:1658:G:O5'	1.99	0.61
7:S5:129:PRO:O	7:S5:133:VAL:HG23	2.01	0.61
40:L3:92:TYR:HB2	40:L3:157:VAL:HG22	2.29	0.61
46:L9:117:PHE:CE1	46:L9:165:CYS:HB3	2.53	0.61
36:5:177:U:OP2	88:5:4020:OHX:N6	2.34	0.61
36:5:543:C:H42	36:5:548:G:H1	1.48	0.61
1:2:1006:C:O2	88:2:2145:OHX:N2	2.33	0.61
58:N2:76:LEU:O	58:N2:80:THR:HG23	2.01	0.61
25:D3:59:ILE:HD13	32:E0:4:VAL:HG13	1.81	0.61
57:N1:92:ARG:NH1	36:5:2736:A:OP1	235.94	0.61
47:M0:68:ALA:HB2	47:M0:158:LYS:HB2	2.16	0.61
56:N0:155:ARG:NH1	36:5:3206:C:O2	310.88	0.61
19:C7:6:THR:OG1	19:C7:8:THR:HG23	4.55	0.61
37:7:77:G:N2	37:7:102:A:OP2	2.30	0.61
27:D5:47:TYR:CZ	27:D5:51:LEU:HD11	3.08	0.61
48:M1:59:ILE:HD12	48:M1:65:ILE:HD11	2.63	0.61
40:L3:171:LEU:O	88:L3:405:OHX:N6	2.33	0.61
36:1:1688:U:H2'	36:1:1689:U:C6	2.35	0.61
34:SR:111:MET:N	34:SR:125:GLY:O	3.10	0.61
38:4:137:C:OP2	88:4:229:OHX:N5	2.34	0.61
73:O7:25:ARG:HE	75:O9:51:ILE:HG13	2.15	0.61
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.36	0.61
39:L2:116:VAL:HG13	39:L2:126:LEU:HB2	2.18	0.61
3:S1:126:THR:HG22	3:S1:136:ARG:HE	1.64	0.61
36:1:564:G:H2'	36:1:565:U:C6	2.36	0.61
45:L8:45:ASN:HD21	45:L8:47:SER:HB3	1.66	0.61
24:D2:47:ILE:HG22	24:D2:65:LEU:HB3	1.83	0.61
54:M8:170:ARG:O	54:M8:171:LYS:HB2	4.06	0.61
2:S0:49:ASN:HA	19:C7:109:LEU:HD21	2.51	0.61
27:D5:43:ASP:O	27:D5:46:LYS:N	2.25	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:S5:57:SER:HB3	30:D8:53:ILE:HB	1.82	0.61
7:S5:216:GLU:OE2	7:S5:219:ARG:NH2	2.34	0.61
8:S6:139:ASN:OD1	8:S6:142:ARG:NH1	3.37	0.61
1:2:226:A:H2'	1:2:227:U:H5'	1.81	0.61
25:D3:27:ASN:O	25:D3:31:LYS:HG2	2.00	0.61
3:S1:39:GLU:CG	3:S1:40:ASN:H	2.13	0.61
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.64	0.61
49:M3:91:ARG:NH2	49:M3:97:VAL:O	2.77	0.61
54:M8:135:GLN:CD	54:M8:135:GLN:H	2.31	0.61
1:2:1234:A:O2'	33:E1:146:SER:HB3	2.01	0.61
36:1:1077:U:OP1	65:N9:38:LYS:NZ	2.25	0.61
12:C0:73:VAL:O	12:C0:77:ARG:HG3	4.89	0.61
40:L3:44:THR:OG1	40:L3:182:GLN:O	2.96	0.61
26:D4:120:GLY:O	26:D4:122:GLY:N	4.02	0.61
55:M9:133:LYS:HG2	55:M9:134:HIS:CD2	2.36	0.61
36:5:1716:U:H6	36:5:1716:U:H5'	1.64	0.61
46:L9:88:TYR:CZ	46:L9:184:LYS:HD3	4.51	0.61
22:D0:117:VAL:HG22	22:D0:118:VAL:H	1.64	0.61
36:1:562:C:OP2	50:M4:77:ARG:NH1	2.34	0.61
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.14	0.61
3:S1:176:VAL:HG22	3:S1:184:LEU:HD21	2.98	0.61
4:S2:168:ARG:NE	1:6:1098:U:OP2	384.03	0.61
1:2:1795:U:H3'	28:D6:5:ARG:HH12	1.66	0.61
1:2:1291:G:H8	1:2:1291:G:O5'	1.84	0.61
36:5:174:C:N4	36:5:244:G:H1	1.97	0.61
72:O6:58:ILE:HG22	72:O6:90:MET:HG3	1.81	0.61
4:S2:140:ARG:NH1	23:D1:1:MET:SD	2.73	0.61
1:2:591:A:H2'	1:2:592:A:H8	1.66	0.61
51:M5:172:ARG:NH2	36:5:63:A:OP1	103.83	0.61
6:S4:85:GLY:N	6:S4:88:ASP:OD2	2.32	0.61
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.83	0.61
1:6:891:A:H2'	1:6:892:A:C8	2.36	0.61
61:N5:57:LEU:HD21	61:N5:90:ALA:HB2	1.82	0.61
9:S7:143:LEU:HB2	9:S7:147:ASN:O	3.03	0.61
36:1:3155:U:H3'	36:1:3156:U:H4'	1.81	0.61
1:2:732:G:O2'	1:2:733:A:O4'	2.18	0.61
41:L4:299:ILE:HG22	54:M8:39:ARG:HB3	2.10	0.61
17:C5:33:PHE:CD2	17:C5:87:PRO:HD3	2.36	0.61
36:1:516:A:O3'	44:L7:60:ARG:NH2	2.33	0.61
1:2:647:G:H22	1:2:687:G:H22	1.47	0.61
18:C6:125:GLU:OE1	18:C6:128:LYS:NZ	2.33	0.61
38:4:85:G:O6	62:N6:112:ASP:HB3	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2242:A:H5'	39:L2:243:THR:HG23	1.83	0.61
58:N2:84:LEU:HB3	58:N2:90:ARG:HG2	1.81	0.61
1:6:1057:U:O2'	1:6:1059:U:OP1	2.14	0.61
37:3:113:C:H2'	37:3:114:U:O4'	2.01	0.61
33:E1:119:ARG:O	33:E1:132:LEU:HG	2.62	0.61
19:C7:28:PHE:HZ	19:C7:48:ASN:HB3	1.65	0.61
36:5:2425:G:H2'	36:5:2426:U:O4'	2.00	0.61
18:C6:139:GLN:NE2	1:6:1465:C:OP1	353.22	0.61
10:S8:151:LYS:NZ	10:S8:152:ILE:O	5.61	0.61
55:M9:92:GLN:O	55:M9:96:ILE:HG13	2.26	0.61
1:2:45:U:O2'	1:2:46:A:H2'	2.01	0.61
42:L5:75:LEU:HD23	42:L5:112:LYS:HE2	4.53	0.61
21:C9:115:GLU:O	21:C9:117:SER:N	2.34	0.61
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.34	0.60
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.00	0.60
36:1:1307:G:OP1	52:M6:59:ARG:NH1	2.33	0.60
1:2:1173:C:H3'	20:C8:141:THR:HG21	1.83	0.60
7:S5:103:ASN:HA	7:S5:106:LYS:HD2	1.83	0.60
2:S0:79:ARG:NH1	2:S0:164:ASN:O	2.96	0.60
48:M1:34:SER:HA	48:M1:67:VAL:HG21	1.82	0.60
1:2:1783:C:H2'	1:2:1784:C:H6	1.66	0.60
1:6:914:G:H5'	1:6:914:G:C8	2.36	0.60
24:D2:38:LEU:HD23	24:D2:41:MET:HE3	2.38	0.60
11:S9:29:LYS:O	11:S9:33:GLU:HG2	4.95	0.60
41:L4:128:ALA:HB1	41:L4:134:LEU:HD12	1.83	0.60
1:6:1672:G:H2'	1:6:1673:G:C8	2.35	0.60
15:C3:3:ARG:NH1	1:6:955:A:OP1	327.41	0.60
73:O7:39:TYR:CD2	73:O7:40:PRO:HA	2.40	0.60
36:1:2878:G:H5''	40:L3:5:LYS:HE2	1.83	0.60
1:2:1459:C:H4'	17:C5:126:VAL:HG11	1.82	0.60
34:SR:170:ILE:HG21	34:SR:211:ILE:HD11	1.83	0.60
36:1:2745:G:N2	36:1:2748:A:OP2	2.33	0.60
36:1:975:C:H2'	36:1:976:U:H6	1.66	0.60
53:M7:50:GLN:O	53:M7:53:ASP:N	2.34	0.60
77:Q1:21:ARG:HD2	1:6:1653:C:O3'	284.31	0.60
19:C7:24:LEU:HD23	19:C7:34:LEU:HD13	1.83	0.60
40:L3:166:ILE:HD13	40:L3:173:GLN:HG2	2.91	0.60
4:S2:67:GLN:HA	4:S2:70:ASP:HB2	2.24	0.60
24:D2:29:PRO:O	24:D2:30:SER:HB3	2.01	0.60
14:C2:50:LYS:O	14:C2:54:ARG:HG2	3.01	0.60
54:M8:70:ALA:O	54:M8:73:GLN:HG3	4.25	0.60
56:N0:137:ARG:HG2	56:N0:139:TYR:CZ	2.45	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
66:O0:99:ASP:N	66:O0:99:ASP:OD2	2.67	0.60
9:S7:49:ILE:O	9:S7:57:ALA:N	2.22	0.60
48:M1:92:ARG:HG3	48:M1:172:LEU:HD12	6.30	0.60
1:6:40:A:O2'	88:6:2105:OHX:N4	2.34	0.60
55:M9:104:ARG:HB3	55:M9:104:ARG:CZ	2.31	0.60
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.35	0.60
7:S5:112:ARG:HD3	27:D5:95:HIS:CE1	2.37	0.60
1:2:1681:A:H2'	1:2:1682:U:H5'	1.82	0.60
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.34	0.60
1:2:107:C:H42	1:2:307:G:H1	1.49	0.60
36:1:2611:U:H2'	36:1:2612:U:C6	2.37	0.60
36:5:2510:U:O2'	36:5:2511:A:H5''	2.00	0.60
66:O0:34:LEU:HD23	66:O0:59:TYR:HB3	1.83	0.60
36:5:1912:U:N3	36:5:2122:G:OP2	2.33	0.60
3:S1:123:ALA:HB2	3:S1:165:ARG:HG2	2.85	0.60
30:D8:58:GLU:HB3	30:D8:61:ARG:HG3	7.68	0.60
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.33	0.60
36:1:1460:A:H2'	36:1:1461:A:C8	2.36	0.60
7:S5:158:GLN:HG2	30:D8:66:LEU:HD21	1.82	0.60
15:C3:76:LYS:NZ	1:6:813:U:OP2	317.32	0.60
16:C4:115:ILE:HG21	28:D6:44:ILE:HG21	7.40	0.60
1:2:1316:G:HO2'	1:2:1401:A:HO2'	1.49	0.60
1:2:637:C:O2	9:S7:114:ARG:NH2	2.34	0.60
36:1:2503:G:HO2'	36:1:2504:U:H5	1.47	0.60
48:M1:94:ARG:NH2	48:M1:173:ASP:OD2	2.34	0.60
1:2:1291:G:N2	1:2:1324:G:N2	2.49	0.60
66:O0:9:SER:N	66:O0:12:GLN:HE21	1.99	0.60
7:S5:36:ALA:HB1	7:S5:42:LEU:HD21	1.83	0.60
4:S2:139:ILE:HG22	4:S2:141:ARG:HD2	1.83	0.60
13:C1:116:ARG:HE	13:C1:116:ARG:N	5.36	0.60
79:Q3:44:LYS:NZ	36:5:1728:G:OP1	234.87	0.60
1:2:927:C:H2'	1:2:928:U:C6	2.36	0.60
36:1:1933:A:OP2	88:1:3893:OHX:N6	2.35	0.60
73:O7:27:PHE:HA	73:O7:34:CYS:HA	1.82	0.60
36:5:1017:C:H42	36:5:2671:A:P	2.23	0.60
21:C9:102:ARG:NH2	1:6:1502:G:N7	405.75	0.60
9:S7:105:THR:O	9:S7:107:ARG:N	3.74	0.60
47:M0:16:PRO:HG3	47:M0:128:ARG:HH11	3.09	0.60
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.48	0.60
17:C5:68:PRO:HG2	17:C5:71:GLU:OE2	2.01	0.60
27:D5:49:ARG:O	27:D5:53:GLU:HB2	2.23	0.60
56:N0:13:ARG:NH2	56:N0:50:LYS:O	2.92	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.02	0.60
36:1:2573:G:O6	88:1:4009:OHX:N3	2.34	0.60
1:2:208:U:H2'	1:2:209:U:H6	1.65	0.60
36:5:90:C:C2'	36:5:91:G:H5'	2.32	0.60
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.84	0.60
1:2:75:U:H2'	1:2:76:A:O4'	2.01	0.60
60:N4:27:LYS:HG2	60:N4:29:PHE:CE2	4.16	0.60
79:Q3:18:TYR:H	36:5:2131:A:H61	227.39	0.60
49:M3:70:ARG:NH2	36:5:103:G:OP1	95.42	0.60
51:M5:109:ARG:NH1	38:8:141:C:OP1	120.34	0.60
7:S5:92:ARG:NH1	7:S5:92:ARG:HG2	3.15	0.60
37:3:26:C:H5'	42:L5:56:THR:HB	1.84	0.60
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.34	0.60
27:D5:77:ARG:NH2	1:6:1534:G:N7	349.84	0.60
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.82	0.60
39:L2:80:GLU:OE2	79:Q3:73:THR:OG1	4.76	0.60
9:S7:91:ILE:HD12	9:S7:92:PHE:H	2.19	0.60
30:D8:25:VAL:HG11	30:D8:66:LEU:HD12	1.83	0.60
23:D1:32:VAL:HG12	23:D1:55:LEU:HB2	3.44	0.60
77:Q1:16:LYS:O	77:Q1:20:VAL:HG23	2.38	0.60
52:M6:183:ALA:C	52:M6:185:ALA:H	2.03	0.60
1:2:422:G:OP1	88:2:2042:OHX:N6	2.34	0.60
36:1:341:G:N7	41:L4:195:ARG:NH2	2.46	0.60
36:5:1110:U:H2'	36:5:1111:U:C6	2.36	0.60
1:6:1488:G:O2'	1:6:1494:C:O2	2.14	0.60
36:1:2108:C:H1'	36:1:3344:A:C8	2.36	0.60
2:S0:183:ARG:NH2	2:S0:191:ARG:O	2.35	0.60
39:L2:181:LYS:NZ	36:5:860:G:O5'	212.60	0.60
39:L2:82:VAL:HA	39:L2:86:GLN:OE1	2.43	0.60
40:L3:19:ARG:HB3	40:L3:232:ARG:NH1	2.21	0.60
7:S5:143:ARG:NH1	7:S5:218:GLU:OE2	3.10	0.60
40:L3:3:HIS:O	40:L3:5:LYS:N	2.34	0.60
36:5:594:U:C5'	36:5:609:G:H1	2.15	0.60
34:SR:309:VAL:HB	34:SR:311:ARG:HH12	2.56	0.60
61:N5:61:LYS:NZ	38:8:59:A:O2'	70.73	0.60
2:S0:142:PRO:HB3	23:D1:34:ILE:HD13	1.82	0.60
59:N3:114:ILE:HD12	59:N3:133:SER:HA	3.15	0.60
1:2:108:A:H2'	1:2:109:G:C8	2.36	0.60
76:Q0:127:LEU:HD22	76:Q0:128:LYS:HG2	1.81	0.60
36:1:600:G:N7	88:1:4109:OHX:N1	2.49	0.60
1:6:1087:A:H2'	1:6:1088:A:C8	2.36	0.60
40:L3:60:LEU:HD23	40:L3:67:PHE:HB3	1.84	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1508:U:O4	88:6:2052:OHX:N4	2.34	0.60
47:M0:55:ASN:HB3	47:M0:162:GLN:HG2	1.83	0.60
15:C3:114:ARG:NH1	15:C3:114:ARG:HG2	2.12	0.60
26:D4:91:LEU:HD12	26:D4:97:ALA:HB2	4.39	0.60
7:S5:200:ASN:CB	7:S5:208:SER:HB3	3.90	0.60
24:D2:2:THR:N	1:6:1034:C:HO2'	338.34	0.60
47:M0:36:LEU:HD21	47:M0:69:ARG:HD2	1.82	0.60
62:N6:5:SER:HB3	62:N6:8:VAL:HG12	1.83	0.60
58:N2:49:ASN:O	58:N2:51:GLY:N	2.32	0.60
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.56	0.60
72:O6:97:SER:OG	72:O6:98:ARG:N	2.34	0.60
1:2:481:A:H61	1:2:505:A:H62	1.49	0.60
2:S0:56:LYS:NZ	2:S0:159:ALA:O	2.34	0.60
1:2:1147:A:H2'	1:2:1148:C:H6	1.67	0.60
34:SR:93:ASP:HB2	34:SR:100:TYR:CE1	2.36	0.60
62:N6:12:ARG:HD3	36:5:215:G:H5''	88.13	0.60
36:5:1221:A:H3'	36:5:1222:G:H5'	1.83	0.60
41:L4:89:ALA:O	41:L4:91:GLY:N	2.31	0.60
40:L3:187:SER:O	40:L3:189:SER:N	2.89	0.60
63:N7:84:ARG:CZ	63:N7:85:TYR:HE1	3.44	0.60
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.30	0.60
26:D4:91:LEU:HB3	26:D4:97:ALA:HB3	2.64	0.60
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.84	0.60
1:6:197:A:H2'	1:6:198:A:H8	1.66	0.60
58:N2:47:VAL:C	58:N2:49:ASN:H	2.78	0.60
36:5:1355:A:H4'	36:5:1356:U:O5'	2.02	0.60
36:1:2433:U:H1'	51:M5:125:SER:HB3	1.83	0.60
42:L5:36:LEU:HD23	36:5:2748:A:N3	255.26	0.60
36:1:871:U:H2'	36:1:872:U:C6	2.37	0.60
2:S0:163:ASN:O	2:S0:165:ARG:N	2.68	0.60
59:N3:33:ASN:ND2	59:N3:63:LYS:H	2.00	0.60
46:L9:41:ILE:HG23	46:L9:43:VAL:HG13	1.84	0.60
55:M9:40:ALA:HB2	55:M9:43:LYS:HZ2	1.67	0.60
1:2:1765:A:OP1	88:2:2092:OHX:N3	2.35	0.60
9:S7:58:LEU:HD12	9:S7:90:VAL:HG22	1.84	0.60
36:5:3242:G:H5''	36:5:3245:A:C8	2.37	0.60
36:5:59:G:H4'	36:5:60:A:H4'	1.82	0.60
5:S3:74:GLN:HE22	5:S3:81:PRO:HG3	1.67	0.60
56:N0:71:LYS:HG2	56:N0:73:LYS:HD3	3.94	0.60
39:L2:188:LYS:HD3	39:L2:189:TYR:CE1	2.35	0.60
16:C4:81:VAL:HG13	16:C4:115:ILE:HG23	3.30	0.60
3:S1:157:GLN:H	3:S1:160:HIS:HB2	1.66	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.84	0.60
1:2:1459:C:OP2	20:C8:138:THR:OG1	2.20	0.60
20:C8:131:LEU:HA	20:C8:145:ARG:HH12	1.67	0.60
4:S2:147:ASN:HB3	23:D1:4:ASP:HA	1.84	0.60
1:2:1000:C:O2'	1:2:1002:G:N7	2.29	0.60
36:1:3192:U:H2'	36:1:3193:C:C6	2.37	0.60
42:L5:47:PRO:HG2	42:L5:49:TYR:CE2	2.62	0.60
36:1:1596:C:H2'	36:1:1597:C:C6	2.37	0.60
36:5:2580:A:O2'	88:5:4134:OHX:N1	2.34	0.60
1:2:1490:C:H4'	1:2:1491:U:OP1	2.02	0.60
36:1:1887:A:OP2	88:1:3901:OHX:N4	2.35	0.60
36:1:3377:G:O6	88:1:4048:OHX:N1	2.34	0.60
73:O7:8:PHE:O	73:O7:11:ARG:HG3	2.01	0.60
36:1:1652:G:O2'	70:O4:45:GLY:HA3	2.02	0.60
8:S6:57:ASP:O	8:S6:59:GLN:N	3.51	0.59
47:M0:76:MET:HE1	47:M0:148:VAL:HG13	2.13	0.59
1:2:1566:U:H2'	1:2:1567:U:H6	1.67	0.59
36:1:1097:G:H4'	57:N1:129:LYS:HG2	1.83	0.59
36:1:155:G:H1'	72:O6:26:ILE:HD13	1.84	0.59
17:C5:127:ARG:CZ	35:SM:66:ALA:HB2	5.02	0.59
36:1:2310:U:OP1	88:1:4152:OHX:N2	2.34	0.59
12:C0:8:ARG:HD2	12:C0:12:HIS:CE1	2.37	0.59
6:S4:141:THR:O	6:S4:143:ASP:N	2.35	0.59
36:1:2340:U:OP1	40:L3:236:LYS:HE3	2.02	0.59
36:5:2659:G:H4'	36:5:2751:G:O2'	2.02	0.59
34:SR:5:GLU:HA	34:SR:317:THR:HA	3.04	0.59
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.02	0.59
54:M8:165:ILE:HG23	54:M8:167:SER:H	5.32	0.59
21:C9:52:GLY:O	21:C9:54:PHE:N	2.30	0.59
36:5:1790:G:O6	88:5:4202:OHX:N4	2.35	0.59
42:L5:105:ILE:O	42:L5:109:THR:HG23	2.01	0.59
36:1:3165:A:H61	36:1:3285:C:H42	1.50	0.59
36:5:2897:A:H2'	36:5:2899:C:H5''	1.84	0.59
19:C7:109:LEU:O	19:C7:113:LEU:HB2	3.94	0.59
28:D6:75:VAL:O	28:D6:79:ILE:N	2.35	0.59
46:L9:62:ARG:NH2	36:5:3115:C:OP1	330.26	0.59
79:Q3:36:ARG:HG3	79:Q3:48:LYS:HG3	2.53	0.59
7:S5:145:ASP:OD2	7:S5:146:THR:N	2.33	0.59
1:2:1645:G:O2'	36:1:2259:A:N1	2.33	0.59
64:N8:47:LYS:HE3	64:N8:48:TYR:CZ	4.46	0.59
45:L8:181:LYS:HD2	38:8:154:C:H5''	150.56	0.59
36:1:2206:G:H1	36:1:2237:C:H42	1.48	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	2.22	0.59
1:2:1776:A:H2'	1:2:1777:G:C8	2.37	0.59
1:2:1650:U:H2'	1:2:1651:A:C8	2.37	0.59
36:5:1659:U:H2'	36:5:1660:C:C6	2.37	0.59
26:D4:92:VAL:HG21	26:D4:99:LYS:HG2	1.83	0.59
19:C7:77:GLU:HG2	19:C7:80:ARG:HH21	7.80	0.59
1:2:1266:U:H2'	1:2:1267:G:C8	2.36	0.59
62:N6:59:VAL:HG22	62:N6:103:LYS:O	5.26	0.59
31:D9:5:ASN:HB3	31:D9:7:TRP:NE1	2.17	0.59
13:C1:75:VAL:HG12	13:C1:119:VAL:HA	3.43	0.59
1:2:1280:C:H2'	1:2:1281:G:H8	1.67	0.59
16:C4:81:VAL:HG11	16:C4:102:LEU:HD21	1.82	0.59
62:N6:52:ARG:HA	62:N6:70:ILE:HG22	2.52	0.59
63:N7:95:VAL:HG11	63:N7:113:VAL:HG21	3.41	0.59
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.67	0.59
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.85	0.59
1:6:880:C:OP2	88:6:2106:OHX:N2	2.35	0.59
49:M3:157:ARG:HG2	49:M3:158:ALA:H	1.67	0.59
12:C0:46:LEU:HA	12:C0:49:LEU:HB2	1.85	0.59
36:1:1460:A:H2'	36:1:1461:A:H8	1.68	0.59
34:SR:80:ALA:HB3	34:SR:92:TRP:HB2	2.36	0.59
36:5:601:U:H2'	36:5:602:A:O4'	2.01	0.59
36:5:2603:G:O6	88:5:3906:OHX:N1	2.36	0.59
16:C4:80:HIS:ND1	16:C4:113:GLY:O	3.49	0.59
18:C6:129:PHE:HE1	22:D0:78:THR:HA	1.67	0.59
55:M9:154:ALA:O	55:M9:156:ASN:N	4.09	0.59
23:D1:15:ARG:NH1	23:D1:33:GLN:OE1	2.35	0.59
1:6:488:G:N2	1:6:499:U:H3	1.97	0.59
23:D1:79:LEU:HD13	23:D1:82:VAL:HG11	1.84	0.59
36:1:1564:U:H2'	36:1:1565:G:C8	2.37	0.59
1:6:221:A:OP2	1:6:832:U:O2'	2.18	0.59
36:1:2208:A:N1	88:1:4056:OHX:N4	2.50	0.59
28:D6:79:ILE:HG23	28:D6:84:VAL:HG21	1.83	0.59
17:C5:129:GLY:HA3	35:SM:74:LYS:HG2	4.17	0.59
36:5:2568:C:O2'	36:5:2569:A:O5'	2.12	0.59
29:D7:56:CYS:HB3	29:D7:61:THR:HG21	1.84	0.59
17:C5:122:THR:HB	1:6:1558:U:H3	366.81	0.59
38:4:10:A:H2'	38:4:11:C:C6	2.37	0.59
1:2:1393:C:H2'	1:2:1394:G:O4'	2.02	0.59
36:5:2299:A:OP2	88:5:3963:OHX:N1	2.35	0.59
36:1:1798:A:H2'	36:1:1799:A:C8	2.38	0.59
57:N1:122:GLN:HB3	57:N1:124:VAL:HG23	6.88	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1155:C:O2'	36:5:1197:A:N1	2.32	0.59
66:O0:57:GLU:OE1	66:O0:69:TYR:OH	2.80	0.59
39:L2:117:GLU:HB3	39:L2:119:LYS:O	2.02	0.59
36:5:2444:C:H42	36:5:2503:G:H1	1.50	0.59
23:D1:73:ALA:HB1	23:D1:78:LEU:HG	1.85	0.59
72:O6:25:LYS:HB3	36:5:156:G:OP2	88.58	0.59
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.84	0.59
10:S8:99:ALA:HB3	1:6:329:G:H5'	270.82	0.59
40:L3:21:ARG:NH2	36:5:3309:G:O6	198.95	0.59
36:1:3276:G:O6	69:O3:60:ARG:NH1	2.36	0.59
36:5:541:U:H2'	36:5:542:G:C8	2.38	0.59
68:O2:119:VAL:O	68:O2:122:PRO:HD3	2.28	0.59
40:L3:44:THR:HG23	40:L3:184:ASN:HB2	2.66	0.59
2:S0:56:LYS:NZ	2:S0:158:VAL:HA	2.88	0.59
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.36	0.59
1:6:991:G:OP2	88:6:2168:OHX:N2	2.35	0.59
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.30	0.59
1:6:116:U:H2'	1:6:117:U:C6	2.37	0.59
1:2:901:G:N2	16:C4:54:GLU:OE1	2.36	0.59
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.36	0.59
58:N2:47:VAL:O	58:N2:49:ASN:N	3.41	0.59
1:2:1067:C:H2'	1:2:1068:C:H6	1.67	0.59
1:6:158:U:O2'	1:6:159:U:H3'	2.02	0.59
1:6:794:U:H4'	1:6:795:U:OP2	2.03	0.59
15:C3:127:ARG:NH2	1:6:629:U:OP1	308.19	0.59
36:1:3298:C:OP1	53:M7:74:LYS:NZ	2.35	0.59
1:2:1537:C:N3	88:2:2154:OHX:N3	2.51	0.59
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	2.70	0.59
13:C1:21:ASN:N	13:C1:21:ASN:OD1	3.17	0.59
1:2:1345:A:H2'	1:2:1348:A:H62	1.68	0.59
68:O2:4:LEU:HG	68:O2:5:PRO:HD3	4.60	0.59
88:1:4097:OHX:N4	55:M9:14:VAL:O	2.35	0.59
1:6:564:G:O6	88:6:2150:OHX:N5	2.35	0.59
36:1:2094:C:H2'	36:1:2095:G:H8	1.67	0.59
1:2:143:G:N7	8:S6:177:ARG:NH2	2.51	0.59
36:1:743:C:N3	54:M8:141:ARG:NH1	2.50	0.59
32:E0:33:ARG:HH11	32:E0:33:ARG:HB3	2.58	0.59
14:C2:54:ARG:O	14:C2:56:GLU:N	2.34	0.59
36:5:148:G:O2'	36:5:149:U:OP2	2.21	0.59
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.37	0.59
1:6:1714:A:H2'	1:6:1715:G:O4'	2.02	0.59
16:C4:131:GLY:O	16:C4:133:ARG:N	3.05	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:N2:37:LEU:O	58:N2:41:ILE:HG13	2.02	0.59
40:L3:25:ILE:H	40:L3:25:ILE:HD13	1.67	0.59
36:5:2533:G:O6	88:5:4044:OHX:N1	2.35	0.59
52:M6:36:VAL:HG11	52:M6:108:ILE:HG23	1.84	0.59
19:C7:4:VAL:HG13	1:6:1402:G:H5'	401.66	0.59
2:S0:122:ILE:HG12	2:S0:144:ILE:HG13	4.19	0.59
49:M3:58:VAL:HG13	36:5:75:G:H5''	87.78	0.59
41:L4:233:LEU:HD22	41:L4:238:LEU:HD11	2.91	0.59
8:S6:139:ASN:HA	8:S6:142:ARG:HB2	1.97	0.59
55:M9:163:ARG:HD3	1:6:813:U:C2	304.04	0.59
45:L8:54:GLU:HG2	45:L8:57:ARG:HH21	1.66	0.59
36:1:3195:U:O2'	36:1:3197:G:N2	2.35	0.59
61:N5:132:ALA:O	61:N5:135:ILE:HG22	2.03	0.59
21:C9:28:LEU:HD13	21:C9:29:GLU:H	1.67	0.59
43:L6:172:HIS:CD2	43:L6:173:MET:HG2	2.53	0.59
36:5:3341:U:H5''	36:5:3342:A:OP2	2.02	0.59
36:1:3152:U:O2	88:1:4158:OHX:N4	2.36	0.59
36:1:2969:A:N7	39:L2:215:ASN:ND2	2.48	0.59
40:L3:188:ILE:HA	40:L3:191:LYS:HD2	2.24	0.59
1:2:894:U:H3	1:2:918:U:H3	1.51	0.59
1:6:1524:A:H2'	1:6:1525:A:C8	2.38	0.59
7:S5:166:ARG:HD2	30:D8:46:GLY:HA2	1.85	0.59
6:S4:10:LYS:HE2	11:S9:2:PRO:HB3	4.60	0.59
51:M5:138:GLN:HA	51:M5:143:ARG:HH11	1.67	0.59
1:6:1700:C:O2'	1:6:1701:A:OP1	2.20	0.59
74:O8:17:ARG:NH2	36:5:1824:U:O3'	138.04	0.59
1:6:1533:C:H4'	1:6:1539:G:N1	2.17	0.59
42:L5:140:ARG:NH2	36:5:1080:A:OP2	229.84	0.59
38:4:107:G:OP2	88:4:229:OHX:N2	2.35	0.59
61:N5:139:ILE:HG13	61:N5:139:ILE:O	2.03	0.59
2:S0:66:ALA:HB2	23:D1:37:ALA:HB2	1.85	0.59
37:3:97:A:O4'	44:L7:225:GLN:NE2	2.36	0.59
36:1:86:G:O2'	49:M3:11:LYS:HD3	2.02	0.59
32:E0:18:THR:HG21	1:6:584:C:H1'	389.41	0.59
52:M6:18:ARG:O	52:M6:22:VAL:HG13	2.02	0.59
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.68	0.59
36:1:1443:G:O6	88:1:3988:OHX:N3	2.36	0.59
53:M7:38:GLY:H	53:M7:114:VAL:HG13	1.68	0.59
31:D9:19:ARG:NH2	1:6:1597:A:OP1	408.17	0.59
66:O0:22:LYS:H	66:O0:94:GLU:HB2	1.67	0.59
8:S6:137:ARG:HD3	8:S6:177:ARG:HE	1.67	0.59
4:S2:68:ILE:O	4:S2:72:LEU:HB2	2.03	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:S0:92:HIS:HB3	2:S0:182:LEU:HD11	2.54	0.59
41:L4:197:ARG:NH1	36:5:1381:A:OP1	109.58	0.59
19:C7:86:PRO:HG2	19:C7:88:VAL:HA	9.45	0.59
19:C7:28:PHE:HA	19:C7:55:THR:HG21	2.44	0.59
36:5:495:G:H2'	36:5:496:C:O4'	2.02	0.59
44:L7:83:LEU:HD22	44:L7:84:VAL:N	2.18	0.59
3:S1:26:ARG:NH1	3:S1:49:ASN:OD1	2.35	0.59
45:L8:82:LEU:HD21	45:L8:86:THR:HG22	2.89	0.59
1:6:1166:A:H2'	1:6:1167:G:O4'	2.02	0.59
1:6:1754:A:H4'	1:6:1755:A:O5'	2.03	0.59
36:1:2660:G:O3'	36:1:2749:G:N2	2.36	0.59
36:1:3159:C:H2'	36:1:3160:U:C6	2.37	0.59
6:S4:71:LYS:HB3	6:S4:76:VAL:HA	1.85	0.59
17:C5:14:THR:HB	17:C5:22:LEU:HB2	1.85	0.58
14:C2:119:SER:OG	14:C2:120:VAL:N	2.35	0.58
41:L4:316:ASN:OD1	41:L4:318:LEU:HB2	2.03	0.58
1:2:896:U:H1'	16:C4:38:THR:HG21	1.85	0.58
45:L8:26:LEU:HD13	63:N7:53:VAL:HG11	1.84	0.58
62:N6:37:LYS:H	62:N6:37:LYS:CD	2.32	0.58
27:D5:53:GLU:O	27:D5:56:THR:N	5.74	0.58
36:1:1632:A:C8	36:1:1644:C:H2'	2.38	0.58
34:SR:20:VAL:O	34:SR:291:SER:OG	2.21	0.58
39:L2:211:HIS:O	39:L2:213:GLY:N	3.96	0.58
74:O8:65:LEU:HD23	74:O8:68:SER:HB2	3.67	0.58
53:M7:139:TYR:CE2	36:5:2355:G:H4'	147.56	0.58
1:2:1769:U:OP2	88:2:2145:OHX:N1	2.36	0.58
41:L4:192:GLY:HA2	41:L4:195:ARG:HG3	2.93	0.58
5:S3:8:LYS:HG2	22:D0:63:LEU:HD21	2.64	0.58
88:1:3898:OHX:N5	57:N1:13:TYR:O	2.36	0.58
1:2:1672:G:H2'	1:2:1673:G:C8	2.37	0.58
11:S9:124:HIS:HD2	1:6:478:A:O2'	449.26	0.58
1:2:23:G:O2'	1:2:368:U:OP1	2.21	0.58
36:1:49:A:OP1	49:M3:16:LYS:NZ	2.35	0.58
36:5:953:G:H2'	36:5:1117:G:H5''	1.85	0.58
15:C3:114:ARG:CG	15:C3:114:ARG:HH11	2.15	0.58
7:S5:208:SER:O	7:S5:210:ALA:N	3.07	0.58
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.84	0.58
20:C8:86:LEU:HG	20:C8:99:HIS:HB2	2.63	0.58
36:1:911:C:N4	39:L2:3:ARG:HD3	2.16	0.58
25:D3:50:LYS:HD3	25:D3:101:GLU:HG2	1.85	0.58
73:O7:28:HIS:HD2	73:O7:31:LYS:HE2	2.85	0.58
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.13	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.85	0.58
1:2:1062:A:OP2	88:2:2165:OHX:N4	2.36	0.58
1:2:584:C:H1'	32:E0:18:THR:HG21	1.84	0.58
1:6:1688:U:H2'	1:6:1689:A:C8	2.38	0.58
36:1:1317:A:O2'	36:1:1318:A:H3'	2.02	0.58
41:L4:354:VAL:O	41:L4:358:THR:HG23	2.13	0.58
75:O9:28:ARG:NH1	75:O9:36:ARG:O	2.36	0.58
36:1:917:A:OP2	88:1:4157:OHX:N2	2.36	0.58
71:O5:90:ARG:NH1	36:5:20:A:OP2	86.19	0.58
36:5:1239:C:N4	36:5:1249:G:H1	1.93	0.58
28:D6:4:LYS:HE2	28:D6:5:ARG:NH2	2.22	0.58
36:5:173:G:H1'	36:5:174:C:H5'	1.86	0.58
36:5:1024:G:N2	36:5:1026:A:OP2	2.36	0.58
36:5:1662:G:O6	88:5:3922:OHX:N1	2.36	0.58
21:C9:30:VAL:HG12	21:C9:54:PHE:CD2	2.60	0.58
42:L5:91:GLY:O	42:L5:94:ASN:ND2	2.36	0.58
36:1:3233:C:H2'	36:1:3234:A:C8	2.38	0.58
11:S9:9:SER:OG	1:6:771:A:OP1	390.78	0.58
7:S5:193:THR:HA	7:S5:196:GLU:HB2	1.83	0.58
36:1:1636:U:H5''	63:N7:73:LYS:NZ	2.19	0.58
5:S3:46:THR:HB	5:S3:84:ILE:HG12	1.85	0.58
36:5:1534:A:OP1	88:5:3925:OHX:N1	2.37	0.58
22:D0:27:THR:HB	22:D0:88:LYS:HG2	2.25	0.58
67:O1:44:MET:O	67:O1:46:THR:N	3.24	0.58
40:L3:345:ASN:OD1	40:L3:346:THR:N	3.36	0.58
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.03	0.58
1:2:1449:U:H2'	1:2:1450:U:C6	2.38	0.58
36:5:2509:U:H2'	36:5:2510:U:H5''	1.85	0.58
1:6:1010:C:OP2	88:6:2168:OHX:N3	2.36	0.58
52:M6:8:VAL:HG13	52:M6:34:VAL:HG22	2.40	0.58
51:M5:121:VAL:HG11	51:M5:131:GLU:HG3	2.62	0.58
1:2:1675:C:H1'	10:S8:32:GLN:NE2	2.18	0.58
36:1:2534:G:H1	36:1:2545:C:H42	1.49	0.58
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.36	0.58
42:L5:155:THR:HA	42:L5:179:ARG:HA	1.98	0.58
36:1:1915:A:H2'	36:1:1916:U:C6	2.38	0.58
41:L4:183:LYS:HE3	36:5:1386:A:N7	119.61	0.58
36:1:2927:C:H2'	36:1:2928:C:C6	2.38	0.58
45:L8:163:VAL:HG22	45:L8:166:LEU:HD12	1.89	0.58
36:5:3283:U:H2'	36:5:3284:G:C8	2.38	0.58
5:S3:168:ILE:HG22	5:S3:189:MET:HB2	2.95	0.58
36:1:2790:A:OP2	54:M8:181:SER:HB3	2.02	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:446:A:N6	1:2:461:G:H21	2.01	0.58
26:D4:12:VAL:HG13	26:D4:23:PHE:HB3	1.85	0.58
40:L3:211:GLN:NE2	40:L3:283:TYR:O	2.34	0.58
2:S0:112:THR:O	2:S0:115:PHE:HB2	2.03	0.58
22:D0:22:ILE:HG22	22:D0:93:LEU:HB2	2.08	0.58
6:S4:60:GLU:OE1	26:D4:20:ARG:NH1	3.04	0.58
36:1:1014:U:H2'	36:1:1015:U:H5''	1.85	0.58
79:Q3:36:ARG:HH22	36:5:1725:C:H5''	228.46	0.58
36:5:3155:U:OP1	88:5:4231:OHX:N2	2.36	0.58
23:D1:3:ASN:ND2	23:D1:7:GLN:HB3	2.48	0.58
30:D8:12:VAL:HA	30:D8:30:VAL:HG12	1.84	0.58
35:SM:76:VAL:HG13	1:6:1460:A:C5	328.99	0.58
34:SR:70:ASP:HB2	34:SR:112:SER:HA	1.85	0.58
1:2:1783:C:H2'	1:2:1784:C:C6	2.39	0.58
1:2:1147:A:H2'	1:2:1148:C:C6	2.38	0.58
36:1:3160:U:H5''	36:1:3396:U:H2'	1.85	0.58
1:2:1486:G:H1'	1:2:1592:A:O2'	2.03	0.58
36:1:425:G:O6	88:1:3883:OHX:N6	2.36	0.58
33:E1:98:VAL:HG12	33:E1:99:LYS:H	3.28	0.58
1:2:1381:U:H1'	1:2:1516:A:N6	2.17	0.58
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.86	0.58
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.84	0.58
50:M4:47:ASP:CG	50:M4:55:ARG:HB2	2.46	0.58
1:6:485:A:H61	1:6:502:U:H3	1.52	0.58
1:2:514:G:O2'	1:2:515:A:H5'	2.04	0.58
36:1:2828:G:OP1	47:M0:7:ARG:NH1	2.37	0.58
44:L7:151:ARG:HH11	44:L7:244:ASN:HD22	1.51	0.58
24:D2:27:ILE:HD11	24:D2:61:ILE:HD12	1.86	0.58
36:5:409:A:OP2	88:5:4106:OHX:N3	2.37	0.58
70:O4:29:ILE:HG12	70:O4:30:LEU:N	2.19	0.58
62:N6:106:ILE:HG21	62:N6:109:LEU:HD23	2.67	0.58
5:S3:59:LEU:HA	5:S3:66:ILE:HG13	1.85	0.58
79:Q3:73:THR:HB	79:Q3:76:ALA:H	4.41	0.58
1:2:499:U:O2'	1:2:500:C:O4'	2.21	0.58
36:5:1231:A:H5''	36:5:1232:C:H5'	1.85	0.58
1:2:953:G:H2'	1:2:954:G:C8	2.39	0.58
36:1:2636:A:H5''	36:1:2637:A:H5'	1.86	0.58
36:5:1734:G:O6	88:5:3972:OHX:N5	2.37	0.58
6:S4:196:VAL:HG12	6:S4:197:HIS:HB2	2.37	0.58
10:S8:155:SER:HB2	10:S8:189:LEU:HD21	1.86	0.58
54:M8:122:ILE:HD11	54:M8:130:ARG:NH1	3.87	0.58
28:D6:5:ARG:O	28:D6:8:ASN:N	2.59	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:353:G:N7	73:O7:55:ARG:HD3	2.19	0.58
3:S1:51:SER:HB3	3:S1:57:ALA:H	3.05	0.58
56:N0:23:LYS:O	56:N0:24:LEU:HB2	2.02	0.58
71:O5:95:PHE:CD2	36:5:136:G:H5'	63.18	0.58
6:S4:206:ASP:N	6:S4:206:ASP:OD1	2.36	0.58
36:1:1674:G:N2	36:1:1773:C:O2	2.36	0.58
34:SR:159:ASN:ND2	34:SR:166:SER:O	2.36	0.58
9:S7:147:ASN:N	9:S7:147:ASN:OD1	2.36	0.58
61:N5:82:LEU:HD11	61:N5:135:ILE:HD12	2.69	0.58
14:C2:124:LYS:O	14:C2:126:TRP:N	2.31	0.58
4:S2:44:LEU:HD21	4:S2:247:ALA:HB2	2.17	0.58
66:O0:73:GLY:O	66:O0:76:GLU:HG2	2.03	0.58
40:L3:306:THR:HG22	40:L3:310:GLY:HA2	1.86	0.58
55:M9:102:LEU:HD22	55:M9:138:LEU:HD12	1.86	0.58
36:5:3259:U:H5'	36:5:3259:U:H6	1.69	0.58
44:L7:80:GLN:OE1	57:N1:136:ARG:N	2.30	0.58
36:1:651:G:O2'	36:1:1435:A:OP1	2.22	0.58
61:N5:38:LEU:HD11	61:N5:40:LEU:HD13	1.86	0.58
36:5:2537:U:O2	36:5:2543:U:N3	2.36	0.58
41:L4:292:SER:OG	41:L4:293:SER:N	2.35	0.58
49:M3:42:ARG:O	49:M3:46:ILE:HG12	2.59	0.58
17:C5:86:VAL:HG22	17:C5:89:MET:HG2	1.85	0.58
11:S9:157:ASP:OD1	11:S9:158:PHE:N	4.49	0.58
3:S1:33:LYS:HE2	3:S1:41:ARG:HH12	5.13	0.58
67:O1:44:MET:HB3	67:O1:77:ARG:CZ	4.56	0.58
21:C9:33:TYR:CD1	21:C9:37:VAL:HG21	3.68	0.58
19:C7:20:TYR:CG	19:C7:38:ILE:HD11	2.38	0.58
58:N2:50:LEU:O	58:N2:52:ASN:N	2.36	0.58
9:S7:35:LYS:O	9:S7:37:GLU:N	2.33	0.58
18:C6:129:PHE:CE1	22:D0:78:THR:HA	2.39	0.58
24:D2:105:THR:HG23	24:D2:110:ILE:HG12	1.84	0.58
1:2:9:U:O4	88:2:2155:OHX:N6	2.36	0.58
36:1:239:G:O2'	36:1:240:U:OP1	2.20	0.58
44:L7:191:VAL:HG12	44:L7:192:GLY:H	4.28	0.58
43:L6:48:ARG:NH2	36:5:3276:G:O2'	240.33	0.58
1:6:1393:C:H2'	1:6:1394:G:C8	2.39	0.58
15:C3:41:ALA:HB1	15:C3:75:LEU:HD21	2.72	0.58
1:6:496:G:O6	1:6:497:G:N2	2.36	0.58
7:S5:25:LEU:HB2	18:C6:27:GLY:O	2.33	0.58
36:5:2507:C:O2'	36:5:2508:U:OP1	2.18	0.58
24:D2:15:ASN:HD21	24:D2:71:LYS:HG3	2.33	0.58
1:2:142:G:O6	8:S6:177:ARG:NH1	2.28	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D5:87:GLY:C	27:D5:89:ILE:H	2.08	0.58
10:S8:192:TYR:O	10:S8:196:LEU:HB2	2.04	0.58
36:1:1017:C:O2'	36:1:1018:G:OP2	2.21	0.58
36:5:3152:U:O2	88:5:4231:OHX:N5	2.37	0.58
20:C8:126:ARG:HG2	20:C8:133:VAL:HA	1.85	0.58
64:N8:74:ASN:HB3	64:N8:115:LYS:H	1.69	0.58
63:N7:21:LYS:NZ	63:N7:47:GLU:O	3.09	0.58
51:M5:12:ARG:HG2	36:5:268:A:C5	127.76	0.58
42:L5:140:ARG:HD3	36:5:1080:A:OP1	226.69	0.58
1:2:477:A:H2'	1:2:478:A:H8	1.69	0.58
74:O8:23:ALA:HB3	74:O8:75:VAL:HG22	1.86	0.58
3:S1:76:SER:OG	3:S1:78:ASP:OD1	2.22	0.58
63:N7:15:ARG:HG3	63:N7:15:ARG:HH11	3.44	0.58
22:D0:57:ARG:HG3	22:D0:89:ARG:CZ	2.34	0.58
1:2:1426:C:H5''	35:SM:93:ARG:HH12	1.68	0.58
47:M0:61:SER:HB2	47:M0:63:GLU:HG2	2.03	0.58
63:N7:51:LEU:HB2	63:N7:65:ARG:HB2	4.54	0.58
4:S2:53:ILE:HD12	4:S2:53:ILE:H	4.07	0.58
36:1:2683:U:H2'	36:1:2684:C:H6	1.67	0.58
46:L9:1:MET:HE2	46:L9:3:TYR:CE1	2.39	0.58
8:S6:53:SER:O	8:S6:110:ALA:HB3	2.04	0.58
6:S4:95:THR:HG23	6:S4:97:GLU:HG2	7.27	0.58
74:O8:9:LYS:O	74:O8:13:GLU:HG2	2.03	0.58
74:O8:42:LYS:HG2	74:O8:55:VAL:HG22	1.86	0.58
36:1:246:U:H2'	36:1:247:C:H6	1.68	0.58
79:Q3:74:ALA:O	79:Q3:78:THR:HG23	2.96	0.58
45:L8:244:ALA:HA	45:L8:247:ASP:HB2	3.22	0.58
36:1:13:A:H8	36:1:13:A:H5''	1.68	0.58
44:L7:195:PHE:O	44:L7:199:ASN:HB3	2.67	0.58
33:E1:151:ASN:O	33:E1:151:ASN:ND2	2.37	0.58
36:5:1387:G:OP1	88:5:4205:OHX:N3	2.37	0.58
36:5:209:A:H4'	36:5:211:A:C8	2.39	0.58
3:S1:167:VAL:HG11	3:S1:200:ALA:HB1	2.51	0.58
36:5:879:U:O2	36:5:2357:A:H1'	2.04	0.58
1:2:1430:U:O4'	22:D0:72:ASN:ND2	2.31	0.57
36:5:1940:G:H21	36:5:3362:A:H8	1.52	0.57
73:O7:21:ARG:HD2	73:O7:37:CYS:SG	2.44	0.57
1:6:1783:C:H2'	1:6:1784:C:C6	2.39	0.57
20:C8:82:PRO:HG3	21:C9:36:ILE:HD12	2.57	0.57
36:5:283:G:OP2	36:5:285:A:O2'	2.14	0.57
20:C8:140:THR:HA	20:C8:143:ARG:HH11	2.91	0.57
34:SR:59:ARG:NH1	34:SR:96:THR:H	4.91	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:C1:21:ASN:HB3	13:C1:32:LYS:HD3	5.34	0.57
33:E1:82:LYS:O	33:E1:84:VAL:N	4.91	0.57
36:1:1819:U:O4	88:1:4053:OHX:N4	2.37	0.57
4:S2:118:ALA:HB3	4:S2:124:ALA:HB2	2.26	0.57
1:6:1573:A:H4'	1:6:1574:G:O5'	2.03	0.57
1:6:1202:A:OP1	88:6:2126:OHX:N1	2.37	0.57
43:L6:58:LEU:HD12	43:L6:78:ARG:HD3	1.85	0.57
11:S9:125:ALA:O	11:S9:129:ILE:HG13	2.04	0.57
10:S8:138:ASN:HA	10:S8:141:ARG:HB2	3.37	0.57
46:L9:91:ARG:NH1	46:L9:141:LYS:O	2.32	0.57
1:2:1248:C:H2'	1:2:1249:U:C6	2.39	0.57
39:L2:201:GLY:HA2	39:L2:204:MET:HG3	1.86	0.57
36:1:1823:A:H2'	36:1:1824:U:C6	2.39	0.57
1:2:1592:A:H2'	1:2:1593:A:C8	2.38	0.57
44:L7:80:GLN:OE1	57:N1:136:ARG:HG2	2.04	0.57
36:1:1040:A:N3	47:M0:198:LYS:NZ	2.48	0.57
36:1:439:C:H3'	36:1:440:A:C8	2.39	0.57
47:M0:177:ASP:N	47:M0:177:ASP:OD2	3.42	0.57
36:5:787:G:H2'	36:5:788:C:C6	2.39	0.57
3:S1:39:GLU:HB3	3:S1:73:LEU:O	2.05	0.57
53:M7:125:GLN:HB2	53:M7:141:SER:HB2	1.85	0.57
9:S7:82:GLU:OE2	9:S7:165:LYS:HE2	2.04	0.57
1:6:846:G:H2'	1:6:847:A:C8	2.39	0.57
15:C3:62:GLN:HB2	15:C3:65:VAL:HG23	1.86	0.57
68:O2:105:ARG:O	68:O2:109:LEU:HB2	2.04	0.57
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.69	0.57
36:5:1806:A:H2'	36:5:1807:G:O4'	2.04	0.57
63:N7:135:ARG:HB3	63:N7:135:ARG:HH21	3.35	0.57
36:5:1560:G:H1	36:5:1579:C:H42	1.52	0.57
1:6:542:A:OP1	1:6:544:A:C5	2.58	0.57
62:N6:57:LEU:HD13	62:N6:59:VAL:HG12	4.33	0.57
6:S4:77:ARG:HD2	6:S4:82:TYR:CE1	4.61	0.57
1:2:356:G:OP2	88:2:2036:OHX:N6	2.37	0.57
3:S1:178:GLY:O	3:S1:179:SER:HB2	4.69	0.57
1:6:1244:A:N3	1:6:1244:A:H3'	2.19	0.57
29:D7:36:LYS:HG2	29:D7:43:ILE:HA	4.63	0.57
1:2:438:A:H1'	1:2:466:U:O2	2.04	0.57
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.68	0.57
1:2:1738:U:O4	88:2:2041:OHX:N4	2.37	0.57
40:L3:81:THR:HG23	40:L3:81:THR:O	4.22	0.57
36:5:2440:G:H2'	36:5:2441:A:C8	2.38	0.57
9:S7:164:TYR:CE1	9:S7:165:LYS:HG3	2.44	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:C6:50:GLU:OE2	18:C6:82:ARG:NH2	3.35	0.57
12:C0:17:GLN:HG2	12:C0:18:GLU:HG2	1.86	0.57
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.05	0.57
1:2:192:U:O2'	1:2:193:U:O5'	2.19	0.57
6:S4:3:ARG:HG2	1:6:399:A:H4'	320.21	0.57
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.44	0.57
36:1:716:A:OP2	64:N8:137:LYS:NZ	2.36	0.57
27:D5:41:ILE:HG23	27:D5:42:LEU:H	1.70	0.57
39:L2:105:GLY:HA2	39:L2:139:HIS:CE1	5.07	0.57
14:C2:95:LYS:HA	14:C2:117:GLY:HA2	3.91	0.57
2:S0:26:ALA:HB3	2:S0:149:LEU:HB2	2.06	0.57
32:E0:59:GLY:C	32:E0:61:SER:H	3.48	0.57
40:L3:347:SER:HB3	40:L3:350:ALA:H	1.68	0.57
40:L3:275:ARG:NH1	36:5:3045:G:O3'	234.67	0.57
42:L5:181:PRO:HD2	42:L5:195:LEU:HD13	2.61	0.57
45:L8:245:LYS:HZ2	45:L8:246:MET:HB3	1.69	0.57
47:M0:38:LYS:HB2	47:M0:83:ASP:HA	1.85	0.57
1:6:1482:C:OP2	1:6:1521:G:N1	2.36	0.57
25:D3:30:LYS:O	25:D3:34:LEU:HG	2.04	0.57
70:O4:58:ARG:CG	70:O4:58:ARG:HH11	2.17	0.57
36:5:549:U:H2'	36:5:550:A:H8	1.67	0.57
1:2:398:G:OP2	10:S8:47:ARG:NH1	2.37	0.57
1:2:488:G:N2	1:2:500:C:O2	2.38	0.57
1:2:885:G:OP1	3:S1:136:ARG:NH1	2.36	0.57
1:2:434:G:N7	88:2:2048:OHX:N4	2.53	0.57
36:1:316:U:O2'	72:O6:30:LYS:HD2	2.04	0.57
38:4:131:A:H5''	61:N5:93:TYR:CE2	2.40	0.57
55:M9:180:LYS:HA	55:M9:183:ALA:HB3	1.85	0.57
71:O5:105:ARG:O	71:O5:109:ILE:HG13	2.96	0.57
1:2:1240:U:OP2	88:2:2144:OHX:N1	2.38	0.57
36:5:3327:G:O6	88:5:3961:OHX:N1	2.37	0.57
35:SM:35:ALA:HB1	35:SM:37:VAL:HG23	1.86	0.57
50:M4:24:LYS:HE2	50:M4:25:LYS:HE2	1.85	0.57
22:D0:26:LEU:HD22	22:D0:114:VAL:HG22	1.86	0.57
63:N7:128:GLN:O	63:N7:131:PHE:N	3.24	0.57
10:S8:137:LYS:O	10:S8:140:GLU:N	3.31	0.57
32:E0:39:LEU:HD12	32:E0:42:ARG:HH12	7.03	0.57
17:C5:16:SER:HA	17:C5:20:VAL:O	2.04	0.57
40:L3:153:LYS:HD3	40:L3:154:TYR:CZ	2.39	0.57
1:2:918:U:O3'	16:C4:18:ARG:NH1	2.36	0.57
36:5:3197:G:H2'	36:5:3198:U:H5''	1.86	0.57
47:M0:16:PRO:HD3	47:M0:128:ARG:CZ	2.35	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:L9:90:MET:HB2	46:L9:144:ILE:HG22	2.08	0.57
22:D0:50:LEU:HD22	22:D0:95:ALA:HB2	2.50	0.57
11:S9:163:PRO:HG2	11:S9:164:PHE:HD2	1.69	0.57
7:S5:146:THR:HG23	7:S5:221:ALA:HA	1.86	0.57
1:2:1595:U:H3	1:2:1600:A:H2	1.53	0.57
37:3:3:U:H2'	37:3:4:U:H6	1.70	0.57
1:2:789:A:O2'	6:S4:106:LYS:NZ	2.23	0.57
1:6:776:G:H2'	1:6:777:C:H5''	1.86	0.57
1:2:732:G:O6	88:2:2129:OHX:N5	2.38	0.57
26:D4:89:TYR:HE1	26:D4:93:ARG:HH12	4.25	0.57
21:C9:28:LEU:O	21:C9:29:GLU:HB2	2.32	0.57
39:L2:214:GLY:O	39:L2:215:ASN:HB2	4.59	0.57
1:2:1347:U:O2	1:2:1516:A:H5'	2.04	0.57
13:C1:2:SER:HB2	13:C1:81:HIS:HD2	1.69	0.57
36:1:1029:G:H2'	36:1:1030:A:C8	2.39	0.57
36:1:2712:U:H2'	36:1:2713:U:C6	2.39	0.57
1:6:1432:U:H4'	1:6:1433:G:H5''	1.87	0.57
62:N6:83:ASP:O	62:N6:84:LYS:HB2	2.04	0.57
40:L3:111:SER:O	40:L3:114:VAL:HG23	2.18	0.57
36:1:356:C:OP2	88:1:4155:OHX:N1	2.37	0.57
8:S6:19:ASP:OD1	8:S6:19:ASP:N	2.37	0.57
62:N6:24:SER:OG	62:N6:75:ARG:NH1	2.45	0.57
36:5:621:A:H2'	36:5:622:A:C8	2.39	0.57
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.86	0.57
36:5:2310:U:OP1	88:5:4203:OHX:N2	2.38	0.57
40:L3:53:MET:HG2	40:L3:77:THR:HG22	2.21	0.57
12:C0:32:HIS:CD2	12:C0:35:ILE:HB	2.39	0.57
70:O4:16:ARG:HH11	70:O4:16:ARG:HG3	4.43	0.57
65:N9:20:GLY:O	65:N9:21:ILE:HB	2.39	0.57
6:S4:118:GLU:HA	6:S4:121:TYR:CE1	3.21	0.57
34:SR:161:LYS:O	34:SR:161:LYS:HG2	2.04	0.57
52:M6:159:LYS:NZ	36:5:3243:A:OP1	267.36	0.57
66:O0:53:LYS:HE2	36:5:2552:C:H5	241.77	0.57
52:M6:18:ARG:NH2	36:5:1318:A:OP1	277.02	0.57
34:SR:25:THR:HG21	34:SR:295:SER:HA	2.15	0.57
36:5:3028:G:H2'	36:5:3029:A:C8	2.39	0.57
36:1:1222:G:O2'	36:1:1285:G:N1	2.33	0.57
36:1:501:A:H2'	36:1:502:U:C6	2.39	0.57
1:6:355:G:OP1	88:6:2064:OHX:N5	2.38	0.57
28:D6:41:ILE:HG22	28:D6:68:TYR:HA	1.86	0.57
1:2:67:A:O3'	1:2:68:A:H3'	2.05	0.57
1:2:1199:G:O6	22:D0:67:THR:HG23	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:900:G:H1'	36:1:1589:A:N6	2.20	0.57
44:L7:40:LYS:HE2	44:L7:170:GLU:OE1	3.87	0.57
36:1:3278:C:H2'	36:1:3278:C:O2	2.04	0.57
45:L8:41:GLN:HG3	45:L8:44:ARG:HH12	2.98	0.57
48:M1:15:GLU:HB3	48:M1:130:VAL:HG22	3.08	0.57
5:S3:179:GLN:HE21	5:S3:179:GLN:C	2.07	0.57
18:C6:107:LYS:O	18:C6:111:SER:OG	4.24	0.57
1:2:701:U:H3	1:2:737:A:H61	1.52	0.57
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.29	0.57
58:N2:50:LEU:HB3	58:N2:54:VAL:HG22	1.87	0.57
36:5:677:A:H4'	36:5:678:G:O5'	2.05	0.57
34:SR:70:ASP:OD2	34:SR:155:ARG:NH2	2.32	0.57
36:1:595:G:N1	36:1:609:G:H5''	2.19	0.57
34:SR:26:SER:OG	34:SR:75:ALA:O	2.22	0.57
71:O5:13:SER:C	71:O5:15:GLU:H	2.08	0.57
15:C3:37:ILE:HD12	15:C3:74:ILE:HD12	1.87	0.57
42:L5:64:ILE:HG13	42:L5:105:ILE:HD12	1.85	0.57
15:C3:5:HIS:CE1	15:C3:121:ARG:HG3	2.39	0.57
11:S9:129:ILE:HA	11:S9:134:ILE:CG1	3.87	0.57
28:D6:37:LYS:O	28:D6:38:ARG:NH1	2.38	0.57
1:2:1564:U:H2'	1:2:1565:C:H6	1.68	0.57
36:1:1097:G:H5'	57:N1:129:LYS:HE2	1.86	0.57
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.18	0.57
67:O1:10:ARG:HB3	67:O1:108:VAL:HA	1.87	0.57
1:2:93:A:H1'	6:S4:3:ARG:HB3	1.87	0.57
24:D2:11:LEU:HD11	24:D2:37:PHE:CZ	2.88	0.57
5:S3:117:ARG:HD3	35:SM:122:GLU:HB3	1.86	0.57
34:SR:70:ASP:CB	34:SR:112:SER:HA	2.33	0.57
36:1:2960:C:H2'	36:1:2961:G:C8	2.40	0.57
57:N1:17:ARG:O	57:N1:18:ASP:HB2	2.04	0.57
44:L7:170:GLU:HG3	44:L7:179:LEU:HB3	1.85	0.57
36:5:1192:C:N4	36:5:1301:A:O2'	2.36	0.57
18:C6:99:GLU:HG2	34:SR:57:PRO:HB2	2.64	0.57
75:O9:2:ALA:N	36:5:1493:G:O6	122.18	0.57
36:5:604:G:N7	88:5:4172:OHX:N2	2.52	0.57
17:C5:98:ASN:HB3	17:C5:120:SER:OG	2.05	0.57
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.05	0.57
18:C6:26:LYS:NZ	1:6:1364:G:O3'	436.51	0.57
60:N4:23:ARG:NH2	60:N4:25:ASP:OD1	4.26	0.57
36:5:308:A:H5'	36:5:2223:A:O2'	2.05	0.57
36:5:129:U:H2'	36:5:130:A:C8	2.40	0.57
40:L3:37:ARG:O	40:L3:186:GLY:HA2	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
66:O0:41:LEU:HD12	66:O0:100:ILE:HD12	5.03	0.57
44:L7:139:PRO:HA	44:L7:237:ASN:ND2	2.18	0.57
8:S6:138:ALA:HB2	8:S6:177:ARG:HB3	4.07	0.57
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.87	0.57
46:L9:137:SER:HB2	46:L9:143:GLU:HB3	2.60	0.57
46:L9:136:PHE:CE1	46:L9:144:ILE:HG12	4.71	0.57
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.85	0.57
54:M8:148:GLU:O	54:M8:151:ARG:HG3	2.30	0.57
56:N0:12:ARG:HG3	56:N0:13:ARG:O	4.88	0.57
1:2:1175:U:H2'	1:2:1176:G:C8	2.40	0.57
53:M7:67:ILE:HD12	53:M7:82:ARG:CZ	3.51	0.57
8:S6:142:ARG:HA	8:S6:147:LEU:HD12	1.87	0.57
19:C7:23:LYS:O	19:C7:24:LEU:HB2	2.05	0.57
88:5:4023:OHX:N6	88:5:4222:OHX:N2	2.53	0.57
7:S5:222:LYS:HA	7:S5:225:ARG:HH11	4.38	0.57
69:O3:75:HIS:HB3	69:O3:80:VAL:CG1	2.35	0.57
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	1.87	0.57
6:S4:251:GLU:O	6:S4:255:ARG:HG3	2.57	0.57
1:6:1255:G:O2'	1:6:1256:A:O5'	2.22	0.57
36:1:249:U:O2	36:1:250:U:N3	2.37	0.57
2:S0:86:VAL:HG12	2:S0:174:TRP:CZ2	2.66	0.57
25:D3:28:ASN:OD1	25:D3:28:ASN:N	2.37	0.57
35:SM:127:ALA:HA	35:SM:130:GLU:HB2	1.86	0.57
36:1:1213:G:OP1	56:N0:137:ARG:HD3	2.05	0.56
16:C4:112:ILE:H	28:D6:57:SER:HA	2.06	0.56
3:S1:87:ARG:NH2	3:S1:89:ASP:OD1	4.28	0.56
36:5:2818:U:H5'	36:5:2818:U:C6	2.34	0.56
1:2:1795:U:H3'	28:D6:5:ARG:NH1	2.19	0.56
67:O1:40:ALA:O	67:O1:43:HIS:N	3.81	0.56
67:O1:90:PHE:O	67:O1:91:SER:HB2	4.48	0.56
47:M0:188:GLY:O	47:M0:190:VAL:N	2.31	0.56
46:L9:86:TYR:CD1	46:L9:151:VAL:HG13	2.83	0.56
36:1:2303:A:OP1	77:Q1:23:ARG:NH2	2.38	0.56
1:2:780:A:H62	26:D4:8:ARG:HH21	1.53	0.56
1:2:867:G:OP2	15:C3:3:ARG:NH1	2.37	0.56
2:S0:56:LYS:HZ3	2:S0:158:VAL:HA	2.10	0.56
1:2:1280:C:H2'	1:2:1281:G:C8	2.40	0.56
45:L8:82:LEU:HD12	45:L8:83:ASP:H	1.68	0.56
1:6:1054:U:H2'	1:6:1055:U:H6	1.70	0.56
64:N8:27:LYS:NZ	36:5:801:A:OP1	155.42	0.56
34:SR:225:LEU:HD12	34:SR:228:LYS:HG3	3.49	0.56
64:N8:82:ILE:HG22	64:N8:87:ARG:HG3	2.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:398:A:O2'	36:5:1416:C:OP1	2.19	0.56
41:L4:295:ILE:HG23	41:L4:299:ILE:HD11	1.87	0.56
54:M8:185:LYS:NZ	36:5:779:G:OP1	179.84	0.56
40:L3:56:ILE:HG12	40:L3:323:MET:HE3	1.92	0.56
42:L5:279:LYS:HG2	42:L5:282:ARG:NH1	2.19	0.56
34:SR:133:VAL:O	34:SR:141:LEU:N	2.55	0.56
44:L7:121:LYS:HD2	44:L7:125:GLU:HG2	1.87	0.56
1:2:649:U:O2'	1:2:650:U:O4'	2.23	0.56
57:N1:15:PHE:CE2	57:N1:44:ALA:HB3	2.40	0.56
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.05	0.56
62:N6:48:LEU:HD23	62:N6:49:PRO:HD2	1.87	0.56
19:C7:26:LEU:HD13	19:C7:59:LYS:HG3	1.87	0.56
20:C8:117:LYS:O	20:C8:120:ARG:HD2	3.87	0.56
8:S6:87:ARG:NH1	1:6:159:U:O2'	321.20	0.56
36:1:2997:G:O4'	36:1:3396:U:H5'	2.04	0.56
54:M8:36:LEU:HB3	54:M8:45:ASN:ND2	2.81	0.56
14:C2:89:ILE:HD13	14:C2:90:LYS:H	1.70	0.56
25:D3:108:GLY:HA2	1:6:600:U:OP2	357.57	0.56
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.06	0.56
1:6:729:G:O2'	1:6:730:G:O5'	2.21	0.56
49:M3:59:ARG:NH1	49:M3:66:ASN:O	2.65	0.56
1:2:432:G:H2'	1:2:433:C:O4'	2.05	0.56
1:2:265:A:N7	8:S6:190:GLN:NE2	2.52	0.56
36:5:1239:C:N3	36:5:1249:G:N2	2.52	0.56
50:M4:115:PHE:O	50:M4:119:GLN:HG3	2.05	0.56
36:1:3050:U:OP2	88:1:4195:OHX:N2	2.38	0.56
47:M0:140:THR:HG21	47:M0:144:ASN:HD22	1.71	0.56
36:1:1062:A:N3	57:N1:130:ARG:NH2	2.53	0.56
3:S1:59:ASP:HA	3:S1:62:LYS:HZ1	1.70	0.56
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.87	0.56
63:N7:36:HIS:HD2	63:N7:74:VAL:HG11	3.01	0.56
1:2:331:A:H5'	10:S8:33:PRO:HA	1.88	0.56
40:L3:233:TRP:CD1	40:L3:265:ALA:HB1	2.40	0.56
46:L9:70:THR:HB	36:5:3112:G:O2'	329.49	0.56
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.39	0.56
1:2:1499:G:OP1	21:C9:122:ARG:NH1	2.38	0.56
5:S3:114:ALA:HB3	5:S3:117:ARG:HB3	2.74	0.56
37:3:4:U:H2'	37:3:5:G:H8	1.70	0.56
38:8:77:A:H2'	38:8:78:G:O4'	2.05	0.56
44:L7:229:PHE:HD1	44:L7:229:PHE:C	2.38	0.56
36:1:3243:A:C8	52:M6:156:LEU:HD22	2.40	0.56
22:D0:118:VAL:HG13	22:D0:119:ALA:H	3.32	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:M8:165:ILE:HG21	54:M8:168:THR:HG22	5.16	0.56
36:5:252:U:H4'	36:5:253:A:C5'	2.36	0.56
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.06	0.56
71:O5:105:ARG:HB2	71:O5:105:ARG:HH21	1.70	0.56
36:1:2442:G:H22	36:1:2505:U:H3	1.52	0.56
33:E1:102:VAL:O	33:E1:104:SER:N	2.37	0.56
88:1:3979:OHX:N1	38:4:31:G:OP2	2.38	0.56
36:1:132:C:H2'	36:1:133:U:H5''	1.86	0.56
36:5:1861:G:OP2	88:5:3998:OHX:N2	2.38	0.56
71:O5:47:VAL:O	71:O5:51:ILE:HG13	2.37	0.56
34:SR:69:GLN:O	34:SR:83:ALA:HB3	2.05	0.56
6:S4:242:LYS:N	6:S4:242:LYS:HE3	2.20	0.56
40:L3:274:SER:OG	36:5:3139:A:OP1	228.33	0.56
36:5:370:U:H4'	36:5:404:G:H5'	1.88	0.56
1:6:209:U:H2'	1:6:210:A:H8	1.68	0.56
40:L3:296:THR:HB	40:L3:299:ASP:H	1.70	0.56
36:1:562:C:H2'	36:1:563:U:C6	2.39	0.56
6:S4:45:ILE:HB	6:S4:80:THR:HG22	1.88	0.56
1:2:1479:A:H2'	1:2:1480:G:H8	1.70	0.56
40:L3:76:VAL:HA	40:L3:326:GLY:H	1.71	0.56
3:S1:183:GLN:O	3:S1:187:LYS:N	2.38	0.56
1:2:912:U:O4	1:2:914:G:N2	2.38	0.56
7:S5:142:PRO:HG2	7:S5:170:GLN:HE22	1.70	0.56
7:S5:91:GLU:HA	7:S5:94:THR:HG23	1.86	0.56
37:7:23:A:H2'	37:7:24:A:C8	2.41	0.56
26:D4:124:ARG:NH2	1:6:151:G:O6	319.60	0.56
1:2:1226:A:O2'	1:2:1227:A:OP1	2.21	0.56
41:L4:341:SER:O	41:L4:342:LYS:HB3	4.75	0.56
21:C9:97:SER:OG	21:C9:100:ILE:HB	2.06	0.56
39:L2:243:THR:OG1	36:5:2244:A:H5''	228.28	0.56
78:Q2:71:ARG:HH21	78:Q2:80:ARG:HH21	1.53	0.56
36:1:3155:U:H3'	36:1:3156:U:C4'	2.36	0.56
42:L5:49:TYR:CE1	42:L5:75:LEU:HD12	3.76	0.56
88:5:4023:OHX:N5	88:5:4222:OHX:N2	2.53	0.56
8:S6:202:ARG:NH2	1:6:127:G:N7	330.32	0.56
1:2:1588:G:H1	1:2:1608:U:H3	1.52	0.56
36:1:2900:A:N3	36:1:3025:C:O2'	2.37	0.56
37:3:64:A:H3'	47:M0:204:GLY:O	2.04	0.56
49:M3:185:LYS:NZ	49:M3:189:GLU:OE2	2.38	0.56
15:C3:93:LYS:HG3	15:C3:150:VAL:HG11	1.86	0.56
36:5:816:A:H5''	36:5:920:A:H62	1.70	0.56
1:2:1609:U:OP2	18:C6:14:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1358:G:H2'	1:2:1359:C:C6	2.40	0.56
56:N0:79:VAL:HG21	56:N0:106:LEU:HD21	2.15	0.56
54:M8:150:VAL:HA	54:M8:153:PHE:CD1	2.40	0.56
1:6:922:G:H2'	1:6:923:A:C8	2.40	0.56
1:6:1783:C:H2'	1:6:1784:C:H6	1.71	0.56
5:S3:179:GLN:OE1	5:S3:180:GLY:N	5.08	0.56
62:N6:50:ILE:HD12	62:N6:70:ILE:HG12	2.70	0.56
45:L8:241:LYS:HB2	36:5:2586:G:N7	185.04	0.56
59:N3:10:LYS:NZ	59:N3:56:ASP:OD1	2.39	0.56
42:L5:56:THR:O	42:L5:58:LYS:N	2.33	0.56
38:8:16:G:O6	88:8:217:OHX:N6	2.38	0.56
36:1:2989:U:O2'	40:L3:232:ARG:NH2	2.38	0.56
33:E1:108:VAL:HG12	33:E1:114:VAL:HG22	3.48	0.56
10:S8:8:ARG:HD3	10:S8:21:PHE:HD1	1.69	0.56
36:1:2763:U:H5'	54:M8:176:ARG:HG3	1.88	0.56
36:1:2676:A:H4'	36:1:2677:G:O5'	2.04	0.56
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.88	0.56
45:L8:50:VAL:HG22	45:L8:52:TRP:CE2	2.40	0.56
32:E0:13:LYS:O	32:E0:17:GLN:HG2	2.27	0.56
32:E0:14:VAL:HA	32:E0:17:GLN:HG2	2.34	0.56
1:6:1688:U:H3	1:6:1713:G:H1	1.52	0.56
8:S6:114:VAL:HG12	8:S6:115:LYS:HD3	1.87	0.56
1:2:1726:G:N7	88:2:2099:OHX:N4	2.54	0.56
37:3:46:A:OP1	42:L5:158:ARG:HG2	2.05	0.56
10:S8:31:ARG:NH2	1:6:333:A:OP1	297.66	0.56
36:1:2357:A:H2'	36:1:2358:A:C8	2.41	0.56
25:D3:107:PHE:CE1	25:D3:123:LYS:HB3	2.41	0.56
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.39	0.56
55:M9:86:GLU:OE2	55:M9:91:SER:OG	2.18	0.56
5:S3:220:PRO:O	5:S3:221:SER:OG	2.26	0.56
78:Q2:46:LYS:NZ	36:5:44:U:O2	164.53	0.56
54:M8:185:LYS:HG3	54:M8:186:VAL:HG23	1.87	0.56
54:M8:123:THR:OG1	54:M8:126:GLN:HG3	2.05	0.56
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.13	0.56
59:N3:104:ASN:HD21	59:N3:108:GLU:HB2	2.80	0.56
1:6:329:G:H2'	1:6:330:G:H8	1.71	0.56
1:2:7:G:N7	4:S2:205:ARG:NH1	2.50	0.56
28:D6:79:ILE:HA	28:D6:84:VAL:HB	1.88	0.56
34:SR:22:SER:CB	34:SR:70:ASP:HA	2.35	0.56
11:S9:58:ASP:O	11:S9:61:THR:OG1	4.72	0.56
4:S2:98:PHE:HE1	35:SM:113:ASP:HB3	1.71	0.56
88:1:4015:OHX:N6	88:1:4186:OHX:N1	2.54	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
61:N5:96:LYS:HE3	61:N5:107:VAL:HB	1.88	0.56
36:5:378:A:N7	36:5:391:A:H2	2.04	0.56
48:M1:71:VAL:HB	48:M1:76:ALA:HB2	2.94	0.56
36:1:1549:U:H2'	36:1:1550:C:H6	1.70	0.56
49:M3:177:LYS:HG3	72:O6:11:LEU:HD13	2.62	0.56
62:N6:11:ASP:HB3	62:N6:14:LYS:HG3	2.60	0.56
51:M5:110:ALA:HB1	51:M5:113:LEU:HD22	1.87	0.56
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.05	0.56
6:S4:49:ARG:HB3	6:S4:55:ALA:HB3	4.28	0.56
44:L7:160:ARG:HD2	44:L7:203:TRP:CE2	2.40	0.56
21:C9:57:ARG:HH11	21:C9:57:ARG:HG3	1.77	0.56
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.05	0.56
48:M1:155:THR:O	48:M1:159:THR:HG23	5.35	0.56
49:M3:126:PHE:CD2	71:O5:115:LYS:HG2	2.39	0.56
36:5:1804:A:H2'	36:5:1805:C:H6	1.66	0.56
15:C3:129:TYR:HB3	15:C3:135:LEU:HG	2.34	0.56
1:6:837:G:O6	88:6:2098:OHX:N1	2.38	0.56
36:1:2314:U:O2'	36:1:2315:G:OP1	2.23	0.56
36:1:438:A:O2'	36:1:495:G:H4'	2.05	0.56
27:D5:71:ILE:HG22	27:D5:75:LEU:HB2	1.88	0.56
1:6:1680:G:O6	88:6:2187:OHX:N1	2.38	0.56
78:Q2:71:ARG:HH21	78:Q2:80:ARG:NH2	2.04	0.56
4:S2:111:VAL:O	4:S2:136:VAL:HA	2.05	0.56
52:M6:156:LEU:HD22	36:5:3243:A:C8	265.32	0.56
57:N1:120:LYS:C	57:N1:122:GLN:H	2.08	0.56
1:2:953:G:OP2	15:C3:94:LYS:NZ	2.39	0.56
1:6:922:G:H2'	1:6:923:A:H8	1.70	0.56
36:5:1631:C:H5''	36:5:1632:A:H5''	1.88	0.56
51:M5:38:ARG:NH2	38:8:143:U:OP1	108.59	0.56
62:N6:50:ILE:HG21	62:N6:80:VAL:HG21	2.17	0.56
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.45	0.56
18:C6:109:PHE:HB3	18:C6:117:LEU:HD21	1.88	0.56
7:S5:37:GLN:OE1	18:C6:53:LEU:HD22	2.53	0.56
65:N9:28:LYS:HG3	65:N9:29:TYR:CD1	2.40	0.56
7:S5:94:THR:CG2	7:S5:114:ILE:HG13	2.59	0.56
16:C4:37:GLU:HA	1:6:895:G:O2'	258.57	0.56
2:S0:88:LYS:O	2:S0:92:HIS:ND1	3.87	0.56
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.06	0.56
46:L9:92:TYR:CG	46:L9:142:ASP:HB3	2.83	0.56
1:2:771:A:OP1	11:S9:9:SER:OG	2.23	0.56
5:S3:134:CYS:SG	5:S3:135:GLU:N	2.79	0.56
1:2:526:A:H2'	1:2:527:A:O4'	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
70:O4:85:VAL:HA	70:O4:88:ARG:HG3	1.86	0.56
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	2.08	0.56
35:SM:107:ASN:CG	35:SM:112:ASP:HB3	2.25	0.56
48:M1:73:GLY:O	48:M1:75:LYS:N	2.39	0.56
36:1:1444:G:H2'	36:1:1445:U:O4'	2.05	0.56
78:Q2:78:LYS:HG2	78:Q2:79:THR:N	2.63	0.56
13:C1:93:TYR:OH	13:C1:98:ASN:OD1	2.24	0.56
18:C6:115:THR:O	18:C6:117:LEU:N	2.38	0.56
26:D4:124:ARG:HH11	26:D4:124:ARG:HB3	1.71	0.56
36:1:1674:G:OP2	88:1:3957:OHX:N2	2.39	0.56
1:2:542:A:N1	32:E0:28:LYS:HD2	2.21	0.56
1:2:74:U:O2'	1:2:75:U:OP2	2.23	0.56
36:1:924:G:OP1	88:1:4157:OHX:N5	2.39	0.56
36:1:1493:G:O6	75:O9:2:ALA:HB2	2.05	0.56
30:D8:19:THR:O	30:D8:23:GLY:HA2	2.06	0.56
56:N0:108:GLN:NE2	36:5:1322:U:O2	293.24	0.56
36:1:2554:A:N7	79:Q3:62:LYS:NZ	2.54	0.56
36:5:3159:C:H2'	36:5:3160:U:C6	2.41	0.56
36:5:955:U:H2'	36:5:956:U:C6	2.41	0.56
1:2:1274:C:H5	35:SM:96:ARG:H	1.53	0.56
58:N2:82:LYS:NZ	36:5:1686:U:O4	162.25	0.56
5:S3:178:ARG:NE	5:S3:178:ARG:H	1.96	0.56
1:2:703:G:H2'	1:2:704:C:H5'	1.88	0.56
12:C0:14:TYR:CE1	12:C0:18:GLU:HG3	2.41	0.56
1:2:196:G:O6	10:S8:141:ARG:NH2	2.39	0.56
27:D5:60:VAL:HG13	27:D5:101:TYR:HB2	3.10	0.56
44:L7:222:HIS:ND1	44:L7:224:ILE:HG13	2.21	0.56
41:L4:192:GLY:O	41:L4:195:ARG:N	2.51	0.56
36:5:2533:G:O6	88:5:4044:OHX:N2	2.39	0.56
46:L9:124:ARG:HG2	46:L9:164:ILE:HD12	1.88	0.56
88:5:4023:OHX:N5	88:5:4222:OHX:N1	2.54	0.56
8:S6:114:VAL:HG12	8:S6:115:LYS:HG2	4.66	0.56
1:2:878:G:H21	15:C3:101:HIS:HE2	1.54	0.56
59:N3:15:LEU:HD22	59:N3:51:ALA:HB3	4.23	0.56
66:O0:51:LEU:HD11	70:O4:91:ARG:HA	1.87	0.56
36:5:1936:A:H2'	36:5:1937:U:O4'	2.05	0.56
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.87	0.56
36:5:119:U:H4'	36:5:120:G:H3'	1.87	0.56
28:D6:88:SER:O	28:D6:92:ARG:HG3	2.05	0.56
1:2:552:G:C6	1:2:553:G:C6	2.94	0.56
15:C3:46:THR:O	15:C3:50:ILE:HG13	2.52	0.56
56:N0:70:THR:O	56:N0:70:THR:OG1	2.72	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:L7:203:TRP:CD1	44:L7:204:PRO:HD2	2.42	0.55
1:2:1488:G:H3'	1:2:1515:A:H61	1.72	0.55
1:6:1525:A:H2'	1:6:1526:A:O4'	2.05	0.55
18:C6:72:GLY:HA2	1:6:1608:U:H5''	402.77	0.55
36:1:2407:C:H2'	36:1:2408:U:H6	1.70	0.55
20:C8:41:ARG:NH2	21:C9:36:ILE:O	3.56	0.55
36:1:1062:A:H5''	36:1:1063:G:H5'	1.88	0.55
41:L4:271:LYS:HB2	41:L4:274:TYR:HB3	1.94	0.55
42:L5:187:THR:HG23	42:L5:189:GLU:HB2	1.88	0.55
1:2:990:C:O2'	16:C4:127:ARG:HD3	2.05	0.55
36:5:1654:A:C2'	36:5:1655:G:H5'	2.35	0.55
56:N0:12:ARG:HG2	56:N0:24:LEU:HD23	1.87	0.55
74:O8:45:VAL:HG23	74:O8:52:TYR:HB2	1.87	0.55
6:S4:222:LEU:O	6:S4:224:ASN:N	2.39	0.55
36:5:1581:C:OP2	36:5:1581:C:H4'	2.06	0.55
1:6:292:U:H2'	1:6:293:U:C6	2.40	0.55
48:M1:11:ASP:O	48:M1:12:LEU:HB2	2.06	0.55
1:6:540:G:O2'	1:6:542:A:H5'	2.06	0.55
57:N1:56:PHE:CZ	57:N1:78:LYS:HD3	2.41	0.55
33:E1:119:ARG:HH11	33:E1:152:ALA:HB3	1.71	0.55
13:C1:21:ASN:HD22	13:C1:32:LYS:H	2.06	0.55
36:5:2533:G:N2	36:5:2546:C:O2	2.39	0.55
1:2:355:G:O6	88:2:2027:OHX:N6	2.39	0.55
25:D3:43:PHE:CE1	25:D3:49:ALA:HB3	2.64	0.55
1:2:753:A:H5'	6:S4:221:ARG:HG3	1.86	0.55
1:6:1623:C:H2'	1:6:1624:C:H6	1.70	0.55
68:O2:24:ARG:HG2	68:O2:25:TYR:CZ	2.71	0.55
21:C9:45:MET:HE3	21:C9:46:PRO:HD2	2.32	0.55
63:N7:76:ASN:HB3	63:N7:79:HIS:ND1	2.31	0.55
36:1:3157:U:H4'	36:1:3158:G:H5'	1.88	0.55
6:S4:34:GLY:HA3	6:S4:83:PRO:HG2	2.33	0.55
47:M0:174:THR:OG1	47:M0:175:ASN:O	6.30	0.55
18:C6:60:PHE:HA	18:C6:63:ILE:HG13	1.87	0.55
61:N5:115:ARG:HD3	61:N5:121:LYS:HE3	3.71	0.55
45:L8:24:ASN:N	45:L8:27:THR:HG1	5.27	0.55
2:S0:41:ARG:HH11	2:S0:45:VAL:HG21	2.59	0.55
1:2:38:C:C2'	1:2:39:A:H5'	2.36	0.55
1:6:193:U:C4	1:6:195:G:C8	2.94	0.55
7:S5:119:ASP:O	7:S5:123:VAL:HG23	2.42	0.55
1:2:1459:C:N4	20:C8:139:LYS:HE2	2.21	0.55
46:L9:172:ILE:HD13	46:L9:172:ILE:H	1.70	0.55
1:2:1600:A:H4'	1:2:1601:G:OP1	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:153:GLN:HB3	34:SR:202:LEU:HD22	1.87	0.55
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.41	0.55
12:C0:77:ARG:HD3	12:C0:84:GLU:HA	1.87	0.55
21:C9:117:SER:HB2	21:C9:123:ARG:HB3	1.88	0.55
88:1:4015:OHX:N3	88:1:4186:OHX:N5	2.54	0.55
36:1:2699:G:OP2	88:1:3916:OHX:N1	2.40	0.55
1:2:405:C:O2'	8:S6:92:ARG:O	2.17	0.55
52:M6:114:LYS:HG2	36:5:3180:A:C6	272.00	0.55
36:1:824:C:H2'	36:1:825:U:C6	2.41	0.55
75:O9:4:GLN:HG2	36:5:1588:A:C2	125.51	0.55
45:L8:161:GLU:HA	45:L8:164:VAL:HG22	1.96	0.55
36:5:2236:G:OP1	88:5:4254:OHX:N3	2.39	0.55
68:O2:43:ARG:NH1	36:5:1368:U:H5'	194.22	0.55
41:L4:283:THR:HG22	41:L4:285:ASP:N	2.13	0.55
1:2:513:U:H2'	1:2:514:G:C8	2.42	0.55
52:M6:39:GLU:HG2	52:M6:40:GLU:HG2	1.86	0.55
7:S5:91:GLU:OE2	7:S5:107:LYS:NZ	2.33	0.55
2:S0:41:ARG:NH1	2:S0:45:VAL:HG21	3.22	0.55
1:6:1699:G:H22	1:6:1701:A:H3'	1.72	0.55
13:C1:5:LEU:HD23	13:C1:7:VAL:HA	8.57	0.55
38:4:23:U:C4'	62:N6:17:LYS:HG2	2.37	0.55
6:S4:87:MET:SD	6:S4:123:LEU:HB2	2.80	0.55
55:M9:105:LEU:HD23	55:M9:138:LEU:HD13	1.88	0.55
36:1:1769:G:N7	88:1:4183:OHX:N2	2.55	0.55
36:1:3185:U:HO2'	56:N0:170:THR:HG1	1.53	0.55
18:C6:93:HIS:HA	18:C6:97:VAL:HG23	2.10	0.55
1:2:1114:G:O2'	1:2:1130:G:O6	2.19	0.55
1:6:276:C:H1'	1:6:277:U:H5	1.70	0.55
39:L2:234:LYS:NZ	36:5:2162:U:OP1	197.14	0.55
67:O1:79:ARG:NE	67:O1:79:ARG:H	2.05	0.55
4:S2:90:THR:HG23	4:S2:92:ALA:H	1.72	0.55
1:2:730:G:O6	88:2:2156:OHX:N4	2.39	0.55
36:1:1506:A:H1'	36:1:1848:G:O6	2.07	0.55
64:N8:3:SER:O	64:N8:6:THR:HG22	2.05	0.55
36:1:1231:A:OP2	88:1:4098:OHX:N6	2.39	0.55
36:1:2443:A:O2'	36:1:2444:C:OP2	2.22	0.55
45:L8:241:LYS:HD3	36:5:2586:G:C8	185.31	0.55
57:N1:130:ARG:NH1	36:5:1098:A:OP2	254.10	0.55
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.89	0.55
52:M6:62:THR:HA	36:5:1306:G:C6	233.49	0.55
52:M6:62:THR:H	52:M6:69:GLY:HA3	1.86	0.55
36:1:2514:U:OP1	36:1:2514:U:H6	1.90	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.22	0.55
44:L7:229:PHE:CD1	44:L7:229:PHE:C	2.98	0.55
48:M1:9:MET:O	48:M1:11:ASP:N	3.62	0.55
46:L9:4:ILE:HG22	56:N0:142:GLN:CD	2.27	0.55
45:L8:151:VAL:HG13	45:L8:199:ALA:HB2	2.79	0.55
36:1:2698:G:O2'	57:N1:12:ARG:HG2	2.06	0.55
11:S9:124:HIS:CE1	11:S9:128:LEU:HD11	4.05	0.55
88:1:4015:OHX:N3	88:1:4186:OHX:N1	2.55	0.55
49:M3:92:THR:HB	71:O5:114:ARG:HG2	1.88	0.55
47:M0:187:ALA:HB3	47:M0:189:GLU:HG3	3.45	0.55
48:M1:20:ASN:HB3	48:M1:126:ASP:HB2	2.47	0.55
79:Q3:38:ASP:OD1	79:Q3:45:LYS:HB3	2.06	0.55
4:S2:170:ILE:HB	4:S2:197:TYR:HB2	1.87	0.55
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.20	0.55
45:L8:215:VAL:O	45:L8:219:ASP:HB2	2.71	0.55
45:L8:225:LYS:O	45:L8:229:VAL:HG23	2.07	0.55
1:2:320:U:H3'	1:2:321:C:H5''	1.88	0.55
36:5:2319:U:OP1	88:5:4004:OHX:N5	2.40	0.55
36:5:395:A:H5''	36:5:396:A:OP2	2.07	0.55
1:2:264:G:N7	88:2:2034:OHX:N1	2.53	0.55
1:2:61:A:H8	1:2:269:G:HO2'	1.50	0.55
64:N8:40:HIS:HA	36:5:958:C:H1'	189.14	0.55
1:2:717:C:H42	1:2:720:G:H22	1.54	0.55
10:S8:76:THR:HG22	10:S8:105:ASP:HB3	2.61	0.55
7:S5:142:PRO:HG2	7:S5:170:GLN:NE2	2.21	0.55
7:S5:35:GLN:O	7:S5:37:GLN:N	3.04	0.55
67:O1:10:ARG:HH12	67:O1:44:MET:HG2	6.40	0.55
42:L5:68:THR:HG22	42:L5:71:GLY:H	2.89	0.55
34:SR:135:THR:HG23	34:SR:141:LEU:HD21	3.63	0.55
36:1:1950:U:H3	36:1:2096:A:H2	1.54	0.55
36:1:863:C:H2'	36:1:864:G:O4'	2.06	0.55
36:5:2964:G:N2	36:5:2967:A:OP2	2.37	0.55
6:S4:157:ASN:OD1	6:S4:222:LEU:HD11	4.82	0.55
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.89	0.55
65:N9:14:ARG:NH1	65:N9:18:ARG:HH11	2.04	0.55
34:SR:159:ASN:OD1	34:SR:159:ASN:N	3.89	0.55
48:M1:152:HIS:O	48:M1:153:LYS:HB3	4.81	0.55
1:2:1761:U:O2'	1:2:1762:A:OP2	2.23	0.55
40:L3:169:THR:CG2	40:L3:171:LEU:HG	2.94	0.55
1:2:782:U:H4'	1:2:783:G:OP2	2.07	0.55
36:5:2537:U:HO2'	36:5:2538:U:C4'	2.19	0.55
40:L3:30:LYS:NZ	36:5:3139:A:OP2	235.23	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:849:C:H2'	36:1:850:U:H6	1.72	0.55
59:N3:17:LEU:HD21	59:N3:98:ASN:ND2	2.22	0.55
3:S1:36:SER:OG	3:S1:231:LEU:O	2.24	0.55
79:Q3:56:THR:HB	79:Q3:63:THR:OG1	2.07	0.55
49:M3:63:VAL:HG22	36:5:72:C:H5'	113.67	0.55
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.42	0.55
56:N0:1:MET:HE1	56:N0:32:SER:N	2.21	0.55
3:S1:109:LYS:O	3:S1:113:MET:HG3	2.07	0.55
1:6:1360:A:C4	1:6:1361:U:H1'	2.42	0.55
68:O2:31:ASN:OD1	68:O2:31:ASN:N	2.35	0.55
46:L9:34:LEU:HD21	46:L9:149:ASN:HB3	1.89	0.55
40:L3:204:ALA:O	40:L3:207:SER:OG	2.23	0.55
40:L3:46:PHE:CE2	40:L3:205:VAL:HG13	3.62	0.55
68:O2:49:ASN:OD1	68:O2:49:ASN:N	3.16	0.55
38:4:43:A:OP1	88:4:231:OHX:N5	2.39	0.55
5:S3:53:THR:HG22	5:S3:91:VAL:HG12	1.88	0.55
52:M6:108:ILE:HG12	52:M6:108:ILE:O	4.78	0.55
13:C1:93:TYR:HB2	13:C1:100:TYR:CE1	2.73	0.55
3:S1:190:PRO:HG2	3:S1:192:VAL:HG23	2.47	0.55
27:D5:57:TYR:N	27:D5:57:TYR:CD2	3.05	0.55
13:C1:57:LYS:HB2	13:C1:110:HIS:CE1	2.42	0.55
18:C6:38:LEU:O	18:C6:40:GLU:N	2.63	0.55
1:2:991:G:OP2	88:2:2131:OHX:N1	2.40	0.55
1:6:825:U:O2'	1:6:826:U:H6	1.90	0.55
24:D2:26:LEU:HD21	24:D2:60:LYS:HD3	1.89	0.55
41:L4:82:THR:HG23	41:L4:84:ARG:N	2.78	0.55
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.37	0.55
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.87	0.55
42:L5:39:GLN:OE1	42:L5:40:HIS:N	2.54	0.55
1:6:542:A:H8	1:6:543:C:H5'	1.70	0.55
1:6:711:U:H3'	1:6:712:G:H8	1.70	0.55
45:L8:186:LEU:HD23	45:L8:189:LEU:HD21	1.89	0.55
1:2:277:U:H6	1:2:279:G:H22	1.54	0.55
52:M6:181:ALA:O	52:M6:184:THR:HG22	2.06	0.55
36:1:573:C:H2'	36:1:574:U:C6	2.42	0.55
10:S8:194:ARG:HD2	10:S8:195:ARG:HH12	3.09	0.55
45:L8:100:GLU:OE1	45:L8:108:ARG:NH1	2.46	0.55
73:O7:43:LYS:HE3	36:5:55:G:OP1	116.27	0.55
35:SM:39:PRO:HD3	48:M1:52:TYR:CZ	2.97	0.55
1:2:1252:C:O4'	33:E1:133:ALA:HB2	2.07	0.55
68:O2:55:ILE:HB	36:5:947:G:H5''	188.30	0.55
6:S4:179:LYS:N	6:S4:194:THR:O	2.35	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:33:LEU:HB3	34:SR:45:TRP:HB2	1.88	0.55
1:2:579:A:C8	5:S3:178:ARG:HD2	2.41	0.55
1:6:416:A:H4'	1:6:417:A:OP2	2.07	0.55
36:1:2407:C:H2'	36:1:2408:U:C6	2.42	0.55
7:S5:92:ARG:HH11	7:S5:92:ARG:CG	3.07	0.55
15:C3:55:ARG:HD3	29:D7:47:PHE:CG	2.41	0.55
47:M0:74:LYS:O	47:M0:78:THR:HG23	2.23	0.55
36:1:770:G:N7	88:1:4108:OHX:N6	2.54	0.55
36:1:2207:A:H2'	36:1:2208:A:H8	1.71	0.55
1:2:1683:C:O2'	1:2:1684:U:O5'	2.24	0.55
34:SR:159:ASN:O	34:SR:161:LYS:N	4.11	0.55
1:6:542:A:C8	1:6:543:C:H5'	2.42	0.55
46:L9:4:ILE:HG23	56:N0:142:GLN:CD	3.69	0.55
12:C0:12:HIS:CE1	12:C0:49:LEU:HD21	2.42	0.55
26:D4:120:GLY:HA2	1:6:85:A:O3'	335.42	0.55
21:C9:28:LEU:CD1	21:C9:29:GLU:H	2.19	0.55
1:6:1427:A:O2'	1:6:1428:G:OP1	2.22	0.55
1:6:700:C:H2'	1:6:701:U:C6	2.42	0.55
36:1:230:U:H2'	36:1:231:G:O4'	2.07	0.55
36:5:272:G:OP2	88:5:4077:OHX:N6	2.40	0.55
38:8:68:G:O6	88:8:227:OHX:N6	2.39	0.55
74:O8:43:PHE:HZ	74:O8:66:ILE:HG12	1.72	0.55
36:5:2592:G:H4'	36:5:2594:C:C2	2.41	0.55
1:6:1649:G:N7	88:6:2107:OHX:N2	2.55	0.55
36:5:306:A:C2	36:5:2784:G:H1'	2.42	0.55
1:2:1514:U:H5''	1:2:1515:A:O4'	2.06	0.55
1:6:1227:A:H4'	1:6:1228:G:H5'	1.87	0.55
7:S5:73:THR:HG23	18:C6:114:ARG:HD2	1.89	0.55
1:2:1277:G:H5'	5:S3:140:GLY:HA2	1.88	0.55
47:M0:36:LEU:HD21	47:M0:69:ARG:HH11	1.72	0.55
36:1:1944:U:H2'	36:1:1945:A:H8	1.68	0.55
36:1:1245:A:H3'	36:1:1246:G:H5''	1.87	0.55
4:S2:139:ILE:HG13	4:S2:218:ILE:HB	4.31	0.55
56:N0:13:ARG:HH11	56:N0:13:ARG:HG3	4.42	0.55
56:N0:12:ARG:HB3	56:N0:24:LEU:HD23	2.24	0.55
36:1:2273:G:N2	36:1:2311:G:H2'	2.21	0.55
36:1:2273:G:O6	88:1:4152:OHX:N5	2.40	0.55
57:N1:28:SER:HA	57:N1:31:LEU:HB2	1.89	0.55
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.88	0.55
1:6:484:C:N4	1:6:503:G:H1	2.04	0.55
63:N7:70:PRO:HG3	63:N7:115:LYS:HB2	1.87	0.55
8:S6:148:SER:O	8:S6:151:ASP:HB2	3.22	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1634:G:OP1	63:N7:107:ARG:NH1	2.40	0.55
79:Q3:62:LYS:NZ	36:5:2554:A:N7	218.60	0.55
8:S6:94:ARG:HH21	1:6:407:A:H5'	289.70	0.55
59:N3:93:LEU:H	59:N3:93:LEU:HD23	1.71	0.55
2:S0:193:GLN:O	2:S0:195:TRP:N	2.40	0.55
36:1:1051:U:H4'	57:N1:19:PHE:CD2	2.41	0.55
61:N5:99:VAL:HG11	61:N5:124:VAL:HG11	1.88	0.55
36:1:3018:C:H2'	36:1:3019:U:O4'	2.07	0.55
43:L6:46:ARG:HD3	36:5:3270:U:O2'	242.52	0.55
36:5:1103:A:H3'	36:5:1104:G:H5'	1.88	0.55
8:S6:5:ILE:HG23	8:S6:111:LEU:HB2	1.89	0.55
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	1.89	0.55
42:L5:122:VAL:HG23	42:L5:123:GLU:N	3.06	0.55
36:1:2107:A:H2	36:1:3344:A:C8	2.24	0.55
9:S7:168:SER:O	9:S7:172:VAL:HG23	2.55	0.55
3:S1:61:LEU:HG	3:S1:64:ARG:HH21	1.72	0.55
67:O1:41:LYS:HA	67:O1:46:THR:HG23	4.15	0.55
51:M5:31:ARG:HG3	51:M5:129:TYR:OH	3.36	0.55
34:SR:109:ASP:O	34:SR:126:SER:OG	2.18	0.55
36:1:75:G:H5''	49:M3:58:VAL:HG13	1.88	0.55
11:S9:163:PRO:HG2	11:S9:164:PHE:CD2	2.42	0.55
21:C9:33:TYR:O	21:C9:34:VAL:HB	4.66	0.55
36:1:1235:U:H4'	36:1:1236:G:H5'	1.89	0.55
1:2:1234:A:H1'	33:E1:140:TYR:OH	2.06	0.55
37:7:3:U:H2'	37:7:4:U:H6	1.71	0.55
2:S0:200:ASP:HB2	19:C7:85:VAL:CG2	2.36	0.55
12:C0:50:THR:HG21	12:C0:57:THR:OG1	2.06	0.55
40:L3:10:ARG:NH1	40:L3:12:GLY:O	2.40	0.55
34:SR:255:ALA:HB2	34:SR:292:LEU:HD21	2.77	0.55
48:M1:54:VAL:O	48:M1:56:THR:N	2.38	0.55
64:N8:34:MET:HB2	36:5:95:A:H5''	162.86	0.55
1:6:926:A:H2'	1:6:927:C:C6	2.42	0.55
69:O3:45:LEU:HA	69:O3:71:VAL:HG12	2.20	0.55
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.30	0.55
3:S1:81:PHE:HA	3:S1:106:THR:HG21	2.32	0.55
4:S2:159:THR:HG21	1:6:1097:U:O3'	383.14	0.55
57:N1:104:GLU:OE1	57:N1:130:ARG:NH1	2.40	0.55
36:5:2211:U:C5	36:5:2234:G:O6	2.54	0.55
1:6:1354:G:H5'	1:6:1355:C:OP2	2.07	0.55
36:1:2232:A:H2'	36:1:2233:A:C8	2.42	0.55
72:O6:4:LYS:HD2	72:O6:14:GLY:HA3	1.89	0.55
42:L5:88:ILE:HD13	42:L5:239:ILE:HG22	6.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
71:O5:68:GLN:C	71:O5:70:TYR:H	2.11	0.55
4:S2:229:LEU:O	23:D1:16:LYS:NZ	2.39	0.55
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.40	0.55
39:L2:204:MET:CE	39:L2:209:HIS:HB2	2.37	0.55
10:S8:8:ARG:NH2	10:S8:28:GLU:OE1	9.77	0.55
1:6:800:U:H2'	1:6:801:G:C8	2.42	0.55
54:M8:70:ALA:O	54:M8:73:GLN:HB2	2.07	0.55
34:SR:93:ASP:HB3	34:SR:96:THR:HG22	1.89	0.55
36:5:208:C:C2'	36:5:209:A:H5'	2.37	0.55
71:O5:13:SER:O	71:O5:15:GLU:N	2.40	0.55
1:6:407:A:H2'	1:6:408:C:C6	2.41	0.55
52:M6:78:ARG:HH11	52:M6:78:ARG:CG	2.20	0.55
36:1:2615:G:H2'	36:1:2616:C:C6	2.42	0.55
36:5:2169:G:O6	88:5:3957:OHX:N5	2.39	0.55
36:5:2298:U:O4	36:5:2923:U:H5	1.90	0.55
36:1:1226:G:H2'	36:1:1227:C:C6	2.42	0.55
37:7:91:G:H2'	37:7:92:A:C8	2.42	0.55
67:O1:37:LYS:HA	67:O1:49:VAL:HG11	1.89	0.55
55:M9:90:PRO:HG2	55:M9:93:VAL:HB	3.98	0.55
64:N8:13:GLY:HA2	36:5:943:U:H3'	163.95	0.55
28:D6:71:LEU:HD13	28:D6:73:TYR:OH	3.41	0.55
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.40	0.55
40:L3:185:GLY:O	40:L3:191:LYS:NZ	2.76	0.54
36:1:2094:C:H2'	36:1:2095:G:C8	2.42	0.54
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.37	0.54
1:6:230:C:N4	1:6:235:G:H1	2.01	0.54
18:C6:83:GLN:HE21	18:C6:115:THR:HG23	8.54	0.54
1:2:1445:G:N2	33:E1:90:LYS:O	2.39	0.54
63:N7:23:VAL:HB	63:N7:43:VAL:HB	1.89	0.54
63:N7:3:LYS:O	63:N7:5:LEU:HB2	4.31	0.54
24:D2:24:GLN:HE22	29:D7:4:VAL:HA	3.47	0.54
1:2:1338:C:OP1	18:C6:12:LYS:NZ	2.40	0.54
34:SR:22:SER:H	34:SR:291:SER:HB3	1.73	0.54
20:C8:6:GLN:O	27:D5:42:LEU:HD11	2.08	0.54
56:N0:36:ILE:O	56:N0:40:ARG:HG2	4.94	0.54
1:6:538:A:C8	1:6:543:C:N4	2.74	0.54
36:1:2677:G:H2'	36:1:2679:A:C2	2.40	0.54
19:C7:27:ASP:O	19:C7:31:ASN:ND2	3.61	0.54
2:S0:175:TYR:HE1	2:S0:197:ILE:HG22	1.78	0.54
36:1:2616:C:C2'	36:1:2617:U:H5'	2.37	0.54
6:S4:128:LYS:HD3	6:S4:130:GLN:HE21	1.72	0.54
28:D6:11:ASN:HB3	1:6:934:C:H6	332.34	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:50:THR:O	17:C5:50:THR:OG1	2.26	0.54
63:N7:64:LYS:HD2	36:5:1812:G:O6	186.35	0.54
24:D2:86:ILE:HD12	24:D2:87:GLU:N	2.21	0.54
19:C7:71:PHE:CZ	19:C7:74:GLN:HB2	5.65	0.54
36:1:1562:C:H2'	36:1:1563:C:C6	2.42	0.54
1:2:918:U:H2'	1:2:919:A:C8	2.42	0.54
50:M4:121:MET:HG3	36:5:3214:U:C4	282.94	0.54
47:M0:144:ASN:O	47:M0:148:VAL:HG23	2.59	0.54
28:D6:38:ARG:HH21	28:D6:83:ILE:HG21	1.72	0.54
39:L2:28:LYS:HB3	39:L2:123:ARG:HB3	1.89	0.54
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.88	0.54
29:D7:47:PHE:HD1	29:D7:49:HIS:O	1.91	0.54
18:C6:126:PRO:O	18:C6:128:LYS:HE3	2.08	0.54
36:1:263:C:H2'	36:1:264:G:O4'	2.06	0.54
1:2:219:A:H5'	1:2:831:U:O2'	2.08	0.54
42:L5:40:HIS:HD2	42:L5:42:ALA:H	1.55	0.54
1:6:484:C:H42	1:6:503:G:H22	1.55	0.54
38:4:84:C:H1'	62:N6:113:LYS:HG3	1.89	0.54
70:O4:8:ARG:HH21	70:O4:31:ARG:HD2	5.46	0.54
15:C3:41:ALA:CB	15:C3:75:LEU:HD21	3.21	0.54
38:4:79:A:H5''	71:O5:43:LYS:NZ	2.22	0.54
44:L7:228:SER:HA	44:L7:232:ARG:NH2	3.16	0.54
36:1:2946:A:H5''	36:1:2947:G:H5'	1.89	0.54
36:5:2209:U:H4'	36:5:2210:G:OP1	2.05	0.54
67:O1:29:ALA:HB3	67:O1:30:PRO:HD3	2.03	0.54
36:5:3066:U:O4	88:5:4109:OHX:N4	2.40	0.54
1:6:453:U:O4	88:6:2059:OHX:N4	2.40	0.54
36:5:3237:U:H2'	36:5:3238:G:O4'	2.07	0.54
10:S8:115:ALA:O	10:S8:117:TYR:N	4.25	0.54
52:M6:25:LYS:HE3	36:5:1176:C:OP1	247.44	0.54
15:C3:23:PRO:HD2	15:C3:26:PHE:HB2	2.59	0.54
55:M9:5:ARG:HG3	55:M9:5:ARG:HH11	2.16	0.54
36:5:2718:U:H2'	36:5:2719:U:C6	2.43	0.54
36:5:1688:U:H2'	36:5:1689:U:C6	2.41	0.54
5:S3:80:ALA:HB3	5:S3:83:THR:HG21	1.89	0.54
36:1:1658:G:H2'	36:1:1659:U:C6	2.42	0.54
44:L7:158:LYS:HD2	44:L7:159:GLN:HA	5.71	0.54
41:L4:22:LEU:HD22	41:L4:23:PRO:HD2	1.89	0.54
1:2:916:U:O2	16:C4:41:ARG:NH2	2.40	0.54
17:C5:73:PRO:HD2	17:C5:93:VAL:HG23	2.66	0.54
13:C1:80:MET:HB3	13:C1:83:THR:HG23	3.54	0.54
1:6:1458:G:H5''	1:6:1459:C:OP2	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D4:2:SER:N	26:D4:32:ARG:HD3	4.77	0.54
1:2:1235:C:C2	33:E1:138:ARG:NH2	2.75	0.54
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.39	0.54
1:6:470:A:C8	1:6:470:A:H5''	2.42	0.54
45:L8:139:VAL:O	45:L8:143:ILE:HG13	2.65	0.54
34:SR:127:ARG:HG2	34:SR:150:TRP:CD1	2.42	0.54
1:6:492:A:H1'	1:6:496:G:H1	1.73	0.54
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	1.88	0.54
36:1:1114:U:H5''	64:N8:22:ILE:HD13	1.89	0.54
50:M4:99:TRP:O	50:M4:103:ILE:HG13	2.06	0.54
36:1:190:U:H2'	62:N6:60:ARG:NH2	2.22	0.54
36:5:441:U:H2'	36:5:442:G:C8	2.41	0.54
46:L9:170:LYS:HE3	36:5:2902:A:OP1	318.88	0.54
46:L9:16:VAL:HG12	46:L9:29:GLY:HA3	1.89	0.54
1:2:1239:U:O4	88:2:2047:OHX:N2	2.40	0.54
36:5:1657:C:C5	36:5:1797:A:H5''	2.43	0.54
2:S0:167:LYS:HB3	2:S0:168:HIS:CD2	3.31	0.54
63:N7:85:TYR:HE2	63:N7:129:TRP:CE2	3.54	0.54
13:C1:98:ASN:HD22	24:D2:79:PHE:HD1	1.53	0.54
29:D7:47:PHE:CE1	29:D7:49:HIS:HB2	2.94	0.54
44:L7:151:ARG:HD2	44:L7:244:ASN:HD22	1.73	0.54
7:S5:36:ALA:HB1	7:S5:42:LEU:HD12	5.11	0.54
1:6:833:U:OP2	88:6:2200:OHX:N5	2.39	0.54
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.80	0.54
36:5:1949:G:N2	36:5:2097:U:O2	2.28	0.54
1:2:647:G:H1	1:2:687:G:H1	1.54	0.54
36:1:2339:C:P	59:N3:48:ARG:HG2	2.47	0.54
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.20	0.54
1:2:1595:U:N3	1:2:1600:A:H2	2.05	0.54
34:SR:70:ASP:HB3	34:SR:113:VAL:HG12	1.90	0.54
42:L5:40:HIS:CD2	42:L5:42:ALA:H	2.25	0.54
64:N8:46:ASP:O	64:N8:47:LYS:HB3	2.36	0.54
36:5:3166:C:H42	36:5:3284:G:H1	1.54	0.54
45:L8:245:LYS:NZ	45:L8:246:MET:HB3	2.23	0.54
38:4:79:A:O3'	38:4:80:A:H4'	2.07	0.54
47:M0:202:LYS:HA	37:7:64:A:C6	342.42	0.54
38:4:62:C:O2	88:4:225:OHX:N5	2.41	0.54
36:1:1498:A:H2'	36:1:1499:C:C6	2.42	0.54
36:1:1126:G:H5''	47:M0:119:TRP:HZ3	1.72	0.54
16:C4:128:LYS:HD3	28:D6:27:SER:HB3	2.66	0.54
46:L9:113:GLU:OE1	46:L9:115:ARG:NE	2.70	0.54
41:L4:36:HIS:O	41:L4:40:THR:HG23	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1320:U:O2	1:2:1322:A:H5'	2.07	0.54
1:2:145:A:O2'	1:2:146:U:O5'	2.23	0.54
1:2:1460:A:O3'	35:SM:72:ARG:NH2	2.41	0.54
52:M6:24:ALA:HA	52:M6:27:LEU:HD12	2.30	0.54
1:2:16:G:H2'	1:2:17:C:C6	2.43	0.54
42:L5:85:ARG:HD2	42:L5:86:TYR:CE2	2.42	0.54
6:S4:187:ARG:NH1	1:6:753:A:OP2	376.76	0.54
36:1:1240:A:H3'	36:1:1241:U:C5'	2.37	0.54
28:D6:84:VAL:O	28:D6:86:VAL:N	2.31	0.54
1:6:1699:G:N1	1:6:1701:A:H5''	2.21	0.54
1:6:1698:G:N2	1:6:1699:G:N7	2.55	0.54
35:SM:23:LYS:HG3	35:SM:24:GLU:H	4.57	0.54
1:6:1173:C:H2'	1:6:1174:C:H6	1.72	0.54
20:C8:140:THR:HA	20:C8:143:ARG:NH1	2.61	0.54
1:2:1561:U:H2'	1:2:1562:G:H8	1.71	0.54
7:S5:175:LEU:HD22	7:S5:198:LEU:HD23	1.90	0.54
11:S9:171:ARG:NH1	11:S9:174:ARG:HD3	3.51	0.54
36:5:253:A:HO2'	36:5:254:A:H8	1.56	0.54
6:S4:93:ASP:O	6:S4:95:THR:N	3.76	0.54
36:5:209:A:H4'	36:5:211:A:N7	2.22	0.54
36:1:595:G:C8	36:1:609:G:C6	2.95	0.54
4:S2:157:LYS:HG2	4:S2:170:ILE:HG23	3.20	0.54
2:S0:175:TYR:OH	2:S0:197:ILE:O	2.83	0.54
36:1:1480:G:H4'	36:1:1481:A:OP1	2.08	0.54
41:L4:337:GLU:O	41:L4:339:LEU:N	2.41	0.54
36:5:1157:G:H2'	36:5:1158:A:O4'	2.07	0.54
70:O4:46:ASP:OD2	70:O4:80:ARG:NH1	4.97	0.54
46:L9:20:ILE:HD12	50:M4:7:VAL:HG22	1.89	0.54
36:5:3280:U:O2'	36:5:3281:U:H5''	2.08	0.54
6:S4:52:LEU:HB3	6:S4:54:TYR:CD2	2.49	0.54
36:1:2403:G:N2	36:1:2404:A:H62	2.04	0.54
34:SR:64:HIS:NE2	34:SR:82:SER:HB2	2.22	0.54
42:L5:184:ASP:OD2	42:L5:187:THR:HG22	2.07	0.54
36:5:283:G:O6	36:5:304:G:H1'	2.07	0.54
36:5:1235:U:C4'	36:5:1236:G:H5'	2.37	0.54
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	1.88	0.54
1:2:930:A:OP1	28:D6:32:LYS:NZ	2.40	0.54
7:S5:149:VAL:HG13	7:S5:151:GLY:H	5.60	0.54
40:L3:3:HIS:CD2	40:L3:3:HIS:O	2.61	0.54
20:C8:145:ARG:HD3	35:SM:68:ARG:CZ	2.91	0.54
27:D5:71:ILE:HG21	27:D5:76:ALA:HB2	4.43	0.54
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.42	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2571:U:O2'	36:1:2572:C:O2	2.23	0.54
44:L7:143:THR:CG2	44:L7:241:LYS:HE3	2.38	0.54
25:D3:57:LEU:HD22	32:E0:4:VAL:HG12	1.90	0.54
33:E1:119:ARG:HB3	33:E1:119:ARG:NH2	4.83	0.54
36:5:1017:C:H2'	36:5:1017:C:OP1	2.07	0.54
4:S2:235:LEU:HD13	23:D1:33:GLN:NE2	2.23	0.54
36:1:2552:C:H5	66:O0:53:LYS:HE3	1.72	0.54
6:S4:43:PRO:HB2	6:S4:46:VAL:HG23	1.89	0.54
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	2.01	0.54
88:5:4023:OHX:N3	88:5:4222:OHX:N1	2.55	0.54
36:5:3106:A:H2'	36:5:3107:U:O4'	2.08	0.54
1:2:296:U:H2'	1:2:297:U:H6	1.73	0.54
36:1:70:A:N1	36:1:313:A:O2'	2.33	0.54
34:SR:260:ILE:HB	34:SR:274:LEU:HD12	3.07	0.54
41:L4:255:PHE:O	41:L4:258:LEU:HB2	2.07	0.54
40:L3:57:VAL:HG23	40:L3:358:TRP:HE3	1.71	0.54
24:D2:82:LYS:O	24:D2:84:GLY:N	2.35	0.54
61:N5:91:ASN:O	61:N5:95:ILE:HG13	2.07	0.54
36:5:2213:A:H2'	36:5:2214:A:C8	2.42	0.54
10:S8:84:HIS:CE1	10:S8:86:SER:HB2	2.52	0.54
35:SM:102:THR:CG2	35:SM:105:LYS:HB2	2.38	0.54
1:2:609:U:H4'	1:2:610:G:O5'	2.08	0.54
34:SR:48:THR:HG22	34:SR:55:GLY:HA2	5.53	0.54
52:M6:98:ALA:HA	52:M6:101:ARG:HH11	1.72	0.54
1:6:449:C:H2'	1:6:450:U:H6	1.72	0.54
36:5:3362:A:H2'	36:5:3363:U:O4'	2.07	0.54
67:O1:43:HIS:O	67:O1:44:MET:HE2	5.07	0.54
1:2:1471:A:OP1	7:S5:185:ARG:NH1	2.41	0.54
1:6:162:A:H2'	1:6:163:G:C8	2.43	0.54
27:D5:49:ARG:NH2	27:D5:53:GLU:OE2	4.03	0.54
1:2:1720:G:O6	88:2:2082:OHX:N5	2.39	0.54
24:D2:104:LEU:HB2	24:D2:124:LYS:O	2.08	0.54
34:SR:184:ASN:HD22	34:SR:185:GLN:H	5.25	0.54
10:S8:163:GLY:HA3	36:1:3354:U:H1'	1.88	0.54
64:N8:116:GLY:HA2	64:N8:137:LYS:HZ3	1.70	0.54
49:M3:50:PRO:HB2	49:M3:140:SER:O	2.08	0.54
57:N1:78:LYS:HE3	57:N1:87:LYS:HD2	1.89	0.54
36:5:1232:C:H2'	36:5:1233:G:H8	1.72	0.54
1:2:485:A:H2'	1:2:486:G:O4'	2.08	0.54
88:1:4015:OHX:N6	88:1:4186:OHX:N5	2.55	0.54
20:C8:72:ILE:HG12	20:C8:79:TYR:CG	3.20	0.54
36:1:3351:U:O2'	36:1:3352:U:OP1	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
59:N3:83:LYS:HE3	59:N3:84:SER:O	4.08	0.54
1:6:694:U:H3'	1:6:695:U:O2	2.08	0.54
8:S6:122:GLU:O	8:S6:124:LEU:N	2.56	0.54
38:4:52:A:H4'	75:O9:19:GLN:HA	1.89	0.54
36:5:2844:C:H5''	36:5:2845:A:OP2	2.08	0.54
41:L4:304:GLN:C	41:L4:306:THR:H	2.31	0.54
3:S1:212:VAL:O	3:S1:214:LYS:N	2.40	0.54
64:N8:86:LYS:O	64:N8:89:GLN:HB3	2.06	0.54
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.06	0.54
36:1:1088:U:H2'	36:1:1089:G:H8	1.73	0.54
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.42	0.54
1:2:1362:U:H1'	1:2:1363:U:C4	2.43	0.54
1:2:1186:U:O4	1:2:1200:G:N2	2.41	0.54
6:S4:29:PRO:HD3	1:6:448:C:OP1	373.54	0.54
52:M6:108:ILE:HD12	52:M6:160:ARG:CZ	2.38	0.54
28:D6:44:ILE:HD12	28:D6:67:THR:HG22	9.29	0.54
24:D2:77:PRO:HG3	25:D3:7:ARG:O	2.08	0.54
36:1:3230:G:H4'	50:M4:132:LYS:HD3	1.90	0.54
1:2:1291:G:H1	1:2:1324:G:H1	1.55	0.54
1:6:217:A:C8	1:6:218:A:C8	2.96	0.54
36:5:1566:A:H2'	36:5:1567:U:H5'	1.88	0.54
23:D1:30:ALA:O	23:D1:60:ARG:HD3	3.11	0.54
1:6:578:U:O2	88:6:2150:OHX:N3	2.40	0.54
36:1:246:U:H2'	36:1:247:C:C6	2.42	0.54
1:2:719:U:OP2	1:2:720:G:N1	2.40	0.54
36:1:3006:A:H2'	36:1:3007:U:O4'	2.08	0.54
36:1:2947:G:H4'	36:1:2947:G:OP2	2.08	0.54
40:L3:160:VAL:HG22	40:L3:183:LEU:HD22	1.90	0.54
1:6:1133:A:H2'	1:6:1134:C:O4'	2.08	0.54
36:5:1438:U:H2'	36:5:1439:U:C6	2.43	0.54
51:M5:154:PRO:O	51:M5:157:LYS:HG3	3.27	0.54
36:1:2373:A:N3	36:1:2824:G:O2'	2.35	0.54
36:1:1234:G:H1	36:1:1254:C:H42	1.56	0.54
41:L4:234:ASN:OD1	41:L4:236:LEU:N	2.59	0.54
1:2:1586:A:H1'	1:2:1611:A:N6	2.23	0.54
9:S7:162:ILE:HB	9:S7:169:PHE:CE2	2.42	0.54
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.41	0.54
18:C6:110:THR:HA	18:C6:113:ASP:HB2	2.64	0.54
47:M0:138:VAL:HG21	47:M0:152:LEU:HD11	1.89	0.54
67:O1:44:MET:HB3	67:O1:77:ARG:NH1	4.46	0.54
8:S6:176:GLN:CG	1:6:169:A:H5'	329.00	0.54
72:O6:60:LEU:HD11	72:O6:68:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:C8:145:ARG:HB3	35:SM:68:ARG:NH1	3.76	0.54
21:C9:84:LYS:HD2	21:C9:86:ARG:HG2	1.90	0.54
7:S5:194:LEU:HD22	7:S5:198:LEU:HG	3.69	0.54
3:S1:30:PHE:HB3	3:S1:96:LEU:HD22	4.93	0.54
1:6:710:U:H5'	1:6:711:U:OP2	2.08	0.54
57:N1:78:LYS:HE2	36:5:2724:U:OP1	223.70	0.54
26:D4:89:TYR:CD1	1:6:525:A:H5''	396.78	0.54
36:1:2697:A:H2'	36:1:2698:G:C8	2.43	0.54
1:6:1255:G:O2'	1:6:1256:A:H8	1.91	0.54
6:S4:176:ASP:HB2	6:S4:179:LYS:HZ3	1.72	0.54
61:N5:105:VAL:HG12	61:N5:130:TYR:CD2	4.36	0.54
58:N2:14:THR:HG23	58:N2:66:VAL:HG13	1.89	0.54
26:D4:11:LYS:NZ	1:6:775:G:N7	413.49	0.54
65:N9:5:LYS:HG3	65:N9:6:ASN:H	2.22	0.54
1:2:417:A:H4'	1:2:418:G:O5'	2.07	0.54
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.08	0.54
74:O8:16:ARG:HG3	74:O8:70:PRO:HG3	2.63	0.54
1:6:848:C:H2'	1:6:849:C:C6	2.43	0.54
41:L4:300:ARG:CG	41:L4:300:ARG:HH11	2.81	0.54
17:C5:87:PRO:HA	17:C5:90:ILE:HD12	1.89	0.54
28:D6:7:SER:O	28:D6:9:GLY:N	3.92	0.54
79:Q3:4:ARG:NH1	36:5:837:A:OP2	237.92	0.54
1:2:1521:G:O6	21:C9:68:ARG:NH1	2.41	0.54
1:6:1161:C:H2'	1:6:1162:C:H6	1.72	0.54
23:D1:42:GLU:O	23:D1:44:ARG:N	2.39	0.54
4:S2:80:VAL:O	4:S2:81:MET:HB2	2.07	0.54
36:1:290:G:H2'	36:1:291:C:C6	2.43	0.54
76:Q0:83:LYS:O	76:Q0:87:SER:OG	3.02	0.54
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.73	0.54
34:SR:178:VAL:HB	34:SR:192:PHE:HB2	2.18	0.54
16:C4:87:GLY:HA3	16:C4:120:PRO:HG2	2.10	0.54
16:C4:19:ILE:HB	16:C4:83:ILE:HG13	1.90	0.54
66:O0:53:LYS:HE2	36:5:2552:C:C5	241.10	0.54
43:L6:170:LYS:HB2	43:L6:173:MET:HB2	3.21	0.54
70:O4:85:VAL:O	70:O4:89:ILE:HG13	2.34	0.54
6:S4:34:GLY:HA3	6:S4:83:PRO:HG3	1.89	0.54
36:1:2880:U:H1'	40:L3:250:ALA:HB3	1.90	0.54
65:N9:7:HIS:O	36:5:1135:A:H5'	227.12	0.54
1:6:591:A:H2'	1:6:592:A:C8	2.43	0.54
36:5:3016:A:H2'	36:5:3017:A:C8	2.43	0.54
36:1:3082:C:H2'	36:1:3083:G:C8	2.43	0.54
36:1:209:A:H4'	36:1:211:A:C8	2.43	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:S7:63:PRO:O	9:S7:64:VAL:HB	2.21	0.54
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.43	0.54
36:1:2626:A:H5'	36:1:2627:C:H5''	1.90	0.54
7:S5:152:GLY:O	7:S5:154:ALA:N	2.41	0.54
1:6:521:A:H2'	1:6:522:U:O4'	2.08	0.54
36:1:508:U:H2'	36:1:509:U:C6	2.43	0.54
36:5:1019:G:H22	36:5:1033:U:H3	1.54	0.54
69:O3:10:LYS:O	69:O3:33:GLU:HB2	2.38	0.54
36:1:1864:A:OP1	55:M9:88:ARG:NH1	2.40	0.54
1:2:1151:A:O2'	1:2:1152:A:H5'	2.08	0.54
42:L5:120:LYS:NZ	42:L5:123:GLU:OE1	6.22	0.53
77:Q1:2:ARG:HD2	77:Q1:4:LYS:HB3	5.17	0.53
47:M0:12:GLN:HE21	47:M0:128:ARG:NH1	2.06	0.53
11:S9:92:LYS:O	11:S9:93:LEU:HD23	2.08	0.53
37:3:110:G:OP2	42:L5:279:LYS:HG3	2.07	0.53
42:L5:279:LYS:HD2	42:L5:282:ARG:NH1	4.61	0.53
63:N7:114:VAL:HA	63:N7:117:ALA:HB3	1.89	0.53
1:6:152:U:C2	1:6:163:G:N2	2.75	0.53
47:M0:216:TYR:CG	47:M0:217:PHE:N	2.75	0.53
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.90	0.53
51:M5:184:LYS:H	51:M5:186:GLY:H	1.88	0.53
68:O2:122:PRO:O	68:O2:123:LYS:HB2	2.08	0.53
1:2:1789:G:N7	16:C4:132:ARG:NH2	2.51	0.53
42:L5:140:ARG:HH21	36:5:1080:A:P	229.47	0.53
39:L2:104:LEU:O	39:L2:139:HIS:HE1	5.05	0.53
16:C4:25:ASP:OD1	16:C4:26:THR:N	2.90	0.53
16:C4:136:ARG:HD2	1:6:1769:U:O2	303.45	0.53
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.90	0.53
47:M0:202:LYS:HA	37:7:64:A:C5	341.59	0.53
1:6:224:C:H2'	1:6:225:A:C8	2.44	0.53
17:C5:51:SER:OG	17:C5:53:PRO:HD2	7.13	0.53
5:S3:203:PRO:HB3	1:6:1332:C:H4'	428.18	0.53
16:C4:103:ARG:HH12	28:D6:48:ALA:HB3	3.80	0.53
73:O7:58:THR:O	73:O7:61:THR:HG23	2.08	0.53
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.75	0.53
36:1:2401:A:O3'	41:L4:68:GLY:HA2	2.08	0.53
36:1:2689:A:H2'	36:1:2689:A:N3	2.22	0.53
47:M0:215:GLU:H	47:M0:215:GLU:CD	4.61	0.53
36:1:196:G:N2	36:1:198:A:H3'	2.23	0.53
59:N3:79:VAL:HB	59:N3:118:VAL:HG13	2.56	0.53
1:6:485:A:N6	1:6:486:G:N3	2.57	0.53
3:S1:39:GLU:HG3	3:S1:40:ASN:N	2.15	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	4.13	0.53
40:L3:293:ASN:HB2	40:L3:305:ILE:H	2.92	0.53
24:D2:15:ASN:O	24:D2:19:LYS:HG3	2.29	0.53
25:D3:65:ASN:ND2	25:D3:116:ASP:OD1	2.64	0.53
34:SR:90:ARG:HH21	34:SR:102:ARG:HE	2.78	0.53
20:C8:54:LEU:H	20:C8:54:LEU:HD12	4.26	0.53
20:C8:123:ARG:HG3	20:C8:133:VAL:HG21	1.90	0.53
45:L8:129:PRO:HB3	36:5:121:A:C2	101.50	0.53
21:C9:42:GLY:HA2	21:C9:84:LYS:HG3	1.90	0.53
1:6:1234:A:H2'	1:6:1235:C:H5	1.73	0.53
50:M4:21:VAL:HB	50:M4:63:VAL:HG13	2.67	0.53
40:L3:60:LEU:HD11	40:L3:62:ARG:HE	1.73	0.53
1:2:527:A:OP2	88:2:2053:OHX:N4	2.41	0.53
36:5:776:U:H5	36:5:2719:U:O2	1.92	0.53
36:5:2103:U:H2'	36:5:2104:A:C8	2.42	0.53
66:O0:18:ILE:HD13	66:O0:81:VAL:HB	1.90	0.53
47:M0:205:SER:O	47:M0:209:ASN:HB2	2.08	0.53
36:1:2767:U:OP2	88:1:4146:OHX:N2	2.41	0.53
1:2:975:C:H5"	15:C3:109:LYS:HE3	1.89	0.53
30:D8:5:THR:O	30:D8:7:VAL:N	3.83	0.53
1:2:540:G:H2'	1:2:540:G:OP2	2.09	0.53
13:C1:69:LYS:O	13:C1:70:ILE:HD12	2.08	0.53
43:L6:55:LEU:HD11	43:L6:66:SER:HB2	3.23	0.53
57:N1:91:LEU:HD12	57:N1:96:ILE:HD11	2.00	0.53
60:N4:62:GLY:O	60:N4:64:THR:OG1	2.26	0.53
24:D2:15:ASN:HD21	24:D2:71:LYS:HA	1.73	0.53
7:S5:163:SER:HB3	30:D8:46:GLY:HA3	1.88	0.53
1:2:1031:U:H4'	1:2:1032:G:OP2	2.06	0.53
7:S5:43:PHE:HZ	7:S5:90:ILE:HG21	1.80	0.53
1:2:197:A:H2'	1:2:198:A:C8	2.44	0.53
76:Q0:102:ARG:NE	36:5:2896:A:OP1	321.37	0.53
22:D0:96:PRO:HG2	22:D0:99:ILE:HG22	1.91	0.53
1:2:1654:G:H2'	1:2:1745:G:N2	2.22	0.53
1:2:647:G:N2	1:2:687:G:N2	2.56	0.53
53:M7:26:PHE:HE1	53:M7:120:ASN:HA	1.74	0.53
38:4:85:G:C8	38:4:85:G:H3'	2.43	0.53
39:L2:209:HIS:HD2	39:L2:211:HIS:N	2.07	0.53
45:L8:101:THR:OG1	45:L8:104:GLU:HG3	5.23	0.53
1:2:161:U:OP2	8:S6:87:ARG:NH2	2.41	0.53
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.09	0.53
39:L2:215:ASN:HB2	36:5:2968:G:N7	217.25	0.53
1:2:1130:G:OP2	88:2:2074:OHX:N2	2.42	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:L9:44:THR:HG22	36:5:3186:A:C2	327.36	0.53
36:5:1586:G:OP1	88:5:3994:OHX:N3	2.42	0.53
36:5:2822:U:OP2	88:5:3956:OHX:N1	2.41	0.53
41:L4:264:SER:OG	41:L4:267:VAL:HG12	2.09	0.53
16:C4:12:GLN:HB3	16:C4:77:THR:OG1	2.09	0.53
36:5:3041:U:H2'	36:5:3042:U:C6	2.43	0.53
39:L2:90:ALA:HB2	39:L2:101:VAL:HG13	2.04	0.53
36:1:528:U:H2'	36:1:529:A:C8	2.44	0.53
23:D1:81:ASN:N	23:D1:81:ASN:OD1	3.17	0.53
22:D0:70:THR:HG23	1:6:1280:C:O2'	389.09	0.53
62:N6:52:ARG:C	62:N6:54:ASP:H	2.10	0.53
30:D8:16:LEU:HB2	30:D8:27:GLN:O	2.08	0.53
36:1:1260:A:H1'	36:1:1280:C:H1'	1.91	0.53
1:6:250:C:H2'	1:6:251:A:C8	2.43	0.53
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.44	0.53
36:5:1796:G:O6	88:5:4232:OHX:N5	2.42	0.53
34:SR:11:GLY:HA3	34:SR:54:PHE:HB2	1.90	0.53
22:D0:97:VAL:HG13	22:D0:98:GLN:H	2.33	0.53
68:O2:98:HIS:HB3	36:5:1411:C:P	147.07	0.53
61:N5:63:ILE:HA	61:N5:86:VAL:HG23	1.91	0.53
36:1:1117:G:OP1	65:N9:4:SER:HB2	2.08	0.53
21:C9:126:GLU:H	21:C9:126:GLU:CD	2.19	0.53
16:C4:108:SER:OG	16:C4:108:SER:O	2.26	0.53
28:D6:26:CYS:SG	28:D6:74:CYS:SG	3.76	0.53
41:L4:293:SER:HB2	41:L4:294:GLU:OE1	2.08	0.53
3:S1:70:LEU:HD12	3:S1:82:ARG:HB2	1.90	0.53
36:1:3344:A:H2	36:1:3361:G:N2	2.01	0.53
8:S6:58:LYS:O	8:S6:59:GLN:HB2	2.08	0.53
66:O0:13:LYS:O	66:O0:17:VAL:HG23	2.29	0.53
3:S1:23:PRO:O	3:S1:27:LYS:HG2	2.85	0.53
52:M6:68:ARG:NH1	36:5:2988:C:P	216.34	0.53
22:D0:42:VAL:HG23	22:D0:91:ILE:HD13	1.90	0.53
36:1:3276:G:O6	53:M7:171:ARG:NH1	2.41	0.53
40:L3:161:LEU:HB3	40:L3:178:LEU:HD11	1.88	0.53
1:6:484:C:H42	1:6:503:G:N2	2.06	0.53
32:E0:51:ASN:HB3	32:E0:53:LYS:HG2	6.30	0.53
6:S4:86:PHE:O	6:S4:87:MET:HB2	2.08	0.53
2:S0:36:TYR:OH	23:D1:66:ASP:OD2	2.21	0.53
66:O0:50:VAL:HG11	36:5:2552:C:H2'	234.61	0.53
71:O5:47:VAL:HA	71:O5:50:SER:HB2	2.03	0.53
2:S0:167:LYS:HE3	2:S0:168:HIS:NE2	2.60	0.53
1:6:312:A:H4'	1:6:313:U:H5''	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
68:O2:23:ASP:OD2	36:5:424:G:O2'	184.31	0.53
1:6:1230:A:H8	1:6:1258:U:C5	2.27	0.53
43:L6:142:ASP:O	43:L6:146:ILE:HG12	2.09	0.53
71:O5:10:ARG:NH2	38:8:65:A:O3'	33.11	0.53
34:SR:24:ALA:HB2	34:SR:72:THR:H	1.72	0.53
53:M7:22:LEU:HD12	53:M7:146:ILE:HG13	1.90	0.53
42:L5:21:ARG:HH11	42:L5:21:ARG:HG2	2.06	0.53
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.49	0.53
63:N7:16:GLY:O	63:N7:18:TYR:N	2.48	0.53
69:O3:49:ILE:HG23	69:O3:100:ILE:HG13	1.90	0.53
23:D1:35:ASN:OD1	23:D1:52:THR:HB	2.41	0.53
71:O5:89:ARG:HD2	38:8:38:U:C4	67.86	0.53
36:1:1942:U:O2'	36:1:3345:G:O2'	2.21	0.53
36:5:2897:A:H2'	36:5:2899:C:C5'	2.38	0.53
28:D6:87:ARG:HD3	1:6:1796:C:OP1	345.75	0.53
68:O2:97:ALA:O	68:O2:100:ILE:HG12	2.45	0.53
47:M0:192:ASP:HA	47:M0:197:VAL:HG23	3.02	0.53
20:C8:4:VAL:HG21	27:D5:82:HIS:CG	3.41	0.53
49:M3:87:ALA:O	49:M3:91:ARG:HG3	2.09	0.53
49:M3:164:GLU:O	49:M3:166:ALA:N	2.38	0.53
36:1:2254:U:H2'	36:1:2261:G:H22	1.74	0.53
37:7:3:U:H2'	37:7:4:U:C6	2.44	0.53
3:S1:123:ALA:HB2	3:S1:165:ARG:HD2	1.91	0.53
52:M6:181:ALA:C	52:M6:183:ALA:H	2.12	0.53
36:1:1765:U:H5''	55:M9:43:LYS:HE2	1.91	0.53
40:L3:153:LYS:HG2	40:L3:154:TYR:CE2	3.87	0.53
36:5:378:A:H3'	36:5:379:C:H6	1.73	0.53
46:L9:20:ILE:HD12	46:L9:45:PHE:CG	4.64	0.53
8:S6:7:TYR:CE1	8:S6:125:THR:HA	3.32	0.53
36:5:1701:C:H2'	36:5:1702:U:O4'	2.08	0.53
2:S0:27:ARG:HG3	2:S0:44:GLY:O	2.09	0.53
1:6:1429:G:H2'	1:6:1430:U:C6	2.43	0.53
36:1:2810:C:OP1	88:1:4095:OHX:N6	2.42	0.53
41:L4:120:TYR:CE2	41:L4:277:PRO:HB3	2.44	0.53
1:2:511:A:N6	1:2:539:G:O6	2.37	0.53
1:6:180:A:H2'	1:6:181:A:O4'	2.07	0.53
4:S2:78:ASP:O	4:S2:79:GLU:HB3	2.08	0.53
36:1:656:A:H2'	36:1:657:A:C8	2.43	0.53
10:S8:185:GLU:HG2	13:C1:23:PRO:HG3	1.90	0.53
36:1:1362:G:H2'	36:1:1363:A:C8	2.44	0.53
1:2:919:A:H5'	16:C4:18:ARG:HH12	1.73	0.53
22:D0:27:THR:HB	22:D0:88:LYS:CG	2.39	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:25:LEU:HA	17:C5:28:MET:HE2	1.91	0.53
3:S1:184:LEU:HA	3:S1:187:LYS:HE3	1.91	0.53
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.91	0.53
36:1:2522:G:O6	39:L2:70:ARG:NH2	2.42	0.53
8:S6:137:ARG:HH21	8:S6:177:ARG:HE	1.55	0.53
10:S8:138:ASN:HA	10:S8:141:ARG:HD2	1.90	0.53
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.08	0.53
57:N1:44:ALA:HB2	57:N1:53:PRO:HG2	1.90	0.53
58:N2:67:SER:OG	58:N2:69:ALA:O	2.43	0.53
36:1:2257:C:H2'	36:1:2258:U:O4'	2.09	0.53
20:C8:128:PHE:CD2	35:SM:61:ILE:HG22	2.44	0.53
52:M6:182:ASN:O	52:M6:185:ALA:N	4.83	0.53
13:C1:2:SER:HB2	13:C1:81:HIS:CD2	2.44	0.53
9:S7:64:VAL:HG22	9:S7:94:ALA:HB1	3.03	0.53
55:M9:172:ARG:O	55:M9:176:ARG:HG2	2.11	0.53
36:1:391:A:OP2	88:1:4160:OHX:N1	2.42	0.53
36:1:627:U:H4'	36:1:1399:A:O2'	2.09	0.53
36:1:3174:A:H2'	36:1:3175:U:H5'	1.91	0.53
1:6:738:G:O6	88:6:2071:OHX:N4	2.42	0.53
1:6:961:U:H2'	1:6:962:C:C6	2.44	0.53
1:6:1321:A:H4'	1:6:1322:A:O5'	2.09	0.53
40:L3:73:VAL:HG22	59:N3:90:GLY:HA3	1.89	0.53
1:2:755:A:H2'	1:2:756:A:C8	2.44	0.53
20:C8:12:GLN:NE2	20:C8:14:ILE:O	3.13	0.53
1:2:71:A:H2'	1:2:72:A:O4'	2.09	0.53
4:S2:82:ASN:HB2	4:S2:207:LEU:HD13	1.91	0.53
1:2:1366:U:O2'	21:C9:7:ARG:NH1	2.41	0.53
36:5:2309:A:H4'	88:5:4203:OHX:N4	2.24	0.53
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.42	0.53
36:1:2107:A:H2	36:1:3344:A:H8	1.57	0.53
40:L3:103:THR:HG21	40:L3:147:GLU:OE2	2.20	0.53
1:6:25:C:O2	88:6:2105:OHX:N2	2.42	0.53
1:2:186:C:H3'	1:2:187:G:C8	2.43	0.53
10:S8:116:HIS:CE1	10:S8:146:ARG:HD3	2.44	0.53
46:L9:90:MET:O	46:L9:91:ARG:HD2	2.74	0.53
6:S4:220:THR:HG22	1:6:753:A:OP1	369.18	0.53
38:8:15:G:C6	38:8:16:G:N1	2.77	0.53
22:D0:23:ARG:HD3	22:D0:92:ASP:OD1	2.09	0.53
22:D0:20:ILE:HG13	22:D0:95:ALA:O	2.09	0.53
44:L7:25:GLN:HG2	44:L7:29:GLU:HB2	1.90	0.53
7:S5:156:ARG:HA	7:S5:157:ARG:HH21	4.46	0.53
1:6:1459:C:OP2	1:6:1459:C:H6	1.92	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:S0:101:ARG:NH2	1:6:1321:A:OP2	401.32	0.53
3:S1:93:GLY:C	3:S1:95:ASN:H	2.59	0.53
1:2:855:A:C2	1:2:857:U:H1'	2.44	0.53
1:2:773:C:OP1	6:S4:22:LYS:N	2.42	0.53
36:1:3393:U:H2'	36:1:3394:U:C6	2.43	0.53
1:2:881:A:H2'	1:2:882:U:O4'	2.08	0.53
36:5:655:C:H2'	36:5:656:A:C8	2.44	0.53
34:SR:144:LEU:HB3	34:SR:181:TRP:CZ3	3.09	0.53
13:C1:79:LYS:HB2	1:6:346:G:H5'	282.58	0.53
43:L6:76:LEU:HD11	43:L6:141:VAL:HG21	2.40	0.53
17:C5:33:PHE:O	17:C5:36:LEU:HD23	2.09	0.53
17:C5:75:PRO:HA	17:C5:93:VAL:HG12	1.89	0.53
2:S0:139:VAL:O	2:S0:141:ILE:N	2.42	0.53
24:D2:71:LYS:NZ	1:6:1099:U:OP1	375.72	0.53
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.24	0.53
5:S3:182:LEU:H	5:S3:182:LEU:HD12	1.72	0.53
47:M0:4:ARG:NH2	36:5:1128:U:OP1	264.49	0.53
1:2:1229:G:HO2'	1:2:1255:G:N2	2.07	0.53
1:6:198:A:H2'	1:6:199:G:H5'	1.90	0.53
45:L8:156:ASP:O	45:L8:183:LYS:HE3	7.25	0.53
39:L2:209:HIS:CE1	39:L2:210:PRO:HD2	3.30	0.53
6:S4:11:ARG:HB2	6:S4:27:TYR:C	2.28	0.53
1:2:788:A:OP2	6:S4:108:ARG:NH1	2.19	0.53
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	1.91	0.53
36:5:1819:U:H2'	36:5:1820:U:H5'	1.90	0.53
70:O4:86:LYS:O	70:O4:90:ILE:HG12	2.09	0.53
1:2:1460:A:C8	17:C5:128:HIS:HB3	2.44	0.53
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.90	0.53
35:SM:48:ARG:HA	36:5:1019:G:OP1	334.38	0.53
55:M9:15:VAL:HG12	55:M9:52:LYS:HE3	4.47	0.53
36:5:2180:G:H2'	36:5:2181:C:C6	2.44	0.53
49:M3:154:VAL:HG12	49:M3:155:GLU:H	4.12	0.53
1:6:886:U:H2'	1:6:887:A:H8	1.74	0.53
42:L5:108:ARG:CZ	42:L5:253:PHE:HB2	2.39	0.53
1:2:373:G:N7	88:2:2159:OHX:N6	2.56	0.53
51:M5:155:VAL:O	51:M5:162:ARG:NH2	2.42	0.53
5:S3:38:GLU:O	5:S3:38:GLU:HG3	2.09	0.53
36:5:2304:C:C5	36:5:2305:G:C6	2.97	0.53
55:M9:82:LYS:O	36:5:1914:G:O2'	211.56	0.53
29:D7:50:ALA:O	29:D7:52:THR:N	2.42	0.53
36:5:717:C:OP1	36:5:751:A:O2'	2.25	0.53
3:S1:226:GLY:HA2	36:5:2536:A:H4'	257.01	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:L5:115:LEU:H	42:L5:115:LEU:HD22	1.74	0.53
1:2:1178:G:H2'	1:2:1179:G:O4'	2.09	0.53
36:5:3078:U:H1'	88:5:4200:OHX:N1	2.24	0.53
40:L3:142:ALA:O	40:L3:146:ARG:N	3.76	0.53
36:5:2796:G:H5''	36:5:2798:C:O4'	2.08	0.53
43:L6:68:PRO:HB2	43:L6:71:VAL:HG23	2.25	0.53
28:D6:53:LEU:O	28:D6:57:SER:OG	2.22	0.53
48:M1:16:LYS:HG2	48:M1:130:VAL:HG13	4.25	0.53
48:M1:137:ARG:NH2	37:7:44:C:OP2	296.20	0.53
49:M3:190:LYS:HB2	49:M3:190:LYS:NZ	2.23	0.53
42:L5:279:LYS:NZ	37:7:110:G:OP2	324.25	0.53
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.73	0.53
46:L9:76:ASP:O	46:L9:80:THR:HG23	2.09	0.53
10:S8:82:VAL:HG13	10:S8:196:LEU:HD21	3.27	0.53
36:1:612:U:H2'	36:1:613:G:C8	2.42	0.53
25:D3:62:LYS:HD2	25:D3:118:PRO:HB3	1.91	0.53
40:L3:178:LEU:HD12	40:L3:179:ALA:N	2.22	0.53
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.91	0.53
34:SR:114:ASP:OD1	34:SR:115:ILE:N	2.69	0.53
36:5:1564:U:H2'	36:5:1565:G:C8	2.44	0.53
4:S2:174:ARG:HA	4:S2:195:ASP:OD2	2.40	0.53
48:M1:133:ARG:HB3	48:M1:134:PRO:HD2	2.37	0.53
36:5:2840:C:OP1	88:5:4142:OHX:N3	2.42	0.53
36:1:2115:G:H22	36:1:2120:A:H1'	1.74	0.53
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.42	0.53
1:6:1393:C:H2'	1:6:1394:G:H8	1.74	0.53
1:2:720:G:H1'	1:2:721:U:H5''	1.90	0.53
1:2:377:G:O6	88:2:2078:OHX:N5	2.41	0.53
1:2:1435:G:N7	12:C0:25:LYS:NZ	2.57	0.53
36:1:956:U:OP1	88:1:4138:OHX:N1	2.42	0.53
36:1:1770:G:H5'	36:1:1771:C:OP2	2.09	0.53
36:5:1340:G:H2'	36:5:1341:U:H6	1.74	0.53
1:2:978:A:H2'	1:2:979:A:O4'	2.09	0.53
36:1:2582:C:H2'	36:1:2583:C:H6	1.74	0.53
36:5:2225:U:H2'	36:5:2226:U:C6	2.44	0.53
68:O2:33:ARG:NH2	36:5:1407:A:O3'	161.92	0.53
36:1:1742:U:H2'	36:1:1743:G:C8	2.44	0.53
36:1:2988:C:O2	40:L3:266:ARG:NH1	2.42	0.52
8:S6:102:VAL:HG13	8:S6:106:LEU:HD12	1.90	0.52
8:S6:59:GLN:OE1	1:6:418:G:O2'	295.08	0.52
3:S1:180:THR:HG22	3:S1:182:ALA:H	1.74	0.52
41:L4:138:ARG:NH2	41:L4:240:PRO:HB2	2.40	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
66:O0:9:SER:HB3	66:O0:12:GLN:HB3	1.91	0.52
16:C4:54:GLU:CD	1:6:901:G:H22	282.26	0.52
37:3:48:U:O4	42:L5:58:LYS:NZ	2.39	0.52
1:6:1545:A:H2'	1:6:1546:G:H8	1.75	0.52
4:S2:225:LEU:HD22	4:S2:230:TRP:HD1	2.15	0.52
37:3:3:U:H2'	37:3:4:U:C6	2.45	0.52
6:S4:227:VAL:O	6:S4:228:ILE:HG12	2.08	0.52
36:1:1636:U:H5''	63:N7:73:LYS:HZ2	1.74	0.52
36:5:378:A:H3'	36:5:379:C:C6	2.44	0.52
1:6:652:G:N2	1:6:682:C:O2	2.41	0.52
1:2:256:A:H2'	1:2:257:A:O4'	2.09	0.52
71:O5:63:ARG:NH2	38:8:97:A:OP1	57.28	0.52
36:1:3000:A:H2'	36:1:3001:C:C6	2.44	0.52
36:5:1085:A:H5''	36:5:1085:A:H8	1.74	0.52
17:C5:115:TYR:HB2	17:C5:118:GLU:HG3	2.30	0.52
11:S9:65:LYS:HA	11:S9:70:LEU:HD11	2.27	0.52
36:1:801:A:O2'	88:1:3992:OHX:N2	2.42	0.52
49:M3:8:PRO:HD3	54:M8:164:ARG:HB3	2.91	0.52
64:N8:132:LYS:O	64:N8:136:GLU:HG3	2.24	0.52
29:D7:54:VAL:O	29:D7:63:LEU:HB2	2.08	0.52
26:D4:14:SER:O	26:D4:16:PRO:HD3	2.09	0.52
55:M9:160:GLU:HG2	55:M9:164:LEU:HD23	1.91	0.52
34:SR:89:LEU:O	34:SR:103:PHE:HD2	1.91	0.52
40:L3:305:ILE:HG12	40:L3:321:PHE:CZ	2.44	0.52
48:M1:90:GLN:OE1	48:M1:172:LEU:HD11	2.09	0.52
51:M5:143:ARG:NH2	71:O5:92:LEU:HD23	2.23	0.52
1:2:329:G:H2'	1:2:330:G:H8	1.73	0.52
36:1:1807:G:C6	36:1:1808:G:N1	2.77	0.52
36:1:621:A:O2'	88:1:4178:OHX:N1	2.42	0.52
36:5:594:U:H5''	36:5:609:G:H1	1.74	0.52
18:C6:32:ASN:O	18:C6:66:ARG:NH1	2.42	0.52
1:6:950:C:H2'	1:6:951:A:C8	2.45	0.52
59:N3:33:ASN:HD22	59:N3:33:ASN:C	2.12	0.52
36:5:1818:U:H2'	36:5:1819:U:C6	2.44	0.52
57:N1:57:TYR:OH	36:5:2724:U:OP1	223.54	0.52
1:6:140:A:N6	1:6:281:G:OP1	2.42	0.52
36:5:1222:G:O6	88:5:4133:OHX:N1	2.42	0.52
1:2:953:G:H2'	1:2:954:G:H8	1.74	0.52
1:2:1738:U:H2'	1:2:1739:C:C6	2.44	0.52
36:1:2442:G:N2	36:1:2505:U:H3	2.07	0.52
36:5:1438:U:H2'	36:5:1439:U:H6	1.74	0.52
36:1:3085:G:OP2	88:1:3895:OHX:N2	2.42	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:S7:24:PHE:CE1	9:S7:77:LEU:HD11	3.12	0.52
9:S7:75:THR:O	9:S7:79:ARG:HB2	2.09	0.52
36:5:352:A:H61	36:5:365:A:H5''	1.74	0.52
59:N3:38:ALA:HB3	59:N3:59:MET:HB2	1.95	0.52
56:N0:7:TYR:CE1	56:N0:34:GLU:HG2	2.81	0.52
6:S4:181:VAL:HG11	6:S4:225:VAL:HG13	2.72	0.52
1:6:363:G:OP1	88:6:2109:OHX:N1	2.42	0.52
40:L3:117:ARG:CZ	40:L3:175:LYS:HD2	4.44	0.52
20:C8:15:LEU:HD12	20:C8:66:LEU:HD11	3.55	0.52
66:O0:66:LYS:HD2	66:O0:66:LYS:H	3.78	0.52
36:1:1110:U:H2'	36:1:1111:U:C6	2.43	0.52
36:5:1877:U:OP2	88:5:3960:OHX:N1	2.43	0.52
36:1:2108:C:H1'	36:1:3344:A:H8	1.75	0.52
7:S5:23:VAL:O	7:S5:34:GLN:NE2	2.38	0.52
1:2:1369:U:O4	88:2:2095:OHX:N5	2.42	0.52
63:N7:57:HIS:CD2	63:N7:65:ARG:HG3	2.44	0.52
40:L3:259:HIS:CE1	36:5:2366:C:H5'	218.84	0.52
14:C2:104:ALA:HB2	14:C2:115:VAL:HG22	5.22	0.52
40:L3:3:HIS:C	40:L3:3:HIS:HD1	4.57	0.52
1:2:1201:G:H21	1:2:1600:A:H5''	1.73	0.52
1:2:1600:A:O2'	1:2:1602:C:N4	2.42	0.52
51:M5:184:LYS:HG2	51:M5:185:ALA:N	2.76	0.52
22:D0:28:SER:OG	22:D0:29:THR:N	2.42	0.52
9:S7:122:HIS:CE1	9:S7:177:THR:HB	2.64	0.52
20:C8:117:LYS:HE2	20:C8:128:PHE:HB2	2.61	0.52
63:N7:17:ARG:O	63:N7:19:ALA:N	2.42	0.52
74:O8:31:LEU:HD23	74:O8:31:LEU:H	1.74	0.52
36:5:2846:U:O2	88:5:4055:OHX:N5	2.41	0.52
36:1:1047:A:N3	36:1:2633:U:O2'	2.41	0.52
36:5:192:C:H2'	36:5:193:C:C6	2.44	0.52
36:5:3335:A:H2'	36:5:3336:A:C8	2.44	0.52
1:2:1606:C:H2'	1:2:1607:G:C8	2.45	0.52
1:2:158:U:O2'	1:2:159:U:H3'	2.09	0.52
36:1:1352:A:H4'	36:1:1353:U:OP1	2.09	0.52
62:N6:90:VAL:HG11	36:5:392:G:O2'	88.74	0.52
21:C9:73:VAL:HG12	21:C9:77:ASN:HD21	1.74	0.52
4:S2:59:HIS:CE1	4:S2:238:SER:HA	3.38	0.52
36:5:1764:U:H3'	36:5:1765:U:H5''	1.91	0.52
44:L7:160:ARG:HD2	44:L7:203:TRP:CD1	2.44	0.52
16:C4:102:LEU:HD22	16:C4:105:LEU:HD11	1.90	0.52
11:S9:149:ARG:NE	1:6:765:G:N7	429.29	0.52
26:D4:94:TYR:HB2	26:D4:96:LEU:HD11	1.92	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:M6:12:LYS:HA	52:M6:40:GLU:O	2.19	0.52
7:S5:28:PRO:O	7:S5:29:ILE:HB	4.46	0.52
12:C0:32:HIS:CG	12:C0:33:GLU:H	3.26	0.52
25:D3:130:VAL:O	25:D3:131:SER:HB3	2.66	0.52
7:S5:146:THR:HG23	7:S5:157:ARG:HB3	4.32	0.52
58:N2:50:LEU:HB3	58:N2:54:VAL:CG2	2.40	0.52
59:N3:48:ARG:HG2	36:5:2339:C:P	246.28	0.52
1:2:494:U:O2'	1:2:495:C:O5'	2.25	0.52
1:6:1542:G:N2	1:6:1568:C:H1'	2.24	0.52
45:L8:75:ILE:C	45:L8:77:GLN:H	2.13	0.52
12:C0:80:LEU:O	12:C0:82:LEU:N	2.42	0.52
36:5:2426:U:H2'	36:5:2427:U:C6	2.45	0.52
62:N6:82:VAL:O	62:N6:84:LYS:N	2.77	0.52
36:1:1549:U:H2'	36:1:1550:C:C6	2.44	0.52
43:L6:47:PHE:O	43:L6:50:LYS:HB2	2.10	0.52
52:M6:72:HIS:O	52:M6:74:ARG:HD3	2.10	0.52
62:N6:63:LYS:O	62:N6:66:GLN:HG3	2.10	0.52
2:S0:4:PRO:HB2	2:S0:7:PHE:HB2	1.89	0.52
36:5:2943:G:H2'	36:5:2944:U:O4'	2.09	0.52
64:N8:123:VAL:HG12	64:N8:125:VAL:HG22	1.92	0.52
67:O1:54:GLU:OE2	67:O1:54:GLU:N	2.42	0.52
1:2:178:U:C4	8:S6:191:ARG:HD3	2.44	0.52
47:M0:169:LYS:O	47:M0:170:LYS:HD3	3.15	0.52
68:O2:63:THR:O	68:O2:66:LEU:HG	2.10	0.52
36:1:1073:U:H1'	65:N9:50:THR:HG22	1.91	0.52
65:N9:23:LYS:HB3	65:N9:24:PRO:CD	3.46	0.52
1:6:830:U:H2'	1:6:831:U:H5'	1.92	0.52
1:2:1534:G:O6	27:D5:77:ARG:NE	2.42	0.52
36:5:314:U:O4	88:5:4196:OHX:N5	2.43	0.52
41:L4:82:THR:O	41:L4:84:ARG:N	2.41	0.52
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.45	0.52
17:C5:127:ARG:O	17:C5:130:ARG:NH1	5.15	0.52
53:M7:67:ILE:N	53:M7:67:ILE:HD13	3.14	0.52
36:1:2273:G:O2'	36:1:2274:U:OP2	2.28	0.52
64:N8:76:ASP:HB3	64:N8:115:LYS:O	6.84	0.52
36:1:410:U:O4	88:1:4069:OHX:N5	2.43	0.52
40:L3:169:THR:CG2	40:L3:171:LEU:H	2.47	0.52
36:1:2338:C:OP1	40:L3:236:LYS:HE2	2.09	0.52
11:S9:117:GLY:O	11:S9:119:ALA:N	2.85	0.52
46:L9:20:ILE:HD13	46:L9:45:PHE:CD1	2.45	0.52
8:S6:121:LEU:H	8:S6:125:THR:HG1	2.48	0.52
36:1:1584:U:H2'	36:1:1585:C:C6	2.45	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:3198:U:O4	46:L9:26:LYS:HB2	2.10	0.52
3:S1:191:GLU:O	3:S1:194:ASN:HB2	2.59	0.52
12:C0:11:ILE:HD13	12:C0:42:VAL:HA	1.91	0.52
2:S0:105:GLY:N	2:S0:135:GLU:OE2	2.39	0.52
41:L4:141:ARG:CZ	41:L4:180:LYS:HD3	2.79	0.52
5:S3:195:SER:OG	5:S3:200:LYS:HA	3.87	0.52
36:5:835:G:O2'	36:5:857:G:N2	2.31	0.52
36:1:551:A:O2'	36:1:552:G:H8	1.93	0.52
1:2:1244:A:N3	1:2:1244:A:H3'	2.24	0.52
36:1:929:A:H2'	36:1:930:U:C6	2.45	0.52
36:5:1858:A:O2'	36:5:1859:A:OP2	2.27	0.52
50:M4:55:ARG:HG2	56:N0:70:THR:HB	1.92	0.52
11:S9:126:ARG:O	11:S9:130:THR:HG22	2.09	0.52
40:L3:56:ILE:HD13	40:L3:76:VAL:HG21	1.90	0.52
3:S1:181:LEU:HD13	3:S1:181:LEU:N	2.23	0.52
3:S1:183:GLN:HG2	3:S1:187:LYS:HE2	1.90	0.52
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.09	0.52
1:6:191:C:O2'	1:6:192:U:O5'	2.27	0.52
5:S3:27:ARG:HB3	12:C0:58:GLN:HE22	1.75	0.52
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.91	0.52
16:C4:122:PRO:C	16:C4:124:ASP:H	2.82	0.52
53:M7:51:VAL:HA	53:M7:56:ARG:O	2.10	0.52
1:6:75:U:O2'	1:6:76:A:O5'	2.19	0.52
36:1:2552:C:H2'	66:O0:50:VAL:HG11	1.91	0.52
14:C2:42:ALA:HB3	14:C2:122:VAL:HB	1.92	0.52
15:C3:96:VAL:O	15:C3:100:LYS:HG2	5.45	0.52
36:1:2357:A:H2'	36:1:2358:A:H8	1.74	0.52
36:5:612:U:H2'	36:5:613:G:H8	1.75	0.52
36:1:40:A:N7	64:N8:29:PRO:O	2.42	0.52
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.09	0.52
34:SR:274:LEU:HD13	34:SR:313:TRP:CE2	2.45	0.52
36:1:551:A:O2'	36:1:552:G:O5'	2.22	0.52
49:M3:89:TYR:CE1	49:M3:93:ILE:HD11	4.25	0.52
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.25	0.52
36:5:1882:G:H1	36:5:2350:C:H42	1.57	0.52
1:2:482:U:H2'	1:2:483:A:C8	2.44	0.52
37:7:95:A:OP2	88:7:225:OHX:N1	2.42	0.52
69:O3:13:HIS:O	69:O3:95:GLY:N	2.43	0.52
36:5:2931:C:H2'	36:5:2932:U:O4'	2.09	0.52
21:C9:24:ARG:O	21:C9:26:GLY:N	3.25	0.52
36:1:3106:A:H2'	36:1:3107:U:O4'	2.10	0.52
63:N7:39:GLY:C	63:N7:77:TYR:HD1	4.46	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:278:U:H2'	36:5:279:U:C6	2.43	0.52
34:SR:236:ALA:O	34:SR:261:LYS:NZ	2.43	0.52
36:5:286:U:H2'	36:5:287:G:C8	2.44	0.52
38:8:145:U:H2'	38:8:146:U:C6	2.45	0.52
31:D9:20:GLN:HG3	31:D9:25:SER:HA	2.48	0.52
1:6:463:U:OP1	88:6:2202:OHX:N1	2.42	0.52
50:M4:58:ILE:HD11	50:M4:62:GLN:HG3	4.34	0.52
53:M7:30:ARG:HA	53:M7:119:VAL:HG11	2.23	0.52
2:S0:172:LEU:HD13	2:S0:176:LEU:HD11	2.41	0.52
1:2:767:U:H6	11:S9:141:VAL:HA	1.74	0.52
40:L3:53:MET:HE1	36:5:3048:A:H5'	234.17	0.52
41:L4:271:LYS:HB2	41:L4:274:TYR:CB	2.52	0.52
1:2:704:C:OP2	1:2:704:C:H3'	2.10	0.52
36:5:299:G:N7	88:5:4194:OHX:N1	2.57	0.52
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.61	0.52
40:L3:19:ARG:HB3	40:L3:232:ARG:HH12	1.97	0.52
6:S4:64:ILE:HG12	26:D4:18:LEU:HG	1.91	0.52
7:S5:143:ARG:HB2	7:S5:218:GLU:OE2	3.18	0.52
4:S2:227:PRO:HA	4:S2:230:TRP:CG	3.00	0.52
1:2:1370:U:O4	88:2:2121:OHX:N1	2.42	0.52
6:S4:105:VAL:HG22	6:S4:243:GLY:HA2	1.92	0.52
36:1:2746:A:H2'	36:1:2747:A:O4'	2.09	0.52
1:2:887:A:H2'	1:2:888:U:C6	2.44	0.52
67:O1:55:LEU:HD23	67:O1:95:PRO:HB3	1.92	0.52
12:C0:53:GLY:O	12:C0:55:VAL:N	2.36	0.52
75:O9:23:LEU:HD11	75:O9:35:ILE:HG22	2.27	0.52
45:L8:94:PHE:CZ	45:L8:200:LEU:HG	2.45	0.52
1:2:1149:G:H1'	1:2:1765:A:C4	2.44	0.52
36:1:20:A:OP2	71:O5:90:ARG:NH1	2.43	0.52
19:C7:71:PHE:HE1	19:C7:73:LEU:HD22	1.75	0.52
5:S3:18:TYR:CE1	5:S3:37:VAL:HG23	2.44	0.52
36:1:1196:C:O2	88:1:4005:OHX:N2	2.41	0.52
40:L3:168:LYS:O	40:L3:319:ASN:ND2	2.42	0.52
1:6:987:G:O6	88:6:2116:OHX:N4	2.43	0.52
34:SR:195:HIS:NE2	34:SR:213:SER:HB2	2.25	0.52
34:SR:123:ILE:HD13	34:SR:169:ILE:HG21	1.95	0.52
56:N0:42:TRP:O	56:N0:46:GLN:HG3	2.29	0.52
61:N5:137:ASN:HB3	61:N5:142:ILE:HG12	1.92	0.52
36:1:603:A:H2'	36:1:604:G:O4'	2.09	0.52
3:S1:119:THR:HB	3:S1:143:THR:HG23	1.92	0.52
57:N1:79:MET:HB3	57:N1:84:TYR:CE2	2.45	0.52
36:5:873:C:H5''	36:5:874:U:O5'	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:S3:223:LYS:HD3	34:SR:191:ASP:HB2	4.27	0.52
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.44	0.52
52:M6:110:PRO:O	52:M6:111:PRO:C	3.33	0.52
1:6:230:C:N3	1:6:235:G:N2	2.48	0.52
1:2:329:G:H2'	1:2:330:G:C8	2.44	0.52
10:S8:51:GLY:N	1:6:397:A:H5''	312.96	0.52
22:D0:20:ILE:HD13	22:D0:22:ILE:HB	1.91	0.52
19:C7:26:LEU:HD22	19:C7:59:LYS:HA	1.91	0.52
52:M6:115:LYS:HD3	36:5:3178:A:C2	260.71	0.52
1:6:74:U:H5''	1:6:75:U:OP2	2.10	0.52
2:S0:142:PRO:HG3	23:D1:32:VAL:HG22	2.90	0.52
13:C1:75:VAL:HG13	13:C1:76:VAL:N	2.24	0.52
36:5:3027:A:H2'	36:5:3028:G:O4'	2.09	0.52
36:5:612:U:H2'	36:5:613:G:C8	2.44	0.52
46:L9:113:GLU:OE1	46:L9:115:ARG:NH2	3.75	0.52
1:2:1294:G:O2'	1:2:1321:A:N1	2.43	0.52
1:6:887:A:H2'	1:6:888:U:C6	2.45	0.52
28:D6:12:LYS:NZ	28:D6:12:LYS:HB3	3.16	0.52
37:3:45:A:H5'	42:L5:154:THR:HG21	1.92	0.52
7:S5:189:THR:OG1	27:D5:98:GLN:OE1	2.21	0.52
1:2:625:C:H2'	1:2:626:U:C6	2.45	0.52
3:S1:147:ALA:O	3:S1:148:ASN:HB3	2.08	0.52
36:1:2284:C:H3'	36:1:2285:C:C6	2.45	0.52
36:5:1014:U:H3	36:5:1036:A:H61	1.58	0.52
32:E0:3:LYS:HB3	32:E0:3:LYS:NZ	2.25	0.52
1:2:306:U:P	13:C1:105:LYS:HD2	2.50	0.52
36:1:535:G:O2'	36:1:554:A:N1	2.40	0.52
23:D1:40:ASP:HB3	23:D1:46:ILE:HD11	1.91	0.52
36:5:112:U:O2'	36:5:113:C:OP2	2.27	0.52
50:M4:113:THR:HG22	50:M4:116:GLU:H	2.54	0.52
1:6:499:U:O2	1:6:500:C:N4	2.43	0.52
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	2.16	0.52
1:2:1228:G:N1	14:C2:67:THR:HB	2.23	0.52
46:L9:9:GLN:HG2	46:L9:52:LEU:HD21	1.92	0.52
1:2:1229:G:H1	14:C2:47:GLU:HG3	1.75	0.52
1:6:66:U:H4'	1:6:67:A:OP1	2.10	0.52
1:6:152:U:O2	1:6:163:G:N2	2.43	0.52
27:D5:40:VAL:C	27:D5:75:LEU:HD11	2.30	0.52
6:S4:206:ASP:HB2	6:S4:222:LEU:HD12	1.91	0.52
65:N9:38:LYS:NZ	36:5:1077:U:OP1	219.25	0.52
1:6:542:A:H2'	1:6:542:A:OP1	2.09	0.52
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.73	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:S0:63:ILE:HD13	23:D1:34:ILE:HG21	3.03	0.52
1:6:1202:A:OP1	88:6:2126:OHX:N2	2.42	0.52
42:L5:95:TRP:CH2	42:L5:181:PRO:HD3	4.36	0.52
45:L8:161:GLU:OE2	51:M5:26:ARG:NH2	2.67	0.52
6:S4:230:GLU:HB2	6:S4:233:LYS:HB2	1.92	0.52
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	2.03	0.52
29:D7:15:GLU:OE2	29:D7:24:LEU:N	2.42	0.52
36:1:1608:C:H2'	36:1:1609:C:H6	1.74	0.52
40:L3:50:LYS:HA	40:L3:79:VAL:HG23	4.36	0.52
74:O8:28:ASN:ND2	36:5:1750:A:OP2	139.48	0.52
36:1:171:G:H2'	36:1:172:G:O4'	2.08	0.52
26:D4:19:ALA:HB1	26:D4:81:GLU:HG2	1.92	0.52
46:L9:156:GLN:NE2	46:L9:160:ASP:OD1	2.42	0.52
36:1:1951:C:N4	36:1:2095:G:H1	1.99	0.52
88:1:3985:OHX:N6	78:Q2:48:SER:O	2.43	0.52
53:M7:125:GLN:HB2	53:M7:141:SER:OG	2.70	0.52
34:SR:64:HIS:HD1	34:SR:86:ASP:CG	2.30	0.52
2:S0:90:ALA:HA	2:S0:95:ALA:HB3	1.91	0.52
12:C0:34:GLU:O	12:C0:35:ILE:HB	4.20	0.52
39:L2:181:LYS:HB3	36:5:860:G:C5	213.30	0.52
68:O2:97:ALA:HB3	68:O2:100:ILE:CG1	2.38	0.52
9:S7:56:LYS:HB2	9:S7:88:ARG:HH11	2.42	0.52
1:2:66:U:H5	8:S6:173:PRO:HG3	1.74	0.52
1:2:1530:C:OP1	27:D5:95:HIS:HB3	2.10	0.52
17:C5:18:ARG:HG2	20:C8:92:ILE:HA	1.92	0.52
21:C9:53:TRP:HH2	21:C9:100:ILE:HD13	3.12	0.52
63:N7:25:ILE:HG23	63:N7:41:ALA:HB1	3.09	0.52
2:S0:119:ARG:NH1	4:S2:241:ASP:OD2	2.74	0.52
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.28	0.52
69:O3:31:LYS:NZ	69:O3:35:VAL:O	2.39	0.52
56:N0:40:ARG:O	56:N0:43:TYR:HB3	2.10	0.52
1:2:542:A:H2'	1:2:543:C:H5'	1.92	0.52
36:5:1728:G:H4'	36:5:1729:A:H5''	1.92	0.52
40:L3:116:ARG:HH22	40:L3:174:LYS:HD3	1.74	0.52
23:D1:32:VAL:HB	23:D1:60:ARG:HD2	2.58	0.52
36:5:1536:G:N7	88:5:3925:OHX:N2	2.58	0.52
45:L8:246:MET:HA	45:L8:249:ARG:HB3	1.92	0.52
3:S1:104:ASP:OD1	3:S1:214:LYS:HD3	2.10	0.52
65:N9:5:LYS:HG3	65:N9:6:ASN:N	2.45	0.52
1:2:482:U:H2'	1:2:483:A:H8	1.75	0.52
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.46	0.52
42:L5:143:LYS:HG3	42:L5:172:TYR:HD2	1.75	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	1.92	0.52
21:C9:61:VAL:O	21:C9:65:ILE:HG13	2.10	0.52
36:1:1508:C:C6	36:1:1880:U:H1'	2.45	0.52
1:6:432:G:H2'	1:6:433:C:O4'	2.10	0.52
1:6:1079:U:H2'	1:6:1080:U:O4'	2.10	0.52
56:N0:92:LYS:NZ	56:N0:109:ASP:OD2	2.43	0.52
1:6:366:A:H2'	1:6:367:A:C8	2.45	0.52
1:6:924:A:H2'	1:6:925:G:C8	2.45	0.52
36:5:2970:C:H4'	36:5:2971:A:N1	2.25	0.52
1:2:1481:C:O2'	1:2:1482:C:O5'	2.24	0.51
34:SR:16:HIS:ND1	34:SR:39:ASP:OD2	2.99	0.51
2:S0:73:VAL:O	2:S0:95:ALA:HA	2.10	0.51
8:S6:67:VAL:O	8:S6:68:LEU:HB2	2.32	0.51
36:1:1278:A:HO2'	36:1:1279:C:H6	1.52	0.51
1:2:1772:C:H3'	77:Q1:2:ARG:NH1	2.26	0.51
56:N0:155:ARG:NH2	56:N0:155:ARG:HG2	2.16	0.51
1:2:1795:U:OP2	28:D6:5:ARG:NH2	2.41	0.51
28:D6:87:ARG:HB3	28:D6:91:ASP:HB2	1.92	0.51
18:C6:109:PHE:O	18:C6:112:TYR:N	3.57	0.51
18:C6:49:TYR:HB3	18:C6:53:LEU:HD21	3.68	0.51
42:L5:58:LYS:HA	42:L5:93:THR:HB	1.91	0.51
1:2:186:C:H3'	1:2:187:G:H8	1.75	0.51
46:L9:84:LYS:O	46:L9:187:ILE:HB	2.11	0.51
20:C8:138:THR:OG1	1:6:1459:C:OP2	349.63	0.51
36:5:595:G:C8	36:5:609:G:C6	2.98	0.51
36:5:2964:G:N7	88:5:3985:OHX:N6	2.58	0.51
6:S4:106:LYS:HG3	6:S4:108:ARG:NH1	2.45	0.51
2:S0:198:MET:SD	19:C7:85:VAL:HG11	2.50	0.51
1:2:1623:C:H2'	1:2:1624:C:H6	1.75	0.51
1:6:565:C:H4'	1:6:566:C:O5'	2.09	0.51
36:1:103:G:OP1	49:M3:70:ARG:NH2	2.33	0.51
16:C4:84:ARG:HB2	16:C4:118:VAL:HG23	3.21	0.51
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	2.17	0.51
36:1:190:U:H2'	62:N6:60:ARG:HH22	1.75	0.51
64:N8:85:ASP:OD1	64:N8:86:LYS:N	2.43	0.51
36:5:2225:U:H2'	36:5:2226:U:H6	1.75	0.51
42:L5:227:LEU:O	42:L5:229:ASP:N	2.43	0.51
36:1:3275:U:H5''	69:O3:68:TRP:HZ2	1.74	0.51
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.75	0.51
69:O3:69:GLY:HA3	69:O3:85:PHE:HA	2.37	0.51
36:1:3035:A:OP2	88:1:4087:OHX:N4	2.44	0.51
21:C9:23:GLN:HG2	21:C9:55:TYR:CD1	2.45	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
71:O5:67:ARG:HG3	71:O5:80:LEU:HD22	2.07	0.51
36:1:3203:U:H2'	36:1:3204:C:C6	2.46	0.51
46:L9:94:TYR:CD2	46:L9:98:PRO:HA	2.55	0.51
55:M9:130:ASN:C	55:M9:132:PHE:H	2.14	0.51
1:6:1660:A:H2'	1:6:1661:U:C6	2.45	0.51
70:O4:2:ALA:HB1	36:5:1481:A:H61	155.91	0.51
40:L3:132:LYS:NZ	36:5:3292:A:H4'	208.42	0.51
5:S3:116:ARG:O	5:S3:120:TYR:HB2	2.09	0.51
36:1:108:A:O2'	36:1:109:A:H2'	2.10	0.51
1:6:1316:G:O2'	1:6:1401:A:O2'	2.28	0.51
11:S9:113:VAL:HG21	11:S9:134:ILE:HD12	1.93	0.51
19:C7:29:GLN:HG2	34:SR:67:ILE:HD11	1.93	0.51
79:Q3:17:ARG:NH1	36:5:860:G:OP1	219.91	0.51
36:5:1307:G:C2	36:5:1308:A:C2	2.98	0.51
1:2:901:G:H22	16:C4:54:GLU:CD	2.12	0.51
36:5:2157:G:N2	36:5:2177:G:O2'	2.44	0.51
27:D5:60:VAL:HA	27:D5:64:VAL:HG11	1.91	0.51
12:C0:31:LYS:H	12:C0:38:LYS:HA	3.65	0.51
4:S2:80:VAL:O	4:S2:102:VAL:HA	2.11	0.51
1:6:1699:G:N2	1:6:1702:A:O4'	2.44	0.51
60:N4:38:SER:O	60:N4:42:GLN:HB2	2.09	0.51
44:L7:223:PHE:HA	44:L7:227:GLY:O	2.11	0.51
36:5:2434:U:H4'	36:5:2435:G:O5'	2.09	0.51
1:2:1062:A:H2'	1:2:1063:U:O4'	2.10	0.51
19:C7:87:GLU:O	19:C7:88:VAL:HB	3.18	0.51
49:M3:50:PRO:HB3	49:M3:138:VAL:O	2.44	0.51
36:1:976:U:H5'	54:M8:144:ARG:HH12	1.74	0.51
40:L3:169:THR:HG23	40:L3:171:LEU:H	2.32	0.51
40:L3:123:TYR:CD1	36:5:3315:G:H2'	181.88	0.51
1:2:1662:G:C2'	1:2:1663:G:H5'	2.40	0.51
49:M3:2:ALA:N	64:N8:31:GLY:O	3.92	0.51
22:D0:65:ILE:HD11	31:D9:36:LEU:HD21	1.92	0.51
16:C4:11:SER:OG	16:C4:12:GLN:N	4.19	0.51
6:S4:21:ASP:HB2	1:6:773:C:OP1	388.46	0.51
36:1:3087:A:H5''	40:L3:365:PHE:CD1	2.45	0.51
62:N6:56:VAL:HG21	62:N6:104:LEU:HD13	1.93	0.51
35:SM:43:ASP:OD1	35:SM:45:SER:OG	2.71	0.51
36:5:78:U:O2'	36:5:79:U:H5'	2.10	0.51
47:M0:156:ARG:NH1	47:M0:163:GLN:O	3.03	0.51
36:1:3267:A:H2'	43:L6:69:PHE:CZ	2.45	0.51
49:M3:104:ARG:HA	72:O6:20:MET:HB2	1.93	0.51
1:2:868:G:O6	88:2:2032:OHX:N6	2.43	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:S1:141:ALA:HB1	3:S1:207:LEU:HD22	3.67	0.51
23:D1:74:GLN:HB2	23:D1:79:LEU:HB2	1.91	0.51
28:D6:35:ALA:HB3	28:D6:37:LYS:HE2	1.91	0.51
41:L4:182:LEU:C	41:L4:184:SER:H	2.14	0.51
1:2:192:U:HO2'	1:2:193:U:P	2.34	0.51
38:8:15:G:C6	38:8:16:G:C6	2.99	0.51
73:O7:28:HIS:CG	73:O7:31:LYS:HB2	2.45	0.51
36:1:3043:C:P	59:N3:48:ARG:HH22	2.33	0.51
76:Q0:77:ILE:HG23	76:Q0:78:ILE:HG22	5.25	0.51
36:1:412:G:OP1	53:M7:62:ARG:NH1	2.43	0.51
20:C8:6:GLN:HA	27:D5:42:LEU:HD13	1.92	0.51
26:D4:51:GLU:O	26:D4:53:ASP:N	3.18	0.51
16:C4:88:GLY:O	16:C4:92:LYS:NZ	7.53	0.51
1:6:139:C:H4'	1:6:140:A:O5'	2.09	0.51
25:D3:59:ILE:HG13	25:D3:71:CYS:SG	2.50	0.51
47:M0:164:LYS:NZ	56:N0:85:SER:O	2.43	0.51
7:S5:222:LYS:HA	7:S5:225:ARG:NH1	3.89	0.51
36:1:1445:U:H5''	36:1:1446:A:OP2	2.10	0.51
42:L5:85:ARG:HH12	42:L5:254:LYS:H	2.65	0.51
20:C8:13:HIS:O	20:C8:14:ILE:HG22	3.90	0.51
36:5:1765:U:H4'	36:5:1765:U:OP1	2.09	0.51
9:S7:22:GLN:HA	9:S7:25:VAL:HG23	3.02	0.51
36:1:2986:U:H2'	36:1:2987:A:C8	2.45	0.51
14:C2:36:LEU:HD12	14:C2:41:LEU:HD12	5.52	0.51
45:L8:74:THR:HB	45:L8:230:LYS:NZ	2.25	0.51
48:M1:109:HIS:CD2	48:M1:114:ILE:HG21	2.45	0.51
36:5:538:G:H8	36:5:538:G:O5'	1.93	0.51
5:S3:70:THR:HG22	5:S3:86:LEU:HB2	2.36	0.51
51:M5:91:GLU:OE1	88:5:3924:OHX:N4	166.30	0.51
40:L3:187:SER:O	40:L3:190:GLU:N	2.46	0.51
78:Q2:20:HIS:ND1	36:5:2741:C:O2'	214.83	0.51
30:D8:44:VAL:HG21	30:D8:48:VAL:HG23	2.03	0.51
18:C6:107:LYS:HA	18:C6:110:THR:HG22	5.55	0.51
53:M7:24:VAL:HB	53:M7:29:THR:HG21	1.99	0.51
1:6:825:U:O2'	1:6:826:U:OP2	2.25	0.51
39:L2:68:LYS:HD3	39:L2:70:ARG:HH21	1.74	0.51
36:5:243:G:O2'	36:5:244:G:H5'	2.10	0.51
34:SR:200:ASN:N	34:SR:214:ALA:O	3.08	0.51
1:6:189:C:C2'	1:6:190:C:H5'	2.41	0.51
5:S3:27:ARG:HE	12:C0:60:SER:HB2	1.76	0.51
38:4:85:G:H3'	38:4:85:G:H8	1.75	0.51
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.37	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.20	0.51
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.09	0.51
44:L7:85:PHE:O	44:L7:136:TYR:HB2	2.42	0.51
1:2:484:C:H42	1:2:503:G:H22	1.57	0.51
64:N8:82:ILE:HD13	64:N8:102:ILE:HG12	4.58	0.51
15:C3:89:TYR:OH	15:C3:93:LYS:NZ	3.94	0.51
20:C8:72:ILE:HG12	20:C8:79:TYR:CD2	3.43	0.51
41:L4:304:GLN:O	41:L4:306:THR:N	2.57	0.51
1:6:1258:U:H5	1:6:1259:U:C2	2.29	0.51
6:S4:21:ASP:OD2	6:S4:24:SER:OG	3.41	0.51
12:C0:61:TRP:HZ3	31:D9:22:ARG:HD2	1.75	0.51
43:L6:80:ASN:O	43:L6:82:ARG:N	2.43	0.51
36:5:2369:G:H2'	36:5:2370:G:C8	2.46	0.51
1:2:843:U:H2'	1:2:844:A:C8	2.45	0.51
71:O5:49:LYS:NZ	38:8:62:C:OP1	53.98	0.51
9:S7:98:ILE:HD13	9:S7:118:LEU:HA	2.49	0.51
25:D3:73:ARG:HH21	25:D3:84:THR:HG22	1.78	0.51
1:6:341:A:H2'	1:6:342:C:C6	2.45	0.51
41:L4:33:ASP:O	41:L4:37:THR:HG23	2.10	0.51
1:6:534:A:H5'	1:6:535:A:OP2	2.10	0.51
5:S3:76:ARG:HG3	5:S3:77:PHE:CD1	6.13	0.51
63:N7:124:ALA:O	63:N7:126:LYS:N	2.50	0.51
36:1:3325:G:H5'	67:O1:104:LEU:O	2.10	0.51
73:O7:88:ALA:O	88:O7:103:OHX:N4	2.44	0.51
10:S8:37:LYS:H	10:S8:59:ARG:H	1.58	0.51
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.93	0.51
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.11	0.51
36:5:3343:G:N2	36:5:3362:A:H2	2.03	0.51
31:D9:39:CYS:SG	31:D9:42:CYS:HB2	2.51	0.51
1:2:569:C:H41	25:D3:69:ARG:NH1	2.06	0.51
19:C7:50:ILE:O	19:C7:53:TYR:N	3.29	0.51
39:L2:179:LEU:O	39:L2:184:ARG:HD2	2.53	0.51
63:N7:36:HIS:H	63:N7:37:PRO:HD3	2.95	0.51
2:S0:126:PRO:HG2	2:S0:151:SER:HB3	1.93	0.51
36:1:3108:G:N3	46:L9:163:GLN:NE2	2.55	0.51
1:2:1002:G:N1	1:2:1761:U:OP1	2.35	0.51
73:O7:14:LYS:NZ	75:O9:51:ILE:HD11	2.26	0.51
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.91	0.51
44:L7:77:VAL:HG21	57:N1:139:ARG:HD3	2.54	0.51
57:N1:19:PHE:CD2	36:5:1051:U:H4'	285.33	0.51
37:7:64:A:H5'	37:7:65:G:H5''	1.93	0.51
55:M9:78:TYR:HA	55:M9:81:ARG:HD3	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2284:C:N4	36:1:2308:C:OP2	2.43	0.51
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.63	0.51
67:O1:72:ARG:HD3	67:O1:104:LEU:HD13	4.11	0.51
47:M0:29:SER:OG	47:M0:31:ILE:O	2.90	0.51
44:L7:103:LEU:HA	44:L7:130:ILE:HD11	4.72	0.51
39:L2:187:HIS:ND1	39:L2:190:ARG:NH2	2.59	0.51
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	2.03	0.51
1:2:1119:G:O6	88:2:2148:OHX:N1	2.43	0.51
36:5:201:A:OP2	88:5:3990:OHX:N1	2.44	0.51
36:1:1804:A:H2'	36:1:1805:C:C6	2.45	0.51
36:1:817:A:H8	73:O7:15:SER:HG	1.57	0.51
5:S3:92:GLN:CD	5:S3:92:GLN:H	2.13	0.51
36:1:1194:G:H2'	36:1:1195:A:C8	2.46	0.51
43:L6:18:LEU:HB3	36:5:591:G:N2	220.70	0.51
1:6:604:A:OP2	88:6:2147:OHX:N4	2.44	0.51
36:5:1414:G:O6	88:5:4151:OHX:N1	2.44	0.51
36:1:1019:G:O6	88:1:4071:OHX:N1	2.43	0.51
31:D9:19:ARG:H	31:D9:19:ARG:HD2	4.87	0.51
3:S1:70:LEU:HB2	3:S1:73:LEU:HD23	1.93	0.51
53:M7:141:SER:O	53:M7:143:PRO:HD3	2.86	0.51
7:S5:161:ASP:OD2	30:D8:42:ARG:NH1	4.02	0.51
19:C7:50:ILE:O	19:C7:54:THR:HG23	2.10	0.51
47:M0:16:PRO:HG3	47:M0:128:ARG:NH1	3.18	0.51
15:C3:33:VAL:HG11	15:C3:66:ILE:HD11	4.07	0.51
7:S5:65:ARG:HE	7:S5:65:ARG:HA	4.39	0.51
39:L2:140:ASN:OD1	39:L2:142:ASP:HB3	5.45	0.51
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.45	0.51
73:O7:25:ARG:HB3	73:O7:25:ARG:HH11	3.48	0.51
34:SR:69:GLN:N	34:SR:83:ALA:O	2.38	0.51
6:S4:194:THR:O	6:S4:195:ILE:HB	2.10	0.51
36:1:2616:C:H2'	36:1:2617:U:H5'	1.93	0.51
5:S3:167:PHE:CE1	5:S3:192:PRO:HB3	2.54	0.51
36:1:2986:U:H2'	36:1:2987:A:H8	1.73	0.51
36:1:129:U:H2'	36:1:130:A:C8	2.45	0.51
70:O4:81:CYS:SG	70:O4:84:CYS:SG	3.16	0.51
26:D4:62:THR:HB	26:D4:69:SER:OG	2.11	0.51
36:5:1643:A:H4'	36:5:1822:C:H5'	1.92	0.51
48:M1:37:LEU:HD13	48:M1:69:VAL:HG12	2.25	0.51
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.41	0.51
1:2:176:C:OP1	88:2:2073:OHX:N3	2.43	0.51
36:5:1770:G:H5'	36:5:1771:C:OP2	2.11	0.51
45:L8:35:GLY:HA2	36:5:2549:G:N7	209.64	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:138:U:H2'	36:5:139:G:C8	2.45	0.51
52:M6:51:LYS:HD2	52:M6:144:SER:OG	3.65	0.51
36:1:2137:U:C6	36:1:2141:U:C4	2.99	0.51
2:S0:64:ILE:HG23	2:S0:73:VAL:HG11	2.24	0.51
7:S5:68:ILE:HD13	7:S5:69:PHE:N	5.14	0.51
49:M3:73:ARG:NH2	36:5:77:A:N7	80.73	0.51
5:S3:140:GLY:HA3	5:S3:182:LEU:HB3	1.93	0.51
47:M0:138:VAL:CG2	47:M0:152:LEU:HD11	2.41	0.51
18:C6:40:GLU:HG3	18:C6:42:GLU:N	2.25	0.51
19:C7:57:LEU:O	19:C7:61:ILE:N	2.77	0.51
63:N7:34:LYS:O	63:N7:37:PRO:HG3	3.48	0.51
36:1:1215:U:C2'	36:1:1216:C:H5''	2.39	0.51
70:O4:22:VAL:HG12	70:O4:23:VAL:H	1.75	0.51
4:S2:227:PRO:HA	4:S2:230:TRP:CD1	2.87	0.51
1:2:1196:A:H4'	1:2:1197:C:O5'	2.11	0.51
21:C9:42:GLY:HA2	21:C9:84:LYS:HB2	2.00	0.51
6:S4:241:GLY:O	6:S4:244:ILE:HG12	2.10	0.51
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.92	0.51
1:2:778:G:H22	26:D4:10:ARG:NH2	2.08	0.51
46:L9:166:ARG:HH21	46:L9:168:ARG:NH1	12.21	0.51
72:O6:97:SER:C	72:O6:99:ARG:H	2.14	0.51
45:L8:93:LEU:O	45:L8:95:ASN:N	2.44	0.51
46:L9:117:PHE:CE2	46:L9:118:LEU:HD12	2.95	0.51
15:C3:127:ARG:HH11	15:C3:127:ARG:HG2	1.75	0.51
6:S4:95:THR:O	6:S4:97:GLU:N	2.44	0.51
17:C5:79:HIS:O	17:C5:81:ARG:N	2.50	0.51
79:Q3:56:THR:HB	79:Q3:63:THR:HG23	2.44	0.51
55:M9:88:ARG:NH1	36:5:2103:U:OP1	213.31	0.51
36:5:1340:G:H2'	36:5:1341:U:C6	2.46	0.51
47:M0:169:LYS:NZ	57:N1:158:THR:OG1	2.43	0.51
36:5:2746:A:H2'	36:5:2747:A:O4'	2.11	0.51
13:C1:53:TYR:CD1	13:C1:113:PRO:HG2	2.59	0.51
36:5:2985:C:H2'	36:5:2986:U:C6	2.46	0.51
1:6:678:A:N7	1:6:679:U:N3	2.59	0.51
36:1:2648:G:HO2'	36:1:2696:A:HO2'	1.59	0.51
36:5:1240:A:H2'	36:5:1241:U:H5'	1.93	0.51
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.10	0.51
50:M4:118:PHE:O	50:M4:122:VAL:HG23	2.11	0.51
3:S1:133:TYR:CG	3:S1:181:LEU:HD11	2.46	0.51
3:S1:175:GLU:HG3	3:S1:193:ILE:HG23	1.92	0.51
48:M1:155:THR:OG1	48:M1:156:LYS:N	2.43	0.51
36:1:2303:A:P	77:Q1:23:ARG:HH22	2.33	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:N0:13:ARG:O	56:N0:22:PRO:HG2	2.11	0.51
36:1:121:A:C2	45:L8:129:PRO:HB3	2.45	0.51
34:SR:309:VAL:HB	34:SR:311:ARG:NH1	2.69	0.51
38:8:78:G:H2'	38:8:79:A:O4'	2.10	0.51
1:2:712:G:H2'	1:2:713:A:O4'	2.10	0.51
36:1:3353:G:O2'	36:1:3354:U:OP1	2.28	0.51
1:6:1756:A:C8	1:6:1756:A:O5'	2.62	0.51
36:1:268:A:C4	51:M5:12:ARG:HG2	2.45	0.51
68:O2:47:ARG:HD3	36:5:634:C:O2'	214.46	0.51
1:6:75:U:O2'	1:6:76:A:O4'	2.29	0.51
1:6:1769:U:OP2	88:6:2140:OHX:N2	2.44	0.51
2:S0:157:ASP:OD2	23:D1:60:ARG:NH2	2.43	0.51
18:C6:95:LYS:HG2	18:C6:96:TYR:CE1	2.82	0.51
36:1:595:G:H1	36:1:609:G:H5''	1.76	0.51
1:2:1239:U:O2	1:2:1246:C:N4	2.43	0.51
1:6:647:G:H22	1:6:687:G:N2	2.09	0.51
1:6:9:U:O4	88:6:2142:OHX:N3	2.43	0.51
36:5:2927:C:H2'	36:5:2928:C:C6	2.46	0.51
1:2:530:C:C2'	1:2:531:C:H5'	2.41	0.51
36:1:2726:C:O2'	36:1:2727:A:H2'	2.11	0.51
24:D2:89:TRP:O	24:D2:93:LEU:HB2	3.54	0.51
1:2:1057:U:O2'	1:2:1058:U:OP2	2.23	0.51
36:1:352:A:H61	36:1:365:A:H5''	1.76	0.51
36:1:3316:A:OP1	36:1:3318:G:N2	2.44	0.51
1:2:1349:G:H2'	1:2:1350:U:C6	2.46	0.51
6:S4:15:PRO:HG2	6:S4:18:TRP:CE2	2.48	0.51
1:2:868:G:H1	1:2:960:U:H3	1.57	0.51
19:C7:7:LYS:HB3	1:6:1316:G:OP1	409.58	0.51
10:S8:76:THR:HG21	10:S8:105:ASP:O	5.45	0.51
1:6:513:U:H2'	1:6:514:G:C8	2.46	0.51
36:1:1230:G:H1	36:1:1279:C:N4	2.04	0.51
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.36	0.51
3:S1:48:VAL:HG21	3:S1:61:LEU:HD22	4.84	0.51
1:2:1291:G:H22	1:2:1324:G:N2	2.08	0.51
36:1:1877:U:H5''	36:1:1878:G:O4'	2.11	0.51
36:1:1240:A:H2	36:1:1248:C:H41	1.57	0.51
36:1:864:G:OP2	88:1:3891:OHX:N5	2.44	0.51
10:S8:188:GLU:HG3	10:S8:192:TYR:HE2	1.75	0.51
24:D2:24:GLN:OE1	29:D7:4:VAL:HA	2.10	0.51
1:2:623:A:OP1	88:2:2157:OHX:N2	2.44	0.51
41:L4:230:VAL:O	41:L4:232:SER:N	3.20	0.51
1:2:1001:A:C6	1:2:1002:G:C6	2.99	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:L8:133:LYS:HB2	45:L8:199:ALA:O	3.19	0.51
2:S0:147:THR:O	2:S0:161:PRO:HA	2.63	0.51
61:N5:135:ILE:O	61:N5:139:ILE:HG22	2.10	0.51
1:2:1592:A:H2'	1:2:1593:A:H8	1.76	0.51
34:SR:83:ALA:HB1	34:SR:110:VAL:HG12	1.93	0.51
1:6:209:U:H2'	1:6:210:A:C8	2.44	0.51
1:2:1584:G:C8	18:C6:122:ARG:HB3	2.46	0.51
1:2:1114:G:O6	88:2:2074:OHX:N5	2.44	0.51
1:2:717:C:N4	1:2:720:G:H22	2.09	0.51
36:1:1051:U:H4'	57:N1:19:PHE:CE2	2.45	0.51
36:5:3279:A:H2'	36:5:3280:U:H5'	1.92	0.51
36:1:1009:A:O3'	47:M0:39:LYS:NZ	2.44	0.51
36:5:2279:A:H2'	36:5:2288:G:O6	2.10	0.51
44:L7:144:ILE:HD12	44:L7:189:ILE:HD12	1.93	0.51
42:L5:178:ASN:HA	42:L5:183:TRP:CG	2.73	0.51
36:5:1915:A:H2'	36:5:1916:U:C6	2.46	0.51
1:6:654:C:H2'	1:6:655:G:C8	2.46	0.51
1:6:1324:G:N7	88:6:2101:OHX:N2	2.59	0.51
39:L2:59:ALA:HB2	39:L2:78:ALA:HB2	1.93	0.51
36:1:1884:A:H5''	36:1:1884:A:H8	1.75	0.51
41:L4:311:HIS:CE1	41:L4:314:LYS:HA	2.46	0.51
1:2:850:A:H5'	55:M9:165:LYS:HD3	1.92	0.51
50:M4:36:VAL:HG11	50:M4:55:ARG:NH2	2.47	0.51
41:L4:302:ALA:HB2	54:M8:39:ARG:NH1	2.74	0.51
51:M5:102:ALA:O	51:M5:106:VAL:HG13	2.25	0.51
3:S1:185:THR:HG22	3:S1:189:ILE:HD11	2.98	0.51
7:S5:20:PHE:CE1	7:S5:34:GLN:HB3	3.38	0.51
47:M0:66:GLU:CD	47:M0:69:ARG:HH21	2.13	0.51
36:5:3308:C:OP2	36:5:3309:G:N2	2.44	0.51
17:C5:30:THR:O	17:C5:34:VAL:HG12	2.11	0.51
25:D3:100:ASP:O	25:D3:101:GLU:HB3	4.67	0.51
36:1:1170:A:OP2	88:1:3968:OHX:N5	2.44	0.51
27:D5:66:VAL:HA	27:D5:71:ILE:HG22	6.43	0.51
66:O0:28:LYS:O	66:O0:32:LYS:HD3	2.35	0.51
36:1:1348:U:OP2	54:M8:38:ARG:NH2	2.43	0.51
57:N1:82:ASN:N	57:N1:82:ASN:OD1	2.39	0.51
36:5:3287:U:H2'	36:5:3288:G:H5'	1.92	0.51
9:S7:35:LYS:HG2	9:S7:36:ALA:H	1.75	0.51
32:E0:28:LYS:HD3	1:6:542:A:N1	430.10	0.51
29:D7:31:TYR:CD2	29:D7:81:ARG:HG3	3.44	0.51
54:M8:73:GLN:HB3	54:M8:76:ALA:HB2	1.92	0.51
1:2:1785:U:OP2	16:C4:133:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1039:U:H2'	36:1:1040:A:C8	2.45	0.51
1:6:1595:U:N3	1:6:1600:A:H2	2.09	0.51
7:S5:140:THR:HG22	7:S5:211:ILE:HG12	2.89	0.51
25:D3:48:HIS:CD2	25:D3:105:ALA:HB2	2.45	0.51
36:5:568:G:N7	88:5:3942:OHX:N6	2.59	0.51
45:L8:107:GLU:O	45:L8:111:LYS:HG2	2.11	0.51
36:1:706:A:H4'	36:1:781:G:O2'	2.11	0.51
30:D8:15:VAL:O	30:D8:17:GLY:N	2.39	0.51
1:6:16:G:H2'	1:6:17:C:C6	2.46	0.51
1:2:83:G:OP2	88:2:2066:OHX:N5	2.44	0.51
36:1:1166:G:N7	88:1:3873:OHX:N4	2.59	0.51
36:5:748:U:H2'	36:5:749:C:C6	2.46	0.51
52:M6:175:THR:HA	52:M6:178:VAL:HB	1.93	0.51
1:2:1055:U:H3	1:2:1064:G:H1	1.57	0.51
66:O0:25:LEU:HD22	66:O0:87:VAL:HG21	1.93	0.51
36:1:2213:A:H2'	36:1:2214:A:C8	2.46	0.51
1:6:96:G:H22	1:6:387:A:H2	1.58	0.51
21:C9:57:ARG:HH11	21:C9:57:ARG:CG	2.25	0.50
71:O5:81:ARG:HB3	38:8:38:U:C4	67.37	0.50
36:1:1262:G:O6	36:1:1278:A:N6	2.43	0.50
77:Q1:4:LYS:HG2	77:Q1:5:TRP:CE3	3.61	0.50
1:6:25:C:OP2	1:6:25:C:H4'	2.11	0.50
42:L5:236:LEU:HA	42:L5:239:ILE:HD12	1.91	0.50
37:3:99:G:O2'	44:L7:128:LYS:NZ	2.43	0.50
41:L4:212:ASP:OD1	41:L4:216:VAL:HG22	2.11	0.50
9:S7:46:ILE:HD11	9:S7:60:ILE:HG12	1.93	0.50
4:S2:67:GLN:O	4:S2:71:THR:HG23	2.65	0.50
1:6:793:A:H3'	1:6:794:U:H5'	1.91	0.50
52:M6:8:VAL:HG12	52:M6:117:ARG:HB3	1.93	0.50
34:SR:33:LEU:O	34:SR:45:TRP:HD1	2.40	0.50
36:1:1482:A:C2	36:1:1867:A:H5''	2.46	0.50
45:L8:74:THR:HB	45:L8:230:LYS:HZ2	1.75	0.50
39:L2:230:VAL:H	39:L2:233:GLN:HG3	3.54	0.50
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.29	0.50
1:6:703:G:H2'	1:6:704:C:C6	2.45	0.50
41:L4:191:LYS:HG3	41:L4:194:TYR:CZ	4.52	0.50
8:S6:14:LYS:HD3	8:S6:16:PHE:CZ	3.15	0.50
18:C6:120:ASP:OD1	18:C6:121:SER:N	2.43	0.50
11:S9:89:ASP:HB2	11:S9:90:LYS:HE2	1.94	0.50
36:5:742:G:N7	88:5:4006:OHX:N4	2.58	0.50
1:6:1017:U:H2'	1:6:1018:U:C6	2.47	0.50
36:5:2402:A:OP2	88:5:4114:OHX:N3	2.43	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:L7:79:ALA:CB	57:N1:137:GLU:HA	2.42	0.50
1:6:1491:U:H5'	1:6:1492:A:OP1	2.10	0.50
1:6:500:C:O2'	1:6:501:U:O4'	2.29	0.50
36:5:2439:A:H4'	36:5:2439:A:OP1	2.11	0.50
18:C6:83:GLN:HE22	18:C6:119:ALA:HB2	1.76	0.50
7:S5:35:GLN:C	7:S5:37:GLN:H	2.88	0.50
21:C9:5:SER:OG	21:C9:6:VAL:N	2.44	0.50
48:M1:92:ARG:HB2	48:M1:94:ARG:HG2	1.92	0.50
72:O6:25:LYS:HB2	72:O6:28:TYR:CD2	2.44	0.50
67:O1:44:MET:O	67:O1:46:THR:HG22	4.45	0.50
47:M0:208:ASN:HB3	47:M0:211:ARG:NH1	3.68	0.50
36:1:2662:G:H2'	36:1:2663:G:C8	2.46	0.50
9:S7:11:GLN:HG3	9:S7:12:ALA:H	1.76	0.50
9:S7:14:THR:HG22	9:S7:17:GLU:HB2	1.93	0.50
8:S6:173:PRO:HG3	1:6:66:U:C5	334.42	0.50
53:M7:69:ARG:NH1	36:5:3308:C:N3	190.19	0.50
36:5:3122:A:H2'	36:5:3123:A:H5'	1.93	0.50
1:6:190:C:O2'	1:6:191:C:O5'	2.30	0.50
1:6:196:G:O2'	1:6:197:A:OP2	2.22	0.50
1:6:619:A:H5'	1:6:620:A:OP2	2.12	0.50
34:SR:14:GLU:HG2	34:SR:309:VAL:HG22	5.15	0.50
36:5:2228:A:H2'	36:5:2229:A:C8	2.46	0.50
36:1:3315:G:OP1	40:L3:174:LYS:NZ	2.44	0.50
36:1:1471:U:H2'	36:1:1472:U:C6	2.46	0.50
36:5:3241:G:H2'	36:5:3245:A:C8	2.46	0.50
49:M3:64:LYS:HD3	49:M3:65:TYR:CE1	2.47	0.50
6:S4:34:GLY:HA3	6:S4:83:PRO:CG	2.53	0.50
1:6:591:A:H2'	1:6:592:A:H8	1.76	0.50
1:6:1429:G:H2'	1:6:1430:U:H6	1.77	0.50
2:S0:7:PHE:HZ	23:D1:43:GLY:HA2	2.90	0.50
28:D6:12:LYS:HB2	28:D6:33:ASP:OD2	2.11	0.50
6:S4:147:ILE:HG21	6:S4:169:ILE:HG13	1.92	0.50
1:6:366:A:C2	1:6:376:C:C2	2.99	0.50
43:L6:69:PHE:CZ	36:5:3267:A:H2'	259.76	0.50
67:O1:72:ARG:O	67:O1:96:VAL:HG13	2.11	0.50
51:M5:73:ARG:HG2	51:M5:75:VAL:HG22	1.96	0.50
6:S4:247:SER:OG	6:S4:250:GLU:HG3	2.11	0.50
62:N6:114:ASP:OD1	88:8:225:OHX:N2	21.71	0.50
45:L8:193:LYS:HB3	36:5:7:C:H5''	122.14	0.50
1:6:1662:G:O6	88:6:2060:OHX:N6	2.43	0.50
36:5:599:C:H2'	36:5:600:G:O4'	2.11	0.50
36:5:1550:C:O2'	36:5:2167:A:N1	2.40	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:653:C:H42	1:6:677:G:H1	1.58	0.50
1:2:359:A:C2	25:D3:38:PHE:HB3	2.45	0.50
40:L3:296:THR:HG22	40:L3:298:PHE:N	3.38	0.50
41:L4:296:GLN:HA	41:L4:299:ILE:HD11	3.03	0.50
41:L4:23:PRO:HD2	41:L4:26:PHE:CD2	2.74	0.50
37:3:121:U:C2	42:L5:268:GLU:HB3	2.47	0.50
41:L4:184:SER:HB2	41:L4:202:ARG:HG2	2.32	0.50
1:2:705:U:H2'	1:2:706:A:C8	2.46	0.50
7:S5:42:LEU:HD21	7:S5:45:LYS:HD2	1.92	0.50
29:D7:19:HIS:CD2	29:D7:21:LEU:N	5.10	0.50
42:L5:233:ALA:O	42:L5:235:SER:N	2.44	0.50
9:S7:38:LEU:N	9:S7:40:PRO:HD2	2.27	0.50
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.47	0.50
24:D2:103:ILE:HB	24:D2:112:ASP:HA	2.84	0.50
39:L2:209:HIS:ND1	39:L2:210:PRO:HD2	3.19	0.50
6:S4:108:ARG:HH22	1:6:788:A:H3'	393.67	0.50
11:S9:174:ARG:HE	11:S9:174:ARG:HA	1.77	0.50
9:S7:43:PHE:CE1	9:S7:46:ILE:HG12	2.47	0.50
55:M9:133:LYS:HB3	55:M9:134:HIS:CD2	4.37	0.50
1:6:492:A:H2'	1:6:493:U:H5''	1.93	0.50
52:M6:42:ASN:OD1	52:M6:125:ARG:HD3	2.12	0.50
36:5:1595:U:C2	36:5:1596:C:C5	2.99	0.50
6:S4:32:SER:HB2	6:S4:83:PRO:HD3	1.92	0.50
34:SR:274:LEU:HD13	34:SR:313:TRP:CD2	2.46	0.50
48:M1:166:LYS:C	48:M1:168:ASP:H	2.87	0.50
36:5:975:C:H2'	36:5:976:U:H6	1.76	0.50
53:M7:4:TYR:HA	53:M7:18:ARG:HH21	2.57	0.50
36:1:2371:G:O6	88:1:3880:OHX:N3	2.45	0.50
36:1:3013:U:H2'	36:1:3014:U:C6	2.47	0.50
38:8:26:U:H2'	38:8:27:U:C6	2.47	0.50
36:5:2696:A:H2'	36:5:2697:A:C8	2.46	0.50
36:5:1479:U:C3'	36:5:1480:G:H5'	2.41	0.50
9:S7:185:ILE:HG22	9:S7:186:PRO:HD3	2.64	0.50
1:2:651:G:N7	88:2:2104:OHX:N6	2.60	0.50
46:L9:17:THR:HG21	50:M4:3:THR:O	2.11	0.50
41:L4:322:GLN:OE1	36:5:598:A:H1'	256.97	0.50
13:C1:100:TYR:O	25:D3:10:ASN:HA	2.11	0.50
1:6:1799:U:H4'	1:6:1800:A:H2'	1.94	0.50
49:M3:124:ILE:HG23	49:M3:126:PHE:HE1	5.25	0.50
36:1:1307:G:C2	36:1:1308:A:C2	3.00	0.50
67:O1:41:LYS:O	67:O1:45:GLY:HA2	2.78	0.50
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.45	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:C8:101:LEU:O	20:C8:104:ASN:HB3	2.59	0.50
1:6:329:G:H2'	1:6:330:G:C8	2.46	0.50
36:1:1456:A:C6	67:O1:64:VAL:HG22	2.47	0.50
40:L3:267:ALA:O	36:5:2989:U:O2'	211.81	0.50
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	2.30	0.50
36:5:1024:G:OP2	36:5:1024:G:N2	2.44	0.50
34:SR:172:ALA:HB2	34:SR:202:LEU:HD13	1.93	0.50
6:S4:11:ARG:H	6:S4:27:TYR:HA	1.76	0.50
36:1:2278:C:OP1	88:1:3967:OHX:N3	2.45	0.50
1:2:208:U:H2'	1:2:209:U:C6	2.45	0.50
36:5:1819:U:O4	88:5:4053:OHX:N5	2.45	0.50
57:N1:57:TYR:HA	57:N1:60:LYS:HG3	4.60	0.50
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.12	0.50
39:L2:113:VAL:HG23	39:L2:134:VAL:HG22	1.92	0.50
51:M5:45:PRO:O	51:M5:49:ARG:HB2	4.44	0.50
22:D0:34:LEU:HD21	22:D0:89:ARG:HD2	3.69	0.50
49:M3:59:ARG:NH1	36:5:73:C:N3	95.65	0.50
38:4:104:A:C8	38:4:105:A:C8	3.00	0.50
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.93	0.50
46:L9:20:ILE:HG12	46:L9:25:VAL:HG13	1.94	0.50
51:M5:153:ASP:OD2	51:M5:155:VAL:HG23	3.53	0.50
49:M3:8:PRO:HA	54:M8:164:ARG:O	2.41	0.50
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.94	0.50
52:M6:171:LYS:O	52:M6:175:THR:HG23	2.68	0.50
41:L4:130:ALA:O	41:L4:148:ILE:HG21	2.11	0.50
46:L9:89:LYS:HD3	46:L9:183:HIS:HB3	1.94	0.50
36:1:1889:G:OP1	40:L3:247:ARG:HG3	2.11	0.50
51:M5:70:ASN:HB3	51:M5:92:LEU:O	2.11	0.50
14:C2:132:GLU:HA	14:C2:135:MET:HB2	1.93	0.50
36:1:138:U:H2'	36:1:139:G:C8	2.46	0.50
49:M3:168:ARG:O	49:M3:172:LEU:HG	2.32	0.50
68:O2:12:LYS:HD3	68:O2:57:TYR:O	2.11	0.50
36:5:571:U:H2'	36:5:572:A:H8	1.76	0.50
1:2:240:U:OP1	1:2:240:U:H4'	2.12	0.50
1:6:1193:A:OP1	1:6:1193:A:H8	1.94	0.50
43:L6:108:LYS:C	43:L6:109:GLU:HG2	2.30	0.50
1:6:1308:G:C2	1:6:1309:C:C2	2.98	0.50
40:L3:296:THR:H	40:L3:299:ASP:HB3	1.77	0.50
3:S1:184:LEU:HD12	3:S1:188:LEU:HG	3.82	0.50
39:L2:28:LYS:HE3	39:L2:123:ARG:HH11	4.07	0.50
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.24	0.50
36:1:1807:G:C6	36:1:1808:G:C6	2.99	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:168:SER:OG	57:N1:160:ILE:O	2.22	0.50
23:D1:64:GLU:OE1	29:D7:3:LEU:HB2	2.11	0.50
1:6:1540:G:C6	1:6:1541:G:C4	3.00	0.50
36:5:1200:A:H5'	36:5:1201:C:O5'	2.12	0.50
36:5:1573:G:C5	36:5:1574:C:H1'	2.45	0.50
78:Q2:71:ARG:NH1	78:Q2:80:ARG:HD3	4.92	0.50
37:3:71:G:H2'	37:3:72:A:C8	2.46	0.50
36:1:784:A:C6	54:M8:93:ILE:HG22	2.47	0.50
62:N6:102:SER:OG	62:N6:103:LYS:HE2	2.83	0.50
34:SR:44:SER:O	34:SR:58:VAL:HG22	2.12	0.50
36:1:700:C:OP1	49:M3:65:TYR:OH	2.25	0.50
43:L6:50:LYS:HE3	43:L6:72:ASN:HB2	1.93	0.50
36:1:3006:A:C2	36:1:3141:A:C4	2.99	0.50
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.46	0.50
8:S6:116:LYS:NZ	8:S6:120:GLU:OE2	2.31	0.50
8:S6:48:TYR:CE2	8:S6:121:LEU:HD22	5.17	0.50
36:1:3084:C:H2'	36:1:3085:G:O4'	2.11	0.50
36:1:372:A:H2'	36:1:373:A:O4'	2.11	0.50
68:O2:76:VAL:HG21	68:O2:94:ALA:HB1	2.18	0.50
51:M5:42:PRO:HG3	51:M5:61:ILE:HG13	2.03	0.50
43:L6:129:GLU:HG2	43:L6:130:ILE:H	3.99	0.50
36:5:158:G:N2	36:5:264:G:H1'	2.27	0.50
36:1:1332:A:H2'	36:1:1333:C:C6	2.46	0.50
36:1:1441:G:O6	88:1:3934:OHX:N1	2.45	0.50
9:S7:142:TYR:O	24:D2:49:GLU:HB2	2.43	0.50
9:S7:158:ASP:O	9:S7:160:GLN:N	2.45	0.50
74:O8:26:LYS:NZ	36:5:1751:G:OP1	131.49	0.50
6:S4:117:GLU:O	6:S4:120:SER:OG	2.17	0.50
36:1:561:C:H2'	36:1:562:C:H6	1.77	0.50
1:2:1509:C:H2'	1:2:1510:U:O4'	2.10	0.50
11:S9:38:ASN:HB3	11:S9:40:LYS:H	1.77	0.50
40:L3:81:THR:OG1	40:L3:321:PHE:HA	2.12	0.50
36:5:2440:G:O2'	36:5:2441:A:OP1	2.29	0.50
3:S1:184:LEU:O	3:S1:188:LEU:HG	2.21	0.50
23:D1:62:ARG:NH1	24:D2:20:THR:HG22	3.18	0.50
41:L4:203:ARG:NH2	41:L4:240:PRO:HB3	3.34	0.50
47:M0:4:ARG:NH1	36:5:2828:G:O2'	265.02	0.50
1:6:828:U:H2'	1:6:829:A:H5''	1.94	0.50
7:S5:43:PHE:CZ	7:S5:90:ILE:HG21	2.47	0.50
36:1:2662:G:H2'	36:1:2663:G:H8	1.77	0.50
88:5:3907:OHX:N2	38:8:1:A:OP1	2.45	0.50
67:O1:28:ARG:HB3	67:O1:64:VAL:O	3.77	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:D0:104:THR:HG22	22:D0:116:VAL:HG21	1.94	0.50
25:D3:51:GLY:O	25:D3:101:GLU:HA	2.83	0.50
22:D0:83:GLU:CD	22:D0:85:ARG:HH21	2.15	0.50
36:1:846:A:H2'	36:1:847:A:O4'	2.12	0.50
36:5:411:U:H2'	36:5:412:G:H8	1.75	0.50
8:S6:164:LYS:HB3	8:S6:167:LYS:O	2.46	0.50
23:D1:68:SER:O	23:D1:72:LEU:HG	2.78	0.50
46:L9:162:GLN:HG3	46:L9:163:GLN:N	2.38	0.50
36:5:1196:C:O2	88:7:218:OHX:N1	2.44	0.50
39:L2:61:VAL:HG22	39:L2:63:PHE:CE1	5.85	0.50
10:S8:95:THR:HG22	10:S8:97:THR:HG22	1.93	0.50
36:5:27:C:O2'	36:5:327:A:N3	2.40	0.50
1:2:1576:A:H2'	1:2:1577:A:O4'	2.11	0.50
36:5:1708:C:H2'	36:5:1709:C:H6	1.76	0.50
41:L4:62:ALA:HB1	41:L4:76:ARG:O	2.11	0.50
6:S4:166:SER:O	6:S4:168:LYS:HG2	5.81	0.50
36:1:1719:G:H5''	55:M9:110:ARG:HH22	1.75	0.50
36:5:2762:A:OP2	88:5:3992:OHX:N5	2.44	0.50
36:1:701:G:H2'	36:1:702:C:C6	2.47	0.50
1:6:727:U:H2'	1:6:728:U:H6	1.76	0.50
7:S5:177:ILE:HG12	7:S5:180:ARG:HH12	2.76	0.50
36:1:807:A:H61	36:1:934:G:H22	1.58	0.50
5:S3:62:ASN:ND2	5:S3:62:ASN:O	4.53	0.50
69:O3:53:TYR:CZ	69:O3:65:ARG:HB2	2.46	0.50
11:S9:176:ASN:HA	11:S9:179:ARG:HG2	5.12	0.50
36:5:1368:U:O2'	36:5:1369:A:H5'	2.12	0.50
43:L6:78:ARG:HG3	43:L6:78:ARG:NH1	2.10	0.50
2:S0:140:ASN:ND2	23:D1:29:HIS:HA	2.26	0.50
2:S0:38:PHE:HB3	2:S0:47:VAL:O	2.12	0.50
62:N6:39:LEU:HD13	62:N6:43:TYR:CE2	3.26	0.50
57:N1:130:ARG:HD3	36:5:1098:A:OP2	255.19	0.50
21:C9:66:TYR:HA	21:C9:124:ILE:HB	1.94	0.50
3:S1:97:LEU:HD12	3:S1:98:THR:H	1.76	0.50
36:5:247:C:C2	36:5:248:U:H1'	2.47	0.50
14:C2:46:ARG:HB2	33:E1:103:LEU:HD12	1.94	0.50
22:D0:100:VAL:O	22:D0:104:THR:HG23	2.12	0.50
51:M5:68:ARG:HD2	51:M5:128:LYS:HE3	4.52	0.50
24:D2:80:ASN:OD1	24:D2:124:LYS:HG2	2.12	0.50
74:O8:4:GLU:HG3	74:O8:5:ILE:N	2.26	0.50
34:SR:113:VAL:HG13	34:SR:114:ASP:H	1.77	0.50
9:S7:33:GLU:HA	9:S7:37:GLU:OE2	2.12	0.50
20:C8:35:ILE:HB	20:C8:38:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:L5:34:LYS:O	42:L5:38:THR:HG23	2.12	0.50
42:L5:34:LYS:HD2	57:N1:30:TYR:CZ	2.47	0.50
2:S0:148:ASP:HB2	2:S0:164:ASN:ND2	2.93	0.50
36:5:3242:G:H5''	36:5:3245:A:H8	1.76	0.50
26:D4:88:THR:O	26:D4:92:VAL:HG22	4.08	0.50
13:C1:29:LYS:O	13:C1:31:THR:N	2.44	0.50
36:5:188:U:H1'	36:5:208:C:H1'	1.94	0.50
36:5:3029:A:H5''	36:5:3030:G:OP2	2.11	0.50
44:L7:179:LEU:HD22	44:L7:183:ASP:OD2	2.12	0.50
71:O5:54:VAL:O	71:O5:58:ILE:HG13	2.36	0.50
26:D4:34:ASN:ND2	1:6:521:A:N3	425.17	0.50
46:L9:189:GLU:C	46:L9:191:LEU:H	2.15	0.50
44:L7:108:LEU:HD23	44:L7:113:SER:O	2.11	0.50
11:S9:178:ALA:HA	11:S9:181:ALA:HB3	3.68	0.50
38:8:6:U:H2'	38:8:7:U:C6	2.47	0.50
1:2:480:G:N2	1:2:509:G:H1'	2.26	0.50
1:6:1050:G:N2	1:6:1068:C:O2	2.44	0.50
36:1:402:A:C6	53:M7:21:TYR:CE2	3.00	0.50
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.47	0.50
1:6:1071:U:H2'	1:6:1072:C:C6	2.47	0.50
34:SR:29:GLN:C	34:SR:31:ASN:H	2.14	0.50
1:6:1175:U:H2'	1:6:1176:G:C8	2.47	0.50
72:O6:56:ARG:HH22	72:O6:76:ARG:NH1	2.10	0.50
36:1:820:A:OP1	88:1:3951:OHX:N5	2.45	0.50
36:1:2376:G:H2'	36:1:2377:G:C8	2.46	0.50
1:2:605:A:OP2	1:2:606:A:O2'	2.20	0.50
36:5:668:G:OP1	88:5:4145:OHX:N1	2.43	0.50
36:5:3347:A:H61	36:5:3358:U:H3	1.60	0.50
36:1:1722:U:H5''	55:M9:99:LEU:HD12	1.94	0.50
10:S8:176:SER:O	10:S8:178:ARG:HG2	3.40	0.50
36:1:2218:G:H2'	36:1:2219:A:H8	1.76	0.50
36:1:2136:C:H2'	36:1:2142:A:N6	2.27	0.50
40:L3:41:VAL:HG22	40:L3:185:GLY:HA3	1.93	0.50
28:D6:45:VAL:O	28:D6:49:ALA:HB3	4.81	0.50
18:C6:27:GLY:HA2	18:C6:60:PHE:O	2.12	0.50
54:M8:120:GLU:CD	54:M8:130:ARG:HH22	2.15	0.50
36:1:2444:C:H3'	36:1:2445:A:H5''	1.94	0.50
13:C1:139:VAL:HG12	13:C1:140:VAL:N	2.24	0.50
13:C1:72:THR:O	13:C1:88:ARG:NH1	6.16	0.50
15:C3:119:GLU:O	15:C3:122:ILE:HB	2.12	0.50
25:D3:23:ARG:HG3	25:D3:23:ARG:NH1	2.80	0.50
53:M7:67:ILE:HD12	53:M7:82:ARG:NH1	3.41	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:780:A:C8	26:D4:8:ARG:HB3	2.47	0.50
25:D3:92:CYS:HB3	25:D3:132:LEU:HD23	4.41	0.50
2:S0:22:THR:HG21	2:S0:173:ILE:HD11	2.60	0.50
1:2:1760:G:H2'	1:2:1761:U:H5'	1.93	0.50
55:M9:167:ARG:HH11	55:M9:167:ARG:HB3	4.46	0.50
62:N6:57:LEU:HB3	62:N6:105:VAL:HG12	2.13	0.50
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.94	0.50
36:1:2358:A:H2'	36:1:2359:C:O4'	2.11	0.50
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.47	0.50
34:SR:23:LEU:HD12	34:SR:292:LEU:HA	1.94	0.50
55:M9:89:LEU:HD12	55:M9:90:PRO:HD2	2.91	0.50
24:D2:82:LYS:C	24:D2:84:GLY:H	2.15	0.50
15:C3:2:GLY:O	1:6:866:G:H5''	330.01	0.50
39:L2:20:THR:HA	39:L2:23:ARG:HD2	1.94	0.50
36:5:2277:C:O2'	36:5:2278:C:H5'	2.11	0.50
39:L2:48:ILE:HD11	79:Q3:54:ILE:HG23	1.92	0.50
36:1:1130:A:C8	36:1:1132:C:C6	2.99	0.50
4:S2:87:GLN:HG3	1:6:11:A:H5'	380.06	0.50
8:S6:95:LYS:NZ	1:6:160:C:O3'	308.35	0.50
22:D0:18:GLN:O	22:D0:19:ILE:HG13	4.45	0.50
36:1:428:A:H2'	36:1:429:U:C6	2.47	0.50
36:1:979:U:H1'	36:1:980:A:C8	2.47	0.50
51:M5:56:LYS:NZ	51:M5:145:ASP:OD2	2.78	0.50
11:S9:120:LYS:O	11:S9:121:SER:HB3	2.12	0.50
35:SM:52:PRO:O	35:SM:54:PRO:HD3	4.82	0.50
18:C6:19:VAL:HG21	1:6:1379:C:H1'	431.98	0.50
1:6:108:A:H2'	1:6:109:G:C8	2.47	0.50
36:5:686:G:C6	36:5:687:U:C2	3.00	0.50
22:D0:60:THR:HG22	1:6:1382:A:H5''	436.49	0.50
28:D6:23:CYS:SG	28:D6:74:CYS:HB3	2.51	0.50
6:S4:45:ILE:HB	6:S4:80:THR:HG23	2.46	0.50
41:L4:293:SER:HA	41:L4:296:GLN:HB2	3.23	0.50
1:6:486:G:H4'	1:6:486:G:OP1	2.11	0.50
3:S1:71:ALA:HB3	16:C4:114:ARG:NH1	2.70	0.50
10:S8:38:ILE:HA	10:S8:60:ILE:O	2.42	0.50
34:SR:42:LEU:HB2	34:SR:61:PHE:HB2	1.94	0.50
9:S7:133:THR:HG22	9:S7:157:LYS:O	3.10	0.50
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.47	0.50
72:O6:66:GLU:HB3	72:O6:70:ARG:HH21	1.77	0.50
7:S5:97:LEU:O	7:S5:99:MET:N	2.69	0.50
1:2:272:U:O2'	1:2:273:G:O4'	2.27	0.50
8:S6:153:VAL:HG21	8:S6:175:ILE:HG21	3.84	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:592:A:OP1	11:S9:39:LYS:HG2	2.11	0.50
36:5:1573:G:C6	36:5:1574:C:H1'	2.47	0.50
40:L3:171:LEU:HD21	40:L3:314:TYR:CE2	3.92	0.50
1:6:1058:U:H4'	1:6:1059:U:OP1	2.12	0.50
5:S3:168:ILE:HD12	5:S3:187:LYS:HE3	1.93	0.50
49:M3:144:THR:HG21	71:O5:118:ILE:HG21	1.94	0.50
71:O5:4:VAL:HG13	71:O5:50:SER:OG	2.12	0.50
36:5:1530:U:OP1	88:5:3994:OHX:N1	2.45	0.50
36:5:750:G:H2'	36:5:751:A:H8	1.77	0.50
68:O2:33:ARG:NH1	36:5:944:C:H4'	161.98	0.50
2:S0:105:GLY:O	2:S0:109:ASN:HB3	2.52	0.50
3:S1:146:GLN:O	3:S1:148:ASN:N	2.49	0.50
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	1.93	0.50
25:D3:38:PHE:HB3	1:6:359:A:C2	325.52	0.50
1:2:116:U:H2'	1:2:117:U:C6	2.47	0.50
36:1:407:A:C2	38:4:17:A:H1'	2.47	0.50
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.47	0.50
37:3:60:G:H2'	37:3:61:G:H8	1.76	0.50
18:C6:103:ASN:HA	18:C6:106:LYS:HB2	3.13	0.50
58:N2:20:SER:OG	58:N2:21:SER:N	2.44	0.50
36:1:1712:G:N2	36:1:1731:A:OP2	2.41	0.50
36:1:256:G:H2'	36:1:257:U:C6	2.47	0.50
56:N0:78:TRP:CE3	56:N0:125:LYS:HG2	2.96	0.50
36:5:3353:G:O2'	36:5:3356:G:OP2	2.28	0.50
1:6:768:C:H2'	1:6:769:A:O4'	2.12	0.50
40:L3:339:ARG:NH1	40:L3:342:LEU:HD11	2.26	0.50
15:C3:70:LYS:NZ	1:6:963:A:OP2	331.36	0.50
22:D0:27:THR:HG23	22:D0:113:ASP:OD1	4.05	0.49
1:2:1480:G:H3'	1:2:1481:C:C6	2.47	0.49
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.25	0.49
1:2:1101:G:O3'	24:D2:76:SER:HB2	2.12	0.49
18:C6:35:PRO:HG2	18:C6:38:LEU:HG	1.93	0.49
7:S5:94:THR:HB	7:S5:114:ILE:HG13	1.94	0.49
48:M1:107:ASP:HA	48:M1:124:GLY:HA2	1.94	0.49
49:M3:101:ARG:HB2	36:5:76:G:N7	85.46	0.49
25:D3:53:VAL:HG23	25:D3:100:ASP:O	2.11	0.49
24:D2:78:ARG:HD2	24:D2:126:LEU:HD23	1.94	0.49
35:SM:64:LYS:O	35:SM:66:ALA:N	2.89	0.49
34:SR:112:SER:HB2	34:SR:153:GLN:HA	2.41	0.49
74:O8:14:LEU:HD21	74:O8:52:TYR:CD2	4.76	0.49
16:C4:123:SER:O	16:C4:124:ASP:HB2	4.90	0.49
1:2:209:U:H5'	10:S8:171:SER:HB3	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1769:U:O2	16:C4:136:ARG:NH1	2.45	0.49
48:M1:34:SER:HB2	48:M1:67:VAL:HG11	1.94	0.49
2:S0:36:TYR:CD1	2:S0:161:PRO:HG3	2.48	0.49
49:M3:2:ALA:HA	64:N8:41:HIS:HE1	4.64	0.49
8:S6:48:TYR:CZ	8:S6:121:LEU:HD22	5.57	0.49
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.94	0.49
1:6:1491:U:H4'	1:6:1492:A:H5''	1.94	0.49
36:1:256:G:H2'	36:1:257:U:H6	1.77	0.49
16:C4:43:THR:OG1	16:C4:44:GLY:N	2.40	0.49
3:S1:90:GLU:OE1	3:S1:91:VAL:N	3.51	0.49
36:5:566:G:N7	88:5:4135:OHX:N5	2.60	0.49
44:L7:70:LYS:NZ	36:5:519:A:OP2	314.80	0.49
14:C2:91:VAL:HG22	14:C2:92:ALA:H	4.32	0.49
11:S9:85:VAL:HG13	11:S9:103:ASP:HB2	1.94	0.49
44:L7:55:TYR:HE2	44:L7:141:TYR:CE2	2.66	0.49
30:D8:22:ARG:HD2	1:6:1619:C:C2	342.26	0.49
36:1:730:C:H2'	36:1:731:U:H6	1.77	0.49
36:1:2299:A:OP1	88:1:3956:OHX:N1	2.45	0.49
36:5:2400:G:H5''	36:5:2401:A:OP2	2.12	0.49
12:C0:1:MET:HG2	12:C0:2:LEU:N	2.27	0.49
36:1:1212:A:H2'	36:1:1213:G:H5''	1.94	0.49
36:1:2655:U:H4'	36:1:2656:A:O4'	2.13	0.49
73:O7:21:ARG:HD2	73:O7:39:TYR:HB2	2.31	0.49
23:D1:71:ARG:HG3	23:D1:83:TRP:CH2	2.48	0.49
18:C6:82:ARG:HH22	18:C6:114:ARG:CB	2.25	0.49
16:C4:127:ARG:HD3	1:6:990:C:O2'	282.75	0.49
1:6:219:A:H2'	1:6:831:U:O2	2.12	0.49
1:2:283:U:H5''	8:S6:188:ARG:HD3	1.94	0.49
1:6:150:U:H2'	1:6:151:G:O4'	2.11	0.49
10:S8:82:VAL:HG22	10:S8:196:LEU:HD11	1.93	0.49
17:C5:37:ALA:HB1	17:C5:38:PRO:HD2	1.94	0.49
56:N0:13:ARG:NH1	56:N0:13:ARG:HG3	4.77	0.49
1:2:495:C:H3'	1:2:496:G:O4'	2.12	0.49
20:C8:139:LYS:HE2	1:6:1459:C:N4	351.60	0.49
71:O5:21:LEU:HD22	71:O5:25:LYS:HG3	1.94	0.49
6:S4:106:LYS:NZ	1:6:788:A:OP1	397.53	0.49
57:N1:57:TYR:CD1	57:N1:89:LEU:HD21	2.47	0.49
3:S1:126:THR:CG2	3:S1:136:ARG:HE	2.25	0.49
36:1:13:A:OP2	88:1:4217:OHX:N5	2.46	0.49
38:4:103:G:O6	88:4:222:OHX:N4	2.45	0.49
1:2:1483:A:H2'	1:2:1484:G:C8	2.46	0.49
36:5:1615:C:H2'	36:5:1616:U:C6	2.47	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:212:ASN:O	40:L3:281:LYS:NZ	2.43	0.49
16:C4:91:THR:O	16:C4:93:THR:N	2.69	0.49
4:S2:183:ALA:HB1	4:S2:211:LEU:HD21	1.94	0.49
37:7:106:U:H2'	37:7:107:C:O4'	2.11	0.49
1:2:1646:C:H2'	1:2:1647:U:C6	2.47	0.49
28:D6:23:CYS:HB3	28:D6:28:LYS:H	2.11	0.49
39:L2:189:TYR:HA	39:L2:192:LYS:HB2	2.47	0.49
14:C2:68:GLU:C	14:C2:70:ASN:H	2.14	0.49
13:C1:93:TYR:HB2	13:C1:100:TYR:HE1	2.57	0.49
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.94	0.49
66:O0:100:ILE:HG13	66:O0:101:LEU:HD13	7.80	0.49
1:2:1545:A:H2'	1:2:1546:G:C8	2.47	0.49
20:C8:82:PRO:O	20:C8:84:TRP:N	2.43	0.49
57:N1:101:CYS:SG	57:N1:102:ARG:N	3.41	0.49
12:C0:32:HIS:CD2	12:C0:33:GLU:HG2	7.01	0.49
15:C3:119:GLU:HG2	15:C3:141:TYR:CE2	3.68	0.49
67:O1:44:MET:HB3	67:O1:77:ARG:NH2	5.70	0.49
33:E1:96:LYS:O	33:E1:97:LYS:HB2	3.35	0.49
63:N7:97:SER:OG	63:N7:98:THR:N	4.33	0.49
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.71	0.49
17:C5:96:ILE:HD11	17:C5:116:LEU:HD22	1.93	0.49
35:SM:76:VAL:HG11	1:6:1461:C:H1'	329.16	0.49
1:2:1600:A:HO2'	1:2:1602:C:N4	2.11	0.49
45:L8:101:THR:CG2	45:L8:104:GLU:H	2.25	0.49
48:M1:8:PRO:HD2	48:M1:10:ARG:H	1.77	0.49
1:6:542:A:O2'	1:6:543:C:O5'	2.29	0.49
1:2:1393:C:H42	1:2:1405:G:H1	1.61	0.49
57:N1:12:ARG:HD3	57:N1:13:TYR:CE1	3.55	0.49
36:1:2534:G:H2'	36:1:2535:A:H8	1.77	0.49
44:L7:173:LEU:HD23	44:L7:178:ILE:HG21	1.94	0.49
1:2:1609:U:H2'	1:2:1610:G:O4'	2.12	0.49
68:O2:20:HIS:O	68:O2:21:HIS:HB2	2.12	0.49
1:2:717:C:H2'	1:2:718:U:H5''	1.94	0.49
64:N8:89:GLN:O	64:N8:93:SER:HB2	5.35	0.49
1:6:886:U:H2'	1:6:887:A:C8	2.47	0.49
36:5:113:C:C2	36:5:319:A:C2	3.00	0.49
16:C4:23:PHE:HE2	16:C4:91:THR:HG21	1.77	0.49
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.35	0.49
1:6:1041:G:OP1	88:6:2172:OHX:N4	2.44	0.49
11:S9:5:PRO:HG3	1:6:380:U:C2	368.50	0.49
44:L7:145:ARG:HA	44:L7:185:ILE:HD13	2.31	0.49
19:C7:108:ASP:HA	19:C7:111:LYS:HB2	3.79	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:L9:93:VAL:O	46:L9:177:ASP:HA	2.13	0.49
42:L5:44:TYR:HE1	57:N1:35:LYS:HB3	1.76	0.49
1:2:25:C:O2	88:2:2084:OHX:N1	2.45	0.49
50:M4:72:LEU:HD23	50:M4:73:PRO:HD2	1.92	0.49
40:L3:332:ARG:O	40:L3:333:LYS:HB2	2.11	0.49
68:O2:71:HIS:CE1	68:O2:118:LYS:HD2	5.63	0.49
6:S4:45:ILE:HD11	6:S4:49:ARG:HH21	1.76	0.49
52:M6:110:PRO:HA	52:M6:113:ASP:OD2	2.12	0.49
16:C4:16:VAL:HG11	16:C4:18:ARG:HE	1.76	0.49
17:C5:33:PHE:O	17:C5:36:LEU:HD22	3.61	0.49
36:1:1074:U:O2'	36:1:1075:A:H2'	2.12	0.49
3:S1:186:SER:HA	3:S1:189:ILE:HD12	2.72	0.49
47:M0:144:ASN:ND2	47:M0:147:VAL:HB	3.61	0.49
28:D6:10:ARG:NH1	28:D6:36:ILE:HG13	4.27	0.49
26:D4:60:PHE:O	1:6:523:G:H5'	413.90	0.49
53:M7:29:THR:HG22	53:M7:87:SER:CB	2.42	0.49
1:6:119:A:H1'	1:6:397:A:C5	2.46	0.49
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.94	0.49
51:M5:122:ASN:OD1	51:M5:123:GLN:N	2.45	0.49
59:N3:87:ARG:HH22	59:N3:137:VAL:HG23	1.77	0.49
39:L2:9:ARG:NH1	36:5:912:G:OP2	180.45	0.49
5:S3:64:ARG:HG2	5:S3:65:ARG:H	4.05	0.49
6:S4:104:ASP:HB3	6:S4:106:LYS:H	1.78	0.49
36:1:2259:A:OP2	88:1:3942:OHX:N2	2.45	0.49
51:M5:172:ARG:HH22	36:5:63:A:P	101.62	0.49
1:2:538:A:H8	1:2:543:C:N4	2.10	0.49
32:E0:53:LYS:HE2	32:E0:55:ARG:HD3	8.90	0.49
40:L3:116:ARG:HD2	40:L3:122:TRP:CG	2.48	0.49
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.44	0.49
45:L8:100:GLU:OE1	45:L8:108:ARG:HD3	2.12	0.49
1:2:775:G:N7	26:D4:11:LYS:NZ	2.61	0.49
56:N0:42:TRP:CD2	56:N0:53:LYS:HB3	4.57	0.49
53:M7:4:TYR:CZ	53:M7:18:ARG:HG3	2.47	0.49
36:1:2383:C:H5'	52:M6:71:PHE:CE2	2.48	0.49
37:7:80:G:H2'	37:7:81:U:O4'	2.12	0.49
1:6:702:G:N7	88:6:2096:OHX:N4	2.60	0.49
12:C0:16:PHE:O	12:C0:88:PRO:HA	2.12	0.49
36:1:2112:U:H6	36:1:2112:U:O5'	1.95	0.49
66:O0:27:TYR:O	66:O0:31:VAL:HG23	2.12	0.49
34:SR:129:LYS:HG2	34:SR:149:ASP:O	2.34	0.49
2:S0:125:ASP:O	2:S0:127:ARG:N	2.45	0.49
17:C5:124:THR:OG1	17:C5:124:THR:O	3.34	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1120:U:H2'	1:6:1121:C:C6	2.47	0.49
36:1:3048:A:O3'	88:1:4195:OHX:N4	2.45	0.49
3:S1:130:SER:OG	3:S1:180:THR:N	2.43	0.49
37:7:27:A:C2	37:7:28:C:C2	3.01	0.49
3:S1:84:ILE:HG22	3:S1:86:LEU:HD22	1.94	0.49
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.95	0.49
49:M3:57:VAL:HG13	49:M3:147:ILE:CG2	2.68	0.49
36:5:2254:U:H2'	36:5:2261:G:N2	2.27	0.49
10:S8:196:LEU:HD22	10:S8:200:LYS:HD3	6.97	0.49
70:O4:16:ARG:HD2	70:O4:37:LYS:HD2	1.92	0.49
25:D3:50:LYS:HG2	25:D3:77:ILE:HD12	3.42	0.49
5:S3:209:ILE:HG22	19:C7:38:ILE:O	2.47	0.49
7:S5:117:THR:HG21	7:S5:194:LEU:HD13	2.86	0.49
39:L2:201:GLY:HA2	39:L2:204:MET:SD	2.88	0.49
1:6:1249:U:H2'	1:6:1250:U:O4'	2.12	0.49
1:6:713:A:H2'	1:6:714:G:H5''	1.92	0.49
23:D1:60:ARG:HA	23:D1:65:SER:HB2	2.08	0.49
36:1:650:C:O2'	36:1:651:G:H5'	2.12	0.49
2:S0:82:GLY:O	2:S0:86:VAL:HG22	2.12	0.49
1:2:1357:A:H2'	1:2:1358:G:C8	2.48	0.49
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.47	0.49
36:5:2213:A:N1	36:5:2429:G:H1'	2.27	0.49
12:C0:61:TRP:CZ3	31:D9:22:ARG:HD2	2.47	0.49
36:1:371:G:H4'	36:1:396:A:N1	2.27	0.49
58:N2:20:SER:O	58:N2:24:GLU:HG2	2.59	0.49
36:5:1798:A:H2'	36:5:1799:A:C8	2.47	0.49
9:S7:123:ASP:OD1	9:S7:138:LYS:NZ	2.45	0.49
61:N5:79:GLY:O	61:N5:81:ILE:HD12	3.57	0.49
36:1:3004:C:O2'	36:1:3005:A:H5'	2.12	0.49
54:M8:175:ALA:HB3	64:N8:53:PHE:O	2.11	0.49
31:D9:15:GLY:O	31:D9:17:GLY:N	3.39	0.49
2:S0:134:LYS:O	2:S0:137:SER:OG	2.22	0.49
29:D7:58:SER:O	29:D7:60:SER:N	3.91	0.49
36:1:558:U:H6	36:1:558:U:O5'	1.95	0.49
1:2:1085:G:N2	1:2:1087:A:H3'	2.27	0.49
1:2:1543:A:H2'	1:2:1544:U:O4'	2.12	0.49
1:2:29:U:H2'	1:2:30:G:H8	1.77	0.49
56:N0:68:HIS:O	56:N0:73:LYS:NZ	2.45	0.49
1:2:1597:A:OP1	31:D9:19:ARG:NH2	2.45	0.49
1:2:1519:U:H2'	1:2:1520:U:C5	2.48	0.49
15:C3:66:ILE:HG13	15:C3:67:THR:HG23	1.95	0.49
1:2:1339:C:O2'	1:2:1340:U:OP1	2.31	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:63:GLY:HA3	34:SR:90:ARG:NH1	2.27	0.49
67:O1:88:PRO:O	67:O1:89:LEU:HD12	2.55	0.49
46:L9:144:ILE:HD13	46:L9:161:LEU:HD11	1.95	0.49
63:N7:54:THR:HG22	63:N7:57:HIS:CD2	4.04	0.49
1:6:104:A:N6	1:6:308:C:H5'	2.23	0.49
55:M9:101:VAL:HG13	55:M9:104:ARG:HH22	1.78	0.49
58:N2:103:TYR:OH	36:5:1677:G:OP2	147.58	0.49
1:2:1474:G:P	7:S5:109:LYS:HE2	2.52	0.49
50:M4:23:ILE:HD13	50:M4:63:VAL:HG23	1.94	0.49
36:1:872:U:H2'	36:1:873:C:C6	2.47	0.49
52:M6:85:ARG:HD3	52:M6:90:HIS:ND1	2.63	0.49
1:2:487:G:H3'	1:2:488:G:H5''	1.93	0.49
1:2:1785:U:H2'	1:2:1786:G:H8	1.77	0.49
36:5:2546:C:H2'	36:5:2547:A:C8	2.47	0.49
36:1:439:C:H3'	36:1:440:A:H8	1.77	0.49
49:M3:59:ARG:HG2	36:5:73:C:O2'	95.09	0.49
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.45	0.49
36:5:2890:A:N1	36:5:2913:C:N3	2.60	0.49
33:E1:126:CYS:O	33:E1:128:ALA:N	2.45	0.49
36:5:1464:G:N2	36:5:1466:G:H3'	2.28	0.49
36:5:374:A:N3	36:5:376:G:H5''	2.27	0.49
48:M1:60:ARG:O	48:M1:63:GLU:HB2	2.12	0.49
40:L3:210:GLU:O	40:L3:213:GLU:HB2	2.16	0.49
36:1:1355:A:H4'	36:1:1356:U:O5'	2.11	0.49
56:N0:117:ARG:O	56:N0:121:ILE:HD12	2.93	0.49
36:5:1214:U:H2'	36:5:1215:U:C6	2.48	0.49
64:N8:16:SER:HA	36:5:942:U:N3	169.58	0.49
36:1:561:C:OP1	50:M4:77:ARG:HG3	2.12	0.49
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.95	0.49
3:S1:70:LEU:O	3:S1:74:GLN:N	2.33	0.49
1:2:1480:G:H3'	1:2:1481:C:H6	1.78	0.49
21:C9:79:LEU:HD23	21:C9:80:TYR:CZ	3.39	0.49
36:5:3049:A:H8	36:5:3049:A:H5'	1.78	0.49
2:S0:52:LYS:HD3	23:D1:82:VAL:HA	2.30	0.49
61:N5:67:ILE:HD13	61:N5:115:ARG:NH2	2.27	0.49
7:S5:64:VAL:CG1	7:S5:89:ILE:HD11	4.08	0.49
27:D5:92:ILE:HG23	27:D5:100:ILE:HG22	1.94	0.49
40:L3:227:GLU:HG3	40:L3:270:ARG:CD	4.71	0.49
46:L9:79:ILE:O	46:L9:83:THR:HG23	2.55	0.49
7:S5:57:SER:HB2	30:D8:53:ILE:HB	2.74	0.49
71:O5:68:GLN:HA	71:O5:71:LYS:HB2	1.94	0.49
27:D5:71:ILE:CG2	27:D5:76:ALA:HB2	4.58	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:788:A:C4	6:S4:19:LEU:HD13	2.48	0.49
36:1:1495:U:C5	36:1:1835:A:N1	2.76	0.49
9:S7:113:PRO:HG2	9:S7:116:ARG:HD2	1.94	0.49
48:M1:7:ASN:HA	48:M1:10:ARG:HD2	3.06	0.49
54:M8:64:VAL:O	54:M8:96:PHE:HE2	1.95	0.49
40:L3:169:THR:HG23	40:L3:171:LEU:HG	2.53	0.49
26:D4:90:ARG:O	26:D4:93:ARG:HB2	2.53	0.49
1:2:1347:U:C2	1:2:1517:U:C5	3.01	0.49
44:L7:118:LYS:HG3	44:L7:191:VAL:HG11	1.95	0.49
63:N7:128:GLN:O	63:N7:130:PHE:N	3.51	0.49
36:1:501:A:H2'	36:1:502:U:H6	1.76	0.49
44:L7:173:LEU:HD21	44:L7:198:ALA:HA	1.94	0.49
36:1:1493:G:C6	75:O9:2:ALA:HB2	2.46	0.49
71:O5:44:ILE:O	71:O5:47:VAL:HG13	2.12	0.49
36:5:3016:A:H2'	36:5:3017:A:H8	1.77	0.49
36:5:1020:G:H2'	36:5:1021:G:O4'	2.13	0.49
35:SM:46:LYS:HA	36:5:1018:G:H4'	325.13	0.49
40:L3:73:VAL:CG2	59:N3:90:GLY:HA3	2.42	0.49
5:S3:18:TYR:HE1	5:S3:37:VAL:HG23	1.78	0.49
34:SR:156:VAL:HA	34:SR:169:ILE:HG22	2.19	0.49
53:M7:57:ALA:HB2	53:M7:83:TRP:CE2	2.61	0.49
36:5:2187:G:OP2	88:5:3975:OHX:N4	2.45	0.49
36:5:2911:A:H4'	36:5:2912:G:C8	2.47	0.49
53:M7:70:THR:HG21	53:M7:81:ALA:HB3	2.41	0.49
36:1:95:A:C5	36:1:96:G:H1'	2.48	0.49
1:2:1764:C:H3'	1:2:1767:G:N7	2.27	0.49
55:M9:77:GLY:HA3	36:5:1939:G:OP1	219.08	0.49
36:5:3269:U:O2	36:5:3271:G:N1	2.46	0.49
36:5:430:U:OP2	88:5:3986:OHX:N5	2.45	0.49
1:6:1734:U:H2'	1:6:1735:U:H6	1.78	0.49
4:S2:116:LYS:NZ	4:S2:117:THR:O	4.51	0.49
8:S6:24:ILE:O	8:S6:26:VAL:N	2.74	0.49
1:2:348:U:OP1	13:C1:85:VAL:HG11	2.13	0.49
1:2:138:A:N6	1:2:266:A:H61	2.11	0.49
36:1:1270:A:N6	36:1:1271:A:N3	2.60	0.49
36:5:3377:G:O6	88:5:4091:OHX:N2	2.45	0.49
23:D1:38:LYS:HE3	23:D1:51:VAL:HG23	1.93	0.49
17:C5:43:ARG:HD3	1:6:1553:G:O6	397.07	0.49
3:S1:67:GLU:CD	3:S1:83:LYS:HE2	4.00	0.49
1:2:1316:G:O2'	1:2:1401:A:O2'	2.20	0.49
42:L5:265:TYR:O	42:L5:269:SER:HB3	3.85	0.49
40:L3:77:THR:HG23	40:L3:327:CYS:HA	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:4:71:A:O2'	62:N6:52:ARG:NH2	2.45	0.49
28:D6:38:ARG:NH2	28:D6:83:ILE:HG21	2.28	0.49
73:O7:65:ARG:HG3	73:O7:65:ARG:NH1	2.22	0.49
36:1:1097:G:H4'	36:1:1098:A:O5'	2.12	0.49
1:2:793:A:H5''	1:2:794:U:C6	2.48	0.49
1:6:918:U:H2'	1:6:919:A:H8	1.76	0.49
1:2:186:C:OP1	10:S8:146:ARG:NH2	2.43	0.49
36:5:420:G:O5'	36:5:420:G:OP2	2.29	0.49
46:L9:91:ARG:HD2	46:L9:143:GLU:HG3	1.94	0.49
40:L3:224:HIS:HB2	40:L3:270:ARG:O	2.50	0.49
34:SR:50:ASP:HB3	34:SR:53:LYS:HG3	1.93	0.49
20:C8:57:ARG:NH1	1:6:1534:G:OP2	343.37	0.49
2:S0:126:PRO:CG	2:S0:151:SER:HB2	3.99	0.49
7:S5:156:ARG:HA	7:S5:157:ARG:NH2	4.25	0.49
35:SM:68:ARG:HD3	1:6:1460:A:P	336.17	0.49
36:1:1553:U:H4'	36:1:1554:U:H5'	1.95	0.49
36:5:2946:A:H5''	36:5:2947:G:H5'	1.94	0.49
42:L5:160:PHE:O	42:L5:180:PHE:HE1	1.96	0.49
64:N8:104:THR:OG1	64:N8:127:ALA:HB2	2.70	0.49
41:L4:209:TYR:CZ	41:L4:229:ASN:HB2	2.48	0.49
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.95	0.49
36:5:501:A:H2'	36:5:502:U:C6	2.47	0.49
1:6:1648:A:H2'	1:6:1649:G:C8	2.47	0.49
34:SR:241:PHE:O	34:SR:255:ALA:HB3	2.12	0.49
1:2:639:U:OP1	9:S7:118:LEU:N	2.45	0.49
42:L5:119:TYR:CZ	42:L5:135:VAL:HG12	2.46	0.49
78:Q2:35:LEU:H	78:Q2:35:LEU:HD23	1.77	0.49
36:1:3322:A:H2'	36:1:3323:A:C8	2.47	0.49
43:L6:131:LYS:HB2	43:L6:134:ARG:HG2	6.25	0.49
36:1:217:U:H4'	62:N6:100:HIS:CD2	2.47	0.49
36:1:2707:C:H2'	36:1:2708:C:H6	1.77	0.49
1:6:1535:U:O2'	1:6:1536:G:O5'	2.31	0.49
36:1:1069:C:H2'	36:1:1070:U:H6	1.78	0.49
36:1:660:A:H5''	41:L4:100:PHE:CD1	2.48	0.49
37:3:23:A:H2'	37:3:24:A:C8	2.47	0.49
36:1:1639:C:N4	70:O4:73:SER:HB2	2.28	0.49
28:D6:57:SER:OG	28:D6:58:VAL:O	4.90	0.49
10:S8:175:GLN:NE2	1:6:332:U:OP2	286.07	0.49
36:1:3343:G:N2	36:1:3362:A:H2	2.08	0.49
61:N5:67:ILE:HB	61:N5:83:VAL:HG12	2.49	0.49
1:2:959:U:H6	15:C3:61:THR:HB	1.76	0.49
52:M6:68:ARG:HH12	36:5:2988:C:P	215.50	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1255:G:O6	14:C2:46:ARG:HD3	2.12	0.49
36:5:408:A:N6	38:8:15:G:H1'	2.28	0.49
63:N7:95:VAL:O	63:N7:100:THR:HG21	2.58	0.49
17:C5:34:VAL:HG21	17:C5:45:PHE:CB	2.42	0.49
2:S0:119:ARG:NE	4:S2:240:LEU:HD23	3.93	0.49
4:S2:241:ASP:HA	4:S2:244:SER:HB3	3.34	0.49
36:1:612:U:OP1	43:L6:21:THR:HB	2.13	0.49
35:SM:120:GLU:O	35:SM:122:GLU:N	3.73	0.49
27:D5:44:GLN:HA	27:D5:47:TYR:HB3	2.62	0.49
1:6:187:G:H8	1:6:187:G:O5'	1.95	0.49
33:E1:135:HIS:HB3	1:6:1250:U:O2'	432.28	0.49
49:M3:157:ARG:NH1	64:N8:146:GLU:OE2	3.66	0.49
1:6:542:A:H1'	1:6:543:C:OP1	2.13	0.49
1:2:396:G:N2	1:2:398:G:H3'	2.28	0.49
1:6:282:C:H2'	1:6:283:U:O4'	2.12	0.49
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.28	0.49
45:L8:195:SER:O	45:L8:195:SER:OG	2.28	0.49
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.33	0.49
36:5:3299:A:H61	36:5:3315:G:H1	1.61	0.49
1:2:1149:G:H5''	1:2:1150:G:OP1	2.12	0.49
6:S4:75:LYS:HD3	6:S4:77:ARG:NH2	2.72	0.49
18:C6:14:LYS:HE2	1:6:1584:G:N7	395.65	0.49
36:5:2319:U:O4	88:5:3999:OHX:N2	2.46	0.49
2:S0:195:TRP:NE1	2:S0:197:ILE:HD13	2.54	0.49
15:C3:25:TRP:HA	15:C3:27:LYS:HE2	5.93	0.49
79:Q3:84:ARG:NH2	79:Q3:88:GLU:OE2	2.46	0.49
12:C0:7:ASP:O	12:C0:11:ILE:HG13	2.13	0.49
1:6:1595:U:N3	1:6:1600:A:C2	2.81	0.49
79:Q3:30:GLU:HA	79:Q3:33:GLN:HG2	1.95	0.49
72:O6:40:VAL:O	72:O6:44:VAL:HG23	2.13	0.49
10:S8:122:GLY:O	88:S8:302:OHX:N5	2.45	0.49
36:1:792:G:H2'	36:1:793:C:C6	2.47	0.49
36:5:1366:A:C2	36:5:1367:G:C4	3.01	0.49
36:1:1367:G:OP1	68:O2:45:ARG:NH2	2.45	0.49
1:6:1477:G:H2'	1:6:1478:G:C8	2.48	0.49
6:S4:211:LYS:HA	6:S4:216:ASN:O	2.13	0.49
1:6:485:A:C5	1:6:486:G:H1'	2.48	0.49
3:S1:180:THR:HG22	3:S1:181:LEU:N	2.28	0.49
37:7:55:A:H2'	37:7:56:A:O4'	2.13	0.49
47:M0:72:ALA:HB2	47:M0:155:ALA:HB2	2.27	0.49
47:M0:77:THR:HG23	47:M0:85:PHE:CZ	2.71	0.49
36:1:677:A:N7	36:1:785:G:O2'	2.38	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:M1:90:GLN:NE2	48:M1:170:ASP:OD1	3.62	0.49
1:2:793:A:H5''	1:2:794:U:C5	2.48	0.49
44:L7:151:ARG:NH1	44:L7:244:ASN:O	2.75	0.49
72:O6:81:THR:HA	72:O6:84:LYS:HE3	5.22	0.49
11:S9:92:LYS:HB2	11:S9:95:TYR:CD2	8.04	0.49
36:1:1214:U:H2'	36:1:1215:U:C6	2.48	0.49
63:N7:53:VAL:HA	63:N7:57:HIS:HD2	2.51	0.49
30:D8:11:LYS:HB3	30:D8:33:LEU:HD23	2.58	0.49
30:D8:50:GLU:O	30:D8:51:ASN:HB2	2.13	0.49
11:S9:167:ALA:O	11:S9:168:ARG:HB2	2.13	0.49
70:O4:31:ARG:HG2	70:O4:31:ARG:HH11	1.77	0.49
36:1:634:C:H5'	69:O3:21:ARG:O	2.12	0.49
1:6:250:C:H5'	1:6:250:C:C6	2.48	0.49
16:C4:24:ASN:O	16:C4:25:ASP:HB2	2.13	0.49
42:L5:155:THR:HB	42:L5:179:ARG:HD3	1.95	0.49
68:O2:24:ARG:HG2	68:O2:25:TYR:CE2	2.91	0.49
37:7:91:G:H2'	37:7:92:A:H8	1.78	0.49
36:1:2404:A:N3	36:1:2404:A:H2'	2.28	0.49
36:1:507:U:H2'	36:1:508:U:C6	2.48	0.49
50:M4:32:LEU:HD11	50:M4:94:TRP:CD1	2.48	0.49
43:L6:96:VAL:HG12	43:L6:98:VAL:HG23	1.94	0.49
36:1:1546:A:N7	51:M5:71:ARG:NH1	2.60	0.49
36:1:114:A:OP1	51:M5:54:LYS:NZ	2.46	0.49
36:1:729:C:OP1	54:M8:43:PRO:HD2	2.12	0.49
1:2:1071:U:H2'	1:2:1072:C:C6	2.48	0.49
33:E1:109:ASP:HB2	33:E1:113:LYS:HE2	1.95	0.49
39:L2:183:GLY:O	39:L2:186:PHE:HB3	2.27	0.49
9:S7:109:VAL:HG13	9:S7:110:GLN:HB2	6.16	0.49
36:1:1033:U:H2'	36:1:1034:U:C6	2.48	0.49
36:5:624:G:H2'	36:5:625:G:H8	1.77	0.49
5:S3:12:VAL:O	5:S3:16:VAL:HG23	2.46	0.49
36:5:715:A:H4'	36:5:716:A:OP1	2.13	0.49
36:1:242:C:HO2'	36:1:243:G:H8	1.60	0.49
1:6:30:G:H2'	1:6:31:C:C6	2.48	0.49
14:C2:31:VAL:O	14:C2:34:THR:OG1	2.28	0.49
1:6:867:G:O6	88:6:2055:OHX:N1	2.46	0.49
1:2:823:G:HO2'	1:2:824:G:P	2.35	0.49
3:S1:120:LEU:HG	3:S1:142:PHE:CE1	2.49	0.48
9:S7:154:LEU:HD21	9:S7:183:PHE:HD1	1.78	0.48
28:D6:6:ALA:N	1:6:1796:C:C5	344.88	0.48
41:L4:178:LEU:O	41:L4:182:LEU:HD23	3.56	0.48
1:2:702:G:N2	1:2:703:G:H1'	2.28	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:C3:67:THR:C	15:C3:69:ASN:H	2.15	0.48
36:1:1334:U:H1'	44:L7:208:SER:HB2	1.95	0.48
42:L5:279:LYS:HG2	42:L5:282:ARG:CZ	2.43	0.48
59:N3:48:ARG:NH2	36:5:3043:C:P	251.28	0.48
62:N6:112:ASP:H	62:N6:115:ARG:HB2	1.78	0.48
48:M1:65:ILE:HG22	48:M1:66:ALA:HB2	2.93	0.48
74:O8:11:PHE:O	74:O8:15:THR:HG23	2.34	0.48
36:1:2513:U:H2'	36:1:2592:G:H1	1.78	0.48
1:6:538:A:H2	1:6:540:G:H22	1.61	0.48
49:M3:52:ASP:N	49:M3:52:ASP:OD1	2.45	0.48
1:6:587:C:H2'	1:6:588:U:O4'	2.13	0.48
19:C7:28:PHE:CZ	19:C7:48:ASN:HB3	2.48	0.48
1:2:1389:C:O2'	19:C7:52:GLY:HA3	2.12	0.48
47:M0:162:GLN:HE22	56:N0:85:SER:HB2	1.78	0.48
36:1:147:U:O4	45:L8:157:VAL:HA	2.12	0.48
62:N6:14:LYS:HE3	36:5:335:G:OP2	76.87	0.48
36:5:501:A:H2'	36:5:502:U:H6	1.78	0.48
36:1:2767:U:O2'	78:Q2:30:ALA:O	2.31	0.48
36:1:2582:C:H2'	36:1:2583:C:C6	2.47	0.48
36:1:3151:U:OP1	40:L3:132:LYS:NZ	2.45	0.48
48:M1:85:LYS:HE3	48:M1:85:LYS:HB2	1.69	0.48
52:M6:167:TYR:OH	52:M6:171:LYS:HE3	2.13	0.48
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.45	0.48
15:C3:54:LEU:HB3	15:C3:60:VAL:HG13	4.13	0.48
1:2:1019:A:OP2	15:C3:107:LYS:HE3	2.12	0.48
52:M6:89:SER:O	52:M6:91:LYS:N	2.46	0.48
17:C5:92:SER:HB2	17:C5:107:ILE:HD11	4.76	0.48
36:1:2808:A:H4'	36:1:2809:C:O5'	2.13	0.48
36:5:2882:U:H2'	36:5:2883:U:O4'	2.13	0.48
36:1:789:A:H2'	36:1:790:U:C6	2.48	0.48
36:1:2551:U:O4	39:L2:95:SER:HB3	2.12	0.48
1:6:38:C:C2'	1:6:39:A:H5'	2.43	0.48
44:L7:24:GLU:O	44:L7:26:VAL:N	2.37	0.48
1:2:206:A:H1'	1:2:262:U:C2	2.48	0.48
1:2:1618:C:O2'	88:2:2166:OHX:N3	2.46	0.48
62:N6:25:SER:OG	38:8:91:C:O2'	46.88	0.48
1:6:300:A:C2'	1:6:301:A:H5'	2.43	0.48
40:L3:315:GLY:HA2	36:5:3379:C:H4'	214.56	0.48
1:2:448:C:OP2	6:S4:49:ARG:NH2	2.42	0.48
44:L7:160:ARG:HD2	44:L7:203:TRP:NE1	2.28	0.48
70:O4:99:LYS:C	70:O4:103:LYS:HZ2	2.17	0.48
12:C0:14:TYR:CE2	12:C0:21:VAL:HG22	2.48	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:990:C:H2'	1:2:991:G:O4'	2.13	0.48
1:6:151:G:N2	1:6:163:G:N2	2.61	0.48
1:2:649:U:O2'	1:2:650:U:H6	1.96	0.48
27:D5:65:LEU:HD22	27:D5:71:ILE:HD11	1.95	0.48
5:S3:59:LEU:HG	5:S3:63:GLY:HA2	1.95	0.48
36:1:715:A:H4'	36:1:716:A:OP1	2.13	0.48
45:L8:75:ILE:O	45:L8:77:GLN:N	2.46	0.48
1:2:929:A:C8	16:C4:123:SER:HA	2.48	0.48
1:6:1557:U:O2'	1:6:1558:U:H2'	2.13	0.48
1:2:45:U:O2	1:2:434:G:H1'	2.13	0.48
36:1:398:A:C8	53:M7:3:ARG:NH2	2.81	0.48
44:L7:219:LYS:O	44:L7:228:SER:HB2	2.90	0.48
55:M9:17:VAL:HG21	55:M9:21:LYS:HB2	4.48	0.48
41:L4:16:THR:HG22	41:L4:18:ASN:N	2.28	0.48
36:1:1795:U:OP1	39:L2:191:LEU:HD22	2.14	0.48
72:O6:76:ARG:HA	72:O6:76:ARG:HE	1.77	0.48
36:1:2376:G:C6	36:1:2377:G:O6	2.66	0.48
78:Q2:35:LEU:HA	78:Q2:40:LYS:HG2	1.95	0.48
1:6:1477:G:H2'	1:6:1478:G:H8	1.78	0.48
36:5:979:U:H1'	36:5:980:A:C4	2.47	0.48
36:5:2705:A:OP2	88:5:3901:OHX:N2	2.46	0.48
40:L3:167:ARG:O	88:L3:404:OHX:N5	24.29	0.48
72:O6:34:SER:OG	72:O6:37:THR:HG23	2.58	0.48
36:1:3140:G:OP1	40:L3:20:LYS:NZ	2.46	0.48
1:6:5:U:H2'	1:6:6:G:H8	1.77	0.48
69:O3:38:PRO:HD3	69:O3:77:ASN:O	2.51	0.48
36:1:764:U:O4	88:1:3972:OHX:N5	2.46	0.48
21:C9:10:ALA:HB3	21:C9:13:ASP:OD2	2.12	0.48
47:M0:54:SER:HB2	47:M0:135:ILE:HD11	1.95	0.48
17:C5:108:ARG:HH21	20:C8:119:ILE:HD12	3.24	0.48
1:2:89:G:C6	1:2:90:C:C4	3.01	0.48
67:O1:25:PHE:HB3	67:O1:65:LYS:HG2	3.94	0.48
1:2:602:U:H2'	1:2:603:U:C6	2.47	0.48
23:D1:85:TYR:CD1	29:D7:6:ASP:HB2	2.67	0.48
36:1:351:A:N6	75:O9:37:TYR:O	2.46	0.48
49:M3:105:ASN:OD1	49:M3:107:GLU:HG2	2.13	0.48
1:6:1005:A:C5	1:6:1006:C:C4	3.01	0.48
1:6:1759:C:H2'	1:6:1760:G:O4'	2.12	0.48
64:N8:3:SER:O	64:N8:6:THR:HB	4.01	0.48
10:S8:57:ALA:HB1	10:S8:60:ILE:HD11	1.95	0.48
3:S1:129:THR:HG22	3:S1:135:LEU:HD12	6.37	0.48
18:C6:34:SER:HB3	18:C6:35:PRO:HD2	1.93	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:L7:150:LYS:HD3	44:L7:244:ASN:HD21	1.77	0.48
42:L5:58:LYS:HD2	42:L5:93:THR:OG1	2.14	0.48
1:2:197:A:N6	10:S8:141:ARG:HH12	2.11	0.48
44:L7:90:LYS:HB2	44:L7:220:PHE:HE1	2.54	0.48
49:M3:54:LEU:HD12	49:M3:75:PHE:CE2	2.49	0.48
1:2:686:C:H2'	1:2:687:G:O4'	2.13	0.48
36:1:1048:A:H2'	47:M0:22:TYR:CZ	2.49	0.48
51:M5:96:ARG:HG2	51:M5:96:ARG:HH11	1.88	0.48
56:N0:50:LYS:NZ	37:7:76:A:O2'	302.48	0.48
7:S5:106:LYS:HB3	7:S5:109:LYS:HG3	1.95	0.48
1:2:1450:U:H2'	1:2:1451:C:H6	1.78	0.48
48:M1:10:ARG:HA	48:M1:134:PRO:HD2	3.25	0.48
20:C8:26:ILE:HG12	20:C8:31:ALA:HB2	2.41	0.48
39:L2:46:LYS:O	39:L2:47:GLN:HB2	2.13	0.48
14:C2:42:ALA:HB2	14:C2:124:LYS:HD2	2.73	0.48
36:1:1589:A:OP1	70:O4:11:ASN:HB2	2.14	0.48
45:L8:42:PRO:HD2	45:L8:44:ARG:NH1	2.29	0.48
88:5:4023:OHX:N6	88:5:4222:OHX:N4	2.62	0.48
36:1:1804:A:H2'	36:1:1805:C:H6	1.79	0.48
26:D4:62:THR:HA	26:D4:69:SER:HA	1.95	0.48
36:1:3321:C:H2'	36:1:3322:A:C8	2.48	0.48
1:2:1660:A:H2'	1:2:1661:U:C6	2.48	0.48
1:2:110:U:O2'	1:2:797:G:H1'	2.12	0.48
36:1:3200:G:O6	88:1:4141:OHX:N4	2.47	0.48
1:2:1231:U:H4'	1:2:1258:U:H6	1.78	0.48
36:1:1615:C:H2'	36:1:1616:U:C6	2.47	0.48
1:6:454:U:P	1:6:455:C:H41	2.35	0.48
13:C1:44:THR:HB	13:C1:60:PHE:CD1	2.48	0.48
1:2:241:U:H5'	1:2:242:U:OP2	2.13	0.48
36:1:265:A:O3'	51:M5:5:LYS:NZ	2.46	0.48
57:N1:68:THR:HG22	57:N1:71:SER:O	4.46	0.48
68:O2:104:ASN:O	68:O2:108:ILE:HG13	2.13	0.48
43:L6:60:ASP:O	43:L6:61:ASN:HB2	2.13	0.48
36:1:1477:A:OP1	36:1:3075:G:O2'	2.30	0.48
51:M5:66:VAL:HG11	51:M5:101:THR:HG22	2.23	0.48
59:N3:75:PRO:HG2	59:N3:105:PRO:HD3	1.94	0.48
60:N4:63:ILE:O	60:N4:65:GLU:N	2.68	0.48
28:D6:74:CYS:SG	28:D6:77:CYS:HB2	2.53	0.48
44:L7:158:LYS:HD2	44:L7:159:GLN:N	4.88	0.48
16:C4:106:ALA:HA	16:C4:112:ILE:HD11	2.36	0.48
3:S1:71:ALA:HB3	16:C4:114:ARG:HH12	2.65	0.48
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.43	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:C7:61:ILE:HD11	19:C7:69:ILE:HG13	1.94	0.48
47:M0:36:LEU:HD12	47:M0:87:LEU:HB3	2.30	0.48
1:2:190:C:O2'	1:2:191:C:H5'	2.13	0.48
49:M3:91:ARG:CZ	49:M3:97:VAL:HB	2.69	0.48
1:6:151:G:N2	1:6:163:G:H22	2.10	0.48
46:L9:27:VAL:HG11	46:L9:79:ILE:HA	1.95	0.48
36:5:916:G:H4'	36:5:917:A:O5'	2.12	0.48
1:2:301:A:H2'	1:2:302:U:O4'	2.13	0.48
8:S6:2:LYS:HE2	8:S6:17:GLU:OE2	5.07	0.48
34:SR:178:VAL:HG13	34:SR:202:LEU:HD12	1.96	0.48
36:1:2355:G:H4'	53:M7:139:TYR:CZ	2.48	0.48
14:C2:81:ASP:HA	14:C2:82:PRO:HD3	1.60	0.48
24:D2:41:MET:HG2	24:D2:129:VAL:HG11	2.34	0.48
40:L3:122:TRP:CZ2	40:L3:127:LYS:HD2	4.36	0.48
1:2:4:C:OP2	4:S2:200:SER:OG	2.31	0.48
36:1:1599:G:H2'	36:1:1600:U:H6	1.78	0.48
7:S5:222:LYS:HE3	7:S5:225:ARG:HH12	1.78	0.48
69:O3:75:HIS:HB3	69:O3:80:VAL:HG13	1.94	0.48
1:2:1584:G:H5''	18:C6:122:ARG:HG2	1.94	0.48
36:1:551:A:C4	36:1:552:G:C8	3.01	0.48
1:6:1600:A:H4'	1:6:1601:G:OP1	2.14	0.48
1:2:480:G:H22	1:2:509:G:H1'	1.79	0.48
24:D2:114:GLU:O	24:D2:118:ARG:HG3	2.13	0.48
1:2:1164:G:O2'	1:2:1612:U:O2	2.30	0.48
1:2:818:C:N4	1:2:819:G:O6	2.38	0.48
1:2:811:A:C2	1:2:858:G:H1'	2.48	0.48
36:5:2105:G:H2'	36:5:2106:A:H8	1.77	0.48
88:5:4111:OHX:N5	38:8:139:U:O4	2.46	0.48
47:M0:114:GLY:HA2	36:5:2864:A:H5''	242.60	0.48
36:1:1895:A:O2'	36:1:3053:G:H4'	2.12	0.48
1:6:546:U:H2'	1:6:547:U:C6	2.49	0.48
77:Q1:13:LEU:HD11	77:Q1:17:ARG:CZ	2.43	0.48
78:Q2:38:GLN:NE2	78:Q2:38:GLN:O	2.62	0.48
36:5:1137:C:H2'	36:5:1138:U:O4'	2.14	0.48
31:D9:19:ARG:HH22	1:6:1597:A:P	406.98	0.48
1:2:1102:G:P	24:D2:76:SER:HB2	2.54	0.48
13:C1:98:ASN:ND2	13:C1:98:ASN:O	2.46	0.48
2:S0:90:ALA:HB1	2:S0:95:ALA:O	3.82	0.48
56:N0:155:ARG:HD3	56:N0:172:TYR:CD2	2.55	0.48
18:C6:82:ARG:HH12	18:C6:114:ARG:HB2	3.85	0.48
36:5:1064:A:H4'	36:5:1065:A:O5'	2.13	0.48
36:1:283:G:O6	36:1:304:G:H1'	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D3:103:LEU:HB3	25:D3:126:LYS:HB2	1.96	0.48
36:5:1650:G:N7	88:5:4186:OHX:N3	2.62	0.48
79:Q3:8:VAL:O	79:Q3:11:THR:HB	2.13	0.48
20:C8:18:LEU:HD21	20:C8:101:LEU:HD13	1.94	0.48
2:S0:185:ARG:HA	23:D1:44:ARG:HA	1.95	0.48
54:M8:151:ARG:NH1	36:5:781:G:OP1	159.55	0.48
1:6:620:A:H5'	1:6:620:A:C8	2.44	0.48
53:M7:26:PHE:CE1	53:M7:120:ASN:HA	2.49	0.48
36:1:1555:U:O2'	36:1:2169:G:N2	2.45	0.48
43:L6:3:ALA:HB1	68:O2:75:LEU:HD13	2.46	0.48
4:S2:149:GLY:H	23:D1:4:ASP:HB2	4.44	0.48
48:M1:34:SER:HB2	48:M1:67:VAL:HG21	3.00	0.48
36:1:42:C:H5''	36:1:2612:U:OP1	2.14	0.48
38:4:9:A:H2'	38:4:10:A:C8	2.48	0.48
35:SM:37:VAL:HG12	35:SM:38:PRO:O	2.90	0.48
49:M3:123:ILE:HG22	71:O5:118:ILE:HG12	2.68	0.48
36:1:73:C:N3	49:M3:59:ARG:NH1	2.61	0.48
36:1:849:C:H2'	36:1:850:U:C6	2.48	0.48
36:1:2403:G:H21	36:1:2404:A:H62	1.62	0.48
41:L4:34:ILE:HD12	41:L4:120:TYR:CE1	2.78	0.48
4:S2:78:ASP:OD2	4:S2:79:GLU:N	2.38	0.48
1:6:517:U:H3	1:6:535:A:H61	1.62	0.48
1:6:686:C:H2'	1:6:687:G:C8	2.49	0.48
26:D4:61:ARG:NH2	1:6:530:C:O2	408.65	0.48
44:L7:70:LYS:NZ	36:5:519:A:O5'	316.95	0.48
15:C3:54:LEU:HB3	15:C3:60:VAL:CG1	3.29	0.48
1:2:603:U:H2'	1:2:604:A:H8	1.78	0.48
12:C0:52:LYS:HE2	1:6:1220:C:H4'	443.83	0.48
1:2:1076:A:O5'	28:D6:13:LYS:HB3	2.13	0.48
1:6:509:G:H2'	1:6:510:G:O4'	2.14	0.48
18:C6:55:VAL:HG21	18:C6:105:LEU:HG	1.96	0.48
13:C1:59:PRO:HB3	13:C1:66:ILE:HD11	1.95	0.48
36:5:3141:A:C2	36:5:3144:G:H1'	2.49	0.48
1:2:833:U:OP2	88:2:2141:OHX:N4	2.47	0.48
1:2:987:G:C2	39:L2:249:SER:HB2	2.49	0.48
31:D9:6:VAL:O	31:D9:8:PHE:N	4.40	0.48
1:6:213:A:OP2	88:6:2146:OHX:N1	2.46	0.48
21:C9:127:ASN:OD1	21:C9:130:ARG:NH1	7.81	0.48
63:N7:10:VAL:HB	63:N7:83:THR:HG21	1.96	0.48
41:L4:20:LEU:HD22	41:L4:256:THR:HG22	3.30	0.48
22:D0:58:LEU:HD11	22:D0:88:LYS:HD2	1.94	0.48
14:C2:66:VAL:HB	14:C2:67:THR:H	1.34	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:D0:70:THR:OG1	22:D0:72:ASN:OD1	2.30	0.48
66:O0:41:LEU:HD22	66:O0:42:ILE:N	2.27	0.48
9:S7:132:PRO:O	9:S7:133:THR:OG1	4.72	0.48
18:C6:114:ARG:O	18:C6:115:THR:OG1	2.28	0.48
36:1:1063:G:C6	36:1:1097:G:C5	3.01	0.48
25:D3:63:GLN:HA	25:D3:65:ASN:N	2.29	0.48
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.14	0.48
41:L4:316:ASN:ND2	44:L7:150:LYS:HG3	2.28	0.48
51:M5:143:ARG:HH21	71:O5:92:LEU:HD23	1.78	0.48
1:2:896:U:C1'	16:C4:38:THR:HG21	2.43	0.48
1:2:196:G:O2'	1:2:197:A:P	2.71	0.48
22:D0:20:ILE:HD12	22:D0:100:VAL:HG21	4.22	0.48
53:M7:34:GLN:C	53:M7:36:ILE:H	2.16	0.48
1:2:1175:U:H2'	1:2:1176:G:H8	1.78	0.48
24:D2:66:ASN:OD1	24:D2:68:ARG:HG2	2.76	0.48
5:S3:61:GLU:O	5:S3:63:GLY:N	2.47	0.48
1:2:499:U:O2'	1:2:500:C:P	2.71	0.48
36:1:1936:A:H2'	36:1:1937:U:O4'	2.13	0.48
14:C2:60:VAL:HG22	14:C2:122:VAL:HG22	2.35	0.48
36:1:501:A:H5''	43:L6:28:GLN:HE21	1.79	0.48
36:5:1018:G:C2	36:5:1019:G:H1'	2.49	0.48
1:2:1178:G:H5'	1:2:1190:C:H42	1.78	0.48
36:5:279:U:H2'	36:5:280:U:C6	2.48	0.48
36:1:128:G:H2'	36:1:129:U:O4'	2.13	0.48
13:C1:60:PHE:O	13:C1:62:GLY:N	4.31	0.48
76:Q0:113:ARG:NH1	36:5:1298:C:O3'	291.50	0.48
56:N0:27:MET:HE1	57:N1:153:PRO:HD3	1.95	0.48
1:2:200:A:H2'	1:2:201:G:C8	2.48	0.48
51:M5:140:LYS:HB3	51:M5:144:ARG:NH1	2.28	0.48
42:L5:257:GLU:C	42:L5:258:LYS:HD3	4.96	0.48
36:5:69:C:H2'	36:5:70:A:O4'	2.12	0.48
68:O2:16:LYS:O	68:O2:17:PHE:HB2	4.69	0.48
66:O0:43:ILE:HD12	66:O0:90:VAL:HB	2.40	0.48
41:L4:107:ARG:HG2	41:L4:108:LYS:N	2.29	0.48
1:2:958:U:OP2	29:D7:20:LYS:HE3	2.14	0.48
36:1:2830:G:H1'	36:1:2861:U:C2	2.48	0.48
36:5:770:G:N7	88:5:4100:OHX:N6	2.62	0.48
51:M5:103:GLU:OE1	51:M5:118:SER:OG	2.19	0.48
51:M5:85:THR:HG23	36:5:44:U:H5''	161.57	0.48
40:L3:323:MET:HE1	40:L3:356:LEU:HD11	2.13	0.48
2:S0:179:ARG:O	2:S0:183:ARG:HG3	2.13	0.48
1:2:740:A:C2'	1:2:741:C:H5''	2.39	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2718:U:H2'	36:1:2719:U:C6	2.48	0.48
13:C1:46:LYS:HA	13:C1:46:LYS:HD2	3.21	0.48
47:M0:208:ASN:O	47:M0:212:GLU:HB2	3.19	0.48
42:L5:152:ARG:NH1	42:L5:152:ARG:HG3	2.46	0.48
1:2:66:U:H5'	8:S6:173:PRO:HA	1.95	0.48
36:1:1245:A:C3'	36:1:1246:G:H5''	2.42	0.48
36:1:2674:A:C2	48:M1:124:GLY:HA3	2.49	0.48
1:6:1629:G:H5''	1:6:1794:A:OP2	2.14	0.48
62:N6:125:LYS:C	62:N6:126:LEU:HG	2.33	0.48
20:C8:139:LYS:O	20:C8:143:ARG:NH1	2.52	0.48
5:S3:72:LEU:HD22	12:C0:65:TYR:CD1	2.81	0.48
1:2:223:U:H2'	1:2:224:C:C6	2.48	0.48
36:1:2676:A:N1	48:M1:22:SER:OG	2.37	0.48
34:SR:79:TYR:HE1	34:SR:100:TYR:CE1	2.85	0.48
36:1:884:A:OP1	73:O7:5:THR:HG23	2.14	0.48
44:L7:136:TYR:CE2	44:L7:231:ASN:HB2	2.49	0.48
36:5:3340:G:H4'	36:5:3341:U:OP1	2.13	0.48
57:N1:12:ARG:HD2	57:N1:13:TYR:CE1	2.49	0.48
39:L2:21:ARG:HD3	36:5:824:C:H5''	170.32	0.48
45:L8:108:ARG:O	45:L8:112:GLU:N	3.13	0.48
50:M4:103:ILE:HG23	50:M4:106:ARG:HH21	3.78	0.48
36:1:1584:U:H2'	36:1:1585:C:H6	1.78	0.48
41:L4:98:ARG:CZ	41:L4:98:ARG:HB3	2.59	0.48
1:2:602:U:H2'	1:2:603:U:H6	1.79	0.48
13:C1:127:GLN:HG2	13:C1:128:CYS:H	1.78	0.48
69:O3:62:SER:OG	69:O3:63:LYS:N	2.61	0.48
36:5:2810:C:OP1	88:5:4082:OHX:N3	2.46	0.48
1:6:872:G:H2'	1:6:873:U:O4'	2.14	0.48
79:Q3:35:ALA:HB3	79:Q3:37:TYR:CE2	3.26	0.48
36:1:685:G:P	49:M3:35:ARG:HH11	2.36	0.48
1:2:139:C:O4'	1:2:141:U:H5''	2.13	0.48
6:S4:33:ALA:O	1:6:121:U:H1'	351.03	0.48
8:S6:21:GLU:O	8:S6:25:ARG:HB2	2.13	0.48
1:2:1080:U:O2'	1:2:1081:A:H5'	2.13	0.48
63:N7:60:LYS:HD2	63:N7:60:LYS:HA	1.72	0.48
8:S6:56:ASN:O	8:S6:107:ALA:N	2.82	0.48
56:N0:90:MET:CG	36:5:1213:G:H4'	318.27	0.48
3:S1:69:CYS:SG	16:C4:114:ARG:HD3	2.54	0.48
2:S0:64:ILE:HG12	2:S0:122:ILE:HD11	1.95	0.48
62:N6:51:ARG:HG3	62:N6:52:ARG:N	2.27	0.48
47:M0:5:PRO:HB2	47:M0:7:ARG:HB3	2.98	0.48
36:1:315:C:OP2	72:O6:28:TYR:OH	2.27	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:C3:119:GLU:HA	15:C3:122:ILE:HD12	1.96	0.48
39:L2:62:VAL:HG21	39:L2:71:LEU:HD23	1.96	0.48
22:D0:24:ILE:HG12	22:D0:116:VAL:HG12	3.96	0.48
41:L4:229:ASN:OD1	41:L4:231:ALA:N	2.84	0.48
1:2:488:G:OP1	1:2:488:G:H4'	2.13	0.48
40:L3:169:THR:HG23	40:L3:170:PRO:HD2	1.95	0.48
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.28	0.48
5:S3:135:GLU:HB3	5:S3:187:LYS:HB3	1.96	0.48
1:2:558:U:H2'	1:2:558:U:O2	2.13	0.48
36:5:127:G:H2'	36:5:128:G:C8	2.48	0.48
34:SR:225:LEU:O	34:SR:228:LYS:HG3	2.13	0.48
49:M3:144:THR:O	49:M3:146:PRO:HD3	3.29	0.48
36:1:73:C:O2	49:M3:59:ARG:HD3	2.13	0.48
1:2:1274:C:C5	35:SM:95:SER:HA	2.49	0.48
40:L3:46:PHE:CD1	40:L3:208:VAL:HG21	3.36	0.48
15:C3:27:LYS:H	15:C3:27:LYS:HE3	1.79	0.48
36:5:2103:U:H2'	36:5:2104:A:H8	1.79	0.48
68:O2:32:TRP:CZ2	68:O2:53:PRO:HD2	2.49	0.48
46:L9:26:LYS:HG3	46:L9:35:THR:HG22	2.12	0.48
67:O1:36:ILE:HG12	67:O1:73:LEU:HD11	3.09	0.48
38:4:70:G:O6	88:O7:103:OHX:N4	2.47	0.48
1:6:653:C:N4	1:6:677:G:H1	2.12	0.48
41:L4:61:SER:O	41:L4:61:SER:OG	2.31	0.48
36:5:507:U:H2'	36:5:508:U:C6	2.48	0.48
6:S4:136:VAL:HG12	6:S4:137:PRO:O	2.64	0.48
36:1:2419:A:H2'	36:1:2420:C:C6	2.48	0.48
43:L6:144:ALA:O	43:L6:147:ALA:HB3	2.36	0.48
36:1:1695:U:O2'	36:1:1749:A:N1	2.36	0.48
13:C1:4:GLU:OE1	13:C1:82:ARG:NH2	11.31	0.48
40:L3:194:TRP:O	40:L3:198:HIS:ND1	2.54	0.48
1:2:131:C:O2'	1:2:132:U:OP1	2.26	0.48
54:M8:44:PHE:CD2	54:M8:134:GLY:HA3	2.49	0.48
1:6:107:C:H1'	1:6:362:G:O2'	2.14	0.48
59:N3:19:VAL:HG13	59:N3:37:ILE:HA	2.19	0.48
36:5:3091:A:N3	36:5:3093:C:O2'	2.42	0.48
1:6:215:A:H5''	1:6:216:U:OP2	2.14	0.48
40:L3:37:ARG:HA	40:L3:186:GLY:HA2	2.92	0.48
50:M4:121:MET:HE1	36:5:3215:A:H5'	275.65	0.48
9:S7:133:THR:O	9:S7:134:GLU:HB2	2.14	0.48
1:2:912:U:H4'	1:2:913:G:H2'	1.95	0.48
1:2:1545:A:H2'	1:2:1546:G:H8	1.79	0.48
57:N1:105:PHE:CE2	36:5:1062:A:H4'	244.96	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:C9:66:TYR:HD1	21:C9:67:MET:HE3	1.79	0.48
15:C3:55:ARG:HD3	29:D7:47:PHE:CD1	2.49	0.48
34:SR:10:ARG:NH1	34:SR:51:ASP:OD1	6.09	0.48
7:S5:145:ASP:OD1	30:D8:45:LYS:HE2	5.06	0.48
55:M9:38:ARG:O	55:M9:41:ILE:HG22	2.14	0.48
26:D4:29:HIS:HB2	26:D4:67:GLY:HA2	5.79	0.48
26:D4:8:ARG:NH1	26:D4:26:ASP:OD1	2.47	0.48
2:S0:200:ASP:HA	2:S0:203:PHE:CZ	2.48	0.48
45:L8:67:ILE:HA	45:L8:67:ILE:HD13	4.32	0.48
36:1:1826:C:H2'	36:1:1827:C:C6	2.48	0.48
40:L3:116:ARG:NH2	40:L3:174:LYS:HD3	2.28	0.48
18:C6:95:LYS:HE3	18:C6:96:TYR:CZ	2.49	0.48
22:D0:63:LEU:HB2	22:D0:84:MET:HB3	2.66	0.48
14:C2:60:VAL:HG13	14:C2:122:VAL:HG22	1.96	0.48
1:6:1212:G:C2	1:6:1213:G:C8	3.02	0.48
71:O5:24:LEU:HB3	71:O5:51:ILE:HG12	2.34	0.48
64:N8:13:GLY:O	68:O2:36:LYS:HE2	2.44	0.48
36:1:2902:A:H2'	36:1:2903:A:O4'	2.13	0.48
1:2:17:C:H2'	1:2:18:C:C6	2.48	0.48
36:5:655:C:H2'	36:5:656:A:H8	1.79	0.48
53:M7:30:ARG:HA	53:M7:119:VAL:CG1	2.62	0.48
26:D4:19:ALA:CB	26:D4:81:GLU:HG2	2.43	0.48
36:1:256:G:H4'	71:O5:111:PHE:HZ	1.79	0.48
17:C5:111:MET:HG2	20:C8:119:ILE:CG1	4.12	0.48
72:O6:43:LEU:O	72:O6:47:ILE:HG13	2.14	0.48
36:5:3103:A:OP2	88:5:4163:OHX:N4	2.47	0.48
1:2:1301:U:H2'	1:2:1302:U:O4'	2.14	0.48
1:6:1685:G:H1	1:6:1716:C:H42	1.60	0.48
78:Q2:39:GLY:HA3	36:5:2765:C:O3'	173.66	0.48
41:L4:327:LEU:H	41:L4:327:LEU:HD22	1.79	0.48
4:S2:103:VAL:HG12	4:S2:190:LEU:HD12	1.96	0.48
38:4:91:C:H2'	38:4:92:A:C8	2.48	0.48
36:5:3084:C:H2'	36:5:3085:G:O4'	2.13	0.48
1:6:1110:G:N2	1:6:1136:U:H1'	2.29	0.48
43:L6:164:SER:HB2	69:O3:4:SER:OG	2.13	0.48
36:5:2623:G:H2'	36:5:2624:G:O4'	2.14	0.48
36:5:2248:C:OP2	88:5:3981:OHX:N6	2.47	0.48
54:M8:121:CYS:O	54:M8:122:ILE:HD13	2.14	0.48
36:5:2655:U:H4'	36:5:2656:A:O4'	2.14	0.48
10:S8:10:LYS:HG2	13:C1:133:LYS:HE2	4.26	0.48
66:O0:40:LYS:HB3	66:O0:101:LEU:HD11	1.95	0.48
9:S7:182:VAL:HG12	9:S7:183:PHE:H	1.79	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1565:C:H2'	1:2:1566:U:O4'	2.14	0.48
13:C1:57:LYS:HB2	13:C1:110:HIS:NE2	2.29	0.48
18:C6:38:LEU:O	18:C6:45:ARG:NE	2.46	0.48
1:6:828:U:O2'	1:6:829:A:OP1	2.29	0.48
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.14	0.48
1:2:1340:U:C2	1:2:1378:U:H4'	2.49	0.48
1:6:918:U:H2'	1:6:919:A:C8	2.48	0.48
24:D2:53:ILE:HD11	24:D2:62:VAL:HG23	6.47	0.48
37:7:110:G:C6	37:7:111:U:C4	3.02	0.48
63:N7:57:HIS:HD2	63:N7:65:ARG:HG3	1.78	0.48
63:N7:46:ILE:HD11	63:N7:48:ARG:C	2.53	0.48
17:C5:69:GLU:OE1	88:C5:201:OHX:N2	2.47	0.48
36:1:1766:G:N7	55:M9:46:LYS:NZ	2.62	0.48
21:C9:37:VAL:HG11	21:C9:100:ILE:HD11	2.75	0.48
42:L5:106:ALA:O	42:L5:110:LEU:HB2	2.14	0.48
41:L4:193:LYS:HE3	41:L4:193:LYS:HB3	2.02	0.48
35:SM:68:ARG:HD3	1:6:1460:A:OP2	336.26	0.48
71:O5:94:LYS:O	71:O5:97:ALA:HB3	2.14	0.48
1:2:1234:A:HO2'	33:E1:146:SER:HB3	1.79	0.48
20:C8:125:ILE:HG23	35:SM:61:ILE:HG23	1.96	0.48
17:C5:122:THR:CG2	1:6:1558:U:H3	367.07	0.48
6:S4:87:MET:O	6:S4:122:LYS:HE3	2.14	0.48
36:1:3377:G:O6	88:1:4048:OHX:N2	2.47	0.48
6:S4:193:GLY:O	6:S4:210:ILE:HG23	2.14	0.48
49:M3:3:ILE:HG12	64:N8:34:MET:HE2	1.96	0.48
65:N9:6:ASN:ND2	36:5:2643:A:H5'	227.47	0.48
61:N5:86:VAL:O	61:N5:120:LYS:HB3	2.13	0.48
3:S1:191:GLU:HB2	3:S1:194:ASN:HB2	1.96	0.48
36:1:3151:U:H4'	36:1:3294:A:H1'	1.96	0.48
4:S2:99:LYS:HE2	4:S2:208:GLU:OE1	2.14	0.48
41:L4:98:ARG:HG2	41:L4:99:MET:N	2.67	0.48
51:M5:71:ARG:NH1	36:5:1546:A:N7	137.81	0.48
36:1:661:G:OP2	64:N8:12:ARG:NH2	2.47	0.48
1:6:869:A:H2'	1:6:870:C:O4'	2.14	0.48
48:M1:13:LYS:NZ	48:M1:14:ILE:O	2.37	0.48
36:1:2421:U:H2'	36:1:2422:C:O4'	2.13	0.48
4:S2:37:PRO:HA	4:S2:65:GLU:OE1	2.71	0.48
18:C6:28:LEU:HD12	18:C6:65:ILE:H	1.78	0.48
1:2:413:U:H2'	1:2:414:C:C6	2.48	0.48
1:2:350:U:O2	1:2:352:A:C6	2.67	0.48
69:O3:17:GLN:HG2	69:O3:24:ASN:HB3	3.60	0.48
36:1:1947:G:H1	36:1:2101:C:N4	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
64:N8:96:LYS:C	64:N8:98:THR:H	2.17	0.48
37:7:58:C:OP1	88:7:216:OHX:N3	2.47	0.48
1:6:1636:C:H4'	1:6:1637:C:C5'	2.25	0.47
36:1:563:U:OP1	56:N0:71:LYS:NZ	2.47	0.47
16:C4:16:VAL:HG22	16:C4:33:LEU:HA	1.96	0.47
36:5:1554:U:H4'	36:5:1555:U:OP1	2.13	0.47
41:L4:338:LYS:HA	41:L4:338:LYS:HD2	2.00	0.47
40:L3:55:THR:O	40:L3:56:ILE:HD12	2.14	0.47
14:C2:45:LEU:H	14:C2:120:VAL:HG23	5.02	0.47
41:L4:181:VAL:HG11	41:L4:224:GLY:HA3	2.68	0.47
20:C8:41:ARG:NH1	21:C9:38:LYS:HG3	2.29	0.47
47:M0:16:PRO:O	47:M0:18:PRO:HD3	2.14	0.47
46:L9:90:MET:HG2	46:L9:181:VAL:HG22	1.96	0.47
51:M5:19:LEU:HD12	51:M5:19:LEU:HA	1.68	0.47
7:S5:116:HIS:NE2	27:D5:95:HIS:HE1	2.11	0.47
9:S7:38:LEU:HA	9:S7:38:LEU:HD23	1.97	0.47
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.96	0.47
36:1:437:G:H2'	36:1:438:A:O4'	2.13	0.47
20:C8:143:ARG:C	20:C8:145:ARG:H	4.05	0.47
20:C8:145:ARG:HE	20:C8:145:ARG:HA	4.75	0.47
36:1:1556:C:O5'	36:1:2169:G:N2	2.47	0.47
9:S7:99:LEU:HA	9:S7:100:PRO:HD2	2.53	0.47
2:S0:163:ASN:C	2:S0:165:ARG:H	2.16	0.47
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.14	0.47
10:S8:171:SER:HB3	10:S8:180:ASP:HB2	2.37	0.47
1:2:542:A:C2	32:E0:28:LYS:HD2	2.49	0.47
72:O6:95:ALA:O	72:O6:99:ARG:HB2	2.14	0.47
54:M8:64:VAL:HG13	54:M8:93:ILE:HD11	1.96	0.47
12:C0:80:LEU:HB2	12:C0:82:LEU:HG	1.96	0.47
6:S4:36:HIS:CD2	6:S4:85:GLY:HA3	2.49	0.47
26:D4:89:TYR:HE1	26:D4:93:ARG:NH1	3.88	0.47
57:N1:120:LYS:O	57:N1:122:GLN:N	2.47	0.47
36:1:2552:C:C5	66:O0:53:LYS:HE3	2.48	0.47
71:O5:24:LEU:HD12	71:O5:54:VAL:HG21	2.83	0.47
1:6:276:C:H1'	1:6:277:U:C5	2.49	0.47
10:S8:87:ASN:HB3	10:S8:90:LEU:HG	1.96	0.47
36:5:1072:G:H1'	36:5:1087:G:N2	2.28	0.47
46:L9:94:TYR:CE2	46:L9:98:PRO:HA	2.49	0.47
1:2:639:U:H5''	9:S7:101:LYS:HB2	1.95	0.47
36:5:8:C:H2'	36:5:9:U:O4'	2.14	0.47
40:L3:209:PHE:HA	40:L3:213:GLU:OE2	2.42	0.47
42:L5:41:LYS:HB2	57:N1:68:THR:O	2.27	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2904:U:H2'	36:5:2905:U:C6	2.48	0.47
36:5:3018:C:C4	36:5:3019:U:C4	3.02	0.47
36:1:3268:A:OP2	53:M7:181:ARG:NH1	2.46	0.47
40:L3:84:VAL:HG22	40:L3:162:VAL:HB	2.19	0.47
70:O4:67:LYS:HA	70:O4:70:LYS:HE3	1.95	0.47
14:C2:93:ASP:HB3	14:C2:96:GLN:HB2	4.45	0.47
9:S7:124:LYS:HD2	9:S7:127:GLU:OE2	4.87	0.47
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.14	0.47
59:N3:11:PHE:CG	59:N3:88:ARG:HD2	2.48	0.47
36:5:2112:U:H4'	36:5:2113:A:H5'	1.95	0.47
36:5:913:A:H2	36:5:2134:G:N3	2.12	0.47
4:S2:206:THR:HG21	1:6:14:C:OP2	375.89	0.47
36:1:27:C:H1'	36:1:328:U:H1'	1.96	0.47
1:6:577:G:H3'	1:6:577:G:C8	2.48	0.47
1:2:366:A:OP1	1:2:758:U:O2'	2.18	0.47
42:L5:79:TYR:HB2	42:L5:81:HIS:CE1	2.49	0.47
1:6:1031:U:H4'	1:6:1032:G:OP2	2.14	0.47
40:L3:187:SER:OG	40:L3:188:ILE:HD12	2.14	0.47
52:M6:109:PRO:O	52:M6:110:PRO:O	2.57	0.47
8:S6:72:ARG:HG2	8:S6:98:ARG:HG2	2.82	0.47
3:S1:129:THR:OG1	3:S1:131:ASP:O	2.87	0.47
28:D6:8:ASN:HB3	1:6:1791:A:H5''	328.90	0.47
57:N1:102:ARG:O	57:N1:105:PHE:HB3	2.14	0.47
19:C7:53:TYR:O	19:C7:57:LEU:HG	2.14	0.47
48:M1:106:ILE:H	48:M1:106:ILE:HD13	2.07	0.47
67:O1:8:VAL:HG23	67:O1:77:ARG:HH21	1.80	0.47
22:D0:23:ARG:HD2	22:D0:90:TYR:HB2	2.27	0.47
1:2:39:A:O2'	1:2:40:A:OP2	2.28	0.47
70:O4:37:LYS:HE3	70:O4:58:ARG:NH2	2.29	0.47
9:S7:39:ARG:CZ	55:M9:189:ALA:HB2	7.69	0.47
62:N6:45:ILE:HG13	62:N6:122:LYS:HE2	5.88	0.47
51:M5:120:TRP:HZ2	51:M5:123:GLN:HG2	1.81	0.47
39:L2:209:HIS:CD2	39:L2:210:PRO:HD2	2.49	0.47
42:L5:148:ILE:HG12	42:L5:159:VAL:HG21	1.95	0.47
36:5:1560:G:N2	36:5:1579:C:N3	2.52	0.47
1:6:542:A:H1'	1:6:543:C:P	2.54	0.47
1:2:1789:G:O2'	1:2:1790:A:H5'	2.15	0.47
1:2:488:G:O6	1:2:498:G:N2	2.47	0.47
1:6:1392:U:H2'	1:6:1393:C:C6	2.49	0.47
40:L3:133:TYR:O	40:L3:136:LYS:HB2	2.13	0.47
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.96	0.47
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:S8:117:TYR:CE1	10:S8:150:ALA:HA	3.12	0.47
1:6:1319:A:H2'	1:6:1320:U:O4'	2.14	0.47
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.19	0.47
36:1:2341:A:OP2	40:L3:247:ARG:NH2	2.47	0.47
42:L5:61:ILE:HG23	42:L5:79:TYR:CE1	2.49	0.47
1:6:1592:A:H2'	1:6:1593:A:C8	2.48	0.47
36:1:1577:G:H2'	36:1:1578:C:O4'	2.14	0.47
50:M4:134:ALA:O	50:M4:136:ALA:N	2.46	0.47
1:6:404:G:H2'	1:6:405:C:C6	2.49	0.47
36:1:2883:U:H2'	36:1:2884:C:C6	2.49	0.47
1:6:320:U:H3'	1:6:321:C:H2'	1.96	0.47
1:6:1334:U:H2'	1:6:1335:U:O4'	2.14	0.47
56:N0:131:LYS:HE3	56:N0:134:ASP:OD2	4.53	0.47
38:8:126:A:O2'	38:8:128:U:OP2	2.24	0.47
45:L8:222:PHE:O	45:L8:223:ALA:HB2	4.58	0.47
36:1:624:G:OP2	88:1:4145:OHX:N3	2.47	0.47
1:6:1385:G:N7	88:6:2118:OHX:N6	2.62	0.47
48:M1:82:ARG:HG2	48:M1:112:LEU:HB2	1.95	0.47
38:8:10:A:H2'	38:8:11:C:C6	2.48	0.47
43:L6:166:LYS:HA	43:L6:166:LYS:HD3	2.10	0.47
41:L4:222:VAL:HG22	41:L4:225:VAL:HB	1.95	0.47
36:5:924:G:OP1	88:5:4219:OHX:N4	2.47	0.47
68:O2:82:LEU:HD11	68:O2:112:ALA:HA	1.95	0.47
2:S0:28:ASN:O	2:S0:150:ASP:HB3	6.15	0.47
66:O0:24:THR:HG22	66:O0:91:SER:HB3	2.52	0.47
36:5:1506:A:H1'	36:5:1848:G:O6	2.13	0.47
16:C4:81:VAL:N	16:C4:115:ILE:HG22	2.27	0.47
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.96	0.47
19:C7:10:LYS:NZ	1:6:1401:A:O3'	407.24	0.47
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.41	0.47
17:C5:83:MET:SD	17:C5:89:MET:HE1	3.00	0.47
10:S8:96:LEU:HD13	10:S8:179:CYS:SG	2.54	0.47
13:C1:80:MET:HE2	13:C1:80:MET:HB3	1.48	0.47
26:D4:113:ASN:HA	26:D4:116:LYS:HD3	1.97	0.47
39:L2:70:ARG:HD2	39:L2:72:ARG:NE	4.26	0.47
36:5:1808:G:O6	88:5:4027:OHX:N3	2.47	0.47
20:C8:2:SER:HB3	20:C8:4:VAL:HG22	9.56	0.47
1:2:1229:G:HO2'	1:2:1255:G:H22	1.63	0.47
36:1:863:C:OP1	88:1:3891:OHX:N5	2.47	0.47
1:2:1530:C:OP2	27:D5:95:HIS:CD2	2.67	0.47
1:6:198:A:C2'	1:6:199:G:H5'	2.45	0.47
13:C1:109:VAL:HG11	13:C1:125:VAL:HG11	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:M5:68:ARG:NH1	36:5:291:C:OP1	146.58	0.47
5:S3:64:ARG:O	5:S3:66:ILE:N	3.39	0.47
19:C7:85:VAL:HG12	19:C7:87:GLU:H	1.79	0.47
9:S7:99:LEU:HD23	9:S7:116:ARG:HG2	5.76	0.47
20:C8:120:ARG:HD2	35:SM:61:ILE:HD11	1.95	0.47
57:N1:56:PHE:CZ	57:N1:78:LYS:HD2	3.69	0.47
46:L9:92:TYR:CD1	46:L9:142:ASP:HB3	3.77	0.47
1:6:1391:A:H2'	1:6:1392:U:C6	2.49	0.47
48:M1:42:GLY:HA3	48:M1:75:LYS:NZ	2.28	0.47
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.14	0.47
36:5:2207:A:H2'	36:5:2208:A:O4'	2.14	0.47
1:2:61:A:H8	1:2:269:G:O2'	1.97	0.47
10:S8:194:ARG:HH11	10:S8:195:ARG:HH22	6.00	0.47
36:1:3318:G:H2'	36:1:3318:G:OP2	2.14	0.47
36:1:2218:G:H2'	36:1:2219:A:C8	2.49	0.47
36:1:2226:U:O2'	36:1:2227:C:H5'	2.14	0.47
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.55	0.47
1:6:876:G:H1'	1:6:944:A:O4'	2.13	0.47
38:8:106:C:H4'	38:8:107:G:H5''	1.96	0.47
75:O9:10:LYS:NZ	36:5:1833:G:OP1	103.90	0.47
5:S3:162:GLN:O	5:S3:164:VAL:N	3.10	0.47
1:6:156:A:H2'	1:6:157:A:O4'	2.15	0.47
64:N8:128:ARG:HB3	72:O6:8:ALA:CB	3.17	0.47
38:8:121:U:O2'	38:8:122:U:H5'	2.14	0.47
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.46	0.47
38:8:92:A:H2'	38:8:93:U:O4'	2.14	0.47
43:L6:23:LYS:NZ	36:5:503:C:O2	240.26	0.47
1:6:45:U:O4	1:6:434:G:N2	2.46	0.47
49:M3:109:PHE:O	49:M3:113:VAL:HG23	2.13	0.47
1:2:252:U:H2'	1:2:253:A:H8	1.78	0.47
2:S0:23:HIS:H	2:S0:23:HIS:CD2	3.76	0.47
51:M5:147:ARG:HH11	51:M5:147:ARG:HG3	1.80	0.47
29:D7:8:LEU:HA	29:D7:8:LEU:HD23	1.76	0.47
36:1:539:C:H2'	36:1:540:U:C6	2.49	0.47
19:C7:7:LYS:N	1:6:1316:G:OP1	410.22	0.47
10:S8:106:ALA:HB1	10:S8:160:PHE:CD1	2.49	0.47
11:S9:109:LEU:CB	11:S9:146:PHE:HB3	2.44	0.47
54:M8:100:THR:HG23	54:M8:120:GLU:HB3	1.95	0.47
36:1:3048:A:H5'	40:L3:53:MET:HE1	1.96	0.47
8:S6:54:GLY:O	8:S6:63:MET:HE3	2.14	0.47
36:1:1097:G:N3	36:1:1097:G:H2'	2.29	0.47
1:6:844:A:H2'	1:6:845:G:C8	2.49	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
67:O1:77:ARG:HD3	67:O1:89:LEU:HD23	3.99	0.47
42:L5:68:THR:HG22	42:L5:71:GLY:N	3.41	0.47
63:N7:54:THR:H	63:N7:57:HIS:CD2	3.05	0.47
1:2:79:C:H4'	8:S6:173:PRO:O	2.13	0.47
1:2:1530:C:OP2	27:D5:95:HIS:HD2	1.97	0.47
22:D0:80:GLU:HG2	31:D9:54:LYS:NZ	3.83	0.47
41:L4:146:PRO:O	88:L4:402:OHX:N5	2.47	0.47
30:D8:65:ARG:HG2	30:D8:67:ARG:CZ	2.45	0.47
4:S2:81:MET:HB2	4:S2:101:VAL:O	2.14	0.47
20:C8:146:ALA:HB3	35:SM:68:ARG:HH21	1.78	0.47
2:S0:200:ASP:OD1	2:S0:200:ASP:N	2.48	0.47
2:S0:164:ASN:OD1	2:S0:165:ARG:NH1	2.48	0.47
1:6:138:A:N6	1:6:266:A:H61	2.12	0.47
5:S3:74:GLN:OE1	5:S3:81:PRO:HA	2.14	0.47
68:O2:4:LEU:HD12	68:O2:5:PRO:HD2	1.96	0.47
36:1:2523:A:OP1	61:N5:31:THR:OG1	2.25	0.47
36:5:1317:A:O2'	36:5:1318:A:H3'	2.14	0.47
6:S4:71:LYS:HD2	6:S4:74:GLY:HA2	3.39	0.47
36:1:900:G:H1'	36:1:1589:A:H61	1.79	0.47
88:5:4023:OHX:N3	88:5:4222:OHX:N4	2.61	0.47
1:2:297:U:OP1	6:S4:37:LYS:HD3	2.15	0.47
36:1:1407:A:O3'	68:O2:33:ARG:NH2	2.47	0.47
36:1:109:A:H4'	36:1:110:G:OP1	2.13	0.47
1:6:1735:U:H2'	1:6:1736:G:O4'	2.15	0.47
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	2.00	0.47
78:Q2:40:LYS:HE3	78:Q2:44:ASP:OD2	2.14	0.47
39:L2:7:ASN:O	36:5:2163:C:H4'	185.43	0.47
42:L5:257:GLU:OE1	42:L5:257:GLU:N	5.65	0.47
53:M7:5:GLY:O	53:M7:7:THR:HG22	2.13	0.47
8:S6:10:ASN:HB3	8:S6:128:THR:HA	3.04	0.47
45:L8:72:PRO:HA	45:L8:73:PRO:HD3	1.64	0.47
1:2:947:U:H2'	1:2:948:G:C8	2.50	0.47
36:1:3288:G:O2'	36:1:3289:G:OP2	2.24	0.47
36:5:3316:A:H4'	36:5:3317:U:O2	2.13	0.47
8:S6:135:PRO:HB2	8:S6:141:ILE:HG13	1.96	0.47
61:N5:50:ALA:N	71:O5:79:ASP:OD1	4.32	0.47
73:O7:2:GLY:N	36:5:2138:A:HO2'	173.15	0.47
44:L7:33:ARG:O	44:L7:36:ALA:N	2.47	0.47
6:S4:248:ILE:H	6:S4:248:ILE:HD13	1.78	0.47
2:S0:80:THR:HA	2:S0:83:GLN:OE1	2.43	0.47
1:6:1001:A:C6	1:6:1002:G:C6	3.03	0.47
39:L2:245:LEU:HG	39:L2:247:ARG:HD3	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1542:G:N2	1:2:1568:C:O2'	2.46	0.47
36:1:1273:A:H2'	36:1:1274:A:H8	1.79	0.47
36:1:3304:U:O3'	40:L3:334:ARG:NH2	2.47	0.47
36:1:1849:C:H6	36:1:1849:C:H5'	1.78	0.47
42:L5:111:GLN:CA	42:L5:116:ASP:HB3	4.67	0.47
1:6:1526:A:N1	1:6:1608:U:O2'	2.39	0.47
1:2:332:U:P	10:S8:56:ARG:HH22	2.37	0.47
3:S1:149:GLN:HE21	1:6:1066:C:H4'	341.22	0.47
1:6:884:A:O2'	1:6:885:G:H5'	2.14	0.47
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.80	0.47
1:2:912:U:H4'	1:2:913:G:O5'	2.15	0.47
36:1:1064:A:H5''	36:1:1066:G:O4'	2.14	0.47
3:S1:48:VAL:HG22	3:S1:64:ARG:NH2	3.67	0.47
36:1:367:A:OP1	88:1:3892:OHX:N2	2.47	0.47
3:S1:34:ALA:HB1	3:S1:35:PRO:HD2	1.96	0.47
39:L2:3:ARG:HD3	36:5:911:C:N4	179.14	0.47
40:L3:4:ARG:CG	40:L3:4:ARG:HH11	2.68	0.47
59:N3:87:ARG:HH12	59:N3:137:VAL:HG21	1.79	0.47
1:6:1541:G:C6	1:6:1542:G:N1	2.82	0.47
46:L9:166:ARG:HD2	46:L9:168:ARG:NH1	11.54	0.47
37:7:4:U:H2'	37:7:5:G:C8	2.50	0.47
9:S7:46:ILE:HG12	9:S7:60:ILE:HA	3.30	0.47
36:5:1716:U:H5'	36:5:1716:U:C6	2.47	0.47
36:1:2338:C:H1'	59:N3:49:LEU:HD12	1.97	0.47
36:1:1493:G:N3	36:1:1493:G:H2'	2.30	0.47
40:L3:136:LYS:HB3	40:L3:144:ILE:HD12	1.94	0.47
1:2:1321:A:H4'	1:2:1322:A:O5'	2.15	0.47
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.95	0.47
42:L5:227:LEU:HD12	42:L5:227:LEU:HA	2.19	0.47
46:L9:89:LYS:HE3	46:L9:191:LEU:HD11	18.43	0.47
68:O2:85:LEU:HB2	68:O2:117:ILE:HD13	2.47	0.47
36:1:1273:A:HO2'	36:1:1274:A:P	2.37	0.47
36:1:1488:G:O2'	70:O4:10:ARG:O	2.31	0.47
38:4:77:A:OP2	88:4:223:OHX:N2	2.47	0.47
40:L3:252:ILE:HA	40:L3:252:ILE:HD12	2.14	0.47
36:1:317:A:C2	36:1:318:A:C4	3.02	0.47
44:L7:142:SER:O	44:L7:146:GLN:HG3	2.14	0.47
36:1:970:A:OP2	65:N9:19:ASN:ND2	2.44	0.47
43:L6:175:LYS:HD2	43:L6:175:LYS:HA	4.59	0.47
47:M0:89:VAL:HG13	47:M0:136:PHE:CE1	2.49	0.47
36:1:2585:G:C6	61:N5:24:LEU:HD13	2.49	0.47
61:N5:24:LEU:HB3	61:N5:25:LYS:H	2.56	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:212:LYS:O	4:S2:216:VAL:HG23	2.36	0.47
36:1:1104:G:O5'	36:1:1104:G:H8	1.97	0.47
17:C5:21:ASP:O	17:C5:24:LYS:N	3.42	0.47
19:C7:63:LYS:NZ	34:SR:284:ALA:HB2	2.30	0.47
58:N2:28:PHE:HE1	58:N2:83:TYR:HE2	1.94	0.47
28:D6:28:LYS:HD2	28:D6:29:SER:H	4.83	0.47
44:L7:157:ASN:O	44:L7:159:GLN:HG2	2.15	0.47
41:L4:6:VAL:N	41:L4:20:LEU:O	2.41	0.47
1:2:918:U:H2'	1:2:919:A:H8	1.78	0.47
36:1:284:A:O4'	78:Q2:41:ARG:HD3	2.15	0.47
54:M8:170:ARG:O	54:M8:171:LYS:HG2	2.14	0.47
36:5:2211:U:H2'	36:5:2212:C:O4'	2.15	0.47
39:L2:181:LYS:HE2	39:L2:184:ARG:HH21	1.79	0.47
1:6:826:U:H2'	1:6:827:C:C6	2.50	0.47
7:S5:43:PHE:HB3	7:S5:46:TRP:H	2.12	0.47
63:N7:51:LEU:HB2	63:N7:65:ARG:HD2	1.96	0.47
36:1:1240:A:H61	36:1:1244:A:H5''	1.78	0.47
1:2:328:A:H2'	1:2:329:G:O4'	2.15	0.47
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.15	0.47
70:O4:58:ARG:NH1	36:5:1592:G:OP1	160.80	0.47
25:D3:29:TYR:CE1	25:D3:33:LEU:HD13	2.50	0.47
14:C2:73:LYS:NZ	33:E1:108:VAL:HG13	2.29	0.47
1:6:539:G:OP2	1:6:539:G:C8	2.65	0.47
26:D4:26:ASP:OD1	26:D4:68:LYS:HE2	2.28	0.47
36:5:1560:G:O2'	36:5:1561:G:OP1	2.28	0.47
14:C2:52:LEU:HD22	14:C2:57:ALA:HB2	1.95	0.47
46:L9:67:ALA:O	46:L9:71:VAL:HG23	2.14	0.47
39:L2:47:GLN:HA	39:L2:84:THR:HG22	3.30	0.47
21:C9:117:SER:OG	21:C9:118:PRO:O	2.30	0.47
71:O5:118:ILE:O	71:O5:119:LYS:HB2	2.14	0.47
71:O5:20:GLN:HG2	71:O5:24:LEU:HD12	1.95	0.47
1:2:1584:G:O2'	1:2:1610:G:O6	2.29	0.47
36:5:2516:U:O2	36:5:2594:C:N4	2.47	0.47
9:S7:24:PHE:HE1	9:S7:77:LEU:HD11	2.29	0.47
34:SR:123:ILE:HD11	34:SR:156:VAL:HG22	3.68	0.47
5:S3:20:GLU:HG3	12:C0:61:TRP:CD2	2.50	0.47
1:6:15:U:H2'	1:6:16:G:O4'	2.15	0.47
36:1:2112:U:O2	88:1:3969:OHX:N1	2.48	0.47
8:S6:56:ASN:ND2	8:S6:60:GLY:O	2.36	0.47
36:1:1488:G:H5''	36:1:1838:G:O6	2.15	0.47
36:5:2264:U:OP2	88:5:3959:OHX:N4	2.48	0.47
36:1:3094:A:H2'	36:1:3095:U:C6	2.49	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1578:U:O2'	1:2:1579:U:H5'	2.15	0.47
53:M7:109:ALA:HA	53:M7:112:LEU:HD22	2.02	0.47
53:M7:40:GLU:HA	53:M7:113:TYR:HA	2.77	0.47
36:5:1070:U:C4	36:5:1071:U:C4	3.02	0.47
36:5:996:A:H2'	36:5:997:A:O4'	2.14	0.47
1:2:1670:G:N7	88:2:2123:OHX:N5	2.61	0.47
56:N0:151:PRO:C	56:N0:153:PRO:HD3	2.35	0.47
36:1:2723:U:H2'	36:1:2724:U:C6	2.50	0.47
36:1:3119:U:OP2	88:1:3900:OHX:N3	2.47	0.47
8:S6:162:VAL:N	8:S6:169:TYR:O	2.94	0.47
1:2:410:A:H2	1:2:423:G:H22	1.62	0.47
1:6:1371:A:H5'	1:6:1372:U:OP2	2.14	0.47
1:6:921:U:O4	88:6:2177:OHX:N3	2.48	0.47
36:5:1037:C:H2'	36:5:1038:C:H6	1.80	0.47
56:N0:74:ASN:OD1	56:N0:95:ARG:NH1	2.48	0.47
36:1:2117:A:C8	36:1:3064:U:H1'	2.49	0.47
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.14	0.47
1:2:1729:C:H2'	1:2:1730:A:O4'	2.14	0.47
36:1:2691:A:H2'	36:1:2692:A:C8	2.49	0.47
41:L4:300:ARG:NH1	41:L4:300:ARG:HG2	4.07	0.47
56:N0:139:TYR:HD2	56:N0:140:VAL:HG23	2.33	0.47
49:M3:46:ILE:CG2	49:M3:49:ARG:HB2	2.44	0.47
10:S8:42:ARG:O	10:S8:58:LEU:HD12	4.63	0.47
24:D2:77:PRO:HG2	24:D2:79:PHE:CZ	2.49	0.47
2:S0:110:TYR:HA	2:S0:115:PHE:CE2	2.50	0.47
2:S0:110:TYR:HA	2:S0:115:PHE:CZ	2.50	0.47
47:M0:42:THR:HG23	47:M0:45:GLU:HB2	1.97	0.47
16:C4:127:ARG:HG2	28:D6:22:ARG:HH12	2.54	0.47
36:1:1564:U:H2'	36:1:1565:G:H8	1.78	0.47
15:C3:65:VAL:O	15:C3:67:THR:N	4.19	0.47
7:S5:99:MET:O	7:S5:100:ASN:HB2	2.15	0.47
47:M0:74:LYS:HB2	47:M0:74:LYS:NZ	2.78	0.47
46:L9:161:LEU:O	46:L9:161:LEU:HD22	3.45	0.47
1:2:66:U:C5	8:S6:173:PRO:HG3	2.49	0.47
36:1:3113:A:OP1	46:L9:73:SER:OG	2.25	0.47
1:6:1011:G:HO2'	1:6:1012:U:H6	1.63	0.47
47:M0:51:HIS:CG	47:M0:134:ILE:HD13	2.50	0.47
36:5:916:G:O2'	36:5:917:A:H5''	2.14	0.47
42:L5:232:ASP:OD1	42:L5:233:ALA:N	3.31	0.47
36:1:3122:A:N1	46:L9:70:THR:HG21	2.30	0.47
4:S2:225:LEU:HD22	4:S2:230:TRP:CD1	2.77	0.47
36:1:386:A:C5	36:1:387:A:H1'	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:D7:61:THR:OG1	29:D7:62:ILE:N	2.75	0.47
36:1:2278:C:C2	36:1:2307:G:C2	3.03	0.47
65:N9:14:ARG:HH12	65:N9:18:ARG:NH1	2.27	0.47
36:1:3349:C:H42	36:1:3356:G:H1	1.63	0.47
1:6:476:U:OP1	1:6:477:A:O2'	2.23	0.47
26:D4:63:GLN:HB2	26:D4:68:LYS:HB3	1.96	0.47
46:L9:166:ARG:NH2	46:L9:168:ARG:HH12	12.30	0.47
33:E1:146:SER:HA	1:6:1234:A:O2'	436.88	0.47
26:D4:45:ALA:C	26:D4:47:VAL:H	2.16	0.47
36:1:2748:A:N3	42:L5:36:LEU:HD23	2.29	0.47
2:S0:9:LEU:HD21	2:S0:14:ALA:HB2	4.44	0.47
46:L9:106:LYS:O	46:L9:109:ALA:HB2	2.38	0.47
48:M1:8:PRO:CG	48:M1:9:MET:H	3.36	0.47
79:Q3:73:THR:HG23	79:Q3:76:ALA:H	1.80	0.47
45:L8:190:VAL:HG13	45:L8:192:GLN:HG2	1.96	0.47
1:2:1769:U:O2	16:C4:136:ARG:HG3	2.14	0.47
1:2:73:U:H4'	1:2:74:U:OP1	2.14	0.47
2:S0:142:PRO:HB3	23:D1:34:ILE:HD12	3.15	0.47
22:D0:106:ILE:O	22:D0:107:THR:OG1	2.30	0.47
36:5:3160:U:OP1	88:5:4187:OHX:N1	2.48	0.47
45:L8:160:ILE:HG23	45:L8:164:VAL:HG13	4.01	0.47
8:S6:5:ILE:O	8:S6:13:GLN:HA	2.83	0.47
36:5:3238:G:N2	36:5:3250:U:H1'	2.29	0.47
15:C3:19:SER:OG	15:C3:22:ALA:HB2	3.70	0.47
75:O9:15:LYS:O	75:O9:19:GLN:HG3	2.44	0.47
42:L5:21:ARG:O	42:L5:25:GLU:HG3	2.15	0.47
1:6:737:A:H2'	1:6:738:G:C8	2.50	0.47
1:6:1320:U:O2	1:6:1322:A:H5'	2.15	0.47
25:D3:114:LYS:HE2	1:6:571:G:H5'	363.57	0.47
36:1:3000:A:H2'	36:1:3001:C:H6	1.78	0.47
52:M6:51:LYS:HE3	52:M6:144:SER:OG	2.14	0.47
14:C2:131:ASP:HB2	14:C2:132:GLU:OE1	2.15	0.47
49:M3:168:ARG:CZ	49:M3:172:LEU:HD21	3.28	0.47
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.47	0.47
69:O3:88:ASN:HB2	36:5:429:U:H5'	215.00	0.47
59:N3:24:ASN:O	59:N3:99:ALA:HA	2.31	0.47
36:1:3385:U:H2'	36:1:3386:G:O4'	2.15	0.47
1:2:1049:U:H2'	1:2:1050:G:H8	1.79	0.47
1:6:1263:G:C2	1:6:1264:G:H1'	2.49	0.47
5:S3:49:ILE:CG2	5:S3:89:GLU:HG3	2.45	0.47
1:2:229:U:H2'	1:2:230:C:C6	2.50	0.47
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.88	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:115:LYS:HA	40:L3:118:PHE:HD1	1.79	0.47
36:5:982:C:H42	36:5:1101:G:H1	1.62	0.47
1:6:1375:A:H2'	1:6:1376:C:O4'	2.15	0.47
36:1:25:U:O4	88:1:3878:OHX:N4	2.47	0.47
28:D6:43:ASN:N	28:D6:43:ASN:OD1	4.05	0.47
42:L5:211:LEU:HB3	42:L5:219:PHE:HB2	2.01	0.47
68:O2:61:LYS:HD3	36:5:1339:C:OP1	193.08	0.47
10:S8:168:CYS:HB3	10:S8:182:TYR:CE2	3.08	0.47
78:Q2:65:THR:OG1	78:Q2:87:ARG:HD3	2.20	0.47
1:2:246:G:C2	13:C1:40:LEU:HD22	2.50	0.47
59:N3:46:LEU:O	59:N3:47:ASN:HB2	2.46	0.47
1:2:254:A:H2'	1:2:255:U:H6	1.79	0.47
34:SR:286:GLU:HA	34:SR:287:PRO:HD3	1.72	0.47
36:1:274:G:H2'	36:1:275:U:O4'	2.15	0.47
37:3:28:C:O2	37:3:52:G:N2	2.28	0.47
1:2:918:U:H4'	16:C4:29:HIS:HE1	1.79	0.47
1:2:512:A:H2'	1:2:513:U:C6	2.50	0.47
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.27	0.47
40:L3:53:MET:HB2	36:5:3049:A:H5''	233.58	0.47
47:M0:84:ALA:O	47:M0:140:THR:HG22	2.14	0.47
52:M6:62:THR:HG22	52:M6:65:ASN:H	1.80	0.47
36:5:1807:G:C6	36:5:1808:G:N1	2.82	0.47
41:L4:143:GLU:O	88:L4:402:OHX:N2	2.48	0.47
51:M5:68:ARG:NH1	51:M5:68:ARG:HG2	2.29	0.47
35:SM:23:LYS:HG3	35:SM:24:GLU:N	4.77	0.47
56:N0:21:GLU:N	56:N0:22:PRO:HD3	2.29	0.47
38:8:83:C:H4'	38:8:85:G:N3	2.29	0.47
1:2:1173:C:OP1	20:C8:132:ARG:NH1	2.47	0.47
74:O8:18:ALA:C	74:O8:20:VAL:H	2.72	0.47
36:1:1613:A:OP1	74:O8:2:ALA:N	2.48	0.47
51:M5:172:ARG:HD2	36:5:30:G:P	110.27	0.47
75:O9:35:ILE:HD12	75:O9:35:ILE:H	3.74	0.47
45:L8:78:PHE:O	45:L8:79:GLN:HB3	2.28	0.47
39:L2:118:GLU:HG2	39:L2:126:LEU:HD21	3.03	0.47
39:L2:45:VAL:HA	39:L2:61:VAL:HA	2.21	0.47
1:2:1785:U:H2'	1:2:1786:G:C8	2.49	0.47
22:D0:35:GLU:OE1	22:D0:89:ARG:NH1	6.18	0.47
15:C3:92:ILE:O	15:C3:96:VAL:HG23	2.15	0.47
1:6:1623:C:H2'	1:6:1624:C:C6	2.50	0.47
68:O2:24:ARG:HD3	68:O2:25:TYR:CZ	2.50	0.47
6:S4:176:ASP:HB2	6:S4:179:LYS:NZ	2.29	0.47
7:S5:150:GLY:O	7:S5:152:GLY:N	3.57	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1230:A:H8	1:6:1258:U:C4	2.33	0.47
71:O5:6:ALA:O	71:O5:10:ARG:HG3	2.44	0.47
69:O3:13:HIS:HB3	69:O3:93:THR:O	2.15	0.47
36:5:2971:A:N3	36:5:2971:A:H3'	2.29	0.47
39:L2:190:ARG:HH11	39:L2:191:LEU:HD11	1.80	0.47
36:5:2919:A:N1	36:5:2927:C:O2	2.48	0.47
11:S9:178:ALA:O	11:S9:182:GLU:HG2	2.14	0.47
1:6:1050:G:O6	88:6:2193:OHX:N4	2.48	0.47
1:6:1734:U:H2'	1:6:1735:U:C6	2.50	0.47
6:S4:136:VAL:HG11	6:S4:148:ARG:NH2	2.48	0.47
43:L6:22:ARG:O	43:L6:23:LYS:HD3	2.15	0.47
15:C3:105:ASN:HB3	1:6:879:G:O2'	276.31	0.47
11:S9:8:TYR:O	88:6:2175:OHX:N4	384.00	0.47
36:1:1409:G:N7	88:1:4079:OHX:N3	2.63	0.47
36:1:962:A:N1	36:1:2814:G:O2'	2.40	0.47
18:C6:9:THR:HG21	18:C6:88:GLY:HA2	1.97	0.47
62:N6:87:LYS:HB2	62:N6:97:ILE:HD11	3.79	0.47
1:2:1044:U:H2'	1:2:1045:C:C6	2.50	0.47
57:N1:7:TYR:OH	57:N1:54:HIS:HB2	2.38	0.47
1:6:105:A:H2'	1:6:106:U:O4'	2.15	0.47
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.97	0.47
36:5:145:G:O6	88:5:4021:OHX:N5	2.48	0.47
54:M8:21:SER:OG	54:M8:22:ASP:N	2.48	0.47
1:2:454:U:H3'	1:2:455:C:C6	2.50	0.47
40:L3:152:LYS:HD3	40:L3:189:SER:HA	2.01	0.47
42:L5:76:ALA:CB	42:L5:109:THR:HG22	2.44	0.47
42:L5:107:ARG:HA	42:L5:107:ARG:HE	1.79	0.47
48:M1:16:LYS:HD2	48:M1:70:THR:HB	1.97	0.47
3:S1:142:PHE:O	3:S1:207:LEU:HA	2.21	0.47
8:S6:58:LYS:HG2	8:S6:105:ASP:O	2.15	0.47
3:S1:133:TYR:CZ	3:S1:181:LEU:HD12	5.26	0.47
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.69	0.47
47:M0:86:HIS:O	47:M0:138:VAL:HA	2.31	0.47
63:N7:38:PHE:CZ	36:5:1636:U:H1'	223.91	0.47
1:6:1368:G:C5	1:6:1369:U:C5	3.03	0.47
11:S9:96:VAL:O	11:S9:99:LEU:HB2	2.85	0.47
59:N3:128:ARG:H	59:N3:128:ARG:HG2	1.33	0.47
1:2:648:G:O6	1:2:686:C:N4	2.35	0.47
17:C5:34:VAL:O	17:C5:42:ARG:HG2	2.14	0.47
20:C8:132:ARG:HG3	20:C8:138:THR:HG22	1.97	0.47
36:1:2898:G:H5''	36:1:2899:C:H5'	1.97	0.47
36:5:1024:G:H2'	36:5:1026:A:H8	1.78	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:E1:86:THR:C	33:E1:87:THR:HG1	2.54	0.47
57:N1:31:LEU:HA	57:N1:31:LEU:HD23	1.69	0.47
54:M8:176:ARG:HA	54:M8:182:LYS:O	2.15	0.47
1:6:76:A:H2'	1:6:76:A:N3	2.30	0.47
39:L2:118:GLU:CG	39:L2:126:LEU:HD21	3.01	0.47
1:2:76:A:H5'	1:2:77:U:OP2	2.15	0.47
22:D0:105:GLN:HG3	22:D0:106:ILE:N	2.29	0.47
36:5:1734:G:H2'	36:5:1735:G:O4'	2.14	0.47
4:S2:90:THR:OG1	4:S2:91:ARG:N	3.61	0.47
6:S4:130:GLN:HB3	6:S4:138:TYR:CZ	4.38	0.47
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.49	0.47
46:L9:20:ILE:HG23	46:L9:25:VAL:HG22	2.59	0.47
5:S3:34:TYR:OH	5:S3:37:VAL:HG22	2.28	0.47
47:M0:165:ILE:O	47:M0:166:ILE:HG13	2.15	0.47
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	1.97	0.47
40:L3:247:ARG:HD3	36:5:1888:U:OP1	210.36	0.47
1:6:1619:C:H2'	1:6:1620:C:H6	1.79	0.47
51:M5:140:LYS:O	51:M5:144:ARG:HB2	3.15	0.47
61:N5:114:VAL:HB	75:O9:10:LYS:NZ	2.29	0.47
42:L5:218:ARG:HH21	42:L5:222:LEU:HD21	1.80	0.47
59:N3:92:PHE:CZ	36:5:3051:U:H1'	246.02	0.47
24:D2:17:ALA:HB2	24:D2:25:VAL:HG13	1.96	0.47
79:Q3:49:ARG:HG2	79:Q3:50:GLY:N	2.74	0.47
36:5:356:C:OP2	88:5:4214:OHX:N2	2.48	0.47
53:M7:90:PHE:O	53:M7:94:LEU:HD13	2.14	0.47
36:5:48:A:O4'	36:5:50:U:C6	2.68	0.47
64:N8:72:VAL:HG12	64:N8:111:LYS:HB3	1.96	0.47
36:5:1933:A:OP2	88:5:3918:OHX:N6	2.48	0.47
60:N4:54:LEU:HD13	60:N4:54:LEU:HA	3.51	0.47
55:M9:116:ASP:OD1	55:M9:116:ASP:N	3.60	0.47
43:L6:54:TYR:HA	43:L6:65:ILE:CD1	6.20	0.47
43:L6:52:VAL:HG23	43:L6:67:GLY:HA2	1.95	0.47
36:1:2316:G:H2'	36:1:2317:A:O4'	2.15	0.47
41:L4:26:PHE:HA	41:L4:127:ALA:HA	2.10	0.47
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.69	0.47
36:1:1073:U:H2'	36:1:1074:U:C6	2.49	0.47
36:1:1262:G:C6	36:1:1278:A:N6	2.83	0.47
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.48	0.47
1:2:338:C:P	13:C1:133:LYS:HG3	2.55	0.47
9:S7:162:ILE:O	9:S7:166:LEU:HD13	2.15	0.47
28:D6:37:LYS:HG2	28:D6:72:HIS:ND1	2.30	0.47
36:1:860:G:C5	39:L2:181:LYS:HB2	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
59:N3:126:TRP:HB2	59:N3:129:VAL:HG23	2.74	0.47
36:1:1949:G:OP1	55:M9:104:ARG:NH2	2.48	0.47
35:SM:65:THR:OG1	35:SM:66:ALA:N	3.98	0.47
1:2:47:A:N1	1:2:386:G:H1'	2.30	0.47
74:O8:18:ALA:O	74:O8:20:VAL:N	3.41	0.47
36:1:2155:G:OP1	39:L2:241:ARG:HG2	2.15	0.47
6:S4:121:TYR:HA	6:S4:164:LEU:HG	1.96	0.47
11:S9:53:ARG:O	11:S9:56:ALA:HB3	2.38	0.47
2:S0:9:LEU:HD23	2:S0:54:TRP:CD2	2.50	0.47
36:5:1560:G:H2'	36:5:1561:G:C8	2.49	0.47
67:O1:19:ARG:HD3	67:O1:35:GLU:CG	2.45	0.47
62:N6:32:SER:O	62:N6:101:PRO:HB2	2.15	0.47
41:L4:232:SER:OG	41:L4:233:LEU:N	2.45	0.47
24:D2:18:GLU:OE1	24:D2:65:LEU:HD12	7.51	0.47
55:M9:47:ASN:HB3	55:M9:49:THR:HG23	7.54	0.47
36:1:3152:U:O2'	36:1:3153:U:H5'	2.14	0.47
57:N1:12:ARG:HD3	57:N1:13:TYR:CZ	4.10	0.47
56:N0:77:VAL:HG11	56:N0:106:LEU:HD12	1.96	0.47
88:2:2044:OHX:N1	88:2:2099:OHX:N5	2.63	0.47
10:S8:90:LEU:HD13	10:S8:97:THR:HG21	1.97	0.47
5:S3:21:LEU:HD23	5:S3:21:LEU:HA	1.91	0.47
73:O7:54:LYS:O	73:O7:58:THR:HG23	2.51	0.47
68:O2:27:ARG:HB3	36:5:655:C:OP1	161.91	0.47
11:S9:64:GLU:O	11:S9:65:LYS:HB2	2.22	0.47
36:5:872:U:H2'	36:5:873:C:C6	2.50	0.47
71:O5:45:LYS:O	71:O5:49:LYS:HG2	4.98	0.47
71:O5:49:LYS:O	71:O5:52:ALA:N	3.14	0.47
36:1:429:U:H5''	69:O3:87:ASN:HB3	1.97	0.47
54:M8:42:ALA:HA	54:M8:43:PRO:HD3	1.61	0.47
36:5:3084:C:O2'	36:5:3332:U:OP1	2.23	0.47
1:6:1592:A:H2'	1:6:1593:A:H8	1.79	0.47
5:S3:162:GLN:HG3	1:6:1333:C:H4'	428.10	0.47
36:1:29:C:H4'	36:1:62:A:H4'	1.97	0.47
52:M6:121:PRO:HD2	56:N0:162:THR:O	2.28	0.47
36:5:22:G:H1'	38:8:104:A:N3	2.29	0.47
1:6:145:A:O2'	1:6:146:U:OP1	2.31	0.47
36:5:2289:U:H2'	36:5:2290:C:C6	2.50	0.47
79:Q3:70:THR:HG23	79:Q3:72:SER:H	2.26	0.47
60:N4:3:VAL:HG11	60:N4:12:LYS:HE2	1.97	0.47
22:D0:43:LYS:HA	22:D0:43:LYS:HD2	1.70	0.47
70:O4:21:LYS:HE2	70:O4:21:LYS:HB3	3.92	0.47
36:5:2314:U:OP2	36:5:2314:U:H4'	2.16	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:M1:139:THR:HG22	48:M1:146:GLY:O	2.15	0.47
1:2:1183:A:C6	1:2:1184:A:N1	2.83	0.47
36:5:1249:G:H2'	36:5:1250:G:H8	1.80	0.46
38:4:71:A:H2'	62:N6:51:ARG:NH1	2.30	0.46
7:S5:41:LYS:NZ	7:S5:67:PRO:O	3.51	0.46
40:L3:141:GLY:O	40:L3:143:GLY:N	3.78	0.46
1:6:1161:C:O5'	1:6:1161:C:H6	1.98	0.46
8:S6:171:LYS:NZ	1:6:67:A:OP1	348.25	0.46
1:6:1398:U:H3'	1:6:1399:C:H4'	1.97	0.46
49:M3:75:PHE:HA	49:M3:101:ARG:HH12	1.80	0.46
41:L4:341:SER:O	41:L4:342:LYS:CB	4.13	0.46
62:N6:120:GLN:HG2	62:N6:126:LEU:HD23	3.87	0.46
1:2:779:U:OP2	1:2:780:A:H2	1.98	0.46
45:L8:78:PHE:C	45:L8:80:TYR:H	2.18	0.46
24:D2:65:LEU:HA	24:D2:65:LEU:HD13	3.90	0.46
30:D8:66:LEU:HA	30:D8:66:LEU:HD23	1.77	0.46
36:1:2523:A:H62	45:L8:57:ARG:HD2	1.79	0.46
36:1:994:G:H3'	57:N1:13:TYR:CD2	2.51	0.46
36:5:370:U:H5''	36:5:371:G:OP2	2.14	0.46
51:M5:38:ARG:CZ	51:M5:60:VAL:HG13	2.45	0.46
44:L7:228:SER:HA	44:L7:232:ARG:HH22	3.03	0.46
41:L4:334:PHE:HA	41:L4:339:LEU:HD11	3.01	0.46
36:5:3041:U:H2'	36:5:3042:U:H6	1.80	0.46
11:S9:70:LEU:O	11:S9:74:ASN:HB2	2.15	0.46
41:L4:139:GLY:O	41:L4:141:ARG:NH1	4.22	0.46
36:1:3106:A:N6	36:1:3128:G:H1'	2.30	0.46
36:1:3294:A:H2'	36:1:3295:A:O4'	2.15	0.46
35:SM:55:SER:O	35:SM:59:GLY:N	2.41	0.46
36:1:255:A:O2'	36:1:256:G:H5'	2.15	0.46
40:L3:339:ARG:HG2	40:L3:340:LYS:O	2.28	0.46
61:N5:24:LEU:O	61:N5:25:LYS:HB2	4.61	0.46
49:M3:174:ARG:CZ	72:O6:9:ILE:HD13	2.45	0.46
28:D6:20:PRO:HA	28:D6:31:PRO:HA	1.97	0.46
43:L6:153:PRO:O	43:L6:154:LEU:HB2	2.15	0.46
1:2:1781:A:H2'	1:2:1782:A:O4'	2.15	0.46
25:D3:86:PHE:O	25:D3:88:PRO:HD3	2.43	0.46
1:6:1000:C:N4	1:6:1003:A:OP2	2.41	0.46
1:2:915:A:H5''	1:2:916:U:H5	1.80	0.46
3:S1:83:LYS:NZ	16:C4:116:GLU:OE2	2.36	0.46
36:5:407:A:C2	38:8:17:A:H1'	2.49	0.46
3:S1:168:ILE:O	3:S1:172:LEU:HG	2.39	0.46
26:D4:105:ARG:NH1	26:D4:109:LYS:HE2	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1095:U:N3	57:N1:127:GLN:OE1	2.39	0.46
10:S8:51:GLY:H	1:6:397:A:H5''	313.18	0.46
12:C0:31:LYS:HE3	12:C0:36:ASP:OD1	2.13	0.46
46:L9:86:TYR:CZ	46:L9:151:VAL:HG22	2.51	0.46
36:5:1294:A:O2'	36:5:1295:G:H5''	2.14	0.46
4:S2:141:ARG:H	4:S2:141:ARG:HG2	2.08	0.46
21:C9:84:LYS:HE2	21:C9:94:ILE:HG13	4.42	0.46
6:S4:17:HIS:HB2	6:S4:108:ARG:HA	1.97	0.46
18:C6:32:ASN:HD21	18:C6:69:VAL:HG23	4.45	0.46
26:D4:43:LYS:O	26:D4:47:VAL:HG23	2.15	0.46
1:6:281:G:C6	1:6:282:C:C4	3.03	0.46
40:L3:92:TYR:CE1	40:L3:159:ARG:HD2	2.51	0.46
36:1:2611:U:H2'	36:1:2612:U:H6	1.76	0.46
36:1:239:G:O6	88:1:4046:OHX:N3	2.48	0.46
8:S6:199:GLN:HG3	8:S6:202:ARG:NH2	2.31	0.46
15:C3:23:PRO:HD2	15:C3:26:PHE:HB3	1.96	0.46
55:M9:17:VAL:HG11	55:M9:52:LYS:HG3	4.05	0.46
2:S0:131:GLN:HE22	2:S0:135:GLU:HG3	5.55	0.46
38:8:145:U:H2'	38:8:146:U:O4'	2.15	0.46
42:L5:146:LEU:HB3	36:5:2746:A:H2	259.76	0.46
67:O1:74:ARG:NH1	67:O1:109:VAL:HG21	2.30	0.46
34:SR:130:THR:HG22	34:SR:145:LEU:HB3	1.96	0.46
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.96	0.46
36:5:2953:U:H2'	36:5:2954:U:H2'	1.96	0.46
36:5:2954:U:H6	36:5:2954:U:HO2'	1.62	0.46
1:2:883:C:H2'	1:2:884:A:H8	1.80	0.46
8:S6:159:ARG:NH2	8:S6:170:THR:OG1	3.11	0.46
36:5:1081:U:H6	36:5:1081:U:H2'	1.49	0.46
36:1:1057:A:N3	36:1:1057:A:H2'	2.30	0.46
36:1:1922:A:H2'	36:1:1923:C:O4'	2.14	0.46
36:5:789:A:H2'	36:5:790:U:C6	2.50	0.46
36:5:2712:U:H2'	36:5:2713:U:C6	2.51	0.46
11:S9:20:GLU:O	11:S9:24:LEU:HG	2.78	0.46
17:C5:43:ARG:NH1	1:6:1553:G:N7	401.55	0.46
1:6:486:G:O6	1:6:488:G:N2	2.48	0.46
9:S7:114:ARG:O	9:S7:117:THR:HB	2.95	0.46
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.96	0.46
65:N9:47:LEU:HA	65:N9:50:THR:HG23	1.97	0.46
38:8:141:C:H2'	38:8:142:C:C6	2.50	0.46
42:L5:122:VAL:O	42:L5:123:GLU:HB2	4.76	0.46
36:1:1278:A:O2'	36:1:1279:C:H6	1.97	0.46
3:S1:193:ILE:H	3:S1:193:ILE:HG12	1.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:C1:131:ILE:HA	13:C1:131:ILE:HD13	1.74	0.46
24:D2:94:LEU:HA	24:D2:95:PRO:HD3	1.62	0.46
49:M3:186:ARG:O	49:M3:190:LYS:HB3	2.15	0.46
33:E1:103:LEU:HA	33:E1:105:TYR:HD2	2.78	0.46
26:D4:124:ARG:HA	26:D4:127:LYS:HG2	1.96	0.46
1:2:1682:U:O2'	1:2:1683:C:H5'	2.15	0.46
36:5:2573:G:H2'	36:5:2574:G:O4'	2.15	0.46
61:N5:58:ASP:OD2	61:N5:61:LYS:N	2.48	0.46
10:S8:8:ARG:HD3	10:S8:21:PHE:CD1	2.50	0.46
32:E0:28:LYS:HZ2	32:E0:31:LYS:HE2	1.80	0.46
1:2:223:U:H2'	1:2:224:C:H6	1.80	0.46
46:L9:92:TYR:N	46:L9:92:TYR:CD2	4.17	0.46
45:L8:84:ARG:HH12	45:L8:181:LYS:NZ	2.13	0.46
33:E1:119:ARG:NH1	33:E1:120:GLU:O	8.91	0.46
13:C1:21:ASN:ND2	13:C1:32:LYS:H	2.60	0.46
41:L4:118:LYS:O	41:L4:122:THR:HG23	2.15	0.46
15:C3:94:LYS:HE3	15:C3:94:LYS:HB2	1.76	0.46
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.67	0.46
6:S4:240:LYS:HA	6:S4:242:LYS:NZ	2.31	0.46
26:D4:15:ASN:OD1	26:D4:17:LEU:HB2	2.76	0.46
36:1:3174:A:C2'	36:1:3175:U:H5'	2.46	0.46
1:2:979:A:N3	1:2:1775:U:O2'	2.46	0.46
4:S2:59:HIS:NE2	4:S2:238:SER:HA	3.40	0.46
1:2:30:G:H2'	1:2:31:C:C6	2.51	0.46
36:1:1069:C:H2'	36:1:1070:U:C6	2.51	0.46
64:N8:128:ARG:HG2	72:O6:8:ALA:HB2	1.95	0.46
60:N4:9:SER:HA	60:N4:52:THR:HG22	2.05	0.46
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.15	0.46
36:1:2850:G:O6	88:1:4088:OHX:N6	2.49	0.46
36:1:2558:U:O2'	36:1:2559:U:H5'	2.15	0.46
1:6:839:U:H2'	1:6:840:U:C6	2.50	0.46
23:D1:14:PRO:HB2	23:D1:23:ILE:HG23	2.11	0.46
34:SR:246:SER:HB3	34:SR:251:TRP:HB2	3.21	0.46
8:S6:178:LEU:O	8:S6:180:THR:HG23	2.15	0.46
1:6:1640:C:H6	1:6:1640:C:O5'	1.98	0.46
1:6:194:U:H2'	1:6:194:U:O2	2.16	0.46
5:S3:215:GLU:HA	5:S3:216:PRO:HD2	2.28	0.46
52:M6:36:VAL:HB	52:M6:108:ILE:HB	4.60	0.46
56:N0:137:ARG:HD3	36:5:1213:G:OP1	325.22	0.46
1:2:1508:U:H2'	1:2:1509:C:H6	1.81	0.46
61:N5:54:TYR:O	61:N5:56:ARG:N	2.93	0.46
11:S9:122:VAL:O	11:S9:125:ALA:HB3	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:C7:53:TYR:O	19:C7:56:HIS:HB3	2.56	0.46
36:1:3259:U:H5'	36:1:3259:U:C6	2.40	0.46
9:S7:14:THR:HG22	9:S7:17:GLU:H	2.56	0.46
33:E1:141:CYS:SG	33:E1:143:LYS:HB3	3.24	0.46
63:N7:113:VAL:O	63:N7:117:ALA:N	2.36	0.46
11:S9:3:ARG:HH21	11:S9:3:ARG:CG	3.67	0.46
36:1:1014:U:C2'	36:1:1015:U:H5''	2.46	0.46
37:3:76:A:C8	37:3:78:U:C2	3.03	0.46
46:L9:49:ASN:OD1	46:L9:51:GLN:N	2.80	0.46
36:5:121:A:H4'	36:5:122:A:OP2	2.15	0.46
6:S4:156:VAL:O	6:S4:157:ASN:HB2	2.16	0.46
36:1:2680:A:C2	48:M1:24:GLY:HA2	2.50	0.46
1:6:393:C:H2'	1:6:394:C:C6	2.50	0.46
40:L3:169:THR:HG21	40:L3:171:LEU:HD12	1.97	0.46
1:6:1087:A:H5'	1:6:1298:U:O4	2.15	0.46
36:1:239:G:HO2'	36:1:240:U:P	2.38	0.46
36:1:824:C:H2'	36:1:825:U:H6	1.81	0.46
45:L8:164:VAL:O	45:L8:167:PRO:HD2	2.15	0.46
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.95	0.46
36:1:508:U:H2'	36:1:509:U:H6	1.81	0.46
22:D0:74:GLU:HG2	1:6:1429:G:H1'	377.28	0.46
36:1:535:G:O6	88:1:4073:OHX:N3	2.49	0.46
1:6:1080:U:O2'	1:6:1081:A:H5'	2.15	0.46
39:L2:230:VAL:O	39:L2:233:GLN:HG3	3.20	0.46
36:1:1706:C:H2'	36:1:1707:A:O4'	2.15	0.46
1:2:992:A:C2	1:2:1012:U:N3	2.75	0.46
40:L3:86:VAL:HG22	40:L3:162:VAL:HG12	2.09	0.46
1:2:1044:U:H2'	1:2:1045:C:H6	1.81	0.46
2:S0:32:HIS:CE1	23:D1:63:GLY:HA3	9.80	0.46
16:C4:104:ALA:HA	16:C4:107:ARG:HB3	3.09	0.46
1:2:763:G:C6	1:2:764:U:C4	3.04	0.46
36:5:2561:A:O2'	36:5:2562:A:H5''	2.15	0.46
24:D2:106:THR:HG21	24:D2:121:VAL:HG23	5.40	0.46
46:L9:111:PHE:CD1	46:L9:127:PRO:HA	2.71	0.46
1:2:1153:G:H2'	1:2:1154:G:O4'	2.15	0.46
36:1:2665:U:H4'	36:1:2666:C:OP1	2.16	0.46
36:5:2419:A:H1'	36:5:2804:A:O4'	2.15	0.46
44:L7:92:ILE:HA	44:L7:92:ILE:HD12	1.56	0.46
62:N6:27:ARG:HG2	62:N6:78:PHE:CE1	2.50	0.46
36:1:1304:A:N6	36:1:2860:U:OP1	2.47	0.46
1:2:463:U:H2'	1:2:464:A:H8	1.79	0.46
39:L2:185:ALA:O	39:L2:189:TYR:HD1	1.99	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:S9:109:LEU:HB2	11:S9:146:PHE:CB	2.86	0.46
11:S9:126:ARG:O	11:S9:129:ILE:N	2.99	0.46
8:S6:68:LEU:HD13	8:S6:68:LEU:HA	2.02	0.46
1:2:325:G:H2'	1:2:326:G:H8	1.81	0.46
31:D9:21:CYS:HA	31:D9:30:LEU:HD21	2.87	0.46
28:D6:10:ARG:HH12	28:D6:36:ILE:HG13	4.05	0.46
1:2:1796:C:H5	28:D6:6:ALA:N	2.14	0.46
48:M1:93:ASP:C	48:M1:94:ARG:O	2.74	0.46
47:M0:38:LYS:CG	47:M0:41:ALA:HB2	2.67	0.46
42:L5:184:ASP:HB3	42:L5:187:THR:O	2.16	0.46
8:S6:137:ARG:HH21	8:S6:177:ARG:NE	2.14	0.46
37:3:47:C:H2'	37:3:48:U:H6	1.81	0.46
36:5:174:C:H2'	36:5:175:C:O4'	2.14	0.46
33:E1:143:LYS:N	1:6:1253:U:H4'	449.89	0.46
70:O4:16:ARG:CG	70:O4:16:ARG:HH11	4.10	0.46
7:S5:149:VAL:HG13	7:S5:151:GLY:N	5.00	0.46
36:1:434:U:H3	36:1:625:G:H1	1.63	0.46
23:D1:9:VAL:HG22	23:D1:10:GLU:H	2.02	0.46
36:1:1559:A:H4'	36:1:1560:G:OP2	2.15	0.46
6:S4:19:LEU:HD13	1:6:788:A:C4	393.58	0.46
55:M9:20:ARG:HD3	36:5:1874:A:OP2	141.89	0.46
36:5:3288:G:O2'	36:5:3289:G:P	2.74	0.46
36:5:2946:A:C5'	36:5:2947:G:H5'	2.45	0.46
11:S9:97:LEU:HA	11:S9:97:LEU:HD23	1.79	0.46
44:L7:224:ILE:HG23	56:N0:36:ILE:HA	1.97	0.46
48:M1:150:ASN:C	48:M1:152:HIS:H	2.18	0.46
39:L2:113:VAL:HG12	39:L2:166:ILE:HA	1.98	0.46
26:D4:121:THR:H	1:6:85:A:H4'	338.52	0.46
46:L9:88:TYR:CE1	46:L9:184:LYS:HB2	4.88	0.46
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.51	0.46
2:S0:147:THR:OG1	2:S0:159:ALA:HB1	2.15	0.46
34:SR:80:ALA:O	34:SR:91:LEU:HD12	2.47	0.46
36:1:3160:U:H2'	36:1:3161:C:C6	2.51	0.46
1:2:460:A:H3'	1:2:461:G:H8	1.79	0.46
36:5:1696:A:OP2	88:5:4190:OHX:N6	2.49	0.46
3:S1:36:SER:O	3:S1:38:PHE:N	2.49	0.46
50:M4:22:LEU:HD13	50:M4:32:LEU:HD23	1.96	0.46
50:M4:22:LEU:HB3	50:M4:64:VAL:HG13	1.98	0.46
36:1:627:U:H2'	36:1:628:A:C8	2.50	0.46
1:6:1269:U:H4'	1:6:1270:G:C5'	2.46	0.46
47:M0:153:ARG:HG2	47:M0:156:ARG:HH21	3.28	0.46
33:E1:109:ASP:N	33:E1:109:ASP:OD1	2.49	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:819:G:H22	1:2:853:G:H2'	1.80	0.46
36:1:2883:U:H2'	36:1:2884:C:H6	1.80	0.46
1:6:625:C:H2'	1:6:626:U:C6	2.50	0.46
66:O0:46:ALA:HB2	66:O0:70:PHE:O	3.44	0.46
36:5:305:U:C5	36:5:2776:C:H1'	2.50	0.46
41:L4:313:LEU:HD23	41:L4:313:LEU:HA	2.90	0.46
75:O9:30:ARG:HB2	75:O9:30:ARG:HE	1.46	0.46
64:N8:88:ASP:N	64:N8:88:ASP:OD1	2.49	0.46
1:2:274:G:C2	1:2:275:C:H1'	2.50	0.46
14:C2:29:LYS:HG3	14:C2:100:TRP:CD1	2.51	0.46
8:S6:31:ARG:N	8:S6:34:GLN:OE1	3.49	0.46
36:1:1016:C:H1'	36:1:1028:U:C2	2.50	0.46
14:C2:63:VAL:HG13	14:C2:119:SER:O	2.15	0.46
3:S1:144:ARG:HB3	3:S1:208:GLN:HG2	4.01	0.46
36:1:3215:A:O5'	50:M4:121:MET:HE1	2.16	0.46
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.14	0.46
62:N6:52:ARG:HA	62:N6:70:ILE:CG2	2.90	0.46
7:S5:41:LYS:HG2	7:S5:69:PHE:CZ	4.69	0.46
1:2:905:A:H5"	16:C4:52:ARG:HD3	1.98	0.46
29:D7:47:PHE:CD1	29:D7:49:HIS:O	2.68	0.46
1:6:219:A:N6	1:6:843:U:C2	2.84	0.46
20:C8:83:ALA:O	20:C8:86:LEU:HB2	2.16	0.46
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.48	0.46
22:D0:99:ILE:O	22:D0:103:ILE:N	2.49	0.46
11:S9:164:PHE:HE2	1:6:512:A:H4'	452.90	0.46
42:L5:231:ILE:HD12	42:L5:239:ILE:HD11	5.51	0.46
36:5:1258:U:O2	36:5:1260:A:H8	1.98	0.46
1:6:1698:G:H1'	1:6:1699:G:OP1	2.15	0.46
12:C0:58:GLN:HB3	12:C0:65:TYR:HB2	2.79	0.46
74:O8:4:GLU:HG2	74:O8:5:ILE:N	3.37	0.46
65:N9:14:ARG:NH1	65:N9:18:ARG:HD2	2.30	0.46
36:1:2747:A:H2'	36:1:2748:A:C8	2.49	0.46
1:6:1350:U:H2'	1:6:1351:G:H8	1.77	0.46
12:C0:8:ARG:NH1	1:6:1257:U:H4'	446.02	0.46
1:2:839:U:C2'	1:2:840:U:H5'	2.44	0.46
2:S0:156:VAL:O	23:D1:65:SER:HB3	2.59	0.46
1:6:526:A:N6	1:6:527:A:C6	2.83	0.46
68:O2:4:LEU:HD12	68:O2:4:LEU:HA	2.23	0.46
1:2:501:U:HO2'	1:2:502:U:H6	1.61	0.46
1:2:502:U:H2'	1:2:503:G:O4'	2.16	0.46
8:S6:94:ARG:NH2	1:6:407:A:H5'	289.01	0.46
2:S0:175:TYR:CD1	2:S0:199:PRO:HA	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:15:U:H2'	1:2:16:G:O4'	2.15	0.46
36:1:2403:G:H21	36:1:2404:A:N6	2.14	0.46
61:N5:103:TYR:O	61:N5:105:VAL:HG23	2.16	0.46
1:2:416:A:H4'	1:2:417:A:OP2	2.15	0.46
1:2:856:A:H1'	9:S7:64:VAL:HG11	1.98	0.46
68:O2:32:TRP:CG	68:O2:33:ARG:N	2.92	0.46
36:1:3106:A:H61	36:1:3128:G:H1'	1.80	0.46
36:1:3317:U:H4'	36:1:3318:G:O5'	2.16	0.46
37:3:60:G:H2'	37:3:61:G:C8	2.50	0.46
68:O2:3:SER:HB3	68:O2:71:HIS:CE1	2.51	0.46
36:1:3004:C:H4'	40:L3:99:LEU:O	2.15	0.46
53:M7:178:ALA:HA	53:M7:181:ARG:HB3	1.98	0.46
73:O7:3:LYS:HB3	36:5:2138:A:C4	171.14	0.46
36:1:2116:G:C4	36:1:3063:C:O2'	2.69	0.46
1:2:463:U:H2'	1:2:464:A:C8	2.51	0.46
36:1:394:G:N1	36:1:397:A:OP2	2.44	0.46
36:5:2726:C:O2'	36:5:2727:A:H2'	2.16	0.46
36:1:1638:A:HO2'	36:1:1708:C:HO2'	1.61	0.46
36:5:1801:U:H2'	36:5:1802:C:C6	2.51	0.46
1:2:304:U:OP1	13:C1:136:ARG:HD3	2.15	0.46
47:M0:116:ARG:NH2	36:5:2617:U:O3'	228.51	0.46
36:1:16:A:H2'	36:1:17:G:O4'	2.16	0.46
41:L4:56:ALA:C	41:L4:58:HIS:H	2.17	0.46
40:L3:199:PHE:C	40:L3:201:LYS:H	2.19	0.46
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	1.96	0.46
36:5:1397:C:O2'	36:5:1398:U:H5'	2.16	0.46
36:1:1541:G:OP2	88:1:4031:OHX:N5	2.49	0.46
9:S7:151:LYS:HE3	9:S7:151:LYS:HB2	2.39	0.46
59:N3:62:VAL:HG21	59:N3:69:LEU:HB3	1.97	0.46
36:1:1290:A:O2'	36:1:1291:A:H5'	2.16	0.46
36:5:2628:A:C2	36:5:2629:U:H1'	2.50	0.46
10:S8:36:THR:OG1	10:S8:96:LEU:HB2	2.16	0.46
11:S9:134:ILE:HD13	11:S9:141:VAL:O	4.20	0.46
40:L3:284:ARG:HH11	40:L3:284:ARG:HB2	1.81	0.46
40:L3:77:THR:CG2	40:L3:327:CYS:HA	2.61	0.46
1:2:1098:U:O3'	24:D2:71:LYS:NZ	2.46	0.46
9:S7:130:VAL:HB	9:S7:162:ILE:HD12	1.98	0.46
30:D8:44:VAL:HG11	30:D8:48:VAL:HG21	2.61	0.46
18:C6:47:LYS:HZ1	18:C6:114:ARG:NE	2.14	0.46
5:S3:71:LEU:O	5:S3:75:LYS:HG2	3.26	0.46
36:1:304:G:N3	36:1:304:G:H5'	2.31	0.46
51:M5:137:PRO:HD2	51:M5:138:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:102:ARG:NH2	1:6:1341:A:O2'	459.13	0.46
24:D2:53:ILE:HG13	24:D2:54:ASP:N	2.30	0.46
42:L5:22:ARG:NH1	42:L5:27:LYS:HD3	2.31	0.46
10:S8:33:PRO:HA	1:6:331:A:H5'	277.36	0.46
49:M3:100:ARG:O	49:M3:101:ARG:HB3	4.61	0.46
1:2:852:C:O5'	1:2:852:C:H6	1.99	0.46
22:D0:55:PRO:HA	22:D0:91:ILE:HG12	1.98	0.46
58:N2:58:GLU:O	58:N2:60:GLY:N	2.49	0.46
7:S5:123:VAL:O	27:D5:58:ARG:HD2	2.15	0.46
58:N2:54:VAL:HG12	58:N2:67:SER:HA	1.97	0.46
3:S1:170:GLU:O	3:S1:174:LYS:HG3	2.16	0.46
74:O8:10:GLN:O	74:O8:14:LEU:HB2	3.81	0.46
32:E0:28:LYS:NZ	32:E0:31:LYS:HE2	2.30	0.46
12:C0:55:VAL:HA	12:C0:69:THR:HG23	1.98	0.46
9:S7:78:THR:HG22	9:S7:92:PHE:HE1	2.73	0.46
45:L8:155:ASN:OD1	45:L8:181:LYS:HA	2.14	0.46
1:6:913:G:H3'	1:6:914:G:C5'	2.45	0.46
66:O0:53:LYS:HE3	66:O0:57:GLU:OE1	3.36	0.46
18:C6:26:LYS:HE3	18:C6:26:LYS:HB2	4.49	0.46
7:S5:222:LYS:HG3	7:S5:225:ARG:CZ	2.46	0.46
25:D3:109:ARG:HB3	25:D3:112:LYS:HB2	1.97	0.46
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.43	0.46
1:6:1649:G:H2'	1:6:1650:U:C6	2.51	0.46
39:L2:101:VAL:HB	39:L2:165:VAL:HG12	3.66	0.46
1:2:539:G:OP2	1:2:539:G:H8	1.97	0.46
36:1:944:C:H4'	68:O2:33:ARG:NH1	2.30	0.46
56:N0:34:GLU:HB3	56:N0:61:ILE:HD13	3.89	0.46
36:1:550:A:N6	36:1:551:A:H62	2.14	0.46
36:1:1482:A:H4'	36:1:1483:G:OP2	2.15	0.46
70:O4:60:ARG:NH2	36:5:1616:U:H4'	140.51	0.46
1:2:1332:C:O2'	5:S3:162:GLN:HB3	2.16	0.46
1:2:1469:A:H2'	1:2:1470:C:C6	2.50	0.46
14:C2:74:LEU:O	14:C2:78:LEU:N	3.11	0.46
1:6:89:G:C6	1:6:90:C:C4	3.04	0.46
5:S3:102:ALA:HB1	5:S3:173:ARG:HG3	2.63	0.46
51:M5:156:HIS:O	51:M5:159:ARG:HG2	2.15	0.46
5:S3:137:VAL:HG22	5:S3:151:LYS:HE2	1.96	0.46
35:SM:79:SER:HA	35:SM:82:THR:HG23	1.96	0.46
39:L2:87:PHE:O	39:L2:88:ILE:HD13	2.16	0.46
55:M9:146:LYS:HD3	55:M9:146:LYS:HA	4.41	0.46
9:S7:126:LEU:HD12	9:S7:126:LEU:HA	2.20	0.46
36:5:1313:G:H2'	36:5:1314:C:H6	1.81	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1694:U:N3	36:5:1695:U:C4	2.84	0.46
36:5:2801:A:O2'	36:5:2802:A:H2'	2.14	0.46
13:C1:94:ILE:HA	13:C1:95:PRO:HD3	1.79	0.46
36:1:3284:G:H8	36:1:3284:G:O5'	1.97	0.46
13:C1:123:VAL:CG2	13:C1:139:VAL:HG13	2.46	0.46
47:M0:2:ALA:O	47:M0:3:ARG:HB2	4.38	0.46
52:M6:65:ASN:O	52:M6:67:THR:N	2.80	0.46
36:5:1243:G:C6	36:5:1244:A:N7	2.84	0.46
36:1:1927:G:P	79:Q3:5:THR:HB	2.55	0.46
1:6:836:U:H2'	1:6:837:G:C8	2.51	0.46
14:C2:97:LEU:HD12	14:C2:118:ALA:HB1	1.98	0.46
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.16	0.46
34:SR:200:ASN:O	34:SR:201:THR:HB	2.15	0.46
36:5:1667:A:H2'	36:5:1668:G:C8	2.51	0.46
6:S4:60:GLU:O	6:S4:64:ILE:HG13	2.30	0.46
20:C8:24:GLY:O	20:C8:59:GLY:N	2.74	0.46
36:5:3122:A:C2'	36:5:3123:A:H5'	2.45	0.46
21:C9:53:TRP:HH2	21:C9:100:ILE:HD11	1.80	0.46
1:6:1699:G:N2	1:6:1702:A:H5''	2.31	0.46
60:N4:42:GLN:HB3	60:N4:44:LYS:HG2	1.96	0.46
27:D5:39:ALA:O	27:D5:71:ILE:HA	2.16	0.46
24:D2:23:ARG:NH1	24:D2:66:ASN:HA	2.99	0.46
1:6:184:C:H2'	1:6:185:U:H6	1.79	0.46
6:S4:105:VAL:HG11	6:S4:245:LYS:H	2.55	0.46
36:5:2133:U:O4	36:5:2147:A:H2	1.99	0.46
1:2:1428:G:H5'	1:2:1428:G:C8	2.47	0.46
36:5:3163:A:O2'	36:5:3164:C:H5'	2.15	0.46
29:D7:33:LEU:HD23	29:D7:81:ARG:HA	4.61	0.46
72:O6:93:ILE:O	72:O6:97:SER:HB3	2.16	0.46
26:D4:89:TYR:CE1	1:6:525:A:H5''	397.05	0.46
57:N1:124:VAL:HG12	57:N1:125:ALA:H	2.14	0.46
88:2:2044:OHX:N1	88:2:2099:OHX:N3	2.64	0.46
36:5:956:U:H2'	36:5:957:C:C6	2.51	0.46
3:S1:229:MET:C	3:S1:231:LEU:H	2.35	0.46
42:L5:85:ARG:HG2	42:L5:86:TYR:CD2	4.99	0.46
36:1:287:G:OP1	51:M5:179:LYS:HE3	2.16	0.46
36:1:428:A:H1'	69:O3:25:PRO:HG2	1.97	0.46
19:C7:105:GLN:O	19:C7:108:ASP:HB2	2.76	0.46
41:L4:92:ASN:HA	41:L4:98:ARG:O	2.16	0.46
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.43	0.46
6:S4:248:ILE:HD11	11:S9:71:PHE:CG	5.69	0.46
36:5:996:A:C2	36:5:1054:A:C4	3.04	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:S3:133:GLY:HA3	5:S3:157:LEU:HD23	6.28	0.46
8:S6:73:ILE:CD1	8:S6:75:LEU:HD21	2.70	0.46
36:1:2426:U:H2'	36:1:2427:U:C6	2.51	0.46
52:M6:148:LYS:HE2	36:5:3135:U:OP1	257.10	0.46
78:Q2:15:LYS:HA	78:Q2:18:ARG:NH2	2.30	0.46
1:6:805:U:C2'	1:6:806:A:H5'	2.46	0.46
40:L3:102:LEU:O	36:5:3147:G:H4'	241.05	0.46
53:M7:16:SER:HB3	53:M7:149:VAL:HG22	1.96	0.46
63:N7:24:VAL:HG11	63:N7:87:LEU:HB3	3.90	0.46
38:4:34:U:C5	73:O7:74:PHE:CE2	3.04	0.46
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.86	0.46
36:1:2653:C:P	78:Q2:89:LYS:HB2	2.55	0.46
36:1:618:C:H5'	53:M7:169:THR:HG22	1.96	0.46
66:O0:60:ALA:O	66:O0:63:SER:N	3.06	0.46
64:N8:14:HIS:N	64:N8:14:HIS:ND1	2.77	0.46
36:1:1851:G:O5'	36:1:1851:G:H8	1.98	0.46
78:Q2:100:LYS:H	78:Q2:100:LYS:HE3	1.80	0.46
39:L2:251:LYS:HB3	39:L2:252:THR:H	3.67	0.46
1:6:1585:U:H2'	1:6:1586:A:H8	1.81	0.46
31:D9:14:TYR:OH	1:6:1553:G:O2'	402.74	0.46
14:C2:45:LEU:O	14:C2:49:THR:HG23	2.38	0.46
73:O7:39:TYR:CG	73:O7:40:PRO:HA	2.50	0.46
18:C6:46:PHE:HA	18:C6:49:TYR:HB2	2.14	0.46
37:3:62:U:H5''	42:L5:277:LEU:HD22	1.97	0.46
3:S1:59:ASP:HA	3:S1:62:LYS:NZ	2.31	0.46
47:M0:99:ILE:HG22	47:M0:123:HIS:HB2	1.97	0.46
36:1:1573:G:H2'	36:1:1573:G:N3	2.30	0.46
9:S7:9:LEU:HA	9:S7:9:LEU:HD23	1.80	0.46
1:2:196:G:O2'	1:2:197:A:H8	1.99	0.46
1:2:1253:U:H4'	33:E1:143:LYS:N	2.31	0.46
36:1:3309:G:N3	36:1:3309:G:H5''	2.30	0.46
44:L7:89:ILE:HD12	44:L7:214:TRP:CH2	2.51	0.46
49:M3:76:THR:HG23	49:M3:101:ARG:NH1	2.30	0.46
59:N3:48:ARG:HH11	59:N3:48:ARG:HG3	1.80	0.46
36:5:2572:C:O2'	36:5:2573:G:OP2	2.27	0.46
36:1:1581:C:H2'	36:1:1582:C:H5''	1.98	0.46
64:N8:117:ARG:HH11	64:N8:117:ARG:HG3	3.37	0.46
36:5:1565:G:N2	36:5:1566:A:H1'	2.31	0.46
1:2:1234:A:HO2'	1:2:1235:C:P	2.38	0.46
12:C0:49:LEU:HB3	12:C0:55:VAL:CG1	2.46	0.46
55:M9:40:ALA:O	55:M9:44:LEU:HD23	2.16	0.46
17:C5:98:ASN:HD21	17:C5:101:ALA:HB3	5.12	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:121:VAL:O	4:S2:125:ILE:HG13	3.43	0.46
36:5:1614:C:O2'	36:5:1615:C:H5'	2.16	0.46
53:M7:94:LEU:HB3	53:M7:148:LEU:HD21	3.10	0.46
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.43	0.46
39:L2:169:ILE:HG22	39:L2:170:ALA:O	2.60	0.46
72:O6:35:ASN:HA	72:O6:38:LYS:HB2	2.68	0.46
6:S4:232:GLY:O	6:S4:234:PRO:HD3	2.16	0.46
78:Q2:47:GLN:NE2	78:Q2:53:GLN:OE1	3.40	0.46
36:5:2376:G:H2'	36:5:2377:G:C8	2.51	0.46
1:2:1111:G:C6	1:2:1112:G:C4	3.04	0.46
12:C0:6:GLU:O	12:C0:10:LYS:HG3	2.16	0.46
36:5:3132:C:H2'	36:5:3133:C:C6	2.50	0.46
1:6:1268:G:H1'	1:6:1448:G:H5''	1.97	0.46
39:L2:206:PRO:HD3	39:L2:212:GLY:O	4.03	0.46
1:2:1504:G:H2'	1:2:1505:A:C8	2.50	0.46
42:L5:289:LYS:HD3	47:M0:206:LEU:HD23	1.98	0.46
13:C1:33:ARG:NH2	13:C1:52:SER:HA	3.12	0.46
36:1:812:G:N7	88:1:3995:OHX:N1	2.63	0.46
54:M8:8:LYS:HB2	54:M8:8:LYS:HE3	1.85	0.46
9:S7:97:ARG:HD3	9:S7:97:ARG:HA	3.22	0.46
1:6:720:G:H5''	1:6:720:G:N3	2.31	0.46
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.15	0.46
2:S0:74:VAL:CG2	2:S0:118:PRO:HB3	2.74	0.46
37:7:43:U:C4	37:7:44:C:C4	3.04	0.46
27:D5:57:TYR:OH	27:D5:68:ARG:HG3	2.16	0.46
9:S7:159:VAL:O	9:S7:162:ILE:HG12	2.16	0.46
11:S9:2:PRO:HD2	1:6:461:G:OP1	359.63	0.46
57:N1:130:ARG:HH11	36:5:1098:A:P	253.44	0.46
57:N1:130:ARG:O	36:5:1098:A:O2'	256.62	0.46
13:C1:46:LYS:HE2	1:6:846:G:N2	312.11	0.46
42:L5:282:ARG:HD3	37:7:63:A:OP2	334.65	0.46
36:1:1240:A:N6	36:1:1244:A:OP2	2.49	0.46
7:S5:164:PRO:O	7:S5:168:VAL:HG23	2.16	0.46
36:5:2255:A:H5'	36:5:2261:G:N2	2.28	0.46
36:1:1048:A:H2'	47:M0:22:TYR:CE1	2.50	0.46
73:O7:28:HIS:HE1	73:O7:30:GLN:HG3	3.75	0.46
51:M5:94:TYR:CE2	51:M5:96:ARG:HB2	2.86	0.46
36:1:1602:A:C6	36:1:1603:A:C6	3.04	0.46
51:M5:186:GLY:O	51:M5:190:THR:HG23	2.16	0.46
46:L9:168:ARG:HD2	36:5:2894:C:OP1	305.99	0.46
42:L5:38:THR:HG22	57:N1:30:TYR:HB3	1.98	0.46
26:D4:45:ALA:HB2	26:D4:55:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:838:G:H2'	1:2:839:U:C6	2.51	0.46
36:5:1109:U:H2'	36:5:1110:U:O4'	2.16	0.46
51:M5:38:ARG:NH2	51:M5:60:VAL:HG13	2.31	0.46
36:1:965:A:H1'	64:N8:40:HIS:O	2.15	0.46
36:1:3275:U:C5'	69:O3:68:TRP:HZ2	2.28	0.46
24:D2:89:TRP:HE3	24:D2:93:LEU:HD21	1.81	0.46
41:L4:60:THR:CG2	41:L4:62:ALA:HB2	2.46	0.46
1:2:606:A:H4'	1:2:607:G:O5'	2.16	0.46
22:D0:15:GLN:O	22:D0:16:GLN:HB2	3.39	0.46
22:D0:16:GLN:HB3	22:D0:17:GLN:H	1.47	0.46
51:M5:10:LEU:HD23	72:O6:44:VAL:HG13	4.45	0.46
17:C5:111:MET:HG2	20:C8:119:ILE:HD11	5.86	0.46
36:1:2295:A:N3	59:N3:37:ILE:HD12	2.30	0.46
1:6:1263:G:H2'	1:6:1264:G:O4'	2.16	0.46
34:SR:278:PHE:CE2	34:SR:287:PRO:HG2	2.51	0.46
34:SR:251:TRP:NE1	34:SR:271:VAL:HG21	3.00	0.46
72:O6:33:ALA:HB1	72:O6:38:LYS:HD2	4.27	0.46
24:D2:55:ASP:O	24:D2:57:ARG:N	2.92	0.46
52:M6:119:VAL:HG23	56:N0:164:SER:HB3	2.06	0.46
76:Q0:110:CYS:HB2	76:Q0:121:LEU:HD21	1.98	0.46
36:5:1519:G:H2'	36:5:1520:G:H8	1.79	0.46
7:S5:63:GLN:HB3	7:S5:88:PRO:HA	2.17	0.46
4:S2:83:ILE:HD12	35:SM:117:LEU:HD12	1.97	0.46
36:5:2660:G:O3'	36:5:2749:G:N2	2.49	0.46
36:1:1629:U:O4	63:N7:111:LYS:HE3	2.15	0.46
36:1:2890:A:N1	36:1:2913:C:N3	2.63	0.46
1:2:1417:A:H2'	1:2:1418:G:O4'	2.15	0.46
20:C8:113:LEU:HD21	20:C8:127:HIS:CE1	2.51	0.46
1:6:650:U:H2'	1:6:651:G:H5'	1.97	0.46
36:1:915:A:H2'	36:1:915:A:N3	2.31	0.46
36:1:1282:G:C6	36:1:1283:C:C4	3.05	0.46
1:2:1748:G:O6	88:2:2105:OHX:N4	2.49	0.46
1:2:1727:G:H2'	1:2:1728:A:C8	2.51	0.46
1:6:1171:A:H2'	1:6:1172:G:C8	2.50	0.46
41:L4:285:ASP:OD2	41:L4:288:ARG:HB2	2.15	0.45
11:S9:129:ILE:HG22	11:S9:142:ASN:HA	1.98	0.45
71:O5:83:LYS:HA	38:8:38:U:C5	66.40	0.45
40:L3:329:PRO:HA	36:5:3047:U:H5'	233.72	0.45
27:D5:57:TYR:HD2	27:D5:57:TYR:N	2.44	0.45
36:1:1385:C:OP2	41:L4:202:ARG:HD3	2.16	0.45
41:L4:330:TYR:O	41:L4:333:VAL:HG13	2.54	0.45
67:O1:46:THR:HG21	67:O1:91:SER:OG	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D3:17:VAL:HG23	25:D3:20:ARG:NH2	4.90	0.45
22:D0:51:VAL:HG22	22:D0:94:GLU:H	4.82	0.45
40:L3:257:PRO:HG2	40:L3:261:MET:HE1	1.99	0.45
34:SR:10:ARG:HG2	34:SR:51:ASP:O	2.16	0.45
41:L4:82:THR:C	41:L4:84:ARG:H	2.18	0.45
58:N2:100:THR:HA	36:5:1677:G:OP1	140.70	0.45
53:M7:48:LEU:HD22	53:M7:88:VAL:HG13	2.44	0.45
34:SR:112:SER:CB	34:SR:153:GLN:HA	2.50	0.45
36:1:2258:U:H2'	36:1:2259:A:O4'	2.15	0.45
37:3:106:U:H2'	37:3:107:C:H6	1.78	0.45
63:N7:17:ARG:C	63:N7:19:ALA:H	2.19	0.45
36:5:177:U:O4	36:5:239:G:N2	2.49	0.45
24:D2:30:SER:OG	24:D2:31:SER:N	2.86	0.45
41:L4:91:GLY:O	41:L4:94:CYS:HB2	2.63	0.45
16:C4:20:TYR:CD1	16:C4:84:ARG:HD3	4.73	0.45
61:N5:131:ASP:O	61:N5:135:ILE:HG22	4.14	0.45
36:1:2535:A:N6	36:1:2544:U:H3	2.14	0.45
36:5:3259:U:H5'	36:5:3259:U:C6	2.50	0.45
1:2:1199:G:H1	31:D9:31:ILE:CD1	2.29	0.45
36:5:1597:C:H2'	36:5:1598:G:H8	1.80	0.45
8:S6:49:VAL:HB	8:S6:115:LYS:HG3	5.04	0.45
34:SR:253:ALA:O	34:SR:292:LEU:HD11	2.16	0.45
35:SM:47:ALA:HB2	36:1:2678:A:C8	2.50	0.45
43:L6:76:LEU:HD12	43:L6:138:GLN:HA	1.98	0.45
36:1:553:U:H2'	36:1:554:A:O4'	2.16	0.45
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.58	0.45
33:E1:125:THR:OG1	33:E1:126:CYS:SG	2.74	0.45
36:1:2807:U:O3'	36:1:2808:A:H3'	2.17	0.45
36:5:1068:C:H2'	36:5:1069:C:C6	2.52	0.45
1:2:463:U:C2	1:2:464:A:C8	3.04	0.45
36:1:2320:A:H2	79:Q3:16:VAL:HG13	1.82	0.45
43:L6:35:VAL:O	43:L6:38:THR:OG1	2.42	0.45
54:M8:46:LYS:O	54:M8:50:LYS:HG3	5.07	0.45
64:N8:148:ILE:HB	64:N8:149:ALA:H	1.52	0.45
72:O6:45:ARG:NH2	72:O6:54:GLU:OE2	2.49	0.45
39:L2:111:THR:HB	39:L2:136:ILE:HD13	1.97	0.45
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.42	0.45
36:5:1902:G:C6	36:5:1903:U:C2	3.04	0.45
1:6:708:C:H2'	1:6:709:C:O4'	2.16	0.45
67:O1:14:ILE:HG23	67:O1:16:LEU:HD22	3.33	0.45
36:5:810:A:H2'	36:5:811:U:C6	2.51	0.45
36:1:2139:A:H62	73:O7:4:GLY:HA3	1.80	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:147:HIS:CD2	34:SR:179:LYS:HE2	5.08	0.45
36:1:1534:A:O4'	36:1:1797:A:H2	1.99	0.45
36:1:1796:G:H5''	36:1:1797:A:OP1	2.17	0.45
48:M1:80:LEU:HD22	48:M1:80:LEU:O	2.52	0.45
36:1:1547:G:P	51:M5:105:ARG:NH1	2.89	0.45
4:S2:69:ILE:HG12	4:S2:133:LYS:HB3	2.55	0.45
69:O3:89:LEU:HD23	69:O3:89:LEU:HA	1.70	0.45
35:SM:34:LYS:HA	35:SM:34:LYS:HD3	2.86	0.45
24:D2:36:LYS:O	24:D2:40:VAL:HG23	2.68	0.45
1:6:661:A:N3	1:6:670:U:N3	2.64	0.45
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.49	0.45
56:N0:155:ARG:HH21	56:N0:155:ARG:CG	2.23	0.45
36:1:2443:A:N6	36:1:2504:U:C4	2.84	0.45
36:1:1060:U:O2	57:N1:101:CYS:HB2	2.16	0.45
36:1:2828:G:C6	36:1:2829:U:C2	3.04	0.45
47:M0:7:ARG:NH1	36:5:2828:G:OP2	270.36	0.45
59:N3:12:ARG:HG3	59:N3:13:ILE:N	4.37	0.45
1:2:959:U:C4	29:D7:32:PHE:HE2	2.35	0.45
7:S5:90:ILE:HA	7:S5:90:ILE:HD13	2.19	0.45
1:2:191:C:O2'	1:2:192:U:O5'	2.34	0.45
8:S6:174:LYS:HG3	1:6:79:C:H1'	342.10	0.45
32:E0:29:LYS:HG2	32:E0:35:TYR:HE2	4.16	0.45
4:S2:188:LEU:O	4:S2:191:ALA:HB3	2.17	0.45
59:N3:48:ARG:NH1	59:N3:48:ARG:HG3	2.30	0.45
20:C8:146:ALA:H	35:SM:68:ARG:NH2	2.13	0.45
6:S4:104:ASP:HB3	6:S4:105:VAL:H	1.42	0.45
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.51	0.45
2:S0:162:CYS:HB2	2:S0:163:ASN:H	1.44	0.45
36:5:1817:G:O2'	36:5:1818:U:OP2	2.28	0.45
75:O9:23:LEU:HA	75:O9:24:PRO:HD2	2.26	0.45
19:C7:30:THR:HG22	34:SR:127:ARG:NH2	4.09	0.45
52:M6:183:ALA:C	52:M6:185:ALA:N	2.70	0.45
55:M9:7:GLN:OE1	55:M9:35:ALA:HB3	5.72	0.45
1:6:792:U:O2'	1:6:793:A:H5'	2.15	0.45
36:5:2546:C:H2'	36:5:2547:A:H8	1.81	0.45
21:C9:22:LEU:HD22	21:C9:28:LEU:HG	9.03	0.45
72:O6:11:LEU:HA	72:O6:11:LEU:HD13	1.68	0.45
74:O8:59:ALA:O	74:O8:62:ALA:HB3	2.25	0.45
40:L3:360:ASP:OD1	40:L3:361:THR:N	3.16	0.45
36:1:999:G:C6	36:1:1000:C:N4	2.85	0.45
1:2:755:A:HO2'	1:2:756:A:P	2.40	0.45
36:5:2943:G:N7	36:5:2944:U:C5	2.84	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:47:PRO:HB3	47:M0:171:TRP:CE2	2.51	0.45
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.49	0.45
1:2:25:C:H1'	1:2:26:A:OP2	2.16	0.45
36:1:266:A:P	51:M5:5:LYS:HZ1	2.39	0.45
1:2:221:A:H5''	1:2:833:U:H1'	1.97	0.45
68:O2:82:LEU:HD22	68:O2:117:ILE:HD12	2.77	0.45
34:SR:249:ARG:O	34:SR:251:TRP:N	3.24	0.45
66:O0:70:PHE:O	66:O0:72:GLY:N	2.48	0.45
1:2:1171:A:H2'	1:2:1172:G:C8	2.50	0.45
64:N8:24:LYS:HB2	64:N8:26:ARG:HG2	2.69	0.45
1:6:982:U:OP1	88:6:2073:OHX:N2	2.49	0.45
36:1:2240:G:H2'	36:1:2241:U:O4'	2.16	0.45
36:1:3329:U:O2'	40:L3:363:SER:OG	2.30	0.45
36:1:3143:C:O2'	88:1:3909:OHX:N2	2.49	0.45
3:S1:50:LYS:O	3:S1:52:THR:N	2.48	0.45
4:S2:40:LYS:HA	4:S2:43:ARG:NH1	2.31	0.45
54:M8:162:ALA:HA	54:M8:163:PRO:HD2	1.59	0.45
36:5:372:A:H2'	36:5:373:A:O4'	2.16	0.45
36:5:2372:A:H5''	36:5:2373:A:H5'	1.98	0.45
36:1:2190:U:C4	36:1:2191:U:C4	3.04	0.45
36:1:3229:G:P	50:M4:137:LYS:HZ1	2.39	0.45
29:D7:41:LEU:H	29:D7:41:LEU:HD23	3.21	0.45
52:M6:28:LEU:HD23	52:M6:28:LEU:HA	2.25	0.45
24:D2:9:ASP:OD1	1:6:1036:A:H1'	358.01	0.45
18:C6:25:GLY:H	18:C6:63:ILE:HA	1.81	0.45
14:C2:67:THR:C	14:C2:69:ALA:H	2.20	0.45
36:1:3344:A:H5''	36:1:3345:G:OP2	2.16	0.45
3:S1:181:LEU:O	3:S1:184:LEU:N	2.50	0.45
9:S7:51:VAL:HG11	9:S7:168:SER:HB3	3.82	0.45
23:D1:71:ARG:HD2	23:D1:75:ASN:HD21	1.80	0.45
13:C1:110:HIS:O	13:C1:139:VAL:HG23	2.17	0.45
44:L7:151:ARG:HD2	44:L7:244:ASN:OD1	3.95	0.45
15:C3:134:VAL:O	15:C3:135:LEU:HD23	2.43	0.45
8:S6:177:ARG:NH2	1:6:143:G:N7	311.70	0.45
1:2:284:G:N7	8:S6:188:ARG:NH1	2.64	0.45
63:N7:97:SER:HB3	63:N7:99:GLU:HG3	1.98	0.45
55:M9:101:VAL:HA	55:M9:104:ARG:NH1	2.31	0.45
25:D3:50:LYS:HA	25:D3:102:VAL:O	2.69	0.45
23:D1:1:MET:HB3	23:D1:10:GLU:HB3	4.40	0.45
13:C1:6:THR:CB	13:C1:9:SER:HB3	2.45	0.45
33:E1:88:PRO:HA	33:E1:89:LYS:HA	4.75	0.45
40:L3:97:ARG:NH1	36:5:3244:A:N1	245.09	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2675:C:N4	48:M1:22:SER:HB3	2.31	0.45
45:L8:139:VAL:HG21	45:L8:197:VAL:HG23	2.09	0.45
39:L2:116:VAL:HG11	39:L2:134:VAL:HG11	2.67	0.45
1:2:1389:C:OP1	19:C7:48:ASN:ND2	2.49	0.45
23:D1:32:VAL:HG21	23:D1:60:ARG:NH2	2.31	0.45
36:5:59:G:C4'	36:5:60:A:H4'	2.45	0.45
36:5:1597:C:H5'	36:5:1696:A:H1'	1.97	0.45
1:2:720:G:O2'	1:2:721:U:H5'	2.17	0.45
52:M6:73:PHE:CD1	52:M6:78:ARG:HG2	2.50	0.45
50:M4:103:ILE:HG12	50:M4:106:ARG:HH21	3.06	0.45
46:L9:170:LYS:HD3	46:L9:170:LYS:HA	1.74	0.45
1:2:296:U:H2'	1:2:297:U:C6	2.52	0.45
35:SM:47:ALA:O	35:SM:48:ARG:HB2	4.76	0.45
5:S3:34:TYR:HE2	5:S3:37:VAL:HG13	2.31	0.45
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.51	0.45
55:M9:85:ARG:NH2	36:5:1916:U:H4'	228.86	0.45
53:M7:4:TYR:OH	53:M7:18:ARG:HG3	2.17	0.45
7:S5:177:ILE:HG12	7:S5:180:ARG:NH1	3.50	0.45
1:2:1767:G:OP2	1:2:1770:U:O2'	2.28	0.45
36:1:2764:C:H2'	36:1:2765:C:O4'	2.16	0.45
40:L3:129:ALA:O	36:5:3150:A:H5'	211.54	0.45
1:6:1267:G:H2'	1:6:1268:G:C8	2.52	0.45
36:1:1547:G:OP2	51:M5:105:ARG:NH1	2.48	0.45
36:1:54:C:O2'	36:1:1547:G:H1'	2.16	0.45
36:5:2373:A:N7	36:5:2867:C:H1'	2.31	0.45
36:1:3169:U:H2'	36:1:3170:A:O4'	2.16	0.45
1:2:1385:G:N7	88:2:2132:OHX:N3	2.65	0.45
36:1:1301:A:H4'	36:1:1302:A:O5'	2.16	0.45
10:S8:103:GLN:HB3	10:S8:164:ARG:HG2	1.98	0.45
76:Q0:79:GLU:HA	76:Q0:80:PRO:HD2	1.77	0.45
26:D4:58:PHE:CE2	26:D4:72:PHE:HB3	2.72	0.45
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	1.98	0.45
27:D5:104:ALA:O	27:D5:105:THR:OG1	4.02	0.45
56:N0:101:ALA:O	56:N0:105:THR:HG23	2.16	0.45
1:2:319:U:H1'	1:2:323:A:C4	2.51	0.45
48:M1:116:TYR:CD2	48:M1:122:ILE:HD11	2.51	0.45
1:2:1613:U:OP2	7:S5:84:LYS:HE3	2.16	0.45
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.48	0.45
42:L5:234:ASP:N	42:L5:234:ASP:OD2	2.48	0.45
22:D0:87:HIS:N	22:D0:87:HIS:CD2	3.19	0.45
38:4:93:U:H2'	38:4:94:C:O4'	2.17	0.45
36:5:1093:A:OP1	36:5:1093:A:H4'	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1899:G:N7	88:1:3940:OHX:N3	2.64	0.45
1:6:486:G:O2'	1:6:487:G:H5'	2.17	0.45
16:C4:81:VAL:HG22	16:C4:115:ILE:HB	1.99	0.45
36:1:284:A:OP2	78:Q2:41:ARG:HD2	2.16	0.45
11:S9:132:ARG:O	11:S9:134:ILE:HD12	7.96	0.45
36:5:2440:G:N2	36:5:2508:U:C2	2.85	0.45
14:C2:67:THR:O	14:C2:68:GLU:HB2	2.32	0.45
18:C6:47:LYS:HA	18:C6:47:LYS:HD2	2.13	0.45
13:C1:50:GLU:HG2	13:C1:50:GLU:H	3.71	0.45
8:S6:211:LEU:O	8:S6:215:ARG:HB2	2.16	0.45
1:2:1535:U:H4'	1:2:1535:U:OP1	2.15	0.45
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.99	0.45
34:SR:50:ASP:HB3	34:SR:51:ASP:H	4.26	0.45
25:D3:93:LEU:O	25:D3:96:VAL:HG22	2.16	0.45
41:L4:142:VAL:O	41:L4:144:LYS:N	3.10	0.45
40:L3:3:HIS:H	36:5:2940:A:H62	240.14	0.45
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.28	0.45
58:N2:43:VAL:HG23	58:N2:49:ASN:HB3	2.30	0.45
4:S2:140:ARG:HH22	4:S2:228:ASN:HD21	1.63	0.45
56:N0:12:ARG:HB3	56:N0:24:LEU:HA	1.98	0.45
1:2:711:U:H4'	1:2:712:G:OP1	2.17	0.45
36:1:1554:U:O2'	36:1:1582:C:H5	2.00	0.45
42:L5:54:ARG:HG3	37:7:5:G:O3'	281.67	0.45
59:N3:33:ASN:HD21	59:N3:63:LYS:N	2.13	0.45
55:M9:59:SER:N	36:5:3068:U:OP1	165.17	0.45
1:6:489:C:O2'	1:6:490:C:O5'	2.32	0.45
26:D4:7:ILE:HD11	26:D4:40:LEU:HD22	1.98	0.45
21:C9:30:VAL:O	21:C9:32:GLY:N	2.50	0.45
36:1:13:A:H5''	36:1:13:A:C8	2.50	0.45
1:6:567:A:H2'	1:6:568:G:O4'	2.16	0.45
1:2:585:A:H2'	1:2:586:G:C8	2.51	0.45
6:S4:240:LYS:HE2	6:S4:240:LYS:H	1.81	0.45
1:2:1336:A:O2'	18:C6:123:ARG:HG2	2.16	0.45
36:1:1562:C:O2'	36:1:1563:C:O5'	2.30	0.45
1:2:774:A:H2'	1:2:775:G:O4'	2.16	0.45
4:S2:207:LEU:HA	4:S2:207:LEU:HD23	2.36	0.45
36:5:3078:U:O4'	36:5:3078:U:O2	2.34	0.45
12:C0:59:PHE:CE1	12:C0:62:GLN:HA	2.52	0.45
47:M0:153:ARG:HG3	47:M0:165:ILE:HD12	5.20	0.45
9:S7:111:LYS:O	9:S7:112:ARG:HB2	2.16	0.45
36:1:1615:C:H2'	36:1:1616:U:H6	1.82	0.45
36:5:508:U:H2'	36:5:509:U:C6	2.51	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:107:ALA:HA	40:L3:199:PHE:CD2	2.51	0.45
36:1:3231:U:H2'	36:1:3232:G:C8	2.51	0.45
55:M9:109:TYR:CD2	55:M9:114:LYS:HD2	5.77	0.45
40:L3:376:LYS:HG2	40:L3:380:MET:HG3	2.54	0.45
36:5:3328:G:C2	36:5:3329:U:H1'	2.51	0.45
1:2:698:U:O4	88:2:2097:OHX:N3	2.49	0.45
6:S4:184:THR:C	6:S4:189:LEU:HD13	2.83	0.45
36:1:2816:G:C8	36:1:2869:U:H3'	2.52	0.45
32:E0:44:PHE:O	32:E0:45:VAL:HG23	3.24	0.45
59:N3:27:ASP:HA	59:N3:113:ALA:O	2.43	0.45
1:2:1376:C:N4	1:2:1377:U:O4	2.50	0.45
50:M4:113:THR:HG22	50:M4:115:PHE:N	2.31	0.45
88:5:3981:OHX:N2	88:5:4203:OHX:N1	2.64	0.45
1:2:767:U:H5	11:S9:142:ASN:OD1	1.99	0.45
14:C2:63:VAL:HG11	14:C2:94:ALA:HB2	1.99	0.45
78:Q2:20:HIS:CG	36:5:2741:C:HO2'	216.34	0.45
8:S6:58:LYS:C	8:S6:59:GLN:HE21	3.64	0.45
3:S1:180:THR:HG23	3:S1:183:GLN:OE1	9.40	0.45
2:S0:12:GLU:HG2	2:S0:13:ASP:N	2.32	0.45
9:S7:164:TYR:CZ	9:S7:165:LYS:HE2	3.81	0.45
21:C9:6:VAL:HG13	21:C9:66:TYR:CZ	2.68	0.45
8:S6:211:LEU:HD21	8:S6:215:ARG:HH21	1.81	0.45
36:1:1927:G:OP1	79:Q3:8:VAL:HG13	2.16	0.45
36:5:408:A:H61	38:8:15:G:H1'	1.81	0.45
36:1:2674:A:OP2	88:1:4061:OHX:N3	2.50	0.45
11:S9:172:VAL:HG13	1:6:512:A:OP2	454.45	0.45
42:L5:233:ALA:O	42:L5:236:LEU:HB2	2.82	0.45
35:SM:23:LYS:HA	35:SM:23:LYS:NZ	5.93	0.45
4:S2:140:ARG:HB2	4:S2:222:TYR:CD2	2.83	0.45
1:2:711:U:H1'	1:2:712:G:H5'	1.97	0.45
36:1:2261:G:O2'	36:1:2263:C:N4	2.49	0.45
1:6:1645:G:H22	1:6:1756:A:H2	1.63	0.45
42:L5:34:LYS:HA	57:N1:27:LEU:HD11	1.98	0.45
2:S0:14:ALA:O	2:S0:18:LEU:HG	2.17	0.45
11:S9:61:THR:OG1	11:S9:61:THR:O	2.26	0.45
72:O6:98:ARG:HB3	72:O6:99:ARG:H	4.32	0.45
36:5:1813:A:H2'	36:5:1814:A:H5''	1.98	0.45
9:S7:74:GLN:NE2	9:S7:92:PHE:HB2	2.31	0.45
21:C9:118:PRO:HD2	21:C9:123:ARG:NH2	2.32	0.45
26:D4:86:GLU:OE1	26:D4:90:ARG:NH1	3.64	0.45
61:N5:80:ASN:ND2	61:N5:132:ALA:H	2.14	0.45
36:5:3276:G:OP2	36:5:3276:G:H2'	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1426:C:H5''	35:SM:93:ARG:NH1	2.32	0.45
1:2:1662:G:O2'	1:2:1663:G:H5'	2.17	0.45
36:5:920:A:OP1	36:5:922:U:H5	1.99	0.45
36:1:210:U:C2	36:1:230:U:H4'	2.51	0.45
55:M9:90:PRO:HG2	55:M9:93:VAL:CG2	3.33	0.45
36:5:1176:C:H2'	36:5:1177:G:N2	2.32	0.45
17:C5:128:HIS:HA	1:6:1180:C:O2'	334.46	0.45
71:O5:59:ASN:O	71:O5:63:ARG:HG2	3.95	0.45
36:1:1109:U:H2'	36:1:1110:U:C6	2.51	0.45
41:L4:15:ALA:O	41:L4:16:THR:OG1	2.32	0.45
43:L6:73:GLY:HA3	36:5:3267:A:C4	261.48	0.45
77:Q1:13:LEU:HD13	77:Q1:17:ARG:NH2	3.39	0.45
34:SR:283:LYS:HG3	34:SR:284:ALA:N	4.87	0.45
34:SR:128:ASP:OD1	34:SR:130:THR:OG1	2.64	0.45
36:1:3348:G:H1	36:1:3357:U:H3	1.65	0.45
36:1:2970:C:H4'	36:1:2971:A:N1	2.31	0.45
36:1:306:A:C2	36:1:307:A:C8	3.05	0.45
36:5:166:C:H2'	36:5:167:U:H6	1.81	0.45
36:5:2566:C:H1'	36:5:2576:G:N2	2.31	0.45
55:M9:115:ILE:HG12	55:M9:119:LEU:HD23	1.98	0.45
36:1:422:A:C2	36:1:2363:A:H4'	2.52	0.45
78:Q2:83:LEU:HD23	78:Q2:84:THR:H	2.11	0.45
20:C8:46:VAL:HG21	20:C8:73:MET:HG2	1.99	0.45
1:6:358:U:O2'	1:6:360:A:H5''	2.17	0.45
20:C8:8:GLN:HG3	20:C8:8:GLN:H	1.48	0.45
36:1:1717:U:H2'	36:1:1718:G:C8	2.51	0.45
44:L7:186:HIS:O	44:L7:190:THR:HG23	2.16	0.45
34:SR:136:ILE:H	34:SR:136:ILE:HD13	1.80	0.45
1:6:815:G:H5'	1:6:815:G:H8	1.80	0.45
88:5:4025:OHX:N2	38:8:31:G:OP2	2.50	0.45
6:S4:191:ARG:HH21	6:S4:218:PHE:HB3	1.81	0.45
7:S5:118:LEU:HA	7:S5:121:ILE:HD12	1.97	0.45
53:M7:41:LEU:O	53:M7:45:GLN:HG3	2.17	0.45
40:L3:83:PRO:O	40:L3:165:GLN:HG3	2.17	0.45
34:SR:103:PHE:CZ	34:SR:122:ILE:HD12	3.10	0.45
6:S4:16:HIS:C	6:S4:18:TRP:H	2.20	0.45
41:L4:22:LEU:HA	41:L4:23:PRO:HD3	1.77	0.45
88:5:3976:OHX:N3	88:5:4248:OHX:N5	2.64	0.45
26:D4:91:LEU:O	26:D4:96:LEU:HD12	2.15	0.45
2:S0:140:ASN:OD1	4:S2:62:PRO:HD3	2.17	0.45
49:M3:124:ILE:HD11	49:M3:126:PHE:CZ	2.52	0.45
1:2:1324:G:C6	1:2:1325:A:N7	2.85	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:S6:137:ARG:HH11	1:6:144:U:H5	312.30	0.45
1:6:66:U:O2'	1:6:67:A:H5''	2.16	0.45
8:S6:153:VAL:O	8:S6:155:ASP:N	2.49	0.45
46:L9:73:SER:HA	46:L9:76:ASP:HB2	2.82	0.45
76:Q0:93:LYS:HG3	76:Q0:102:ARG:HG2	1.99	0.45
10:S8:196:LEU:HD12	10:S8:196:LEU:HA	1.73	0.45
20:C8:11:PHE:CZ	20:C8:59:GLY:HA3	4.04	0.45
22:D0:80:GLU:HG2	31:D9:54:LYS:HZ1	4.63	0.45
72:O6:57:LEU:O	72:O6:61:ILE:HG13	2.51	0.45
53:M7:27:LYS:HA	53:M7:63:PHE:CD2	2.52	0.45
36:1:1632:A:H2'	36:1:1633:C:C6	2.51	0.45
36:1:1556:C:H5''	36:1:2169:G:H22	1.82	0.45
71:O5:21:LEU:HD21	71:O5:25:LYS:HE3	4.11	0.45
74:O8:64:LYS:HG3	74:O8:65:LEU:N	5.19	0.45
44:L7:132:PRO:HA	44:L7:229:PHE:CD2	2.57	0.45
2:S0:177:LEU:O	2:S0:181:VAL:HG13	2.24	0.45
35:SM:84:LYS:HZ2	35:SM:86:ASN:HD22	1.64	0.45
57:N1:56:PHE:CE1	57:N1:78:LYS:HD3	2.52	0.45
6:S4:87:MET:HG3	6:S4:226:PHE:CE2	2.51	0.45
77:Q1:21:ARG:NH2	1:6:1118:G:OP2	285.23	0.45
22:D0:108:ILE:HG13	22:D0:108:ILE:H	1.52	0.45
36:1:3159:C:H2'	36:1:3160:U:H6	1.81	0.45
38:4:122:U:H2'	38:4:123:G:H8	1.80	0.45
4:S2:90:THR:C	4:S2:92:ALA:H	2.44	0.45
1:2:1214:U:OP1	1:2:1246:C:H1'	2.17	0.45
1:6:697:C:OP2	88:6:2071:OHX:N5	2.50	0.45
36:5:717:C:H2'	36:5:718:G:O4'	2.17	0.45
1:2:531:C:H1'	26:D4:61:ARG:HD2	1.99	0.45
51:M5:35:VAL:HG23	36:5:1543:G:OP1	140.45	0.45
36:1:1146:C:H4'	36:1:1331:U:C4	2.52	0.45
1:2:1085:G:N2	1:2:1088:A:OP2	2.33	0.45
9:S7:110:GLN:HE21	9:S7:110:GLN:HB3	3.92	0.45
36:5:2882:U:H2'	36:5:2883:U:C6	2.52	0.45
1:2:1231:U:O5'	1:2:1259:U:H1'	2.16	0.45
48:M1:110:ILE:O	48:M1:112:LEU:N	2.49	0.45
36:5:3316:A:H5''	36:5:3318:G:N2	2.31	0.45
36:5:1519:G:H2'	36:5:1520:G:C8	2.52	0.45
7:S5:51:VAL:HG13	7:S5:131:GLN:HB2	1.98	0.45
3:S1:31:ASP:OD2	3:S1:45:LYS:HE2	6.45	0.45
72:O6:5:THR:HG23	72:O6:12:ASN:C	2.36	0.45
16:C4:78:ALA:HB2	16:C4:111:ARG:HB2	2.21	0.45
25:D3:22:ASN:HB3	1:6:609:U:H5	336.46	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1708:U:H2'	1:6:1709:C:C6	2.52	0.45
1:6:1282:U:OP1	88:6:2133:OHX:N4	2.50	0.45
36:5:641:C:H42	36:5:645:A:H8	1.63	0.45
36:1:2838:A:C2	36:1:2839:G:H1'	2.52	0.45
1:6:820:U:H5''	1:6:821:U:OP2	2.16	0.45
36:1:712:G:H2'	36:1:713:U:C6	2.52	0.45
34:SR:19:TRP:CD2	34:SR:306:THR:HG22	2.56	0.45
36:1:810:A:H2'	36:1:811:U:C6	2.51	0.45
36:5:2514:U:OP1	36:5:2514:U:C6	2.69	0.45
45:L8:140:VAL:HG21	51:M5:3:ALA:HB2	2.34	0.45
50:M4:40:ASP:HA	56:N0:143:PHE:CE1	3.75	0.45
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.17	0.45
3:S1:121:ILE:HG23	3:S1:161:ILE:HG23	1.98	0.45
36:1:1951:C:H5'	36:1:1952:G:OP1	2.16	0.45
19:C7:5:ARG:O	19:C7:10:LYS:HE2	2.33	0.45
1:2:1489:U:H5'	1:2:1494:C:H1'	1.98	0.45
10:S8:42:ARG:NH1	1:6:1677:C:OP1	262.77	0.45
26:D4:91:LEU:HA	26:D4:91:LEU:HD22	3.05	0.45
36:1:2107:A:C2	36:1:3344:A:H8	2.35	0.45
3:S1:182:ALA:O	3:S1:185:THR:HB	2.16	0.45
9:S7:166:LEU:HD12	9:S7:183:PHE:CD2	4.13	0.45
23:D1:74:GLN:O	23:D1:77:GLY:N	3.10	0.45
19:C7:21:TYR:HE2	19:C7:61:ILE:HG21	2.22	0.45
59:N3:57:MET:HE3	59:N3:126:TRP:CH2	5.67	0.45
36:5:1805:C:H2'	36:5:1806:A:C8	2.52	0.45
1:6:168:A:C6	1:6:169:A:N6	2.85	0.45
47:M0:36:LEU:CD1	47:M0:87:LEU:HB3	2.74	0.45
27:D5:70:LYS:HD3	27:D5:70:LYS:HA	1.75	0.45
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.81	0.45
55:M9:104:ARG:NH1	36:5:1949:G:H5''	217.01	0.45
34:SR:9:LEU:HG	34:SR:10:ARG:N	2.32	0.45
7:S5:149:VAL:HG12	7:S5:156:ARG:O	3.32	0.45
36:1:435:C:H2'	36:1:436:A:C8	2.51	0.45
1:2:386:G:N3	1:2:425:A:H2	2.14	0.45
64:N8:77:LYS:HD3	64:N8:77:LYS:HA	1.66	0.45
1:6:1469:A:H2'	1:6:1470:C:C6	2.52	0.45
37:7:8:G:C6	37:7:9:C:C4	3.04	0.45
2:S0:57:LEU:HD12	2:S0:173:ILE:HG23	3.06	0.45
60:N4:30:ARG:HH11	60:N4:30:ARG:HG2	1.82	0.45
12:C0:54:TYR:CZ	12:C0:75:TYR:HB2	3.61	0.45
52:M6:181:ALA:O	52:M6:183:ALA:N	2.50	0.45
26:D4:89:TYR:O	26:D4:93:ARG:HG3	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:L6:170:LYS:O	43:L6:173:MET:HB2	2.49	0.45
45:L8:153:ILE:HD13	45:L8:166:LEU:HB3	2.55	0.45
10:S8:155:SER:O	10:S8:159:GLN:HG3	2.17	0.45
44:L7:118:LYS:HG3	44:L7:191:VAL:CG1	2.47	0.45
36:5:370:U:H1'	36:5:403:C:C2	2.51	0.45
1:2:524:U:H1'	1:2:527:A:N7	2.31	0.45
74:O8:70:PRO:HB2	74:O8:73:LEU:HB2	1.99	0.45
5:S3:200:LYS:HB3	5:S3:200:LYS:HE2	4.26	0.45
1:2:1349:G:H2'	1:2:1350:U:H6	1.82	0.45
53:M7:18:ARG:HG3	53:M7:147:GLU:HB3	3.52	0.45
36:5:626:U:O4	88:5:3986:OHX:N4	2.49	0.45
36:5:1070:U:O4	88:5:4115:OHX:N6	2.50	0.45
60:N4:9:SER:HB2	60:N4:51:TRP:CZ3	2.52	0.45
1:6:819:G:O2'	1:6:821:U:OP2	2.34	0.45
61:N5:64:GLU:O	61:N5:65:GLN:HB2	3.58	0.45
50:M4:96:ALA:O	50:M4:101:LYS:HE3	2.16	0.45
36:5:29:C:H4'	36:5:62:A:H4'	1.98	0.45
36:1:1415:U:H2'	36:1:1416:C:O4'	2.17	0.45
63:N7:109:GLU:O	63:N7:112:LYS:HB2	2.17	0.45
31:D9:10:HIS:CG	31:D9:11:PRO:HD2	2.52	0.45
36:5:734:C:H2'	36:5:735:A:O4'	2.17	0.45
41:L4:286:VAL:HA	41:L4:289:ILE:HG13	2.34	0.45
36:5:2830:G:H1'	36:5:2861:U:C2	2.52	0.45
36:1:26:A:C4	36:1:330:G:C8	3.05	0.45
47:M0:52:LEU:HA	47:M0:52:LEU:HD23	1.80	0.45
66:O0:56:LEU:HA	66:O0:56:LEU:HD23	2.07	0.45
36:1:3330:A:H2'	36:1:3331:U:H6	1.82	0.45
1:6:939:A:H2'	1:6:940:A:C8	2.52	0.45
36:1:1105:A:H2'	36:1:1106:G:C8	2.52	0.45
1:2:915:A:H2'	1:2:915:A:N3	2.32	0.45
88:5:3976:OHX:N1	88:5:4248:OHX:N5	2.64	0.45
78:Q2:3:ASN:O	36:5:2655:U:H2'	238.91	0.45
9:S7:57:ALA:HA	9:S7:89:HIS:O	2.16	0.45
48:M1:92:ARG:HH21	48:M1:94:ARG:HD2	8.58	0.45
14:C2:43:ARG:HA	14:C2:121:VAL:HG12	1.99	0.45
3:S1:46:THR:OG1	3:S1:47:LEU:N	4.04	0.45
70:O4:22:VAL:HG12	70:O4:23:VAL:N	2.31	0.45
46:L9:7:GLU:HA	46:L9:68:LEU:HD11	2.13	0.45
24:D2:37:PHE:CE2	24:D2:103:ILE:HD12	2.52	0.45
53:M7:31:GLU:CG	53:M7:60:PHE:HA	3.38	0.45
1:2:1601:G:O5'	21:C9:90:PRO:HG2	2.16	0.45
1:2:1645:G:H22	1:2:1756:A:H2	1.65	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:L8:101:THR:HG22	45:L8:104:GLU:CG	2.47	0.45
74:O8:12:LEU:HA	74:O8:12:LEU:HD13	2.76	0.45
57:N1:28:SER:OG	37:7:9:C:OP1	267.22	0.45
2:S0:198:MET:SD	19:C7:88:VAL:HG23	2.84	0.45
1:2:886:U:H2'	1:2:887:A:O4'	2.17	0.45
42:L5:140:ARG:HB2	42:L5:140:ARG:HH21	1.82	0.45
67:O1:52:ALA:O	67:O1:55:LEU:N	2.48	0.45
1:2:1000:C:H2'	1:2:1002:G:OP2	2.17	0.45
35:SM:113:ASP:O	35:SM:116:GLU:HB2	2.17	0.45
1:6:1673:G:C5	1:6:1674:C:C5	3.04	0.45
1:2:505:A:N3	1:2:505:A:H2'	2.31	0.45
26:D4:23:PHE:HE2	26:D4:75:VAL:HG12	1.82	0.45
36:1:650:C:H2'	36:1:651:G:C8	2.52	0.45
44:L7:179:LEU:HD22	44:L7:179:LEU:H	2.14	0.45
54:M8:147:ARG:O	54:M8:150:VAL:HG22	2.32	0.45
48:M1:75:LYS:HE2	48:M1:75:LYS:HB3	4.42	0.45
63:N7:14:VAL:HG12	63:N7:79:HIS:HA	1.99	0.45
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	1.98	0.45
36:5:776:U:C5	36:5:2719:U:O2	2.69	0.45
36:1:1131:G:C4	36:1:2373:A:C2	3.05	0.45
5:S3:167:PHE:O	5:S3:190:ARG:HG2	2.28	0.45
69:O3:13:HIS:HE2	69:O3:28:SER:HG	1.64	0.45
23:D1:46:ILE:HD12	23:D1:46:ILE:H	4.69	0.45
6:S4:160:VAL:HG11	6:S4:169:ILE:HG12	2.69	0.45
9:S7:98:ILE:HG12	9:S7:121:VAL:HG21	1.99	0.45
36:5:1502:C:OP2	88:5:3915:OHX:N3	2.50	0.45
40:L3:209:PHE:HB3	40:L3:282:ILE:HD12	2.14	0.45
36:1:1273:A:O2'	36:1:1274:A:OP1	2.30	0.45
1:6:920:U:H2'	1:6:921:U:O4'	2.16	0.45
36:5:2733:A:H2'	36:5:2734:A:O4'	2.17	0.45
1:2:872:G:N2	1:2:1047:G:H4'	2.32	0.45
51:M5:165:THR:O	51:M5:169:LYS:HG3	2.17	0.45
35:SM:97:THR:HG22	35:SM:99:LYS:HG3	1.98	0.45
49:M3:159:VAL:HA	64:N8:124:ILE:HD11	3.01	0.45
1:6:1613:U:H6	1:6:1613:U:O5'	2.00	0.45
38:4:144:G:O2'	38:4:145:U:H5'	2.17	0.45
34:SR:273:ASP:CG	34:SR:275:ARG:HH22	2.20	0.45
36:1:1161:G:H5'	36:1:1365:G:O2'	2.16	0.45
36:5:3195:U:H4'	36:5:3196:U:OP2	2.16	0.45
50:M4:49:PRO:HG3	50:M4:78:THR:HG23	3.13	0.45
1:2:555:A:C6	1:2:556:A:N1	2.85	0.45
51:M5:51:LEU:CD1	51:M5:119:TYR:HB3	2.81	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:80:MET:HE2	17:C5:83:MET:HB2	1.98	0.45
1:2:332:U:OP2	10:S8:56:ARG:NH2	2.50	0.45
54:M8:100:THR:CG2	54:M8:120:GLU:HB3	2.47	0.45
1:2:1101:G:H5'	24:D2:76:SER:HB3	1.99	0.45
3:S1:172:LEU:HD23	3:S1:172:LEU:HA	1.78	0.45
66:O0:100:ILE:HD12	66:O0:101:LEU:H	1.81	0.45
19:C7:113:LEU:HG	19:C7:114:GLY:N	2.32	0.45
26:D4:37:LYS:HE3	1:6:523:G:OP2	413.65	0.45
36:5:839:C:H4'	36:5:1724:U:H2'	1.98	0.45
36:5:1724:U:H1'	36:5:1725:C:C6	2.52	0.45
63:N7:4:PHE:CE2	66:O0:35:ARG:HA	2.51	0.45
40:L3:88:GLY:O	40:L3:161:LEU:N	2.38	0.45
36:5:848:A:C5	36:5:849:C:H1'	2.52	0.45
34:SR:211:ILE:HG22	34:SR:223:TRP:CD1	2.52	0.45
1:6:1541:G:C5	1:6:1542:G:C6	3.05	0.45
36:5:1348:U:O4'	36:5:1355:A:N6	2.50	0.45
33:E1:136:LYS:O	33:E1:138:ARG:HB2	2.17	0.45
52:M6:41:LEU:O	52:M6:138:LEU:HB2	2.89	0.45
9:S7:60:ILE:HD12	9:S7:92:PHE:CZ	2.52	0.45
6:S4:86:PHE:HE1	6:S4:226:PHE:CD2	2.35	0.45
33:E1:119:ARG:HG2	33:E1:119:ARG:H	1.56	0.45
10:S8:152:ILE:HD13	10:S8:157:GLU:OE1	2.17	0.45
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.40	0.45
88:5:4014:OHX:N6	88:5:4205:OHX:N2	2.65	0.45
36:5:1597:C:H2'	36:5:1598:G:C8	2.52	0.45
46:L9:29:GLY:HA3	46:L9:82:VAL:HG13	2.06	0.45
67:O1:12:TYR:O	67:O1:73:LEU:N	2.92	0.45
36:1:3316:A:O2'	36:1:3317:U:OP2	2.22	0.45
1:6:1595:U:H3	1:6:1600:A:H2	1.62	0.45
36:1:1162:U:H4'	68:O2:57:TYR:CD1	2.52	0.45
36:5:3006:A:H2'	36:5:3007:U:O4'	2.17	0.45
36:5:766:U:H4'	36:5:767:U:O5'	2.17	0.45
36:5:1131:G:C4	36:5:2373:A:C2	3.05	0.45
1:2:1015:U:OP1	88:2:2045:OHX:N3	2.50	0.45
56:N0:132:THR:O	56:N0:133:ALA:HB3	2.17	0.45
36:5:1063:G:H2'	36:5:1097:G:N2	2.32	0.45
5:S3:42:THR:OG1	5:S3:44:THR:O	5.20	0.45
3:S1:116:LYS:HB3	3:S1:117:TRP:CD1	3.60	0.45
42:L5:191:ASP:HA	42:L5:192:PRO:HD3	1.91	0.45
36:1:530:G:H2'	36:1:531:G:O4'	2.17	0.45
36:5:1563:C:O2	36:5:1577:G:N2	2.50	0.45
18:C6:87:LYS:HA	18:C6:90:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:S3:202:LEU:O	5:S3:204:ASP:N	3.23	0.45
78:Q2:104:LEU:HA	78:Q2:104:LEU:HD12	1.71	0.45
64:N8:112:ILE:HA	64:N8:112:ILE:HD13	1.72	0.45
31:D9:43:PHE:O	31:D9:47:ALA:N	2.68	0.45
34:SR:122:ILE:HB	34:SR:134:TRP:HB2	2.67	0.45
88:5:3981:OHX:N4	88:5:4203:OHX:N3	2.65	0.45
42:L5:269:SER:O	42:L5:272:TYR:HD2	3.63	0.45
43:L6:31:ARG:O	43:L6:33:SER:N	2.86	0.45
2:S0:118:PRO:HG2	2:S0:141:ILE:HD13	2.15	0.45
52:M6:124:LEU:HD23	56:N0:168:PRO:HG3	2.21	0.45
8:S6:70:PRO:HD2	8:S6:71:THR:HG23	1.98	0.45
3:S1:131:ASP:O	3:S1:133:TYR:N	2.41	0.45
47:M0:68:ALA:HB1	47:M0:155:ALA:HB1	2.25	0.45
28:D6:7:SER:HG	1:6:1796:C:H6	339.98	0.45
36:1:785:G:OP2	54:M8:66:ARG:NH1	2.50	0.45
36:1:1306:G:C6	52:M6:62:THR:HA	2.52	0.45
15:C3:87:ASP:OD2	15:C3:129:TYR:OH	2.79	0.45
8:S6:173:PRO:O	1:6:79:C:H4'	344.45	0.45
42:L5:33:ARG:HD2	37:7:7:G:OP1	271.56	0.45
62:N6:124:GLY:C	62:N6:126:LEU:H	4.95	0.45
1:2:1410:A:H2'	1:2:1411:A:O4'	2.17	0.45
21:C9:93:HIS:O	21:C9:94:ILE:HD13	3.15	0.45
64:N8:75:LEU:O	64:N8:77:LYS:N	2.84	0.45
9:S7:31:SER:N	9:S7:32:PRO:HD2	3.99	0.45
2:S0:9:LEU:HD13	2:S0:10:THR:O	2.43	0.45
68:O2:47:ARG:HG2	68:O2:48:GLY:N	2.32	0.45
1:2:861:U:H5'	1:2:862:A:OP2	2.17	0.45
12:C0:77:ARG:HA	12:C0:82:LEU:CD1	2.47	0.45
38:8:154:C:H2'	38:8:155:A:O4'	2.17	0.45
39:L2:116:VAL:HG22	39:L2:126:LEU:HD12	1.98	0.45
24:D2:18:GLU:HG3	24:D2:69:LEU:HD23	2.27	0.45
24:D2:38:LEU:HD23	24:D2:41:MET:CE	2.71	0.45
14:C2:59:LEU:HD23	14:C2:60:VAL:N	2.32	0.45
44:L7:191:VAL:HG12	44:L7:192:GLY:N	3.83	0.45
70:O4:11:ASN:HA	70:O4:12:PRO:HD3	1.58	0.45
8:S6:199:GLN:O	8:S6:203:GLU:HG3	3.30	0.45
55:M9:86:GLU:OE2	55:M9:91:SER:N	2.40	0.45
46:L9:34:LEU:HD21	46:L9:149:ASN:CB	2.47	0.45
62:N6:58:VAL:HA	62:N6:104:LEU:HD23	1.99	0.45
88:8:218:OHX:N2	88:8:225:OHX:N1	2.65	0.45
36:1:730:C:H2'	36:1:731:U:C6	2.52	0.45
36:1:3321:C:H2'	36:1:3322:A:H8	1.81	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:M5:118:SER:HB3	51:M5:132:VAL:HG22	2.18	0.45
36:1:1540:U:OP1	88:1:4031:OHX:N1	2.50	0.45
39:L2:107:VAL:HB	39:L2:111:THR:OG1	2.17	0.45
36:5:1393:A:C8	36:5:1418:A:C6	3.05	0.45
36:5:3056:U:OP2	88:5:3944:OHX:N2	2.49	0.45
11:S9:42:ILE:O	11:S9:46:SER:OG	2.35	0.45
51:M5:57:GLN:HB3	51:M5:139:HIS:NE2	3.28	0.45
36:5:1621:A:H2'	36:5:1622:U:C6	2.52	0.45
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.75	0.45
11:S9:150:LEU:HD12	11:S9:150:LEU:HA	2.09	0.45
36:1:415:G:H2'	36:1:416:A:C8	2.53	0.45
36:5:2668:U:H2'	36:5:2669:G:C8	2.52	0.45
68:O2:37:GLY:HA3	36:5:639:G:P	185.26	0.45
12:C0:23:ALA:O	12:C0:24:LYS:HB3	4.58	0.45
36:1:796:U:H2'	36:1:797:U:C6	2.52	0.45
61:N5:92:LYS:HE3	36:5:1831:U:OP2	104.37	0.45
10:S8:136:SER:HB2	10:S8:139:ALA:HB3	3.70	0.45
78:Q2:55:LYS:NZ	91:Q2:503:C:O2	2.81	0.45
8:S6:1:MET:N	8:S6:18:ILE:O	2.50	0.45
36:1:3042:U:OP2	36:1:3092:C:N4	2.46	0.45
9:S7:104:ARG:HG2	9:S7:104:ARG:H	1.53	0.45
20:C8:60:GLU:H	20:C8:60:GLU:HG2	1.50	0.45
68:O2:6:HIS:HA	68:O2:7:PRO:HD2	3.03	0.45
45:L8:178:ALA:HB2	45:L8:218:ILE:HG23	2.11	0.45
36:1:2777:G:H5''	36:1:2778:G:OP1	2.17	0.45
1:6:675:U:H2'	1:6:676:G:C8	2.52	0.45
4:S2:150:GLN:HA	4:S2:151:PRO:HD3	1.90	0.45
36:5:621:A:H2'	36:5:622:A:H8	1.78	0.44
36:1:1211:U:H2'	36:1:1212:A:C8	2.53	0.44
88:5:3981:OHX:N6	88:5:4203:OHX:N3	2.65	0.44
11:S9:133:HIS:HB3	11:S9:162:SER:HB2	4.97	0.44
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.38	0.44
13:C1:132:SER:O	13:C1:132:SER:OG	3.26	0.44
31:D9:30:LEU:HA	31:D9:39:CYS:HA	2.32	0.44
23:D1:78:LEU:HD12	23:D1:78:LEU:HA	4.52	0.44
63:N7:135:ARG:HG2	63:N7:135:ARG:HH21	1.81	0.44
11:S9:95:TYR:O	11:S9:98:ALA:HB3	2.16	0.44
40:L3:232:ARG:HG2	40:L3:233:TRP:CD1	2.61	0.44
2:S0:190:ASP:C	2:S0:192:THR:H	4.84	0.44
40:L3:257:PRO:O	40:L3:259:HIS:N	2.44	0.44
62:N6:47:ALA:O	62:N6:122:LYS:NZ	3.34	0.44
36:1:2898:G:H5''	36:1:2899:C:C5'	2.47	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:M7:62:ARG:O	53:M7:64:ASN:N	2.51	0.44
1:2:1474:G:H2'	1:2:1475:A:C8	2.52	0.44
34:SR:22:SER:OG	34:SR:70:ASP:HA	2.48	0.44
10:S8:162:ALA:HA	36:1:3353:G:C5'	2.47	0.44
36:5:2147:A:H2'	36:5:2148:U:O4'	2.17	0.44
53:M7:139:TYR:CZ	36:5:2355:G:H4'	146.71	0.44
45:L8:214:LEU:HA	45:L8:214:LEU:HD12	1.96	0.44
10:S8:8:ARG:HG3	10:S8:8:ARG:O	2.17	0.44
12:C0:45:ALA:O	12:C0:49:LEU:HD23	2.54	0.44
49:M3:128:ARG:NH1	36:5:170:G:OP1	36.42	0.44
61:N5:136:ALA:O	61:N5:139:ILE:HG23	2.17	0.44
36:1:1915:A:H5''	55:M9:84:THR:HG22	1.99	0.44
33:E1:98:VAL:HG22	33:E1:99:LYS:H	1.81	0.44
33:E1:98:VAL:HG13	33:E1:99:LYS:N	2.32	0.44
1:6:1625:C:H2'	1:6:1626:U:C6	2.52	0.44
25:D3:108:GLY:O	25:D3:109:ARG:HG2	2.17	0.44
6:S4:195:ILE:O	6:S4:210:ILE:HA	4.88	0.44
61:N5:105:VAL:HA	61:N5:130:TYR:CE2	2.55	0.44
36:5:1021:G:N1	36:5:1032:C:O2	2.49	0.44
41:L4:264:SER:C	41:L4:266:THR:H	2.31	0.44
5:S3:192:PRO:O	5:S3:195:SER:OG	4.36	0.44
36:1:2213:A:N1	36:1:2429:G:H1'	2.32	0.44
15:C3:54:LEU:O	15:C3:60:VAL:HB	2.17	0.44
72:O6:43:LEU:HD22	72:O6:43:LEU:HA	2.37	0.44
63:N7:87:LEU:HB2	63:N7:127:ASN:ND2	2.32	0.44
52:M6:14:HIS:HE1	52:M6:119:VAL:HG12	1.99	0.44
36:1:1668:G:C6	36:1:1669:C:C4	3.06	0.44
61:N5:108:LEU:HA	61:N5:108:LEU:HD22	2.66	0.44
1:2:1746:A:H2'	1:2:1747:G:O4'	2.16	0.44
36:5:1245:A:H5'	36:5:1247:U:OP2	2.17	0.44
36:5:123:A:C6	36:5:150:A:C5	3.05	0.44
1:2:1573:A:H4'	1:2:1574:G:H5'	1.98	0.44
1:6:974:A:H2'	1:6:975:C:O4'	2.17	0.44
1:2:1396:U:H2'	1:2:1397:U:C6	2.52	0.44
36:5:736:A:C5	36:5:737:G:H1'	2.52	0.44
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.50	0.44
1:2:1335:U:H3	1:2:1416:G:H1	1.64	0.44
44:L7:101:LYS:HD3	44:L7:101:LYS:C	2.37	0.44
42:L5:92:LEU:HD23	42:L5:92:LEU:HA	2.55	0.44
67:O1:97:LEU:HD22	67:O1:97:LEU:HA	2.69	0.44
1:2:812:A:OP1	1:2:814:A:C8	2.70	0.44
1:2:768:C:C2	11:S9:143:ILE:HG12	2.52	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:53:MET:HE1	36:5:3047:U:O2'	235.57	0.44
36:5:3046:A:H2'	36:5:3047:U:O4'	2.18	0.44
3:S1:127:VAL:HG13	3:S1:176:VAL:HG11	1.98	0.44
26:D4:108:ARG:NH2	1:6:444:C:OP2	373.55	0.44
19:C7:46:LEU:O	19:C7:50:ILE:HG13	2.17	0.44
1:6:825:U:O2'	1:6:826:U:P	2.75	0.44
51:M5:143:ARG:HH21	71:O5:92:LEU:HA	2.01	0.44
17:C5:70:ASN:O	17:C5:71:GLU:HG2	4.29	0.44
36:5:1208:U:H6	36:5:3115:C:H42	1.63	0.44
1:6:188:A:H3'	1:6:189:C:H6	1.83	0.44
4:S2:108:ASN:HA	4:S2:141:ARG:HH12	1.81	0.44
11:S9:145:SER:HB2	1:6:474:A:OP1	419.43	0.44
20:C8:129:TRP:O	35:SM:68:ARG:HB2	3.13	0.44
59:N3:87:ARG:HB2	59:N3:89:ASP:OD1	2.48	0.44
55:M9:38:ARG:HH21	36:5:1603:A:P	111.14	0.44
64:N8:91:LEU:HA	64:N8:121:VAL:HG21	1.98	0.44
1:6:1541:G:C6	1:6:1542:G:C6	3.05	0.44
43:L6:155:LEU:HD23	43:L6:155:LEU:HA	1.78	0.44
57:N1:27:LEU:O	57:N1:28:SER:C	3.04	0.44
12:C0:69:THR:O	12:C0:73:VAL:HG23	2.17	0.44
9:S7:15:GLU:O	9:S7:19:GLN:HG3	2.91	0.44
1:2:279:G:N7	1:2:281:G:C8	2.86	0.44
40:L3:169:THR:HG23	40:L3:170:PRO:N	2.83	0.44
5:S3:74:GLN:NE2	5:S3:81:PRO:HG3	2.32	0.44
11:S9:114:TYR:HA	11:S9:119:ALA:HB3	2.09	0.44
17:C5:15:HIS:CG	17:C5:16:SER:N	3.05	0.44
88:2:2044:OHX:N4	88:2:2099:OHX:N6	2.65	0.44
36:5:998:A:H2	36:5:1051:U:O4	1.99	0.44
36:1:2947:G:C2	40:L3:250:ALA:HB1	2.53	0.44
15:C3:26:PHE:CE2	15:C3:28:LEU:HB2	2.75	0.44
36:5:2718:U:OP2	88:5:4071:OHX:N6	2.49	0.44
13:C1:112:SER:C	13:C1:114:ALA:H	2.20	0.44
46:L9:188:THR:O	46:L9:189:GLU:HB2	4.43	0.44
73:O7:2:GLY:O	73:O7:7:SER:HB3	2.22	0.44
36:1:3305:A:OP1	40:L3:334:ARG:NH2	2.48	0.44
25:D3:87:VAL:HA	25:D3:88:PRO:HD3	1.73	0.44
36:1:2664:C:O2'	36:1:2665:U:H5'	2.17	0.44
67:O1:16:LEU:HD12	67:O1:16:LEU:HA	1.59	0.44
40:L3:82:PRO:HA	40:L3:83:PRO:HD2	1.65	0.44
36:1:329:U:H4'	36:1:330:G:OP2	2.17	0.44
11:S9:148:VAL:HG12	11:S9:150:LEU:H	1.83	0.44
68:O2:72:LYS:O	68:O2:92:TYR:HA	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1224:A:C6	1:6:1225:U:C4	3.04	0.44
50:M4:50:LYS:HD2	50:M4:91:CYS:SG	6.70	0.44
1:2:1017:U:H2'	1:2:1018:U:C6	2.51	0.44
8:S6:210:GLN:HB3	8:S6:214:LYS:NZ	2.32	0.44
38:4:35:C:H5''	73:O7:70:VAL:HG11	1.99	0.44
41:L4:150:LEU:HD11	41:L4:172:VAL:HG12	1.99	0.44
67:O1:17:HIS:CG	67:O1:69:TYR:HD1	2.34	0.44
11:S9:63:ASP:O	11:S9:66:ASP:N	2.89	0.44
74:O8:49:SER:OG	36:5:1825:G:OP1	134.93	0.44
44:L7:152:GLY:O	44:L7:163:LEU:HG	2.17	0.44
47:M0:93:PRO:HA	47:M0:126:ALA:O	2.51	0.44
47:M0:19:LYS:HE3	47:M0:26:VAL:HG22	3.41	0.44
39:L2:137:ILE:HG23	39:L2:147:ARG:O	5.47	0.44
11:S9:28:LEU:HD23	11:S9:28:LEU:HA	1.98	0.44
15:C3:53:LEU:HA	15:C3:53:LEU:HD12	1.79	0.44
34:SR:302:PHE:CD2	34:SR:302:PHE:N	2.84	0.44
36:5:2258:U:H2'	36:5:2259:A:O4'	2.18	0.44
36:5:1039:U:H2'	36:5:1040:A:C8	2.51	0.44
36:5:2529:A:H2'	36:5:2530:G:O4'	2.17	0.44
1:2:1553:G:N2	1:2:1555:A:H3'	2.32	0.44
40:L3:188:ILE:O	40:L3:192:VAL:HG12	2.17	0.44
6:S4:29:PRO:O	6:S4:30:ARG:HB3	4.65	0.44
36:5:1553:U:H1'	36:5:1554:U:H5	1.81	0.44
36:1:1952:G:H3'	36:1:1953:G:H5''	1.99	0.44
3:S1:70:LEU:HA	3:S1:73:LEU:HD23	2.22	0.44
1:2:767:U:H5	11:S9:142:ASN:H	1.65	0.44
51:M5:106:VAL:O	51:M5:109:ARG:N	2.49	0.44
78:Q2:10:THR:O	78:Q2:20:HIS:HA	2.38	0.44
1:2:1331:A:H8	1:2:1331:A:O5'	2.01	0.44
28:D6:4:LYS:HG3	28:D6:4:LYS:O	2.16	0.44
18:C6:11:GLY:HA2	18:C6:83:GLN:HE21	1.82	0.44
7:S5:29:ILE:HG22	7:S5:34:GLN:HG2	1.99	0.44
61:N5:115:ARG:HH11	61:N5:115:ARG:HG3	1.82	0.44
34:SR:243:LEU:HD23	34:SR:254:ALA:HA	1.99	0.44
1:2:1009:U:H2'	1:2:1010:C:C6	2.51	0.44
1:6:846:G:H2'	1:6:847:A:H8	1.82	0.44
47:M0:16:PRO:C	47:M0:18:PRO:HD3	2.37	0.44
71:O5:93:THR:HG23	71:O5:96:GLU:CD	2.38	0.44
47:M0:190:VAL:HG13	47:M0:197:VAL:CG2	2.47	0.44
33:E1:95:HIS:CG	33:E1:96:LYS:H	2.84	0.44
2:S0:188:LEU:HD12	2:S0:189:VAL:HB	2.00	0.44
22:D0:20:ILE:HD13	22:D0:22:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:261:MET:HE2	52:M6:63:ALA:C	2.38	0.44
3:S1:160:HIS:O	3:S1:164:ILE:HG13	2.35	0.44
36:1:911:C:H5''	39:L2:15:ILE:HD13	1.99	0.44
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.51	0.44
44:L7:217:PRO:O	88:5:4005:OHX:N6	259.63	0.44
58:N2:47:VAL:C	58:N2:49:ASN:N	3.21	0.44
1:2:1560:U:C4	1:2:1561:U:C4	3.05	0.44
7:S5:194:LEU:HD22	7:S5:194:LEU:HA	1.81	0.44
36:5:1580:A:HO2'	36:5:1581:C:P	2.39	0.44
1:2:778:G:H1	26:D4:10:ARG:NH1	2.15	0.44
43:L6:149:ILE:HG23	43:L6:155:LEU:HB3	1.98	0.44
48:M1:141:ARG:NH2	48:M1:144:CYS:O	2.33	0.44
2:S0:61:ALA:HA	2:S0:181:VAL:HG12	2.12	0.44
10:S8:8:ARG:HH22	10:S8:21:PHE:H	1.63	0.44
35:SM:58:GLU:OE2	35:SM:62:ARG:HD2	4.12	0.44
46:L9:38:LEU:HD13	46:L9:71:VAL:HG22	3.79	0.44
4:S2:98:PHE:CE1	35:SM:116:GLU:HG3	2.52	0.44
19:C7:30:THR:HG22	34:SR:127:ARG:HH22	3.33	0.44
13:C1:75:VAL:CG1	13:C1:120:GLY:H	2.30	0.44
51:M5:49:ARG:NH1	36:5:149:U:OP1	101.19	0.44
22:D0:102:ARG:O	22:D0:106:ILE:HG22	2.18	0.44
49:M3:16:LYS:HE3	51:M5:195:ASN:OD1	2.18	0.44
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	1.99	0.44
64:N8:40:HIS:CD2	64:N8:41:HIS:CE1	3.05	0.44
62:N6:56:VAL:HG22	62:N6:104:LEU:HB3	1.98	0.44
36:1:817:A:C4	73:O7:13:ASN:O	2.71	0.44
36:5:2799:A:H5''	36:5:2800:G:O5'	2.17	0.44
13:C1:128:CYS:O	13:C1:129:ARG:HB3	4.22	0.44
36:1:1947:G:H1	36:1:2101:C:H42	1.64	0.44
66:O0:24:THR:CG2	66:O0:91:SER:HB3	2.71	0.44
61:N5:108:LEU:HD12	61:N5:125:ARG:HD2	1.99	0.44
68:O2:72:LYS:HB2	68:O2:92:TYR:CE1	3.09	0.44
1:2:1555:A:P	17:C5:47:ARG:HH21	2.40	0.44
36:1:1204:A:H2	36:1:2834:G:N3	2.15	0.44
9:S7:96:ARG:NH1	9:S7:128:ASP:OD2	2.30	0.44
46:L9:129:ARG:O	46:L9:132:VAL:HG13	2.83	0.44
34:SR:314:GLN:HG3	34:SR:315:VAL:N	3.60	0.44
5:S3:32:GLU:O	5:S3:52:ALA:HB1	2.18	0.44
36:5:731:U:H2'	36:5:732:C:C6	2.53	0.44
36:1:1701:C:H2'	36:1:1702:U:O4'	2.17	0.44
64:N8:73:LEU:HB2	64:N8:109:TYR:CD2	2.53	0.44
36:5:783:A:OP2	88:5:4198:OHX:N6	2.51	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1185:C:OP1	50:M4:42:LYS:HE2	2.18	0.44
45:L8:32:LYS:HD3	45:L8:32:LYS:HA	4.30	0.44
70:O4:64:THR:OG1	70:O4:64:THR:O	2.30	0.44
36:1:2157:G:O6	39:L2:152:SER:HB3	2.16	0.44
10:S8:166:TYR:O	10:S8:183:ILE:HD12	6.35	0.44
36:5:2505:U:H2'	36:5:2506:U:C5	2.53	0.44
50:M4:113:THR:CG2	50:M4:116:GLU:H	3.02	0.44
54:M8:99:THR:HB	54:M8:100:THR:H	1.47	0.44
88:5:3976:OHX:N4	88:5:4248:OHX:N2	2.66	0.44
3:S1:149:GLN:NE2	1:6:1066:C:H4'	341.03	0.44
3:S1:145:LYS:HG2	3:S1:149:GLN:HB3	3.20	0.44
3:S1:187:LYS:O	3:S1:190:PRO:HD2	2.16	0.44
4:S2:166:THR:HG23	4:S2:201:ASN:HB3	2.00	0.44
23:D1:78:LEU:O	23:D1:79:LEU:HD23	2.37	0.44
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.82	0.44
47:M0:16:PRO:HD3	47:M0:128:ARG:NH1	2.32	0.44
1:6:82:U:H2'	1:6:83:G:O4'	2.17	0.44
1:2:582:U:H3'	1:2:583:C:H6	1.83	0.44
49:M3:57:VAL:HG13	49:M3:147:ILE:HG23	1.98	0.44
6:S4:57:ASN:HB2	6:S4:60:GLU:H	1.82	0.44
10:S8:188:GLU:HG3	10:S8:192:TYR:CE2	2.51	0.44
21:C9:53:TRP:HA	21:C9:56:LYS:HB2	1.99	0.44
3:S1:140:ILE:HG21	3:S1:213:ARG:HD3	1.99	0.44
53:M7:27:LYS:HG2	53:M7:63:PHE:CG	3.50	0.44
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	2.00	0.44
1:2:1174:C:H2'	1:2:1175:U:O4'	2.18	0.44
53:M7:67:ILE:HD11	36:5:1447:G:H3'	165.32	0.44
36:5:2117:A:H3'	36:5:2118:C:C6	2.52	0.44
36:1:2278:C:C2	36:1:2307:G:N2	2.86	0.44
46:L9:162:GLN:HB2	46:L9:179:ILE:O	2.19	0.44
36:5:2433:U:OP2	36:5:2434:U:O2'	2.34	0.44
37:7:4:U:H2'	37:7:5:G:H8	1.83	0.44
57:N1:18:ASP:OD2	57:N1:18:ASP:N	3.41	0.44
55:M9:61:SER:OG	55:M9:62:ARG:N	2.68	0.44
45:L8:180:VAL:HG11	45:L8:186:LEU:HD21	2.84	0.44
55:M9:163:ARG:O	55:M9:167:ARG:HG2	4.26	0.44
36:1:1919:G:N7	88:1:4025:OHX:N5	2.64	0.44
52:M6:22:VAL:HG11	52:M6:120:VAL:HG11	2.54	0.44
61:N5:38:LEU:HD22	61:N5:40:LEU:HD13	3.80	0.44
88:5:4014:OHX:N4	88:5:4205:OHX:N1	2.66	0.44
1:2:558:U:HO2'	1:2:559:C:P	2.41	0.44
56:N0:77:VAL:HG11	56:N0:106:LEU:HG	3.01	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:618:C:H2'	36:5:619:A:C8	2.53	0.44
1:6:1648:A:H2'	1:6:1649:G:H8	1.82	0.44
36:1:2902:A:P	46:L9:170:LYS:HE3	2.57	0.44
36:5:3169:U:H2'	36:5:3170:A:C8	2.52	0.44
3:S1:104:ASP:HA	3:S1:214:LYS:HG3	1.99	0.44
55:M9:169:ALA:HA	55:M9:172:ARG:HD2	1.99	0.44
68:O2:9:ILE:HG23	68:O2:63:THR:HB	2.00	0.44
68:O2:12:LYS:HE2	68:O2:57:TYR:HA	1.98	0.44
36:5:3355:U:O2'	36:5:3356:G:H5''	2.18	0.44
36:1:1429:G:C5	41:L4:99:MET:HE1	2.52	0.44
68:O2:45:ARG:NH1	36:5:1160:C:N3	206.14	0.44
54:M8:40:THR:C	54:M8:42:ALA:H	2.21	0.44
36:5:435:C:H42	36:5:624:G:H1	1.65	0.44
1:2:603:U:H2'	1:2:604:A:C8	2.52	0.44
4:S2:212:LYS:HB3	4:S2:212:LYS:HE2	1.63	0.44
1:2:1165:G:C6	1:2:1166:A:C6	3.05	0.44
78:Q2:57:VAL:HG22	91:Q2:503:C:H4'	1.99	0.44
36:5:2530:G:H2'	36:5:2531:C:H5''	2.00	0.44
36:1:665:A:H1'	49:M3:14:PHE:CE1	2.52	0.44
1:2:387:A:OP2	1:2:387:A:H8	2.00	0.44
48:M1:25:GLU:OE1	48:M1:29:ARG:HB3	2.17	0.44
41:L4:77:VAL:HB	41:L4:85:SER:HA	1.98	0.44
36:5:3306:U:H2'	36:5:3307:A:H5''	2.00	0.44
36:5:1409:G:N7	88:5:4166:OHX:N6	2.66	0.44
36:5:2101:C:H2'	36:5:2102:U:H6	1.83	0.44
1:6:621:A:N3	1:6:1107:G:H1'	2.32	0.44
36:5:2518:C:C2	36:5:2590:A:C2	3.05	0.44
36:1:2144:A:C4	36:1:2281:A:N6	2.86	0.44
73:O7:76:ASN:O	73:O7:79:GLN:HG3	3.61	0.44
57:N1:63:VAL:HG12	57:N1:64:VAL:N	2.70	0.44
36:5:878:G:C2	36:5:2980:U:H5'	2.53	0.44
36:5:3349:C:H2'	36:5:3350:C:O4'	2.17	0.44
1:2:1433:G:H22	31:D9:45:GLU:CD	2.21	0.44
55:M9:143:ILE:HG12	36:5:2093:A:H5''	249.90	0.44
58:N2:19:VAL:HG12	58:N2:105:LEU:HD22	2.40	0.44
53:M7:46:LYS:HB2	53:M7:46:LYS:HE3	2.70	0.44
23:D1:11:LEU:HG	23:D1:11:LEU:H	1.50	0.44
59:N3:30:GLY:HA3	59:N3:66:LYS:HD2	1.99	0.44
32:E0:46:ASN:OD1	32:E0:47:VAL:N	2.99	0.44
16:C4:29:HIS:HA	16:C4:41:ARG:HA	1.99	0.44
1:6:485:A:N6	1:6:502:U:H3	2.16	0.44
47:M0:176:LEU:HD12	47:M0:181:TYR:HD1	2.19	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:L5:269:SER:C	42:L5:271:LYS:H	2.69	0.44
71:O5:89:ARG:HH11	71:O5:89:ARG:HG2	1.82	0.44
36:1:2656:A:C8	36:1:2658:G:C8	3.06	0.44
8:S6:57:ASP:OD1	8:S6:72:ARG:NH1	2.68	0.44
13:C1:133:LYS:HG2	1:6:337:G:H3'	292.19	0.44
10:S8:11:ARG:O	13:C1:133:LYS:NZ	2.51	0.44
9:S7:157:LYS:O	9:S7:159:VAL:N	2.48	0.44
28:D6:5:ARG:NH1	1:6:1796:C:OP2	340.45	0.44
34:SR:216:LYS:O	34:SR:218:GLY:N	2.51	0.44
41:L4:333:VAL:HA	41:L4:336:ALA:HB3	1.99	0.44
36:1:776:U:C5	36:1:2719:U:O2	2.59	0.44
59:N3:14:SER:OG	36:5:3094:A:OP1	251.85	0.44
59:N3:126:TRP:HA	59:N3:127:PRO:HD3	1.84	0.44
51:M5:143:ARG:NH2	71:O5:91:ALA:O	3.18	0.44
42:L5:4:GLN:N	42:L5:4:GLN:OE1	2.50	0.44
25:D3:14:LYS:HA	25:D3:17:VAL:HG12	5.03	0.44
17:C5:37:ALA:O	17:C5:42:ARG:HD3	2.22	0.44
24:D2:74:VAL:HA	24:D2:127:GLY:HA3	1.99	0.44
20:C8:140:THR:O	20:C8:143:ARG:HD2	4.77	0.44
20:C8:145:ARG:HB3	20:C8:146:ALA:H	1.49	0.44
36:5:1781:C:H2'	36:5:1782:U:H6	1.82	0.44
55:M9:38:ARG:NH2	36:5:1603:A:OP1	111.96	0.44
1:2:1475:A:H2'	1:2:1476:C:O4'	2.17	0.44
1:6:777:C:C2	1:6:778:G:C8	3.06	0.44
36:1:715:A:H8	64:N8:115:LYS:HG2	1.81	0.44
48:M1:12:LEU:HD12	48:M1:131:MET:HE3	1.99	0.44
46:L9:4:ILE:HG22	56:N0:142:GLN:OE1	2.18	0.44
46:L9:88:TYR:CD1	46:L9:184:LYS:HB2	5.25	0.44
1:6:1671:A:H2'	1:6:1672:G:O4'	2.18	0.44
1:2:1146:G:C6	1:2:1147:A:C6	3.06	0.44
34:SR:74:THR:HG21	34:SR:79:TYR:HD2	1.83	0.44
36:1:3045:G:O3'	40:L3:275:ARG:NH1	2.51	0.44
1:2:558:U:O2'	1:2:559:C:O5'	2.32	0.44
18:C6:99:GLU:OE2	34:SR:60:SER:HB2	2.18	0.44
40:L3:205:VAL:HA	40:L3:208:VAL:HG23	3.11	0.44
59:N3:93:LEU:HB2	60:N4:20:LEU:HD22	2.00	0.44
40:L3:183:LEU:HA	40:L3:183:LEU:HD12	1.96	0.44
47:M0:171:TRP:CE3	47:M0:178:ARG:HD2	3.54	0.44
1:6:1081:A:OP2	1:6:1081:A:H8	2.00	0.44
47:M0:53:VAL:HG21	47:M0:166:ILE:HD12	1.99	0.44
1:6:341:A:H2'	1:6:342:C:H6	1.83	0.44
39:L2:190:ARG:NH1	39:L2:191:LEU:HD11	2.33	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:L6:109:GLU:CD	43:L6:109:GLU:H	4.18	0.44
1:2:117:U:H5'	1:2:333:A:O2'	2.17	0.44
37:3:19:C:H42	37:3:60:G:H1	1.66	0.44
40:L3:214:MET:SD	40:L3:281:LYS:HG3	2.57	0.44
36:5:345:G:OP1	36:5:1429:G:N1	2.38	0.44
6:S4:212:ASP:N	6:S4:212:ASP:OD2	2.49	0.44
49:M3:105:ASN:OD1	49:M3:105:ASN:C	2.80	0.44
13:C1:58:CYS:HA	13:C1:59:PRO:HD3	2.38	0.44
36:1:685:G:OP1	49:M3:35:ARG:HD2	2.17	0.44
6:S4:132:GLY:N	6:S4:136:VAL:O	2.97	0.44
1:2:1049:U:H2'	1:2:1050:G:C8	2.52	0.44
25:D3:86:PHE:O	25:D3:124:VAL:HG23	2.17	0.44
36:5:3133:C:H2'	36:5:3134:A:O4'	2.17	0.44
35:SM:117:LEU:HD23	35:SM:121:LYS:HG3	2.00	0.44
64:N8:24:LYS:HD2	64:N8:26:ARG:NH2	2.32	0.44
20:C8:8:GLN:HB3	20:C8:9:GLY:H	3.08	0.44
36:5:731:U:H2'	36:5:732:C:H6	1.81	0.44
72:O6:51:SER:O	72:O6:55:ARG:HG3	4.88	0.44
15:C3:136:PRO:HA	15:C3:137:PRO:HD2	2.31	0.44
50:M4:109:ARG:NH1	36:5:3210:A:OP1	292.51	0.44
38:4:59:A:N1	38:4:100:U:H1'	2.32	0.44
1:6:1273:G:O5'	1:6:1274:C:H3'	2.18	0.44
42:L5:281:GLU:O	42:L5:284:ALA:HB3	2.92	0.44
39:L2:222:ALA:HA	36:5:2245:C:O4'	221.76	0.44
49:M3:67:ARG:HG3	49:M3:67:ARG:H	1.48	0.44
11:S9:115:LYS:HD2	11:S9:115:LYS:HA	1.65	0.44
36:5:1773:C:H2'	36:5:1774:C:C6	2.53	0.44
57:N1:132:PRO:O	57:N1:134:GLN:HG2	2.86	0.44
1:6:760:A:OP2	88:6:2081:OHX:N5	2.51	0.44
36:5:855:U:H2'	36:5:856:G:C8	2.53	0.44
21:C9:85:SER:C	21:C9:87:GLY:H	2.21	0.44
58:N2:89:LEU:HD13	58:N2:93:ILE:HD12	3.23	0.44
70:O4:43:LYS:HB3	70:O4:48:GLY:O	2.64	0.44
38:8:44:A:H2'	38:8:45:C:C6	2.52	0.44
71:O5:85:THR:HG22	71:O5:88:LEU:N	2.98	0.44
6:S4:18:TRP:HH2	6:S4:31:PRO:HD3	2.13	0.44
15:C3:5:HIS:HB3	15:C3:117:LEU:HD13	1.99	0.44
37:3:22:A:H1'	42:L5:272:TYR:CZ	2.53	0.44
17:C5:64:LYS:NZ	17:C5:90:ILE:O	2.50	0.44
2:S0:74:VAL:HG12	2:S0:76:ILE:HG12	3.06	0.44
3:S1:145:LYS:HE3	3:S1:152:ARG:O	2.17	0.44
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1773:C:H2'	1:2:1774:G:C8	2.53	0.44
27:D5:55:PRO:HG3	27:D5:88:ILE:HG23	5.99	0.44
3:S1:63:GLY:HA2	3:S1:88:VAL:HB	1.99	0.44
47:M0:4:ARG:HD2	47:M0:9:TYR:OH	2.31	0.44
15:C3:16:ILE:HG23	15:C3:62:GLN:OE1	3.63	0.44
1:2:1572:G:N3	1:2:1572:G:H2'	2.32	0.44
8:S6:176:GLN:HB2	8:S6:176:GLN:HE21	1.65	0.44
14:C2:46:ARG:NH2	1:6:1253:U:OP2	453.73	0.44
63:N7:97:SER:O	63:N7:100:THR:OG1	3.69	0.44
30:D8:10:ALA:HA	30:D8:33:LEU:HB2	4.73	0.44
36:5:1260:A:H1'	36:5:1280:C:H1'	2.00	0.44
1:6:1699:G:H2'	1:6:1700:C:H5'	2.00	0.44
51:M5:93:LYS:HG3	36:5:289:A:C2	146.63	0.44
7:S5:110:ALA:HA	7:S5:113:ILE:HD12	1.99	0.44
74:O8:18:ALA:H	74:O8:20:VAL:CG2	4.20	0.44
64:N8:116:GLY:HA2	64:N8:137:LYS:NZ	2.33	0.44
48:M1:24:GLY:H	48:M1:65:ILE:HG23	6.52	0.44
52:M6:138:LEU:HA	52:M6:138:LEU:HD12	1.65	0.44
1:2:1760:G:C2'	1:2:1761:U:H5'	2.47	0.44
36:1:1470:U:H2'	36:1:1471:U:H6	1.83	0.44
1:6:563:U:C4	1:6:564:G:C6	3.06	0.44
36:1:1818:U:H2'	36:1:1819:U:O4'	2.17	0.44
36:1:440:A:OP2	36:1:440:A:H8	2.01	0.44
1:2:355:G:OP2	88:2:2036:OHX:N4	2.50	0.44
31:D9:31:ILE:HB	31:D9:38:ILE:O	2.18	0.44
45:L8:41:GLN:HG3	45:L8:44:ARG:NH1	3.49	0.44
56:N0:106:LEU:HD23	56:N0:110:MET:HG2	1.99	0.44
45:L8:160:ILE:HD12	45:L8:164:VAL:HG13	5.70	0.44
40:L3:10:ARG:NH1	40:L3:11:HIS:O	2.98	0.44
40:L3:140:ASP:OD1	40:L3:142:ALA:HB2	2.17	0.44
67:O1:12:TYR:O	67:O1:72:ARG:HD2	2.17	0.44
11:S9:182:GLU:HG3	11:S9:182:GLU:H	2.34	0.44
22:D0:16:GLN:HG3	22:D0:18:GLN:HG2	7.11	0.44
1:2:1646:C:H2'	1:2:1647:U:H6	1.83	0.44
1:6:38:C:H2'	1:6:39:A:H5'	2.00	0.44
36:1:684:G:OP2	49:M3:28:GLN:NE2	2.50	0.44
20:C8:8:GLN:O	20:C8:10:SER:N	3.20	0.44
38:4:143:U:H2'	38:4:144:G:O4'	2.16	0.44
12:C0:24:LYS:HB2	12:C0:63:TYR:CE1	2.53	0.44
67:O1:97:LEU:HD23	67:O1:97:LEU:HA	1.75	0.44
58:N2:22:PRO:HG3	58:N2:105:LEU:HB3	1.99	0.44
1:6:992:A:OP1	1:6:1786:G:H5'	2.16	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3365:U:OP1	88:5:4239:OHX:N1	2.50	0.44
1:6:507:U:H2'	1:6:508:U:O4'	2.18	0.44
42:L5:15:ARG:CZ	36:5:1003:A:H1'	290.53	0.44
48:M1:91:LEU:HB3	48:M1:95:ASN:HD22	1.83	0.44
25:D3:74:VAL:HG21	25:D3:104:LEU:HD11	2.00	0.44
42:L5:261:THR:HG23	42:L5:264:GLN:OE1	2.17	0.44
47:M0:129:VAL:HA	47:M0:133:GLN:OE1	2.57	0.44
50:M4:43:LYS:HE2	56:N0:96:ASP:OD2	2.17	0.44
77:Q1:6:ARG:O	77:Q1:10:THR:HG23	2.18	0.44
28:D6:90:GLU:N	28:D6:90:GLU:OE1	2.98	0.44
26:D4:21:LYS:N	26:D4:21:LYS:HD2	2.32	0.44
19:C7:16:LEU:HA	19:C7:16:LEU:HD23	1.84	0.44
55:M9:60:LYS:HB2	55:M9:60:LYS:HE2	1.62	0.44
1:2:1329:A:O5'	1:2:1329:A:H8	2.00	0.44
19:C7:119:LEU:HD12	19:C7:119:LEU:H	1.83	0.44
72:O6:94:ILE:HD13	72:O6:94:ILE:HA	4.36	0.44
5:S3:69:LEU:HA	5:S3:69:LEU:HD12	4.59	0.44
36:5:1119:C:H2'	36:5:1120:A:C8	2.52	0.44
36:1:2922:G:H1'	36:1:2951:G:N3	2.32	0.44
56:N0:59:VAL:HG22	57:N1:141:VAL:HG11	2.00	0.44
16:C4:102:LEU:HD11	28:D6:45:VAL:HG12	6.79	0.44
10:S8:35:ASN:O	10:S8:37:LYS:HD3	2.17	0.44
36:5:1074:U:O2'	36:5:1075:A:H2'	2.18	0.44
11:S9:141:VAL:HG11	11:S9:146:PHE:CD2	3.52	0.44
11:S9:133:HIS:HB3	11:S9:162:SER:CB	5.06	0.44
2:S0:74:VAL:HG22	2:S0:96:THR:HG23	2.28	0.44
52:M6:127:LEU:HD11	56:N0:168:PRO:HG3	2.26	0.44
27:D5:54:VAL:HG22	27:D5:57:TYR:CE1	2.53	0.44
2:S0:179:ARG:HD3	2:S0:183:ARG:HD2	1.98	0.44
36:5:3153:U:H1'	36:5:3154:C:C6	2.52	0.44
41:L4:206:LEU:HD23	41:L4:226:GLU:HB2	2.12	0.44
36:5:1307:G:H1'	36:5:1308:A:C8	2.52	0.44
1:6:901:G:C2	1:6:902:G:C6	3.06	0.44
1:2:1369:U:OP2	21:C9:69:LYS:HE3	2.17	0.44
25:D3:11:SER:O	25:D3:13:ARG:N	2.51	0.44
27:D5:43:ASP:C	27:D5:45:GLU:H	2.73	0.44
40:L3:255:TRP:CD1	36:5:2395:G:H5''	216.37	0.44
7:S5:57:SER:O	7:S5:59:VAL:HG23	2.18	0.44
30:D8:36:THR:OG1	30:D8:37:SER:N	2.48	0.44
40:L3:4:ARG:HG3	40:L3:6:TYR:O	4.75	0.44
24:D2:75:ILE:HG13	24:D2:125:ILE:HD11	1.99	0.44
39:L2:200:ARG:HG3	36:5:2147:A:OP1	208.25	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D4:43:LYS:O	26:D4:47:VAL:HG13	5.65	0.44
14:C2:48:SER:O	14:C2:52:LEU:HD23	2.17	0.44
6:S4:90:ILE:HB	6:S4:99:PHE:HB2	1.99	0.44
58:N2:90:ARG:O	58:N2:91:ASP:HB2	2.34	0.44
18:C6:94:GLN:HG3	18:C6:95:LYS:N	2.71	0.44
36:1:996:A:C2	36:1:1054:A:C4	3.05	0.44
36:5:128:G:H2'	36:5:129:U:O4'	2.18	0.44
71:O5:31:LEU:HB3	71:O5:44:ILE:HD12	4.12	0.44
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.49	0.44
36:5:1282:G:H2'	36:5:1283:C:O4'	2.17	0.44
46:L9:44:THR:HG22	36:5:3186:A:N3	326.80	0.44
1:6:986:G:OP2	88:6:2116:OHX:N2	2.50	0.44
36:5:111:C:O2'	36:5:112:U:H5'	2.17	0.44
1:6:46:A:N6	1:6:433:C:H4'	2.33	0.44
1:6:647:G:H1	1:6:687:G:H22	1.63	0.44
1:2:1617:U:O2'	1:2:1618:C:H5'	2.18	0.44
1:2:853:G:N7	55:M9:173:ARG:NH2	2.59	0.44
36:1:2765:C:O3'	78:Q2:39:GLY:HA3	2.18	0.44
75:O9:10:LYS:HD3	36:5:1833:G:H5''	108.04	0.44
42:L5:218:ARG:HG3	42:L5:222:LEU:HD12	6.93	0.44
36:5:166:C:H2'	36:5:167:U:C6	2.52	0.44
36:5:2172:A:OP2	88:5:4156:OHX:N5	2.51	0.44
51:M5:44:ARG:HH22	36:5:269:G:P	125.30	0.44
36:5:249:U:O2'	36:5:250:U:H5''	2.18	0.44
1:2:1391:A:H2'	1:2:1392:U:C6	2.52	0.44
44:L7:95:ILE:HD12	44:L7:133:TYR:CE1	3.11	0.44
52:M6:93:ALA:HB3	36:5:632:G:OP1	220.40	0.44
36:5:2759:U:H5''	36:5:2760:C:H5'	1.99	0.44
36:1:981:U:HO2'	36:1:982:C:P	2.41	0.44
44:L7:156:ILE:HD12	44:L7:172:ASN:ND2	5.80	0.44
42:L5:24:ARG:NH2	37:7:13:A:N3	293.24	0.44
36:5:929:A:H2'	36:5:930:U:C6	2.52	0.44
46:L9:134:ILE:HD11	46:L9:146:LEU:HD23	1.99	0.44
36:1:2768:U:H2'	36:1:2769:A:C8	2.52	0.44
29:D7:74:SER:O	29:D7:76:GLY:N	2.50	0.44
3:S1:219:LYS:NZ	79:Q3:89:MET:O	9.25	0.44
1:6:1288:G:N7	1:6:1314:U:H2'	2.33	0.44
4:S2:113:LEU:HB2	4:S2:215:PHE:CD1	2.65	0.44
46:L9:121:LYS:HA	46:L9:121:LYS:HD2	2.12	0.44
36:1:3217:C:H2'	36:1:3217:C:O2	2.18	0.44
12:C0:72:GLY:C	12:C0:74:GLU:H	3.09	0.44
37:3:10:C:OP2	57:N1:26:HIS:HD2	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:D7:26:GLN:NE2	1:6:864:U:OP2	352.83	0.44
50:M4:47:ASP:OD1	50:M4:55:ARG:HB2	2.17	0.44
50:M4:17:VAL:HG11	50:M4:74:ARG:HA	1.99	0.44
36:1:1362:G:H1'	44:L7:159:GLN:NE2	2.33	0.44
3:S1:81:PHE:HB2	3:S1:82:ARG:H	1.65	0.44
42:L5:269:SER:CB	37:7:1:G:H21	318.28	0.44
1:2:1488:G:H5''	1:2:1489:U:OP1	2.17	0.44
17:C5:33:PHE:CZ	17:C5:112:LEU:HD13	4.12	0.44
40:L3:56:ILE:HD12	40:L3:56:ILE:HA	2.22	0.44
2:S0:140:ASN:OD1	23:D1:29:HIS:HA	3.82	0.44
9:S7:163:ASP:O	9:S7:166:LEU:HB2	2.18	0.44
2:S0:38:PHE:CD2	19:C7:109:LEU:HD13	3.21	0.44
37:3:62:U:OP1	42:L5:277:LEU:HB2	2.18	0.44
39:L2:28:LYS:HE3	39:L2:123:ARG:NH1	4.19	0.44
25:D3:69:ARG:NH1	25:D3:116:ASP:OD2	2.80	0.44
41:L4:138:ARG:HH21	41:L4:240:PRO:HB2	2.23	0.44
3:S1:58:SER:HA	3:S1:62:LYS:HD3	2.00	0.44
36:5:1168:U:O4	36:5:1329:U:H2'	2.17	0.44
3:S1:32:ILE:HB	3:S1:43:VAL:HB	2.83	0.44
24:D2:26:LEU:HD22	24:D2:27:ILE:N	2.33	0.44
63:N7:34:LYS:HA	63:N7:34:LYS:HD2	2.22	0.44
70:O4:22:VAL:CG1	70:O4:30:LEU:HD22	2.44	0.44
25:D3:68:ILE:HG22	25:D3:70:LYS:HD3	1.99	0.44
33:E1:147:VAL:HG23	33:E1:148:TYR:CG	2.53	0.44
26:D4:10:ARG:HD2	26:D4:26:ASP:HB2	2.00	0.44
7:S5:61:TYR:OH	30:D8:52:ASP:OD1	4.57	0.44
68:O2:123:LYS:HA	68:O2:126:LEU:CG	2.54	0.44
67:O1:35:GLU:O	67:O1:38:LYS:HB3	2.18	0.44
14:C2:83:GLU:C	14:C2:85:LYS:H	4.55	0.44
48:M1:133:ARG:HD2	48:M1:152:HIS:O	2.17	0.44
46:L9:23:ARG:NH2	46:L9:41:ILE:O	5.38	0.44
53:M7:53:ASP:O	88:M7:206:OHX:N3	2.50	0.44
20:C8:28:ILE:HG13	20:C8:28:ILE:H	4.31	0.44
38:4:107:G:C2	38:4:116:G:C5	3.06	0.44
61:N5:57:LEU:HA	61:N5:57:LEU:HD12	1.83	0.44
40:L3:174:LYS:N	36:5:3314:A:OP1	204.44	0.44
22:D0:106:ILE:C	22:D0:108:ILE:H	2.20	0.44
36:1:2534:G:N2	36:1:2545:C:N3	2.50	0.44
57:N1:136:ARG:HD2	57:N1:139:ARG:NH1	2.33	0.44
28:D6:66:LYS:HB2	28:D6:68:TYR:CZ	4.12	0.44
36:5:1596:C:H2'	36:5:1597:C:C6	2.53	0.44
36:5:1937:U:C4	36:5:1938:U:O4	2.71	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
71:O5:10:ARG:NH1	71:O5:60:GLU:OE1	3.12	0.44
8:S6:7:TYR:OH	8:S6:116:LYS:HD2	3.53	0.44
38:8:145:U:H2'	38:8:146:U:H6	1.82	0.44
66:O0:77:LEU:HD23	66:O0:87:VAL:O	2.42	0.44
14:C2:128:ALA:HB3	14:C2:133:LEU:HD22	4.13	0.44
51:M5:46:ASP:HB2	51:M5:50:ARG:HH21	4.22	0.44
46:L9:93:VAL:HG22	76:Q0:82:LEU:HB3	2.09	0.44
36:5:3269:U:H5'	36:5:3271:G:O4'	2.18	0.44
72:O6:45:ARG:HH21	72:O6:50:LEU:HA	3.77	0.44
57:N1:154:VAL:HA	57:N1:155:PRO:HD3	2.25	0.44
1:2:1:U:C4	1:2:369:A:C6	3.06	0.44
43:L6:92:SER:OG	43:L6:93:VAL:N	3.39	0.44
67:O1:105:GLN:O	67:O1:107:VAL:HG23	4.66	0.44
1:2:876:G:H1'	1:2:944:A:O4'	2.17	0.44
36:5:2294:U:O2	36:5:2296:A:H8	1.99	0.44
36:5:815:G:C6	36:5:906:A:C4	3.06	0.44
36:1:1791:C:H2'	36:1:1792:C:C6	2.53	0.44
36:1:2596:U:O2'	88:1:4220:OHX:N3	2.51	0.44
36:1:668:G:OP1	88:1:4133:OHX:N2	2.51	0.44
38:8:132:G:C6	38:8:133:G:N7	2.85	0.44
9:S7:149:ILE:HG12	9:S7:180:GLN:HB3	2.00	0.44
38:8:28:C:H2'	38:8:29:U:H6	1.83	0.44
28:D6:19:LYS:HE3	28:D6:19:LYS:HB2	1.78	0.44
50:M4:27:GLN:HG2	50:M4:27:GLN:H	2.20	0.44
49:M3:53:LEU:HA	49:M3:53:LEU:HD23	2.01	0.44
1:6:1199:G:OP1	1:6:1200:G:H8	2.01	0.44
31:D9:46:LYS:O	31:D9:50:ILE:HG13	2.86	0.44
50:M4:127:LYS:O	50:M4:130:THR:HG23	4.48	0.44
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.53	0.44
1:2:1519:U:H5	1:2:1520:U:HO2'	1.65	0.44
1:2:1515:A:OP2	5:S3:7:LYS:HB2	2.18	0.44
42:L5:107:ARG:O	42:L5:111:GLN:N	2.99	0.44
34:SR:37:SER:OG	34:SR:38:ARG:N	2.91	0.44
1:6:1097:U:H5''	1:6:1099:U:O4'	2.18	0.44
28:D6:10:ARG:HD3	28:D6:34:LYS:O	2.43	0.44
18:C6:82:ARG:HH22	18:C6:114:ARG:HB2	2.12	0.44
7:S5:33:VAL:HG13	7:S5:37:GLN:NE2	2.48	0.44
47:M0:4:ARG:HA	47:M0:5:PRO:HD2	2.11	0.44
7:S5:45:LYS:HD3	7:S5:45:LYS:HA	1.22	0.44
7:S5:64:VAL:O	7:S5:65:ARG:HB2	2.18	0.44
45:L8:68:ARG:HA	45:L8:236:GLY:O	4.70	0.44
45:L8:142:LEU:HD13	45:L8:201:THR:HG21	2.65	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:53:ILE:CD1	4:S2:53:ILE:H	3.78	0.44
27:D5:60:VAL:HG13	27:D5:101:TYR:O	2.18	0.44
44:L7:25:GLN:HE21	44:L7:29:GLU:HB2	1.83	0.44
30:D8:32:PHE:HE2	30:D8:38:ARG:HB3	1.82	0.44
41:L4:145:ILE:O	88:L4:402:OHX:N5	2.51	0.44
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	1.99	0.44
4:S2:88:LYS:CG	4:S2:89:GLN:H	3.96	0.44
74:O8:17:ARG:O	74:O8:19:ASP:N	2.49	0.44
36:1:2253:G:C2'	36:1:2254:U:H5'	2.48	0.44
36:1:2921:U:H2'	36:1:2923:U:OP2	2.18	0.44
33:E1:91:ILE:HB	1:6:1445:G:C6	386.85	0.44
6:S4:121:TYR:OH	6:S4:235:TYR:O	2.66	0.44
16:C4:92:LYS:HD2	16:C4:121:VAL:HG22	6.87	0.44
17:C5:122:THR:CB	1:6:1558:U:H3	366.29	0.44
54:M8:96:PHE:CG	54:M8:97:PRO:HD2	2.78	0.44
75:O9:43:ASN:O	75:O9:45:ARG:N	2.50	0.44
32:E0:48:THR:HB	32:E0:49:LEU:H	1.57	0.44
16:C4:136:ARG:H	16:C4:136:ARG:HG2	1.71	0.44
1:6:493:U:H2'	1:6:494:U:H5''	2.00	0.44
1:6:1213:G:O2'	1:6:1244:A:N6	2.51	0.44
32:E0:59:GLY:O	32:E0:61:SER:N	3.34	0.44
1:2:320:U:H3'	1:2:321:C:C5'	2.45	0.44
8:S6:94:ARG:NH2	1:6:406:U:O3'	291.21	0.44
1:6:452:A:H3'	1:6:453:U:C5	2.53	0.44
46:L9:47:LYS:NZ	50:M4:5:SER:O	5.48	0.44
36:1:3084:C:O2'	36:1:3332:U:OP1	2.26	0.44
1:6:366:A:H2'	1:6:367:A:H8	1.82	0.44
41:L4:51:ALA:O	38:8:27:U:H5'	110.22	0.44
1:6:1382:A:O2'	1:6:1383:G:H5''	2.18	0.44
36:1:1593:A:O4'	70:O4:60:ARG:HD3	2.18	0.44
36:1:2383:C:H5'	52:M6:71:PHE:HE2	1.83	0.44
1:2:1767:G:OP1	1:2:1770:U:H4'	2.18	0.44
13:C1:37:ASN:HA	13:C1:44:THR:HG21	1.98	0.44
36:1:2882:U:H2'	36:1:2883:U:C6	2.52	0.44
24:D2:5:SER:HB3	24:D2:8:ALA:HB3	2.96	0.44
1:6:49:C:H2'	1:6:50:C:O4'	2.18	0.44
76:Q0:98:LYS:HE2	76:Q0:115:CYS:HB2	2.00	0.44
88:1:3982:OHX:N3	88:1:4170:OHX:N1	2.66	0.44
1:6:1232:U:H2'	1:6:1233:G:O4'	2.18	0.44
36:1:3136:G:OP2	88:1:4112:OHX:N6	2.51	0.44
36:1:2700:G:O2'	36:1:2705:A:N1	2.45	0.44
41:L4:359:LEU:HA	56:N0:8:GLN:OE1	2.29	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:M9:8:LYS:HG3	55:M9:22:VAL:HG21	2.00	0.44
50:M4:15:VAL:HG13	56:N0:150:PHE:O	2.17	0.44
36:5:180:C:H2'	36:5:181:U:H6	1.83	0.44
36:5:1839:A:N6	36:5:1843:C:C2	2.86	0.44
36:5:293:C:H2'	36:5:294:U:O4'	2.18	0.44
45:L8:238:LEU:HD12	45:L8:238:LEU:HA	1.79	0.44
3:S1:222:LYS:HA	3:S1:222:LYS:HD3	2.22	0.44
36:1:2759:U:H6	36:1:2759:U:O5'	2.00	0.44
36:5:1863:G:N1	36:5:1866:C:OP2	2.42	0.44
36:5:3117:C:N3	88:5:4209:OHX:N2	2.65	0.44
15:C3:98:VAL:CG2	1:6:952:A:H5'	293.27	0.44
41:L4:299:ILE:CG2	54:M8:39:ARG:HB3	2.48	0.43
18:C6:58:ASP:OD2	18:C6:59:LYS:HD2	4.53	0.43
17:C5:28:MET:HE3	17:C5:33:PHE:HB2	2.33	0.43
34:SR:42:LEU:HD11	34:SR:68:VAL:HG11	2.00	0.43
18:C6:54:LEU:HD22	18:C6:54:LEU:HA	1.68	0.43
7:S5:68:ILE:HD13	7:S5:69:PHE:H	5.00	0.43
36:1:1065:A:C4	65:N9:28:LYS:HB2	2.53	0.43
73:O7:52:LYS:HA	73:O7:55:ARG:CD	2.93	0.43
15:C3:56:ASP:OD2	29:D7:51:GLN:N	5.43	0.43
6:S4:152:PRO:HD2	8:S6:215:ARG:HD3	6.57	0.43
36:1:1306:G:O2'	36:1:1307:G:H5'	2.18	0.43
63:N7:26:VAL:HB	63:N7:89:VAL:HG21	1.98	0.43
22:D0:48:HIS:O	22:D0:48:HIS:CG	2.70	0.43
25:D3:24:TRP:CZ3	25:D3:30:LYS:HG3	3.72	0.43
67:O1:64:VAL:HG13	36:5:1456:A:C6	163.10	0.43
76:Q0:122:ARG:NH2	36:5:2896:A:O2'	319.41	0.43
55:M9:46:LYS:HZ2	36:5:1766:G:H8	100.90	0.43
4:S2:58:LEU:O	4:S2:58:LEU:HD22	3.15	0.43
25:D3:23:ARG:HB3	25:D3:29:TYR:CE1	2.81	0.43
27:D5:56:THR:O	27:D5:58:ARG:N	2.51	0.43
36:5:2572:C:O2	36:5:2572:C:H2'	2.18	0.43
68:O2:75:LEU:HA	68:O2:75:LEU:HD23	1.86	0.43
1:6:716:C:H2'	1:6:717:C:O4'	2.18	0.43
69:O3:21:ARG:HG3	69:O3:21:ARG:HH11	1.83	0.43
1:2:926:A:H2'	1:2:927:C:O4'	2.17	0.43
55:M9:158:GLU:O	55:M9:161:ALA:HB3	2.17	0.43
1:2:392:G:H4'	1:2:1672:G:N2	2.33	0.43
36:5:953:G:C8	36:5:1117:G:C8	3.06	0.43
88:5:4014:OHX:N3	88:5:4205:OHX:N5	2.66	0.43
88:5:4014:OHX:N6	88:5:4205:OHX:N5	2.66	0.43
36:1:1561:G:HO2'	36:1:1562:C:H6	1.62	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3106:A:H61	36:5:3128:G:H1'	1.82	0.43
36:5:1018:G:H2'	36:5:1019:G:O4'	2.18	0.43
36:1:3174:A:C6	36:1:3175:U:C4	3.06	0.43
36:1:1742:U:H2'	36:1:1743:G:H8	1.81	0.43
9:S7:101:LYS:HA	9:S7:102:PRO:HD3	1.88	0.43
1:6:648:G:C4	1:6:687:G:N2	2.86	0.43
1:2:530:C:H2'	1:2:531:C:H5'	1.98	0.43
35:SM:51:ARG:HB2	35:SM:52:PRO:HD2	2.00	0.43
36:5:687:U:O2'	36:5:688:G:H5'	2.18	0.43
36:1:94:G:H2'	36:1:95:A:C8	2.53	0.43
36:1:1614:C:H2'	36:1:1615:C:H6	1.82	0.43
45:L8:71:VAL:HB	51:M5:21:PHE:CE1	2.52	0.43
36:1:3063:C:O2'	36:1:3064:U:H5'	2.17	0.43
5:S3:216:PRO:HB2	5:S3:217:ILE:H	1.59	0.43
5:S3:217:ILE:C	5:S3:219:ALA:H	4.16	0.43
36:5:2775:U:H2'	36:5:2776:C:C6	2.52	0.43
1:2:1470:C:OP1	1:2:1540:G:O2'	2.32	0.43
78:Q2:14:GLY:O	78:Q2:18:ARG:HG3	5.15	0.43
40:L3:83:PRO:HB2	40:L3:165:GLN:HE22	3.17	0.43
25:D3:19:ARG:NH1	1:6:610:G:H21	341.94	0.43
73:O7:24:ARG:NH1	36:5:361:A:OP1	120.60	0.43
36:1:2438:A:H2'	36:1:2439:A:C8	2.53	0.43
38:8:72:A:C5	38:8:73:U:C5	3.06	0.43
21:C9:15:ILE:HD13	21:C9:60:SER:HA	2.46	0.43
8:S6:61:PHE:CE1	8:S6:96:SER:HB2	2.84	0.43
33:E1:127:GLY:O	33:E1:129:GLY:N	2.50	0.43
17:C5:60:LEU:HD23	17:C5:76:VAL:HG21	2.33	0.43
36:5:2949:U:O2'	36:5:2950:G:H5'	2.17	0.43
36:5:1640:G:C6	36:5:1641:U:C4	3.06	0.43
36:5:2405:C:O2	36:5:2819:A:N1	2.51	0.43
5:S3:105:MET:HA	5:S3:108:LYS:HB2	1.99	0.43
63:N7:81:LEU:HA	63:N7:81:LEU:HD23	1.69	0.43
36:5:114:A:H2'	36:5:115:A:O4'	2.18	0.43
15:C3:12:SER:HB3	1:6:956:C:OP2	334.98	0.43
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	2.03	0.43
3:S1:70:LEU:HB3	3:S1:79:HIS:CB	6.07	0.43
11:S9:59:LEU:O	11:S9:62:ARG:HB2	2.57	0.43
11:S9:132:ARG:HG3	11:S9:132:ARG:HH11	1.83	0.43
2:S0:76:ILE:HB	2:S0:123:VAL:HG23	2.32	0.43
1:6:1279:C:H2'	1:6:1280:C:O4'	2.18	0.43
7:S5:166:ARG:HD2	30:D8:46:GLY:CA	2.48	0.43
1:2:702:G:C2	1:2:703:G:H1'	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2234:G:O6	88:5:3965:OHX:N1	2.52	0.43
47:M0:12:GLN:NE2	47:M0:57:LEU:HD22	3.88	0.43
65:N9:23:LYS:HA	65:N9:23:LYS:HD2	1.55	0.43
68:O2:105:ARG:NH2	36:5:1412:G:OP1	146.27	0.43
1:2:895:G:O2'	16:C4:38:THR:N	2.46	0.43
7:S5:89:ILE:HD12	7:S5:90:ILE:N	2.36	0.43
45:L8:26:LEU:HA	45:L8:26:LEU:HD23	4.42	0.43
7:S5:151:GLY:HA3	7:S5:156:ARG:H	4.88	0.43
41:L4:84:ARG:O	41:L4:87:GLN:HG3	2.20	0.43
72:O6:60:LEU:HD22	72:O6:64:SER:HB2	2.00	0.43
24:D2:24:GLN:HA	24:D2:63:VAL:O	2.18	0.43
6:S4:126:VAL:HG13	6:S4:158:ASP:O	2.18	0.43
36:1:952:A:OP1	65:N9:14:ARG:NH2	2.51	0.43
19:C7:49:LYS:HA	1:6:1389:C:H4'	422.39	0.43
39:L2:178:PRO:HG2	79:Q3:26:VAL:CG2	2.47	0.43
1:6:880:C:H2'	1:6:881:A:C8	2.53	0.43
79:Q3:73:THR:HB	79:Q3:76:ALA:CB	5.00	0.43
12:C0:49:LEU:HB3	12:C0:55:VAL:HG11	1.99	0.43
32:E0:49:LEU:H	32:E0:49:LEU:HD22	3.02	0.43
6:S4:159:THR:OG1	6:S4:226:PHE:HE1	2.01	0.43
47:M0:193:ASP:OD2	47:M0:198:LYS:HE3	3.17	0.43
2:S0:77:SER:OG	2:S0:82:GLY:HA3	2.19	0.43
88:2:2044:OHX:N2	88:2:2099:OHX:N6	2.66	0.43
63:N7:136:PHE:CE1	70:O4:89:ILE:HG12	3.55	0.43
8:S6:5:ILE:HG12	8:S6:111:LEU:HD12	3.04	0.43
49:M3:9:ILE:HG12	64:N8:34:MET:HE3	1.99	0.43
6:S4:128:LYS:HB3	6:S4:128:LYS:HE2	1.73	0.43
36:1:208:C:C2'	36:1:209:A:H5'	2.47	0.43
42:L5:115:LEU:HA	42:L5:115:LEU:HD13	2.53	0.43
42:L5:183:TRP:CH2	42:L5:188:GLU:HA	2.52	0.43
38:8:149:A:H2'	38:8:150:G:C8	2.54	0.43
36:5:374:A:O2'	36:5:376:G:H5'	2.18	0.43
55:M9:173:ARG:O	55:M9:177:VAL:HG23	2.18	0.43
36:1:1103:A:H2	54:M8:9:GLN:HE22	1.63	0.43
42:L5:219:PHE:C	42:L5:221:GLU:H	3.29	0.43
35:SM:82:THR:HB	35:SM:83:LYS:H	1.64	0.43
36:5:3131:U:H2'	36:5:3132:C:C6	2.53	0.43
1:2:1172:G:H21	21:C9:88:VAL:CG2	2.32	0.43
48:M1:80:LEU:O	48:M1:84:LEU:HG	2.71	0.43
3:S1:31:ASP:HB3	3:S1:45:LYS:HD3	1.99	0.43
34:SR:273:ASP:OD1	34:SR:275:ARG:NH1	2.51	0.43
42:L5:278:SER:N	42:L5:281:GLU:OE2	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:748:U:O2	1:2:802:G:C2	2.71	0.43
1:6:53:G:H2'	1:6:54:C:O4'	2.18	0.43
1:2:1754:A:H4'	1:2:1755:A:O4'	2.18	0.43
36:5:3218:A:H2'	36:5:3218:A:H8	1.68	0.43
58:N2:56:VAL:HG13	58:N2:65:VAL:HG22	2.00	0.43
11:S9:107:ARG:NH1	11:S9:112:GLN:OE1	2.51	0.43
36:5:3239:G:N7	88:5:3991:OHX:N5	2.66	0.43
1:6:1531:G:C6	1:6:1532:U:C4	3.06	0.43
1:2:967:A:H2'	1:2:968:U:O4'	2.18	0.43
11:S9:79:ARG:O	11:S9:83:VAL:HG22	3.33	0.43
36:1:177:U:C4	36:1:178:U:C4	3.07	0.43
73:O7:45:ARG:HD2	73:O7:45:ARG:HH11	1.65	0.43
1:6:853:G:H2'	1:6:854:U:C6	2.53	0.43
50:M4:8:LYS:HB3	50:M4:8:LYS:HE3	1.69	0.43
1:6:447:U:C4	1:6:448:C:C4	3.06	0.43
42:L5:269:SER:O	42:L5:271:LYS:N	3.21	0.43
11:S9:129:ILE:O	11:S9:134:ILE:HD11	4.48	0.43
36:5:3198:U:H4'	36:5:3199:G:OP2	2.17	0.43
2:S0:180:GLU:O	2:S0:183:ARG:N	2.51	0.43
7:S5:27:THR:HA	7:S5:28:PRO:HD2	2.58	0.43
57:N1:129:LYS:HG2	36:5:1095:U:O2	252.76	0.43
1:2:737:A:OP2	1:2:737:A:H2'	2.19	0.43
41:L4:329:PRO:HB2	41:L4:330:TYR:H	3.98	0.43
70:O4:56:THR:HA	70:O4:62:TYR:OH	2.19	0.43
67:O1:78:LYS:O	67:O1:90:PHE:HB2	5.55	0.43
1:6:1159:C:H5''	1:6:1160:A:H5'	1.99	0.43
37:3:47:C:H2'	37:3:48:U:C6	2.53	0.43
34:SR:85:TRP:N	34:SR:85:TRP:CD1	2.86	0.43
22:D0:20:ILE:O	22:D0:94:GLU:HA	5.44	0.43
22:D0:92:ASP:O	22:D0:93:LEU:HD23	2.87	0.43
49:M3:99:HIS:CE1	49:M3:100:ARG:HG2	2.53	0.43
36:5:706:A:H4'	36:5:781:G:O2'	2.18	0.43
12:C0:29:GLN:HB2	12:C0:39:ASN:CB	2.46	0.43
51:M5:96:ARG:HG2	51:M5:96:ARG:NH1	2.40	0.43
54:M8:89:ASP:HB3	36:5:677:A:OP1	134.33	0.43
21:C9:86:ARG:HG3	21:C9:86:ARG:HH11	1.82	0.43
36:1:1556:C:C5'	36:1:2169:G:H22	2.31	0.43
1:2:788:A:H3'	6:S4:108:ARG:NH2	2.33	0.43
38:4:23:U:H4'	62:N6:17:LYS:HG2	2.00	0.43
36:1:784:A:H2'	54:M8:69:ARG:HH21	1.83	0.43
12:C0:49:LEU:HB3	12:C0:55:VAL:HG13	2.52	0.43
40:L3:92:TYR:HE1	40:L3:159:ARG:HD2	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2541:U:H4'	36:5:2542:U:OP1	2.18	0.43
71:O5:14:LYS:HB3	71:O5:15:GLU:OE2	7.31	0.43
36:5:127:G:H2'	36:5:128:G:H8	1.83	0.43
1:2:730:G:H21	1:2:731:C:H5'	1.84	0.43
69:O3:45:LEU:HA	69:O3:71:VAL:CG1	2.85	0.43
6:S4:52:LEU:HB3	6:S4:54:TYR:HD2	1.94	0.43
12:C0:25:LYS:HB2	12:C0:59:PHE:HE2	2.68	0.43
9:S7:102:PRO:HD3	9:S7:112:ARG:HD3	2.93	0.43
41:L4:71:VAL:HG22	41:L4:72:ALA:H	1.82	0.43
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	2.37	0.43
36:1:2419:A:H2'	36:1:2420:C:H6	1.83	0.43
11:S9:66:ASP:OD2	11:S9:68:LYS:N	2.98	0.43
58:N2:77:LYS:HD2	58:N2:95:PHE:CD1	4.76	0.43
88:1:3982:OHX:N5	88:1:4170:OHX:N2	2.66	0.43
36:5:3218:A:C2	36:5:3277:U:H1'	2.53	0.43
37:7:114:U:H2'	37:7:115:G:H8	1.83	0.43
50:M4:85:TRP:NE1	50:M4:90:VAL:HG13	2.33	0.43
36:1:2396:G:N2	36:1:2985:C:C2	2.86	0.43
36:5:999:G:C6	36:5:1000:C:N4	2.86	0.43
36:1:401:U:H4'	36:1:403:C:C2	2.53	0.43
1:6:1424:A:H2'	1:6:1425:A:O4'	2.18	0.43
36:1:2167:A:C6	36:1:2168:A:C6	3.05	0.43
36:1:1881:A:H61	36:1:2351:U:H3	1.65	0.43
36:1:2267:C:H2'	36:1:2268:U:O4'	2.18	0.43
71:O5:74:LYS:HE2	71:O5:75:TYR:CZ	4.43	0.43
1:2:1792:G:O5'	28:D6:3:LYS:HA	2.18	0.43
36:1:1345:G:N7	88:1:3970:OHX:N4	2.66	0.43
29:D7:67:THR:HG22	29:D7:68:GLY:H	1.83	0.43
35:SM:50:ASN:N	35:SM:50:ASN:OD1	2.62	0.43
30:D8:8:THR:HB	30:D8:56:LEU:O	2.19	0.43
57:N1:83:ARG:HD2	57:N1:85:LEU:HD21	2.00	0.43
34:SR:81:LEU:HD21	34:SR:122:ILE:HD13	2.00	0.43
39:L2:185:ALA:O	39:L2:188:LYS:HB3	2.19	0.43
88:1:4044:OHX:N4	88:1:4057:OHX:N1	2.66	0.43
17:C5:22:LEU:HA	17:C5:25:LEU:HD12	2.64	0.43
36:5:3362:A:C2	36:5:3363:U:C2	3.07	0.43
36:5:3193:C:H2'	36:5:3194:C:C6	2.53	0.43
1:2:1774:G:N7	77:Q1:4:LYS:NZ	2.66	0.43
28:D6:78:ALA:HA	28:D6:83:ILE:HG13	7.86	0.43
18:C6:113:ASP:CG	18:C6:114:ARG:H	2.22	0.43
7:S5:41:LYS:HB3	7:S5:41:LYS:HE2	2.70	0.43
47:M0:12:GLN:HG2	47:M0:128:ARG:CZ	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:M6:65:ASN:O	52:M6:68:ARG:HG2	2.38	0.43
38:4:125:U:HO2'	38:4:126:A:P	2.41	0.43
63:N7:46:ILE:HD11	63:N7:49:TYR:CA	2.43	0.43
36:1:77:A:H5'	49:M3:100:ARG:NH1	2.34	0.43
1:2:1556:A:C5	1:2:1560:U:C2	3.06	0.43
55:M9:9:ARG:NH2	36:5:1603:A:OP1	110.24	0.43
34:SR:115:ILE:HG13	34:SR:121:MET:O	3.28	0.43
29:D7:59:CYS:O	29:D7:61:THR:N	3.29	0.43
23:D1:64:GLU:O	23:D1:68:SER:HB2	2.19	0.43
6:S4:108:ARG:NH1	1:6:788:A:OP2	397.21	0.43
1:2:1235:C:O2'	33:E1:149:LYS:HE3	2.18	0.43
42:L5:40:HIS:CE1	42:L5:42:ALA:HB3	3.72	0.43
9:S7:74:GLN:O	9:S7:78:THR:OG1	2.18	0.43
1:6:72:A:H5'	1:6:73:U:OP2	2.17	0.43
39:L2:156:LYS:NZ	36:5:2158:A:OP2	204.24	0.43
19:C7:27:ASP:OD2	19:C7:30:THR:HG23	2.18	0.43
43:L6:170:LYS:HB3	43:L6:172:HIS:CE1	3.31	0.43
1:2:1671:A:H2'	1:2:1672:G:O4'	2.18	0.43
52:M6:116:LYS:HG3	52:M6:117:ARG:N	2.33	0.43
64:N8:82:ILE:HA	64:N8:82:ILE:HD12	4.32	0.43
14:C2:89:ILE:HD13	14:C2:90:LYS:N	2.33	0.43
36:1:40:A:C2	64:N8:40:HIS:CE1	3.07	0.43
39:L2:79:ASN:ND2	39:L2:165:VAL:HG22	2.33	0.43
36:5:1454:A:OP1	88:5:4200:OHX:N6	2.52	0.43
36:5:352:A:N6	36:5:365:A:H5''	2.32	0.43
66:O0:66:LYS:H	66:O0:66:LYS:CD	3.36	0.43
36:1:3295:A:H5'	40:L3:119:TYR:HE1	1.82	0.43
7:S5:201:ALA:HA	7:S5:211:ILE:HG13	3.34	0.43
1:6:727:U:H2'	1:6:728:U:C6	2.53	0.43
16:C4:90:ARG:HB3	16:C4:91:THR:H	1.57	0.43
1:6:1005:A:H2'	1:6:1006:C:C6	2.53	0.43
42:L5:81:HIS:O	42:L5:84:PRO:HD2	2.19	0.43
45:L8:71:VAL:HG13	45:L8:234:GLY:C	2.39	0.43
59:N3:69:LEU:HD12	59:N3:69:LEU:HA	2.22	0.43
78:Q2:43:TYR:O	78:Q2:47:GLN:HB2	2.55	0.43
20:C8:42:TYR:HE2	20:C8:73:MET:HG2	2.55	0.43
3:S1:161:ILE:H	3:S1:161:ILE:HG13	1.80	0.43
1:2:577:G:H2'	35:SM:99:LYS:NZ	2.33	0.43
36:5:971:G:H2'	36:5:972:A:O4'	2.17	0.43
36:1:2342:U:H5''	36:1:3089:C:O2'	2.19	0.43
1:6:1147:A:C6	1:6:1148:C:C4	3.07	0.43
1:6:1690:G:H1	1:6:1711:C:H42	1.66	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2186:U:H2'	36:1:2187:G:O4'	2.19	0.43
34:SR:231:MET:HB3	34:SR:232:TYR:HD2	1.83	0.43
36:1:1734:G:H2'	36:1:1735:G:O4'	2.19	0.43
1:2:892:A:H2'	1:2:893:U:C6	2.53	0.43
36:5:2691:A:H2'	36:5:2692:A:C8	2.53	0.43
1:6:1450:U:OP2	88:6:2124:OHX:N4	2.51	0.43
36:1:819:U:OP1	73:O7:10:LYS:NZ	2.45	0.43
55:M9:70:LYS:HD2	55:M9:70:LYS:HA	1.64	0.43
36:5:2610:G:H2'	36:5:2611:U:O4'	2.17	0.43
1:2:545:A:H4'	1:2:546:U:OP1	2.19	0.43
36:1:1101:G:H5''	44:L7:107:ARG:HD3	2.00	0.43
51:M5:116:LEU:HB3	51:M5:133:ILE:HG13	2.00	0.43
5:S3:7:LYS:NZ	22:D0:27:THR:HG21	2.33	0.43
40:L3:284:ARG:NH2	40:L3:293:ASN:O	3.65	0.43
3:S1:180:THR:OG1	3:S1:181:LEU:N	4.36	0.43
88:6:2057:OHX:N1	88:6:2143:OHX:N3	2.67	0.43
28:D6:36:ILE:HD12	28:D6:78:ALA:HB1	2.01	0.43
36:1:1063:G:H2'	36:1:1097:G:N2	2.33	0.43
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.60	0.43
19:C7:22:PRO:HA	34:SR:216:LYS:NZ	2.33	0.43
13:C1:46:LYS:O	13:C1:50:GLU:HG2	4.45	0.43
7:S5:94:THR:O	7:S5:97:LEU:HB2	2.18	0.43
27:D5:59:TYR:CE1	27:D5:100:ILE:HG23	6.05	0.43
63:N7:51:LEU:HD23	63:N7:51:LEU:HA	2.61	0.43
1:2:582:U:H3'	1:2:583:C:C6	2.53	0.43
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.19	0.43
29:D7:19:HIS:HD2	29:D7:21:LEU:N	5.96	0.43
47:M0:22:TYR:CZ	36:5:1048:A:H2'	268.07	0.43
2:S0:126:PRO:HG2	2:S0:151:SER:HB2	3.33	0.43
36:1:3276:G:OP1	36:1:3276:G:H4'	2.19	0.43
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	2.66	0.43
24:D2:126:LEU:HD23	24:D2:126:LEU:HA	2.83	0.43
64:N8:79:TRP:CH2	64:N8:91:LEU:HD13	2.63	0.43
1:6:1390:U:H5	1:6:1412:G:HO2'	1.65	0.43
26:D4:44:LEU:O	26:D4:47:VAL:HB	2.18	0.43
2:S0:57:LEU:HD21	2:S0:177:LEU:HA	1.99	0.43
10:S8:21:PHE:CZ	10:S8:22:ARG:HD3	2.53	0.43
36:1:1080:A:OP1	42:L5:140:ARG:HB2	2.18	0.43
57:N1:73:GLY:HA2	57:N1:89:LEU:O	2.33	0.43
26:D4:35:VAL:HG11	26:D4:40:LEU:HD21	1.99	0.43
45:L8:186:LEU:O	45:L8:189:LEU:HB3	4.30	0.43
45:L8:47:SER:O	45:L8:50:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:M3:59:ARG:HD3	36:5:73:C:C2	93.73	0.43
88:2:2044:OHX:N2	88:2:2099:OHX:N5	2.66	0.43
1:6:1045:C:C2	1:6:1074:G:C2	3.06	0.43
46:L9:104:VAL:HG11	46:L9:113:GLU:OE2	2.33	0.43
36:1:3082:C:H2'	36:1:3083:G:H8	1.84	0.43
36:1:1864:A:O4'	55:M9:83:GLY:HA3	2.18	0.43
69:O3:49:ILE:CG2	69:O3:100:ILE:HG13	2.48	0.43
9:S7:21:ALA:O	9:S7:24:PHE:HB2	2.31	0.43
36:1:1108:U:H2'	36:1:1109:U:C6	2.53	0.43
39:L2:187:HIS:ND1	39:L2:190:ARG:NH1	4.47	0.43
40:L3:247:ARG:HG3	36:5:1889:G:OP1	209.10	0.43
36:5:571:U:H2'	36:5:572:A:C8	2.53	0.43
36:5:3379:C:H2'	36:5:3380:U:O4'	2.19	0.43
15:C3:15:ALA:HB2	29:D7:20:LYS:HD3	3.89	0.43
36:1:1489:A:OP1	70:O4:10:ARG:NH1	2.51	0.43
79:Q3:50:GLY:O	79:Q3:51:ALA:HB3	2.19	0.43
49:M3:106:GLN:HG3	49:M3:110:ASP:OD2	2.18	0.43
36:1:2973:G:N7	88:1:4111:OHX:N2	2.67	0.43
47:M0:48:LEU:HD22	47:M0:49:CYS:N	2.33	0.43
7:S5:144:GLU:HA	7:S5:162:VAL:HG13	2.84	0.43
1:2:580:A:H5''	5:S3:143:ARG:HH12	1.84	0.43
4:S2:186:LYS:HD2	4:S2:189:GLN:OE1	4.20	0.43
69:O3:8:TYR:CE2	69:O3:99:ARG:HG2	2.58	0.43
40:L3:285:VAL:HG13	40:L3:322:ILE:CD1	2.48	0.43
1:2:1074:G:H2'	1:2:1075:C:C6	2.53	0.43
38:4:67:U:H5''	73:O7:84:SER:O	2.18	0.43
36:5:561:C:H2'	36:5:562:C:H6	1.83	0.43
25:D3:142:LYS:HA	25:D3:143:PRO:HD3	1.83	0.43
36:5:1015:U:O3'	36:5:1016:C:H2'	2.17	0.43
7:S5:124:LEU:HA	7:S5:124:LEU:HD12	3.37	0.43
45:L8:65:LEU:HD22	45:L8:65:LEU:O	2.82	0.43
53:M7:131:ARG:HA	53:M7:131:ARG:HD2	1.90	0.43
36:5:1690:C:C4	36:5:1691:U:C4	3.06	0.43
72:O6:21:THR:HA	72:O6:22:PRO:HD2	2.23	0.43
41:L4:295:ILE:HG22	41:L4:299:ILE:HD11	2.32	0.43
18:C6:23:LYS:O	18:C6:63:ILE:HG22	2.18	0.43
50:M4:128:ARG:HG2	50:M4:132:LYS:HG3	2.01	0.43
77:Q1:5:TRP:CH2	1:6:1784:C:N4	296.86	0.43
77:Q1:2:ARG:HB3	77:Q1:5:TRP:CD1	2.53	0.43
47:M0:77:THR:HG23	47:M0:85:PHE:HZ	1.86	0.43
54:M8:26:LEU:O	54:M8:30:VAL:HG23	2.19	0.43
26:D4:112:LYS:O	26:D4:115:ASP:HB2	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D4:37:LYS:O	26:D4:41:ARG:HG3	2.19	0.43
1:2:1400:A:H4'	19:C7:60:ARG:HH22	1.83	0.43
19:C7:41:ILE:HG23	19:C7:46:LEU:HD13	2.00	0.43
53:M7:32:THR:HG21	53:M7:87:SER:HB2	2.01	0.43
1:2:144:U:H5	8:S6:137:ARG:NH1	2.17	0.43
34:SR:135:THR:CG2	34:SR:141:LEU:HD23	2.46	0.43
67:O1:23:VAL:HG11	67:O1:28:ARG:HA	2.41	0.43
1:2:38:C:H2'	1:2:39:A:H5'	2.01	0.43
1:2:38:C:O2'	1:2:39:A:H5'	2.19	0.43
36:1:675:C:O2'	36:1:679:U:OP1	2.36	0.43
63:N7:3:LYS:O	63:N7:6:LYS:HG3	2.18	0.43
25:D3:29:TYR:CZ	25:D3:33:LEU:HD13	2.66	0.43
58:N2:17:VAL:HA	58:N2:103:TYR:O	2.19	0.43
4:S2:141:ARG:HG2	23:D1:10:GLU:OE2	2.18	0.43
36:5:411:U:H2'	36:5:412:G:C8	2.52	0.43
4:S2:163:GLY:HA3	4:S2:209:ASN:ND2	2.34	0.43
5:S3:68:GLU:OE2	12:C0:67:THR:HG23	2.19	0.43
53:M7:127:ARG:HB2	53:M7:139:TYR:O	2.89	0.43
64:N8:126:LYS:HA	64:N8:146:GLU:O	2.43	0.43
41:L4:216:VAL:HG13	41:L4:227:THR:OG1	4.19	0.43
1:2:210:A:H2'	1:2:211:U:O4'	2.19	0.43
58:N2:104:ARG:NH2	36:5:1758:G:H5'	119.77	0.43
39:L2:113:VAL:HG12	39:L2:166:ILE:HD13	2.17	0.43
48:M1:30:LEU:HD21	48:M1:67:VAL:HG13	2.00	0.43
4:S2:235:LEU:HD11	23:D1:54:ALA:HB2	2.01	0.43
49:M3:16:LYS:O	49:M3:17:HIS:HB2	4.60	0.43
6:S4:77:ARG:HD2	6:S4:82:TYR:CD1	5.24	0.43
63:N7:15:ARG:NH1	63:N7:15:ARG:HG3	3.80	0.43
88:5:4014:OHX:N3	88:5:4205:OHX:N1	2.67	0.43
34:SR:57:PRO:HB2	34:SR:58:VAL:H	1.43	0.43
3:S1:36:SER:H	3:S1:231:LEU:HD13	1.83	0.43
36:5:2516:U:O2'	36:5:2595:A:N1	2.46	0.43
38:4:79:A:H2'	38:4:80:A:H1'	2.01	0.43
8:S6:7:TYR:CD1	8:S6:125:THR:HA	3.28	0.43
1:2:70:C:H2'	1:2:71:A:O4'	2.19	0.43
42:L5:252:ALA:O	42:L5:253:PHE:HB3	2.19	0.43
49:M3:93:ILE:HA	49:M3:93:ILE:HD13	1.66	0.43
36:1:1483:G:O6	70:O4:4:ARG:NH2	2.40	0.43
1:6:518:A:O2'	1:6:534:A:N6	2.52	0.43
1:2:1086:A:C6	1:2:1087:A:C6	3.07	0.43
49:M3:32:LYS:HA	49:M3:35:ARG:NH1	3.14	0.43
36:1:684:G:H5''	49:M3:35:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
76:Q0:110:CYS:SG	76:Q0:111:ARG:N	2.91	0.43
36:1:3228:C:H4'	36:1:3229:G:O5'	2.18	0.43
47:M0:24:ARG:O	47:M0:25:ALA:HB3	4.63	0.43
20:C8:76:PRO:O	20:C8:81:ILE:HB	2.25	0.43
1:2:1207:C:H42	1:2:1456:C:H5	1.65	0.43
36:5:2833:A:C2	36:5:2834:G:C8	3.07	0.43
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.18	0.43
38:8:43:A:OP1	88:8:226:OHX:N3	2.51	0.43
1:6:206:A:H1'	1:6:262:U:C2	2.54	0.43
8:S6:194:LYS:HD2	1:6:178:U:O4	326.83	0.43
36:1:3024:A:C2	36:1:3032:A:C5	3.07	0.43
11:S9:80:LEU:HB3	11:S9:86:LEU:HB2	2.32	0.43
11:S9:77:ILE:HG23	11:S9:86:LEU:HD23	2.12	0.43
1:6:1091:A:H4'	1:6:1092:A:O5'	2.18	0.43
36:1:1256:G:O6	36:1:1261:G:N2	2.51	0.43
47:M0:98:ARG:HB3	47:M0:120:GLY:HA3	2.05	0.43
36:1:1645:U:H2'	36:1:1646:G:H5'	2.00	0.43
67:O1:71:LEU:HA	67:O1:71:LEU:HD23	1.83	0.43
40:L3:287:LYS:HE3	40:L3:287:LYS:HB3	2.47	0.43
6:S4:170:THR:OG1	6:S4:170:THR:O	3.79	0.43
1:6:569:C:H2'	1:6:570:A:O4'	2.18	0.43
1:6:1483:A:H2'	1:6:1484:G:C8	2.54	0.43
39:L2:150:LEU:HB3	39:L2:151:PRO:CD	2.49	0.43
36:5:960:U:H4'	36:5:963:G:N1	2.33	0.43
78:Q2:77:CYS:SG	78:Q2:79:THR:HG23	4.71	0.43
1:6:1552:U:H2'	1:6:1553:G:O4'	2.19	0.43
88:1:4044:OHX:N4	88:1:4057:OHX:N3	2.67	0.43
41:L4:3:ARG:O	41:L4:5:GLN:N	2.52	0.43
1:2:960:U:H2'	1:2:961:U:C6	2.53	0.43
3:S1:68:VAL:HG22	3:S1:69:CYS:O	2.17	0.43
64:N8:8:THR:HG21	36:5:662:U:OP1	150.02	0.43
21:C9:57:ARG:NH2	21:C9:80:TYR:HB3	2.34	0.43
43:L6:31:ARG:HH11	69:O3:107:ILE:C	2.20	0.43
8:S6:63:MET:HA	8:S6:98:ARG:O	2.18	0.43
28:D6:37:LYS:O	28:D6:38:ARG:NE	3.49	0.43
1:2:1566:U:O2'	1:2:1567:U:H5'	2.19	0.43
6:S4:48:LEU:HD12	6:S4:48:LEU:HA	1.78	0.43
36:1:1573:G:N2	36:1:1574:C:O2'	2.52	0.43
39:L2:69:TYR:O	39:L2:70:ARG:HB3	2.18	0.43
16:C4:31:THR:OG1	16:C4:32:ASP:O	3.02	0.43
15:C3:85:PRO:HG2	15:C3:129:TYR:CE2	2.71	0.43
36:1:829:U:N3	36:1:895:A:N6	2.64	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D5:82:HIS:O	27:D5:85:LYS:HB2	3.16	0.43
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.45	0.43
7:S5:59:VAL:O	7:S5:60:ASP:HB2	2.19	0.43
30:D8:64:ARG:HB3	30:D8:65:ARG:H	1.73	0.43
2:S0:119:ARG:NH1	2:S0:119:ARG:HB3	2.32	0.43
62:N6:109:LEU:HD22	62:N6:115:ARG:CZ	2.49	0.43
64:N8:74:ASN:CB	64:N8:115:LYS:HB2	2.48	0.43
36:5:1566:A:C2'	36:5:1567:U:H5'	2.48	0.43
30:D8:52:ASP:N	30:D8:52:ASP:OD2	3.92	0.43
1:6:1234:A:H2'	1:6:1235:C:C5	2.53	0.43
57:N1:48:ILE:HG13	57:N1:94:GLU:HG2	2.56	0.43
35:SM:58:GLU:O	35:SM:62:ARG:HB2	2.74	0.43
1:6:250:C:H2'	1:6:251:A:H8	1.82	0.43
75:O9:42:ARG:HG2	75:O9:43:ASN:N	2.58	0.43
45:L8:94:PHE:HB3	45:L8:189:LEU:HD21	4.77	0.43
1:6:892:A:H2'	1:6:893:U:O4'	2.19	0.43
19:C7:24:LEU:HD22	19:C7:31:ASN:ND2	2.33	0.43
36:1:3315:G:C5	40:L3:123:TYR:CE2	3.06	0.43
36:5:59:G:H2'	38:8:33:A:O2'	2.19	0.43
36:1:1599:G:H2'	36:1:1600:U:C6	2.54	0.43
51:M5:49:ARG:NH1	36:5:149:U:P	100.75	0.43
52:M6:18:ARG:NH1	36:5:1315:U:OP1	278.14	0.43
62:N6:69:LYS:O	62:N6:83:ASP:N	2.73	0.43
18:C6:127:LYS:HE2	18:C6:132:LYS:O	4.83	0.43
36:5:2207:A:N6	36:5:2236:G:H1	2.16	0.43
1:2:720:G:H1'	1:2:721:U:C5'	2.49	0.43
24:D2:82:LYS:O	24:D2:83:ILE:HG22	2.19	0.43
71:O5:10:ARG:HD3	71:O5:60:GLU:OE1	2.18	0.43
38:8:27:U:H6	38:8:27:U:O5'	2.01	0.43
68:O2:12:LYS:HD3	68:O2:57:TYR:HA	3.21	0.43
1:6:154:G:H1	1:6:160:C:H42	1.67	0.43
1:2:27:U:OP1	88:2:2084:OHX:N6	2.51	0.43
1:2:823:G:O2'	1:2:824:G:OP1	2.26	0.43
36:1:1103:A:H1'	36:1:1104:G:OP1	2.19	0.43
59:N3:46:LEU:HD12	59:N3:46:LEU:HA	1.74	0.43
36:5:1313:G:H2'	36:5:1314:C:C6	2.54	0.43
36:5:1783:U:H2'	36:5:1784:G:C8	2.53	0.43
1:2:1165:G:O6	1:2:1166:A:N6	2.52	0.43
32:E0:46:ASN:O	32:E0:47:VAL:HG12	2.19	0.43
42:L5:261:THR:OG1	42:L5:264:GLN:HG3	2.18	0.43
36:5:2880:U:H2'	36:5:2881:C:C6	2.53	0.43
61:N5:74:LYS:O	61:N5:78:ASP:HB2	2.46	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
63:N7:105:SER:HA	63:N7:108:GLU:HG3	2.01	0.43
1:2:864:U:C5	29:D7:22:LYS:HG2	2.54	0.43
39:L2:51:ASP:HB3	39:L2:54:ARG:HD2	2.19	0.43
36:5:189:G:H2'	36:5:224:C:OP1	2.18	0.43
10:S8:89:GLU:HA	10:S8:92:ARG:NH1	6.32	0.43
36:5:638:C:N4	36:5:647:A:OP1	2.41	0.43
1:2:150:U:P	26:D4:123:LYS:HZ3	2.42	0.43
36:1:2369:G:H2'	36:1:2370:G:O4'	2.18	0.43
6:S4:5:PRO:HB2	6:S4:7:LYS:HZ2	1.84	0.43
10:S8:18:ARG:HG2	10:S8:18:ARG:H	3.41	0.43
59:N3:70:ARG:HB3	59:N3:70:ARG:CZ	3.03	0.43
1:2:826:U:H2'	1:2:827:C:C6	2.53	0.43
41:L4:4:PRO:O	41:L4:5:GLN:HB2	2.25	0.43
16:C4:18:ARG:HB2	16:C4:18:ARG:HE	4.28	0.43
36:1:1213:G:C2	36:1:1293:U:C2	3.06	0.43
1:6:488:G:H2'	1:6:498:G:O6	2.19	0.43
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.83	0.43
88:5:3981:OHX:N6	88:5:4203:OHX:N5	2.67	0.43
10:S8:108:PRO:HA	10:S8:111:GLN:HB2	2.42	0.43
61:N5:56:ARG:HG2	38:8:134:G:OP1	78.69	0.43
1:2:473:A:H4'	1:2:768:C:O2	2.19	0.43
11:S9:118:LEU:HD23	11:S9:158:PHE:CE1	4.29	0.43
36:1:3047:U:O2'	36:1:3048:A:H5'	2.19	0.43
36:1:3050:U:O2'	60:N4:16:GLY:O	2.34	0.43
14:C2:67:THR:HG22	14:C2:68:GLU:HG3	2.01	0.43
1:2:1097:U:O4	4:S2:201:ASN:ND2	2.50	0.43
28:D6:87:ARG:HD2	1:6:1797:A:C6	343.94	0.43
25:D3:69:ARG:HH11	25:D3:116:ASP:CG	2.22	0.43
48:M1:94:ARG:C	48:M1:96:PHE:H	2.16	0.43
47:M0:38:LYS:NZ	47:M0:45:GLU:OE1	2.69	0.43
3:S1:27:LYS:HD3	3:S1:48:VAL:C	2.39	0.43
3:S1:58:SER:O	3:S1:62:LYS:HD3	2.63	0.43
1:6:827:C:C2'	1:6:828:U:H5'	2.49	0.43
16:C4:31:THR:HA	16:C4:38:THR:HA	2.49	0.43
2:S0:41:ARG:HE	2:S0:45:VAL:CG2	2.32	0.43
6:S4:187:ARG:NH2	1:6:753:A:N7	373.88	0.43
36:1:543:C:H3'	36:1:544:C:C6	2.54	0.43
20:C8:18:LEU:HA	20:C8:18:LEU:HD12	1.88	0.43
26:D4:20:ARG:HD3	26:D4:76:TYR:CE2	3.72	0.43
39:L2:15:ILE:HG23	39:L2:194:ASN:ND2	5.37	0.43
44:L7:125:GLU:HA	44:L7:128:LYS:HG3	2.53	0.43
21:C9:100:ILE:HD13	21:C9:100:ILE:HA	1.75	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:210:ILE:HD13	47:M0:217:PHE:CE2	4.50	0.43
57:N1:9:SER:O	57:N1:11:THR:HG23	2.78	0.43
56:N0:20:PRO:O	56:N0:21:GLU:HB2	2.19	0.43
1:2:1388:A:C5	1:2:1411:A:C6	3.06	0.43
20:C8:135:GLY:CA	1:6:1559:A:H5''	365.41	0.43
36:5:1815:U:O2'	36:5:1816:A:P	2.77	0.43
36:1:158:G:H2'	36:1:159:A:H8	1.82	0.43
36:1:158:G:H2'	36:1:159:A:C8	2.54	0.43
51:M5:172:ARG:CZ	51:M5:174:ILE:HD11	2.49	0.43
13:C1:5:LEU:HD22	13:C1:5:LEU:H	4.67	0.43
19:C7:84:TYR:C	19:C7:85:VAL:HG23	2.39	0.43
2:S0:163:ASN:HB3	2:S0:169:SER:OG	3.16	0.43
72:O6:82:ARG:O	72:O6:86:LYS:N	2.47	0.43
39:L2:174:ARG:O	79:Q3:69:TYR:OH	2.32	0.43
36:5:268:A:O4'	36:5:270:U:H1'	2.19	0.43
41:L4:209:TYR:O	41:L4:230:VAL:HG22	2.38	0.43
1:2:434:G:N2	1:2:436:A:H3'	2.34	0.43
1:2:436:A:H5''	1:2:437:A:OP1	2.18	0.43
39:L2:117:GLU:HB3	39:L2:122:ASP:OD2	2.88	0.43
1:6:970:A:H2'	1:6:971:A:H5'	2.01	0.43
43:L6:171:PRO:C	43:L6:173:MET:H	2.42	0.43
31:D9:31:ILE:HA	31:D9:31:ILE:HD13	1.92	0.43
49:M3:144:THR:HB	49:M3:145:PHE:CD2	2.53	0.43
6:S4:128:LYS:HD3	6:S4:130:GLN:OE1	4.60	0.43
47:M0:119:TRP:HZ3	36:5:1126:G:H5''	256.99	0.43
46:L9:19:SER:C	46:L9:20:ILE:HG13	2.39	0.43
55:M9:81:ARG:HG2	55:M9:88:ARG:CZ	2.48	0.43
41:L4:119:ARG:O	41:L4:120:TYR:C	2.56	0.43
5:S3:49:ILE:HG21	5:S3:89:GLU:HG3	2.00	0.43
5:S3:217:ILE:HG22	5:S3:218:LEU:H	1.83	0.43
64:N8:58:MET:SD	36:5:2775:U:H1'	153.38	0.43
61:N5:92:LYS:HD3	61:N5:110:VAL:O	4.40	0.43
88:1:3982:OHX:N3	88:1:4170:OHX:N4	2.66	0.43
41:L4:39:PHE:CD2	41:L4:242:ALA:HB2	2.71	0.43
40:L3:27:ALA:HB2	40:L3:220:VAL:HG23	2.11	0.43
36:1:1863:G:N1	36:1:1866:C:OP2	2.48	0.43
36:1:2344:U:H2'	36:1:2345:A:C8	2.54	0.43
5:S3:98:ALA:HB1	5:S3:171:ALA:H	3.69	0.43
36:5:2993:G:C6	36:5:3142:A:C4	3.07	0.43
1:2:1317:C:H2'	1:2:1318:G:O4'	2.19	0.43
24:D2:96:ALA:HB3	24:D2:99:PHE:CE1	2.65	0.43
36:1:1336:U:H2'	36:1:1337:A:C8	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:S9:78:ARG:NH1	1:6:764:U:OP2	419.15	0.43
26:D4:77:ASN:O	26:D4:78:SER:HB3	4.36	0.43
39:L2:112:ILE:HD11	39:L2:168:VAL:HG12	5.76	0.43
36:5:1470:U:H2'	36:5:1471:U:C6	2.54	0.43
36:1:3022:G:O2'	36:1:3031:G:O6	2.30	0.43
19:C7:99:VAL:HA	19:C7:118:PRO:CB	2.94	0.43
23:D1:41:GLU:OE2	23:D1:41:GLU:N	2.52	0.43
2:S0:170:ILE:HD12	2:S0:170:ILE:H	1.83	0.43
44:L7:124:LEU:HD22	44:L7:124:LEU:HA	1.90	0.43
62:N6:108:LYS:HA	62:N6:108:LYS:HD3	4.29	0.43
51:M5:164:LEU:HA	51:M5:164:LEU:HD23	1.86	0.43
22:D0:33:GLN:OE1	22:D0:33:GLN:N	2.71	0.43
22:D0:58:LEU:CD1	22:D0:88:LYS:HD2	2.49	0.43
21:C9:57:ARG:HH22	21:C9:80:TYR:HB3	2.27	0.43
8:S6:58:LYS:H	8:S6:58:LYS:HG2	1.54	0.43
47:M0:76:MET:CE	47:M0:148:VAL:HG13	2.49	0.43
65:N9:28:LYS:HD3	36:5:1065:A:N3	216.02	0.43
1:6:844:A:H2'	1:6:845:G:H8	1.84	0.43
63:N7:36:HIS:N	63:N7:37:PRO:HD3	2.54	0.43
1:2:142:G:N2	1:2:173:A:H2	2.11	0.43
1:2:329:G:H5'	10:S8:99:ALA:HB3	2.01	0.43
4:S2:45:VAL:HG21	4:S2:68:ILE:HG12	2.00	0.43
40:L3:232:ARG:NH2	36:5:2989:U:O3'	216.38	0.43
3:S1:101:HIS:HA	3:S1:217:LEU:CD2	2.49	0.43
47:M0:210:ILE:HA	47:M0:217:PHE:HE2	2.16	0.43
24:D2:125:ILE:HG13	24:D2:126:LEU:O	2.19	0.43
62:N6:36:SER:HB3	62:N6:106:ILE:O	2.18	0.43
36:1:2310:U:OP1	88:1:4152:OHX:N1	2.51	0.43
36:1:1567:U:H5	36:1:1568:U:C2	2.37	0.43
36:5:3164:C:O2'	36:5:3165:A:P	2.77	0.43
36:5:2947:G:N2	36:5:2948:C:C2	2.87	0.43
37:7:112:G:H2'	37:7:113:C:C6	2.54	0.43
1:6:484:C:N4	1:6:503:G:H22	2.16	0.43
49:M3:178:LYS:HD3	49:M3:179:PHE:CE2	2.64	0.43
72:O6:99:ARG:HB3	72:O6:100:HIS:H	1.53	0.43
46:L9:41:ILE:O	46:L9:42:ASP:HB2	2.17	0.43
32:E0:55:ARG:NH1	1:6:557:G:OP1	417.26	0.43
24:D2:45:GLY:O	24:D2:47:ILE:N	2.52	0.43
9:S7:143:LEU:O	24:D2:42:GLN:NE2	4.10	0.43
33:E1:121:CYS:HB3	33:E1:130:VAL:HG11	4.81	0.43
52:M6:182:ASN:OD1	52:M6:186:ALA:HB2	5.74	0.43
36:1:1887:A:OP1	88:1:4100:OHX:N3	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:M5:63:ARG:NH2	51:M5:131:GLU:OE2	2.51	0.43
45:L8:157:VAL:HG21	45:L8:163:VAL:HG21	2.39	0.43
47:M0:184:LYS:HA	47:M0:189:GLU:OE2	2.19	0.43
40:L3:205:VAL:O	40:L3:208:VAL:HG23	3.30	0.43
43:L6:46:ARG:HG3	43:L6:46:ARG:HH11	3.34	0.43
8:S6:121:LEU:N	8:S6:125:THR:OG1	3.79	0.43
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.67	0.43
67:O1:36:ILE:O	67:O1:39:PHE:HB3	2.19	0.43
36:1:371:G:O6	88:1:4194:OHX:N4	2.51	0.43
36:5:1465:A:H5''	36:5:1466:G:OP2	2.19	0.43
36:1:2707:C:H2'	36:1:2708:C:C6	2.53	0.43
6:S4:148:ARG:HG2	6:S4:148:ARG:H	2.00	0.43
36:1:1364:C:H4'	54:M8:9:GLN:OE1	2.19	0.43
1:6:1586:A:H2'	1:6:1587:A:O4'	2.18	0.43
1:2:590:C:H5''	32:E0:43:ARG:HH12	1.83	0.43
36:1:2413:A:H2'	36:1:2414:G:C8	2.54	0.43
25:D3:41:SER:HA	25:D3:42:PRO:HD3	1.94	0.43
36:1:2236:G:OP1	88:1:4131:OHX:N6	2.52	0.43
1:2:381:C:H2'	1:2:382:C:C6	2.54	0.43
1:2:383:G:N7	88:2:2130:OHX:N4	2.66	0.43
36:1:289:A:H5'	51:M5:95:GLN:O	2.19	0.43
36:1:3282:U:H2'	36:1:3283:U:O4'	2.18	0.43
58:N2:29:ASP:OD2	58:N2:31:ALA:HB3	5.22	0.43
41:L4:42:VAL:HA	41:L4:45:ASN:ND2	2.34	0.43
55:M9:128:LYS:HE2	36:5:1723:A:OP1	232.67	0.43
36:5:3088:G:H2'	36:5:3089:C:O4'	2.19	0.43
20:C8:50:ALA:HB3	20:C8:52:VAL:HG23	2.00	0.43
36:1:3210:A:H2'	36:1:3211:C:C6	2.53	0.43
38:4:124:G:N2	38:4:130:C:C2	2.87	0.43
1:2:63:G:H4'	1:2:170:U:C5	2.54	0.43
41:L4:136:LEU:HA	41:L4:136:LEU:HD23	1.69	0.43
44:L7:207:LEU:HD23	44:L7:207:LEU:HA	1.74	0.43
47:M0:33:ILE:HG12	47:M0:33:ILE:O	2.19	0.43
65:N9:22:LYS:HG2	65:N9:22:LYS:H	1.50	0.43
22:D0:37:VAL:O	22:D0:41:ILE:HD13	2.19	0.43
28:D6:28:LYS:HB3	28:D6:29:SER:H	4.18	0.43
88:5:3981:OHX:N4	88:5:4203:OHX:N1	2.67	0.43
1:2:767:U:C5	11:S9:142:ASN:OD1	2.72	0.43
11:S9:133:HIS:C	11:S9:134:ILE:HG13	4.55	0.43
50:M4:121:MET:O	50:M4:125:LYS:HG3	3.11	0.43
36:1:2407:C:H1'	36:1:2818:U:C2	2.54	0.43
3:S1:130:SER:OG	3:S1:131:ASP:N	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:S1:137:ILE:HG22	3:S1:215:VAL:HG23	2.01	0.43
7:S5:20:PHE:CZ	7:S5:22:PRO:HG3	3.54	0.43
1:6:460:A:H3'	1:6:461:G:H8	1.84	0.43
1:6:1150:G:C6	1:6:1768:G:C6	3.07	0.43
36:1:2561:A:O2'	36:1:2562:A:H8	1.98	0.43
12:C0:32:HIS:NE2	12:C0:35:ILE:HB	2.34	0.43
15:C3:52:VAL:HG13	15:C3:55:ARG:HH12	2.13	0.43
44:L7:208:SER:HB2	36:5:1334:U:H1'	241.82	0.43
1:2:1572:G:H1'	7:S5:185:ARG:HH22	1.83	0.43
47:M0:190:VAL:HG12	47:M0:197:VAL:HG21	3.14	0.43
1:2:1229:G:O2'	1:2:1255:G:N2	2.41	0.43
26:D4:76:TYR:HB2	26:D4:82:ALA:HB2	2.66	0.43
39:L2:15:ILE:HG23	39:L2:194:ASN:HD22	4.76	0.43
30:D8:38:ARG:HH11	30:D8:40:ILE:HD11	1.83	0.43
22:D0:80:GLU:OE1	31:D9:44:ARG:HD2	2.66	0.43
19:C7:19:ARG:HG3	19:C7:20:TYR:CD1	2.52	0.43
51:M5:68:ARG:CG	51:M5:68:ARG:HH11	2.30	0.43
36:1:1554:U:H4'	36:1:1555:U:H5'	2.01	0.43
36:1:705:A:C4	36:1:715:A:N6	2.86	0.43
20:C8:40:ARG:NH1	1:6:1539:G:O4'	353.06	0.43
10:S8:2:GLY:HA2	1:6:1729:C:O2'	286.63	0.43
34:SR:164:ASP:C	34:SR:166:SER:H	2.22	0.43
4:S2:148:LEU:HB3	4:S2:149:GLY:H	1.59	0.43
52:M6:138:LEU:O	52:M6:141:LEU:N	2.89	0.43
20:C8:120:ARG:HA	20:C8:120:ARG:HD3	1.77	0.43
41:L4:185:LYS:HA	41:L4:200:THR:O	2.19	0.43
46:L9:99:ILE:HG22	46:L9:101:VAL:HG23	2.67	0.43
45:L8:143:ILE:HD11	45:L8:151:VAL:HG21	2.00	0.43
55:M9:4:LEU:O	55:M9:7:GLN:HG2	4.91	0.43
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.32	0.43
38:4:5:U:H2'	38:4:6:U:O4'	2.19	0.43
21:C9:28:LEU:HD23	21:C9:111:ILE:HD11	7.54	0.43
3:S1:26:ARG:HG2	3:S1:26:ARG:O	2.51	0.43
36:1:1054:A:H5"	36:1:2637:A:H61	1.84	0.43
14:C2:86:VAL:N	14:C2:87:PRO:HD3	2.60	0.43
10:S8:140:GLU:HG2	10:S8:143:TRP:CE3	5.99	0.43
2:S0:86:VAL:O	2:S0:89:PHE:N	2.52	0.43
15:C3:93:LYS:O	15:C3:96:VAL:HB	2.19	0.43
88:2:2044:OHX:N4	88:2:2099:OHX:N3	2.67	0.43
36:5:824:C:H2'	36:5:825:U:C6	2.54	0.43
45:L8:221:ASN:OD1	45:L8:225:LYS:NZ	3.65	0.43
52:M6:78:ARG:HH11	52:M6:78:ARG:HB3	3.81	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:196:G:N1	36:1:199:A:OP2	2.51	0.43
36:1:3174:A:H2'	36:1:3175:U:C5'	2.49	0.43
1:6:20:G:H5'	1:6:571:G:C4	2.54	0.43
36:1:2284:C:H5''	36:1:2285:C:OP2	2.19	0.43
48:M1:165:GLN:O	48:M1:166:LYS:C	2.57	0.43
1:2:1230:A:H2'	1:2:1258:U:C5	2.54	0.43
1:2:832:U:H2'	1:2:833:U:H5''	2.01	0.43
56:N0:27:MET:CE	57:N1:153:PRO:HD3	2.48	0.43
49:M3:28:GLN:NE2	36:5:683:U:OP2	100.04	0.43
40:L3:85:VAL:O	40:L3:162:VAL:HA	2.34	0.43
36:1:1821:U:C4	70:O4:67:LYS:HD2	2.53	0.43
45:L8:71:VAL:HG13	45:L8:235:GLY:N	2.90	0.43
9:S7:20:VAL:O	9:S7:23:ALA:HB3	2.27	0.43
18:C6:71:GLY:HA2	1:6:1483:A:H4'	409.92	0.43
15:C3:124:ARG:NH2	1:6:967:A:OP2	319.38	0.43
36:1:2607:G:H5'	39:L2:232:GLY:O	2.19	0.43
31:D9:56:ARG:HA	1:6:1419:G:O4'	409.23	0.43
51:M5:97:SER:O	51:M5:100:ALA:N	3.06	0.43
1:6:1242:A:H5''	1:6:1243:G:OP1	2.19	0.43
39:L2:172:GLY:HA3	79:Q3:67:GLY:HA2	3.67	0.43
44:L7:153:PHE:CE1	44:L7:162:PRO:HB3	2.54	0.43
36:1:1522:U:H3'	61:N5:113:LEU:HD22	2.01	0.43
36:1:3124:G:H5'	46:L9:40:HIS:ND1	2.34	0.43
1:2:156:A:H2'	1:2:157:A:O4'	2.19	0.43
36:1:629:U:H2'	36:1:630:A:C8	2.54	0.43
1:6:1467:C:H2'	1:6:1468:U:H6	1.83	0.43
22:D0:36:ASN:O	22:D0:40:ASN:HB2	2.19	0.43
69:O3:102:LEU:HA	69:O3:102:LEU:HD23	1.71	0.43
42:L5:124:GLU:O	42:L5:125:VAL:HB	2.19	0.43
6:S4:15:PRO:HG2	6:S4:18:TRP:CD2	2.54	0.42
18:C6:6:SER:OG	18:C6:7:VAL:N	4.22	0.42
51:M5:88:GLY:HA2	78:Q2:50:PHE:CE1	3.08	0.42
42:L5:269:SER:HB2	37:7:1:G:H21	318.13	0.42
10:S8:56:ARG:HH22	1:6:332:U:P	287.69	0.42
3:S1:129:THR:OG1	3:S1:131:ASP:OD1	6.16	0.42
36:1:3206:C:O2	56:N0:155:ARG:NH1	2.52	0.42
28:D6:5:ARG:HG2	1:6:1796:C:C6	342.67	0.42
18:C6:82:ARG:NH2	18:C6:114:ARG:HB3	2.30	0.42
47:M0:139:ARG:HB3	47:M0:173:PHE:CE1	2.53	0.42
41:L4:129:THR:HB	41:L4:246:ARG:O	2.93	0.42
42:L5:187:THR:H	42:L5:187:THR:HG1	4.92	0.42
19:C7:50:ILE:O	19:C7:51:ALA:C	2.92	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:156:G:P	72:O6:27:SER:HB3	2.58	0.42
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.65	0.42
7:S5:43:PHE:CG	7:S5:44:ASN:N	2.87	0.42
11:S9:99:LEU:HB3	11:S9:100:LYS:H	1.69	0.42
1:2:143:G:C2	1:2:173:A:N3	2.87	0.42
27:D5:43:ASP:HB3	27:D5:46:LYS:H	3.61	0.42
27:D5:89:ILE:HB	27:D5:101:TYR:HB3	2.00	0.42
14:C2:103:LEU:HG	14:C2:116:VAL:HG12	5.07	0.42
30:D8:34:GLU:O	30:D8:35:ASP:HB2	2.19	0.42
20:C8:91:ASP:O	20:C8:92:ILE:HB	2.20	0.42
53:M7:171:ARG:H	53:M7:171:ARG:HG3	1.39	0.42
53:M7:48:LEU:HB3	53:M7:88:VAL:CG1	2.49	0.42
5:S3:60:GLY:HA3	5:S3:65:ARG:HB3	3.91	0.42
1:6:1469:A:H4'	1:6:1541:G:H4'	2.01	0.42
1:2:831:U:H2'	1:2:831:U:O2	2.18	0.42
51:M5:168:GLY:O	51:M5:172:ARG:HB2	2.84	0.42
68:O2:123:LYS:HA	68:O2:126:LEU:HD12	2.01	0.42
32:E0:49:LEU:HD12	32:E0:51:ASN:HB2	2.01	0.42
15:C3:76:LYS:HG2	15:C3:81:ALA:HB2	3.67	0.42
21:C9:30:VAL:HA	21:C9:31:PRO:HD2	1.70	0.42
40:L3:114:VAL:HG22	40:L3:163:HIS:CE1	2.69	0.42
3:S1:111:ARG:CG	28:D6:68:TYR:HB2	2.49	0.42
36:1:1322:U:O2	56:N0:108:GLN:NE2	2.48	0.42
79:Q3:45:LYS:HE3	79:Q3:45:LYS:HB2	1.50	0.42
64:N8:36:GLY:O	64:N8:41:HIS:HB2	2.54	0.42
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	2.01	0.42
76:Q0:112:LYS:HZ3	36:5:3107:U:P	304.58	0.42
10:S8:84:HIS:NE2	10:S8:90:LEU:HD13	2.88	0.42
65:N9:6:ASN:HB2	36:5:1135:A:OP1	225.09	0.42
61:N5:48:SER:HB2	38:8:136:G:OP1	82.87	0.42
36:1:2633:U:H2'	36:1:2634:U:O4'	2.19	0.42
4:S2:59:HIS:CE1	4:S2:239:PRO:HD3	2.54	0.42
1:6:862:A:C2	1:6:963:A:C4	3.07	0.42
1:2:1012:U:H6	1:2:1012:U:O5'	2.02	0.42
1:6:300:A:O2'	1:6:301:A:H5'	2.19	0.42
36:1:1846:C:OP1	36:1:1849:C:N4	2.46	0.42
25:D3:87:VAL:HG22	25:D3:124:VAL:HG21	2.01	0.42
8:S6:214:LYS:HD2	8:S6:218:GLU:OE1	9.14	0.42
47:M0:26:VAL:HG11	47:M0:96:VAL:HG21	2.75	0.42
48:M1:25:GLU:HG3	48:M1:26:SER:O	2.19	0.42
36:5:115:A:H2'	36:5:265:A:N3	2.34	0.42
9:S7:7:LYS:NZ	55:M9:188:ASP:OD2	5.41	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:3:73:C:H42	56:N0:19:VAL:HG11	1.84	0.42
38:8:114:G:C2'	38:8:115:C:H5'	2.49	0.42
36:1:2567:C:C2'	36:1:2568:C:H5'	2.49	0.42
36:5:2781:U:C4	36:5:2782:U:C4	3.06	0.42
60:N4:43:ARG:HB3	60:N4:43:ARG:HH11	1.84	0.42
1:2:694:U:H2'	1:2:694:U:O2	2.19	0.42
1:2:641:G:H2'	1:2:642:G:C8	2.54	0.42
44:L7:160:ARG:HB2	44:L7:203:TRP:CZ3	2.54	0.42
42:L5:260:PHE:CE2	37:7:121:U:H5'	320.56	0.42
36:1:1072:G:C4	36:1:1087:G:C2	3.07	0.42
40:L3:284:ARG:NH1	40:L3:356:LEU:HD12	2.34	0.42
48:M1:15:GLU:OE2	48:M1:132:ASN:ND2	2.52	0.42
88:5:3927:OHX:N5	38:8:17:A:OP1	2.52	0.42
3:S1:144:ARG:HG2	3:S1:145:LYS:O	2.18	0.42
8:S6:64:LYS:HB2	8:S6:97:VAL:CG1	2.49	0.42
47:M0:142:ASP:C	47:M0:144:ASN:H	2.22	0.42
9:S7:166:LEU:HA	9:S7:166:LEU:HD12	1.93	0.42
2:S0:39:ASN:O	2:S0:47:VAL:HG23	2.45	0.42
18:C6:109:PHE:CB	18:C6:117:LEU:HD21	2.48	0.42
18:C6:113:ASP:C	18:C6:115:THR:H	3.31	0.42
18:C6:48:VAL:HA	18:C6:82:ARG:HB3	2.00	0.42
12:C0:35:ILE:HG22	12:C0:37:THR:H	1.84	0.42
3:S1:56:SER:HB2	3:S1:59:ASP:OD2	7.69	0.42
1:2:1009:U:H2'	1:2:1010:C:H6	1.84	0.42
79:Q3:17:ARG:O	79:Q3:23:ARG:HD3	3.64	0.42
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.19	0.42
36:5:1650:G:H2'	36:5:1651:U:O4'	2.20	0.42
24:D2:27:ILE:HB	24:D2:61:ILE:HB	4.59	0.42
1:6:40:A:H61	1:6:467:G:H1'	1.84	0.42
34:SR:85:TRP:HA	34:SR:109:ASP:HA	2.02	0.42
36:1:1238:C:H41	36:1:1245:A:P	2.41	0.42
49:M3:54:LEU:HD22	49:M3:54:LEU:HA	1.78	0.42
1:2:462:G:OP1	11:S9:3:ARG:HG2	2.19	0.42
28:D6:84:VAL:HG13	28:D6:85:ARG:H	1.84	0.42
17:C5:96:ILE:O	17:C5:103:ASN:N	3.14	0.42
71:O5:68:GLN:C	71:O5:70:TYR:N	2.73	0.42
1:2:1459:C:H6	1:2:1459:C:OP2	2.02	0.42
36:5:23:A:H2'	36:5:24:G:O4'	2.19	0.42
36:1:99:A:H5'	51:M5:194:GLN:CD	2.39	0.42
36:1:419:G:O6	88:1:3881:OHX:N6	2.52	0.42
72:O6:79:SER:HB3	72:O6:80:PHE:H	1.69	0.42
18:C6:141:SER:O	18:C6:143:ARG:N	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:L4:227:THR:O	36:5:689:U:N3	91.15	0.42
35:SM:61:ILE:HG13	35:SM:61:ILE:H	1.63	0.42
36:1:3186:A:O2'	46:L9:42:ASP:HA	2.19	0.42
6:S4:226:PHE:C	6:S4:226:PHE:CD1	2.93	0.42
24:D2:31:SER:H	24:D2:34:ILE:HB	1.83	0.42
1:6:1489:U:H5'	1:6:1494:C:H1'	1.99	0.42
36:5:3242:G:N2	36:5:3245:A:H5''	2.33	0.42
55:M9:105:LEU:HD21	55:M9:139:VAL:HG12	5.85	0.42
36:5:1202:A:N6	36:5:1301:A:C4	2.87	0.42
45:L8:160:ILE:HG12	45:L8:160:ILE:H	1.38	0.42
1:2:268:C:O2'	1:2:269:G:H5'	2.19	0.42
48:M1:54:VAL:HG11	48:M1:57:PHE:CG	2.54	0.42
36:5:2921:U:H2'	36:5:2923:U:OP2	2.19	0.42
35:SM:102:THR:HG22	35:SM:105:LYS:HB2	2.01	0.42
1:2:71:A:N1	1:2:72:A:C6	2.87	0.42
41:L4:191:LYS:HG3	41:L4:194:TYR:CE2	4.55	0.42
88:8:218:OHX:N2	88:8:225:OHX:N4	2.67	0.42
36:1:1162:U:OP1	68:O2:54:LYS:HE3	2.18	0.42
1:2:380:U:C5	11:S9:5:PRO:HG3	2.54	0.42
47:M0:116:ARG:HH21	36:5:2618:G:H5'	229.99	0.42
36:1:2652:U:C4	36:1:2653:C:C4	3.07	0.42
41:L4:73:ARG:NH2	36:5:2814:G:OP1	172.50	0.42
36:1:1675:G:O2'	36:1:1676:A:H5'	2.19	0.42
49:M3:149:GLN:HA	49:M3:150:PRO:HD3	1.76	0.42
36:1:2424:A:H2'	36:1:2425:G:O4'	2.18	0.42
36:1:954:U:O4	36:1:1115:G:H1'	2.19	0.42
41:L4:64:SER:HA	41:L4:75:PRO:HA	2.02	0.42
54:M8:19:PRO:HD3	54:M8:53:PHE:CD1	2.54	0.42
36:1:867:G:C6	36:1:868:C:C4	3.07	0.42
36:5:1908:A:H2'	36:5:1909:A:O4'	2.19	0.42
36:1:3099:C:O2'	36:1:3100:U:H5'	2.18	0.42
1:2:1629:G:H2'	1:2:1630:U:C6	2.54	0.42
36:1:2856:G:H2'	36:1:2857:C:C6	2.55	0.42
38:8:19:C:H2'	38:8:20:U:O4'	2.18	0.42
1:6:1638:G:C2	1:6:1639:C:H1'	2.54	0.42
1:2:517:U:H3	1:2:535:A:H61	1.66	0.42
1:2:339:C:H2'	1:2:340:U:H6	1.83	0.42
36:1:1177:G:H5'	69:O3:18:ARG:NH1	2.34	0.42
52:M6:128:ARG:HA	52:M6:128:ARG:HD3	2.10	0.42
63:N7:67:LYS:HD3	63:N7:67:LYS:HA	1.81	0.42
1:2:1285:U:OP1	88:2:2115:OHX:N4	2.52	0.42
1:6:1402:G:C6	1:6:1403:C:C4	3.08	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:3:121:U:H5''	42:L5:265:TYR:HE1	1.83	0.42
1:2:1508:U:H2'	1:2:1509:C:C6	2.54	0.42
11:S9:142:ASN:OD1	1:6:767:U:H5	425.44	0.42
71:O5:83:LYS:HA	38:8:38:U:H5	65.54	0.42
36:5:3049:A:H2'	36:5:3050:U:O4'	2.18	0.42
1:6:1228:G:H2'	1:6:1228:G:N3	2.34	0.42
3:S1:205:PHE:HA	3:S1:206:PRO:HD2	1.79	0.42
8:S6:64:LYS:HB2	8:S6:97:VAL:HG11	2.01	0.42
47:M0:76:MET:CE	47:M0:148:VAL:HA	2.71	0.42
7:S5:166:ARG:HA	7:S5:169:ASN:HB2	2.59	0.42
26:D4:60:PHE:CD2	26:D4:71:GLY:HA3	3.75	0.42
1:6:846:G:C2	1:6:847:A:C4	3.08	0.42
44:L7:150:LYS:HD3	44:L7:244:ASN:OD1	4.12	0.42
46:L9:48:VAL:HG11	46:L9:52:LEU:HD13	2.00	0.42
36:5:864:G:OP2	88:5:3919:OHX:N4	2.53	0.42
10:S8:98:LYS:HB3	1:6:329:G:H5''	274.64	0.42
1:6:151:G:H22	1:6:163:G:N2	2.16	0.42
1:2:1500:C:H5'	21:C9:106:GLN:NE2	2.34	0.42
17:C5:129:GLY:O	17:C5:130:ARG:HB2	2.52	0.42
36:1:118:U:C5	36:1:119:U:C4	3.07	0.42
66:O0:28:LYS:HB2	36:5:1730:G:C5	240.19	0.42
36:1:716:A:C6	64:N8:117:ARG:HD3	2.55	0.42
36:1:1815:U:O2'	36:1:1816:A:P	2.77	0.42
36:1:2402:A:OP1	41:L4:70:ALA:N	2.45	0.42
42:L5:69:ILE:HG22	57:N1:31:LEU:HB3	2.01	0.42
44:L7:50:ALA:O	44:L7:51:TYR:C	2.57	0.42
45:L8:81:THR:OG1	45:L8:181:LYS:HG3	4.17	0.42
40:L3:35:ASP:HA	40:L3:184:ASN:ND2	3.08	0.42
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.84	0.42
6:S4:90:ILE:HD11	6:S4:101:LEU:HD11	2.00	0.42
52:M6:182:ASN:O	52:M6:184:THR:N	4.61	0.42
36:5:169:U:H4'	36:5:170:G:OP1	2.19	0.42
36:5:1155:C:H2'	36:5:1156:C:H6	1.84	0.42
74:O8:13:GLU:H	74:O8:13:GLU:HG2	1.62	0.42
38:4:122:U:H2'	38:4:123:G:C8	2.53	0.42
8:S6:160:ARG:CD	60:N4:84:GLY:HA3	2.49	0.42
58:N2:79:LEU:O	58:N2:82:LYS:HB3	2.18	0.42
36:1:3180:A:C6	52:M6:114:LYS:HD2	2.54	0.42
41:L4:334:PHE:HA	41:L4:339:LEU:HD12	2.02	0.42
57:N1:42:ILE:HG12	57:N1:91:LEU:HD11	2.99	0.42
2:S0:4:PRO:HB2	2:S0:5:ALA:H	1.79	0.42
50:M4:46:ILE:HD13	50:M4:58:ILE:HG21	2.00	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:156:ARG:HD3	47:M0:163:GLN:O	2.18	0.42
1:6:385:A:H2'	1:6:386:G:C8	2.55	0.42
36:1:150:A:OP1	51:M5:56:LYS:NZ	2.45	0.42
36:5:1466:G:O6	88:5:3915:OHX:N5	2.51	0.42
51:M5:5:LYS:HA	51:M5:5:LYS:HD3	2.50	0.42
56:N0:74:ASN:HD21	56:N0:144:LEU:HD21	1.83	0.42
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CD2	3.60	0.42
36:1:2644:C:O2	47:M0:116:ARG:HD3	2.20	0.42
78:Q2:43:TYR:CZ	78:Q2:47:GLN:NE2	2.86	0.42
1:6:52:U:H2'	1:6:53:G:C8	2.54	0.42
54:M8:53:PHE:CD1	54:M8:53:PHE:N	2.86	0.42
43:L6:133:GLU:O	43:L6:136:GLU:N	3.30	0.42
75:O9:7:PHE:CE2	38:8:113:U:C4	98.62	0.42
29:D7:23:THR:HG21	29:D7:29:ARG:NH2	3.91	0.42
1:2:136:C:H4'	1:2:137:U:OP1	2.17	0.42
15:C3:151:ASN:O	88:C3:201:OHX:N6	3.14	0.42
36:5:385:A:H2'	36:5:386:A:C8	2.54	0.42
56:N0:107:TYR:CZ	56:N0:118:PHE:CE1	3.28	0.42
49:M3:131:LYS:H	49:M3:131:LYS:HD3	4.14	0.42
49:M3:131:LYS:HG2	49:M3:131:LYS:H	1.53	0.42
40:L3:387:LEU:HD12	40:L3:387:LEU:H	1.84	0.42
20:C8:94:ASP:OD1	20:C8:98:TYR:OH	2.32	0.42
40:L3:37:ARG:HG2	40:L3:187:SER:N	3.03	0.42
36:1:1368:U:H5'	68:O2:43:ARG:NH1	2.34	0.42
36:5:1241:U:O2'	36:5:1242:G:O5'	2.31	0.42
51:M5:187:ARG:HH22	51:M5:188:ARG:NH1	3.50	0.42
44:L7:158:LYS:O	44:L7:203:TRP:HZ3	2.59	0.42
16:C4:41:ARG:O	16:C4:42:VAL:HG22	2.19	0.42
36:1:1430:U:H2'	64:N8:9:ARG:HH22	1.84	0.42
17:C5:86:VAL:HB	17:C5:87:PRO:HD2	2.36	0.42
36:1:1072:G:H21	65:N9:50:THR:HB	1.85	0.42
43:L6:41:ILE:HB	43:L6:85:ILE:HB	2.08	0.42
34:SR:42:LEU:O	34:SR:43:ILE:HD13	2.19	0.42
34:SR:86:ASP:O	34:SR:88:THR:HG23	2.19	0.42
8:S6:64:LYS:NZ	8:S6:82:SER:O	2.53	0.42
9:S7:166:LEU:HA	9:S7:166:LEU:HD13	2.68	0.42
41:L4:202:ARG:HA	41:L4:202:ARG:NE	2.48	0.42
7:S5:30:PRO:O	7:S5:33:VAL:HB	2.19	0.42
41:L4:269:SER:O	41:L4:269:SER:OG	2.23	0.42
15:C3:55:ARG:O	29:D7:47:PHE:HB2	2.77	0.42
39:L2:70:ARG:HG3	39:L2:71:LEU:N	3.00	0.42
79:Q3:11:THR:HG21	79:Q3:27:LYS:HB2	3.80	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:L8:64:ILE:O	45:L8:68:ARG:HG2	2.62	0.42
59:N3:104:ASN:OD1	59:N3:107:GLY:N	2.53	0.42
36:5:406:G:H1'	38:8:16:G:N2	2.35	0.42
36:5:409:A:H61	38:8:15:G:H1'	1.84	0.42
36:1:717:C:N4	36:1:718:G:N1	2.68	0.42
26:D4:18:LEU:HD23	26:D4:18:LEU:HA	2.35	0.42
7:S5:186:ASN:OD1	7:S5:188:LYS:HB2	2.21	0.42
25:D3:56:LYS:HG2	25:D3:93:LEU:HD11	2.00	0.42
63:N7:25:ILE:H	63:N7:25:ILE:HG12	4.15	0.42
21:C9:105:LEU:HA	21:C9:105:LEU:HD23	1.89	0.42
4:S2:225:LEU:HD13	24:D2:68:ARG:HA	2.17	0.42
36:1:1447:G:H3'	53:M7:67:ILE:CD1	2.49	0.42
18:C6:32:ASN:OD1	18:C6:69:VAL:HG23	2.20	0.42
36:5:1348:U:H5''	36:5:1355:A:H61	1.84	0.42
29:D7:37:CYS:HA	29:D7:38:PRO:HD3	2.09	0.42
42:L5:38:THR:HG22	57:N1:30:TYR:CB	2.49	0.42
1:6:138:A:H5''	1:6:138:A:N3	2.34	0.42
46:L9:88:TYR:CE2	46:L9:155:SER:HB3	2.89	0.42
49:M3:144:THR:C	49:M3:146:PRO:HD3	3.14	0.42
70:O4:88:ARG:HG3	36:5:2555:G:O2'	208.07	0.42
36:1:824:C:H5''	39:L2:21:ARG:HD3	2.01	0.42
1:6:1580:C:H2'	1:6:1581:C:O4'	2.18	0.42
36:5:286:U:H2'	36:5:287:G:H8	1.84	0.42
50:M4:59:ASN:O	50:M4:62:GLN:HG2	4.85	0.42
1:2:333:A:C6	1:2:334:G:C6	3.07	0.42
51:M5:10:LEU:O	51:M5:10:LEU:HD23	2.19	0.42
12:C0:48:SER:O	12:C0:52:LYS:HG2	2.18	0.42
41:L4:327:LEU:HA	44:L7:166:ASN:HD21	2.24	0.42
2:S0:80:THR:O	2:S0:83:GLN:HB2	2.83	0.42
1:2:1677:C:H2'	1:2:1678:A:O4'	2.19	0.42
39:L2:153:GLY:HA3	39:L2:251:LYS:HG2	9.04	0.42
91:Q2:502:C:H4'	91:Q2:503:C:OP1	2.44	0.42
88:5:3945:OHX:N5	88:5:4239:OHX:N6	2.67	0.42
44:L7:154:GLY:N	44:L7:161:VAL:O	2.64	0.42
36:5:142:C:H2'	36:5:143:G:O4'	2.18	0.42
36:5:422:A:C2	36:5:2363:A:H4'	2.54	0.42
36:5:773:G:N7	88:5:3941:OHX:N5	2.68	0.42
59:N3:94:TYR:CE2	60:N4:21:PHE:HB2	3.02	0.42
54:M8:86:THR:HB	54:M8:105:ARG:HB2	2.08	0.42
17:C5:63:ALA:HA	17:C5:66:ALA:HB3	2.77	0.42
36:1:3380:U:H2'	36:1:3381:U:C6	2.55	0.42
33:E1:123:ASN:OD1	33:E1:124:PRO:HD2	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:L2:55:GLY:O	39:L2:56:ALA:HB3	4.54	0.42
1:2:994:G:OP1	1:2:1778:G:H4'	2.20	0.42
36:5:1450:G:OP1	88:5:4234:OHX:N2	2.52	0.42
36:5:3055:U:O2'	36:5:3057:U:OP1	2.29	0.42
1:6:719:U:C4	1:6:721:U:H5	2.38	0.42
36:1:1340:G:H2'	36:1:1341:U:H6	1.83	0.42
21:C9:112:GLY:O	21:C9:125:SER:OG	3.88	0.42
36:5:2240:G:H2'	36:5:2241:U:O4'	2.19	0.42
57:N1:119:ALA:O	57:N1:123:GLY:N	2.99	0.42
36:1:3055:U:O5'	36:1:3055:U:H6	2.03	0.42
8:S6:76:LEU:HD23	8:S6:76:LEU:HA	2.21	0.42
76:Q0:88:LYS:HB3	76:Q0:88:LYS:HE3	3.99	0.42
36:1:1237:G:H2'	36:1:1237:G:N3	2.34	0.42
36:5:3337:G:O5'	36:5:3337:G:H8	2.01	0.42
36:1:12:A:H1'	61:N5:37:THR:HG21	2.01	0.42
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.52	0.42
5:S3:124:ARG:HD2	35:SM:128:ALA:HA	9.63	0.42
43:L6:62:THR:OG1	43:L6:78:ARG:HD2	2.19	0.42
41:L4:22:LEU:CD1	41:L4:26:PHE:HB2	2.41	0.42
10:S8:106:ALA:O	10:S8:110:ARG:N	2.41	0.42
3:S1:185:THR:O	3:S1:189:ILE:HG13	2.18	0.42
37:7:28:C:O2'	37:7:55:A:N1	2.49	0.42
66:O0:13:LYS:NZ	66:O0:103:THR:HG21	3.27	0.42
28:D6:87:ARG:NH2	28:D6:91:ASP:O	2.79	0.42
1:2:1325:A:C2	1:2:1326:A:C5	3.07	0.42
36:1:1307:G:C4	52:M6:60:LYS:HD3	2.54	0.42
1:2:895:G:HO2'	16:C4:38:THR:H	1.64	0.42
63:N7:54:THR:CG2	63:N7:56:LYS:HB3	5.52	0.42
40:L3:19:ARG:HG3	40:L3:273:HIS:NE2	2.35	0.42
2:S0:185:ARG:HB3	2:S0:186:GLY:H	3.94	0.42
2:S0:88:LYS:HZ1	19:C7:82:ASP:HB3	1.84	0.42
44:L7:89:ILE:HG22	44:L7:220:PHE:CE1	2.54	0.42
56:N0:115:ARG:NH1	36:5:1295:G:O2'	295.56	0.42
9:S7:68:ALA:HA	9:S7:71:HIS:HB2	3.00	0.42
51:M5:93:LYS:O	51:M5:94:TYR:HB3	2.20	0.42
21:C9:105:LEU:HB3	21:C9:122:ARG:NE	2.97	0.42
7:S5:109:LYS:O	7:S5:113:ILE:HG13	2.26	0.42
74:O8:14:LEU:O	74:O8:20:VAL:HG21	2.19	0.42
56:N0:9:VAL:O	56:N0:26:ARG:HA	2.20	0.42
11:S9:171:ARG:HE	11:S9:174:ARG:CB	5.20	0.42
33:E1:146:SER:OG	1:6:1234:A:H4'	435.00	0.42
36:5:3163:A:C6	36:5:3164:C:N4	2.87	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:E0:33:ARG:NH1	32:E0:33:ARG:HB3	2.68	0.42
58:N2:18:ASP:HB3	58:N2:104:ARG:HB2	2.02	0.42
6:S4:227:VAL:HB	6:S4:228:ILE:H	1.62	0.42
36:1:3110:C:O3'	46:L9:155:SER:HB2	2.20	0.42
40:L3:116:ARG:HD2	40:L3:122:TRP:CD1	2.55	0.42
36:1:3314:A:H5''	40:L3:174:LYS:HD2	2.01	0.42
36:1:741:U:O2'	54:M8:73:GLN:HG2	2.19	0.42
23:D1:17:CYS:HB2	23:D1:56:SER:HB3	2.01	0.42
1:2:1393:C:N4	1:2:1405:G:H1	2.18	0.42
40:L3:347:SER:HB2	40:L3:350:ALA:H	2.73	0.42
71:O5:13:SER:OG	71:O5:16:GLN:HG3	2.65	0.42
36:5:1597:C:C4'	36:5:1696:A:H1'	2.50	0.42
1:2:127:G:O6	8:S6:202:ARG:NH2	2.52	0.42
1:2:1584:G:H5'	18:C6:123:ARG:H	1.85	0.42
3:S1:225:VAL:O	3:S1:229:MET:HB2	2.20	0.42
74:O8:69:LEU:HA	74:O8:70:PRO:HD2	1.88	0.42
50:M4:22:LEU:HD12	50:M4:22:LEU:HA	1.70	0.42
2:S0:172:LEU:HD22	2:S0:176:LEU:HG	2.38	0.42
41:L4:8:VAL:HG23	41:L4:18:ASN:O	3.22	0.42
1:6:772:G:C6	1:6:773:C:N4	2.87	0.42
36:5:7:C:H2'	36:5:8:C:C6	2.55	0.42
1:2:823:G:H3'	1:2:824:G:H8	1.83	0.42
1:2:601:A:H2'	1:2:602:U:O4'	2.20	0.42
36:5:2105:G:H2'	36:5:2106:A:C8	2.54	0.42
42:L5:258:LYS:N	42:L5:258:LYS:HD3	3.88	0.42
50:M4:134:ALA:C	50:M4:136:ALA:H	2.44	0.42
36:1:3384:U:H2'	36:1:3385:U:C6	2.54	0.42
1:2:1580:C:H2'	1:2:1581:C:O4'	2.19	0.42
41:L4:150:LEU:HA	41:L4:150:LEU:HD23	1.81	0.42
36:5:1690:C:H2'	36:5:1691:U:O4'	2.19	0.42
8:S6:132:ARG:NH2	1:6:68:A:C5	337.60	0.42
38:8:100:U:OP2	88:8:219:OHX:N2	2.52	0.42
40:L3:375:GLU:O	40:L3:378:ALA:HB3	2.20	0.42
50:M4:20:VAL:HG22	50:M4:68:LEU:HB2	2.36	0.42
41:L4:157:GLU:HB3	41:L4:211:GLU:O	2.20	0.42
36:1:1496:C:C2	36:1:1521:G:N2	2.87	0.42
57:N1:55:LYS:HE2	36:5:2640:A:OP1	236.57	0.42
36:5:2871:G:H5''	36:5:2872:A:H5'	2.02	0.42
43:L6:5:LYS:HD2	43:L6:5:LYS:HA	2.11	0.42
1:6:114:C:H6	1:6:114:C:H5'	1.84	0.42
68:O2:121:ASN:OD1	68:O2:121:ASN:N	2.47	0.42
39:L2:180:LEU:HA	39:L2:180:LEU:HD23	1.89	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
70:O4:94:LEU:HA	70:O4:94:LEU:HD23	2.03	0.42
42:L5:78:ALA:HB1	42:L5:104:LEU:HD23	2.01	0.42
45:L8:49:TYR:OH	36:5:2525:G:H4'	187.51	0.42
36:1:1832:C:O2'	36:1:1833:G:H5'	2.19	0.42
36:1:2390:A:H2'	36:1:2391:G:O4'	2.18	0.42
41:L4:295:ILE:CG2	41:L4:299:ILE:HD11	2.48	0.42
43:L6:158:TYR:CG	50:M4:115:PHE:CD2	3.08	0.42
49:M3:46:ILE:HA	49:M3:49:ARG:HH11	3.97	0.42
47:M0:174:THR:HG23	47:M0:175:ASN:N	2.34	0.42
11:S9:38:ASN:HB3	11:S9:40:LYS:N	2.34	0.42
75:O9:5:LYS:HD3	75:O9:13:MET:HE3	2.19	0.42
3:S1:114:VAL:HG22	3:S1:142:PHE:HZ	2.92	0.42
50:M4:121:MET:HE1	36:5:3215:A:C5'	275.09	0.42
77:Q1:4:LYS:HG3	77:Q1:5:TRP:CE3	2.54	0.42
2:S0:179:ARG:HD3	2:S0:183:ARG:CD	2.87	0.42
62:N6:50:ILE:CD1	62:N6:70:ILE:HG12	2.49	0.42
28:D6:87:ARG:NH1	1:6:1796:C:OP1	344.73	0.42
18:C6:30:LYS:HD3	1:6:1366:U:OP1	425.11	0.42
7:S5:29:ILE:HA	7:S5:30:PRO:HD3	2.12	0.42
1:2:706:A:C6	1:2:734:A:N6	2.87	0.42
2:S0:41:ARG:HE	2:S0:45:VAL:HB	1.84	0.42
36:1:3112:G:O2'	46:L9:70:THR:HB	2.20	0.42
36:5:3155:U:H4'	36:5:3156:U:OP2	2.18	0.42
17:C5:18:ARG:NH1	20:C8:90:ASN:O	2.52	0.42
42:L5:294:ALA:C	42:L5:296:GLN:H	2.23	0.42
30:D8:11:LYS:HD2	30:D8:51:ASN:HA	3.30	0.42
62:N6:126:LEU:HB2	62:N6:127:GLU:H	2.41	0.42
24:D2:37:PHE:CE2	24:D2:103:ILE:HD11	3.89	0.42
1:2:1175:U:O4	20:C8:140:THR:HG21	2.20	0.42
39:L2:9:ARG:HH21	39:L2:9:ARG:HD3	1.93	0.42
55:M9:38:ARG:O	55:M9:42:ARG:HG2	4.87	0.42
38:4:85:G:C8	38:4:85:G:C3'	3.03	0.42
4:S2:143:TYR:CD2	4:S2:147:ASN:HA	4.08	0.42
20:C8:120:ARG:HH21	35:SM:61:ILE:HD11	1.84	0.42
40:L3:97:ARG:NH1	36:5:3244:A:C2	244.14	0.42
58:N2:90:ARG:C	58:N2:92:TRP:H	3.02	0.42
19:C7:23:LYS:HE3	34:SR:174:ASN:HB3	4.24	0.42
62:N6:12:ARG:HG2	36:5:215:G:OP1	87.91	0.42
36:5:3241:G:H2'	36:5:3245:A:H8	1.84	0.42
62:N6:103:LYS:NZ	36:5:217:U:O2	78.43	0.42
13:C1:75:VAL:HG11	13:C1:120:GLY:N	2.34	0.42
36:5:209:A:H1'	36:5:212:G:N2	2.35	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:S0:31:VAL:N	2:S0:149:LEU:O	2.49	0.42
40:L3:350:ALA:O	40:L3:351:LEU:HB2	2.19	0.42
1:2:1357:A:H2'	1:2:1358:G:H8	1.84	0.42
36:5:2822:U:H2'	36:5:2823:G:O4'	2.20	0.42
43:L6:137:ASP:O	43:L6:141:VAL:HG23	2.62	0.42
47:M0:169:LYS:HE3	57:N1:158:THR:OG1	4.37	0.42
2:S0:109:ASN:OD1	2:S0:111:ILE:HB	2.20	0.42
34:SR:123:ILE:HD11	34:SR:156:VAL:CG2	3.34	0.42
44:L7:102:VAL:HG12	44:L7:130:ILE:HD12	3.96	0.42
41:L4:311:HIS:NE2	41:L4:314:LYS:HA	2.35	0.42
88:8:218:OHX:N6	88:8:225:OHX:N4	2.67	0.42
47:M0:115:MET:HB2	36:5:2864:A:O3'	240.74	0.42
4:S2:38:VAL:HG12	4:S2:65:GLU:OE1	2.20	0.42
36:5:3316:A:OP1	36:5:3318:G:N2	2.38	0.42
43:L6:65:ILE:HD11	43:L6:77:ARG:HB3	2.02	0.42
40:L3:308:MET:HE3	40:L3:370:PHE:HB2	4.01	0.42
36:5:928:C:H2'	36:5:929:A:C8	2.55	0.42
50:M4:85:TRP:CD1	50:M4:90:VAL:HG13	2.54	0.42
6:S4:7:LYS:HB2	1:6:94:U:O2'	345.58	0.42
13:C1:142:VAL:HG12	13:C1:144:ALA:H	1.83	0.42
54:M8:103:ALA:HB3	54:M8:106:PHE:CE2	2.88	0.42
13:C1:54:ILE:HD12	13:C1:54:ILE:HG23	4.19	0.42
1:2:679:U:H2'	1:2:680:U:C6	2.54	0.42
1:2:624:G:C8	1:2:1027:A:C6	3.08	0.42
36:1:1844:C:O2	73:O7:9:GLY:HA2	2.19	0.42
47:M0:201:SER:OG	47:M0:203:LYS:HG2	2.20	0.42
34:SR:256:THR:OG1	34:SR:259:GLY:N	2.48	0.42
11:S9:6:ARG:HD3	11:S9:6:ARG:HA	1.75	0.42
67:O1:20:LEU:HD23	67:O1:20:LEU:HA	1.84	0.42
68:O2:15:LYS:HE3	68:O2:15:LYS:HB3	4.32	0.42
54:M8:159:LYS:HD2	54:M8:159:LYS:HA	3.27	0.42
37:7:33:U:H2'	37:7:34:C:O4'	2.18	0.42
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.20	0.42
36:5:1786:G:H2'	36:5:1787:A:C8	2.55	0.42
36:1:727:G:H2'	36:1:728:G:O4'	2.19	0.42
53:M7:23:ARG:NH2	36:5:1505:C:OP1	128.85	0.42
50:M4:55:ARG:NH2	50:M4:77:ARG:HA	2.35	0.42
1:2:1487:A:H2'	1:2:1488:G:C8	2.54	0.42
17:C5:22:LEU:O	17:C5:26:LEU:HD12	3.31	0.42
21:C9:57:ARG:HG3	21:C9:57:ARG:NH1	2.39	0.42
8:S6:57:ASP:C	8:S6:59:GLN:H	4.21	0.42
77:Q1:1:MET:HE2	77:Q1:5:TRP:HB2	2.27	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
74:O8:44:LYS:HA	74:O8:53:THR:HA	2.37	0.42
41:L4:138:ARG:HG3	41:L4:244:LEU:O	2.20	0.42
49:M3:126:PHE:HA	49:M3:127:PRO:HD2	1.57	0.42
15:C3:16:ILE:HD13	15:C3:16:ILE:HA	4.42	0.42
34:SR:63:GLY:HA2	1:6:1341:A:OP1	450.23	0.42
16:C4:35:GLY:HA3	1:6:919:A:H5'	269.53	0.42
42:L5:152:ARG:CG	42:L5:152:ARG:HH11	2.59	0.42
1:2:193:U:H2'	1:2:194:U:H2'	2.01	0.42
45:L8:25:PRO:HG2	45:L8:27:THR:HB	2.02	0.42
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.85	0.42
2:S0:186:GLY:O	2:S0:188:LEU:N	2.53	0.42
1:2:830:U:H2'	1:2:830:U:O2	2.19	0.42
57:N1:11:THR:HB	57:N1:15:PHE:CD1	2.55	0.42
53:M7:34:GLN:NE2	36:5:413:U:H5''	156.62	0.42
1:2:1500:C:H5'	21:C9:106:GLN:HE22	1.85	0.42
21:C9:86:ARG:O	21:C9:89:ARG:HG3	2.19	0.42
5:S3:59:LEU:HA	5:S3:66:ILE:CG1	2.48	0.42
68:O2:122:PRO:O	68:O2:123:LYS:CB	2.68	0.42
36:1:871:U:H2'	36:1:872:U:H6	1.80	0.42
78:Q2:73:GLU:HG3	78:Q2:80:ARG:HG2	2.56	0.42
14:C2:52:LEU:HD22	14:C2:52:LEU:HA	2.10	0.42
44:L7:51:TYR:O	44:L7:54:GLU:HB3	2.19	0.42
45:L8:187:GLY:HA2	45:L8:195:SER:HB2	2.21	0.42
45:L8:187:GLY:O	45:L8:190:VAL:HG12	2.20	0.42
1:6:84:A:H2'	1:6:85:A:O4'	2.19	0.42
36:5:3242:G:H21	36:5:3245:A:H5''	1.85	0.42
36:5:3245:A:H2	36:5:3246:G:N1	2.17	0.42
21:C9:28:LEU:HB3	21:C9:29:GLU:H	3.54	0.42
36:1:1915:A:H2'	36:1:1916:U:H6	1.84	0.42
39:L2:66:PRO:O	45:L8:41:GLN:HG2	2.20	0.42
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.52	0.42
48:M1:17:LEU:HB3	48:M1:76:ALA:HB1	2.74	0.42
42:L5:85:ARG:NH1	42:L5:254:LYS:H	2.98	0.42
40:L3:57:VAL:HG21	60:N4:15:PRO:HG2	2.02	0.42
55:M9:81:ARG:HG2	55:M9:88:ARG:NH2	2.73	0.42
36:1:424:G:O2'	68:O2:23:ASP:OD2	2.32	0.42
41:L4:180:LYS:HE2	41:L4:180:LYS:HB3	1.81	0.42
5:S3:48:VAL:HB	5:S3:86:LEU:HD12	2.17	0.42
43:L6:18:LEU:HD22	43:L6:18:LEU:N	2.34	0.42
44:L7:110:ARG:O	44:L7:113:SER:HB2	2.19	0.42
22:D0:17:GLN:HG3	22:D0:18:GLN:H	5.16	0.42
6:S4:212:ASP:OD2	6:S4:216:ASN:HB2	2.58	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:8:120:C:H2'	38:8:121:U:O4'	2.20	0.42
36:5:428:A:H2'	36:5:429:U:C6	2.55	0.42
36:1:61:A:H2'	36:1:62:A:O4'	2.18	0.42
6:S4:234:PRO:HG3	6:S4:238:LEU:HD11	2.14	0.42
39:L2:205:ASN:HB3	39:L2:206:PRO:HD2	2.42	0.42
67:O1:17:HIS:HB2	67:O1:69:TYR:HB3	2.01	0.42
44:L7:156:ILE:HD12	44:L7:161:VAL:HB	2.02	0.42
1:6:1639:C:OP1	88:6:2152:OHX:N5	2.52	0.42
1:6:683:C:H5'	1:6:684:A:OP2	2.18	0.42
41:L4:154:THR:HG23	41:L4:253:ALA:HB2	2.43	0.42
38:4:27:U:H2'	38:4:28:C:H6	1.85	0.42
36:1:1691:U:H2'	36:1:1692:U:C6	2.54	0.42
69:O3:67:MET:HE1	69:O3:90:PRO:HD3	2.70	0.42
36:5:3225:C:H2'	36:5:3226:A:O4'	2.19	0.42
36:1:2175:U:H4'	36:1:2176:U:OP2	2.20	0.42
36:1:237:G:H2'	36:1:238:A:O4'	2.20	0.42
36:1:3209:A:OP2	56:N0:161:LYS:HD2	2.19	0.42
1:2:1143:A:O2'	1:2:1144:U:H5'	2.19	0.42
36:1:841:A:H5'	55:M9:125:LYS:O	2.20	0.42
36:1:2565:U:H2'	36:1:2566:C:H6	1.83	0.42
36:1:2887:A:N3	36:1:2887:A:H2'	2.34	0.42
68:O2:89:THR:HG22	68:O2:89:THR:H	3.01	0.42
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.54	0.42
71:O5:84:LYS:HB3	71:O5:85:THR:H	1.63	0.42
16:C4:42:VAL:HA	16:C4:46:MET:SD	2.59	0.42
43:L6:40:LEU:HB3	43:L6:84:VAL:CG1	3.24	0.42
11:S9:132:ARG:HA	11:S9:132:ARG:HD2	3.10	0.42
50:M4:118:PHE:O	50:M4:121:MET:HB3	2.81	0.42
3:S1:133:TYR:CE1	3:S1:220:GLN:HB3	2.55	0.42
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.52	0.42
26:D4:105:ARG:O	26:D4:109:LYS:HG3	2.19	0.42
1:2:523:G:H5''	26:D4:59:GLY:O	2.20	0.42
3:S1:35:PRO:O	3:S1:41:ARG:HG2	2.19	0.42
39:L2:62:VAL:HB	39:L2:73:GLU:HA	2.82	0.42
16:C4:32:ASP:O	16:C4:35:GLY:N	2.51	0.42
79:Q3:11:THR:CG2	79:Q3:27:LYS:HB2	4.08	0.42
1:6:894:U:H2'	1:6:895:G:C8	2.54	0.42
36:5:3309:G:H2'	36:5:3310:A:C5'	2.50	0.42
36:1:718:G:N1	36:1:721:G:H1'	2.35	0.42
54:M8:152:HIS:N	54:M8:152:HIS:CD2	2.88	0.42
22:D0:42:VAL:HG13	22:D0:52:LYS:NZ	2.35	0.42
53:M7:27:LYS:HE2	53:M7:63:PHE:CD1	2.69	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
63:N7:5:LEU:HD11	63:N7:30:ASP:OD1	6.57	0.42
4:S2:140:ARG:CZ	23:D1:1:MET:SD	3.08	0.42
24:D2:103:ILE:CD1	24:D2:126:LEU:HD12	2.50	0.42
41:L4:188:ARG:O	41:L4:193:LYS:HE3	2.19	0.42
68:O2:103:LYS:O	68:O2:106:VAL:HG12	2.19	0.42
1:2:1538:U:HO2'	1:2:1539:G:H8	1.67	0.42
57:N1:82:ASN:HA	65:N9:21:ILE:HD13	2.02	0.42
11:S9:49:LEU:CD2	11:S9:53:ARG:HG3	3.95	0.42
18:C6:143:ARG:HH22	35:SM:84:LYS:NZ	2.16	0.42
41:L4:209:TYR:C	41:L4:254:ALA:HB2	2.51	0.42
11:S9:37:LYS:HA	32:E0:33:ARG:HA	2.01	0.42
20:C8:28:ILE:HD11	20:C8:56:LYS:HB2	7.12	0.42
20:C8:28:ILE:O	20:C8:31:ALA:N	3.59	0.42
45:L8:79:GLN:O	45:L8:81:THR:HG22	2.20	0.42
40:L3:173:GLN:O	40:L3:174:LYS:HB2	2.20	0.42
13:C1:75:VAL:HB	13:C1:121:ASP:O	2.20	0.42
44:L7:80:GLN:HG3	57:N1:136:ARG:HB3	5.57	0.42
34:SR:21:THR:HG23	34:SR:36:ALA:O	4.67	0.42
43:L6:46:ARG:HG3	43:L6:47:PHE:CD1	2.54	0.42
52:M6:98:ALA:HA	52:M6:101:ARG:NH1	2.52	0.42
35:SM:47:ALA:HA	36:1:2678:A:H5'	2.02	0.42
29:D7:50:ALA:HB1	29:D7:52:THR:O	2.19	0.42
36:5:718:G:N7	36:5:721:G:H1'	2.34	0.42
2:S0:3:LEU:HA	2:S0:4:PRO:HD2	1.99	0.42
11:S9:7:THR:HG23	1:6:772:G:OP1	386.70	0.42
36:5:2984:C:H2'	36:5:2985:C:H6	1.84	0.42
36:1:781:G:O6	88:1:3950:OHX:N5	2.53	0.42
1:6:386:G:H2'	1:6:387:A:C8	2.55	0.42
39:L2:230:VAL:O	39:L2:233:GLN:HB2	2.20	0.42
36:5:1708:C:H2'	36:5:1709:C:C6	2.55	0.42
12:C0:52:LYS:HE2	1:6:1220:C:H5'	444.35	0.42
36:1:1694:U:N3	36:1:1695:U:C4	2.87	0.42
1:2:252:U:H2'	1:2:253:A:C8	2.54	0.42
45:L8:71:VAL:HA	45:L8:72:PRO:HD2	1.72	0.42
43:L6:174:LEU:HD22	50:M4:117:ARG:CZ	3.99	0.42
50:M4:12:TRP:HB2	56:N0:151:PRO:HB3	2.12	0.42
49:M3:170:LEU:HD22	72:O6:9:ILE:CG2	4.99	0.42
13:C1:33:ARG:HD3	13:C1:49:ILE:O	2.54	0.42
36:5:811:U:H2'	36:5:812:G:C8	2.55	0.42
38:4:59:A:H5''	38:4:61:A:C8	2.55	0.42
1:2:749:U:H3	1:2:800:U:H3	1.68	0.42
36:1:345:G:O2'	38:4:25:G:N3	2.47	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1053:G:N7	88:6:2194:OHX:N4	2.67	0.42
70:O4:63:ALA:HB2	36:5:1803:C:H5'	157.63	0.42
49:M3:27:ASP:OD1	49:M3:31:LYS:HE2	2.20	0.42
42:L5:263:GLU:O	42:L5:266:ALA:HB3	2.19	0.42
1:2:690:G:C2	1:2:691:C:C2	3.08	0.42
25:D3:137:LYS:O	25:D3:138:GLU:HB2	2.62	0.42
11:S9:88:GLU:O	11:S9:91:LYS:HB2	2.20	0.42
1:2:1211:A:H1'	17:C5:99:GLY:O	2.19	0.42
36:5:574:U:H2'	36:5:575:G:O4'	2.20	0.42
21:C9:101:ASN:O	21:C9:104:VAL:HB	2.53	0.42
15:C3:125:LEU:HA	15:C3:125:LEU:HD23	1.87	0.42
64:N8:65:GLN:HG2	64:N8:65:GLN:H	1.59	0.42
69:O3:44:TYR:HA	69:O3:47:LYS:HG3	2.11	0.42
50:M4:108:ARG:NH2	52:M6:196:ALA:O	2.53	0.42
36:1:745:C:H2'	36:1:746:A:C8	2.55	0.42
36:1:3252:G:H2'	36:1:3253:G:C8	2.55	0.42
36:1:3165:A:H2'	36:1:3166:C:C6	2.55	0.42
50:M4:121:MET:O	50:M4:125:LYS:HG2	2.19	0.42
28:D6:9:GLY:O	28:D6:10:ARG:HG3	2.20	0.42
7:S5:92:ARG:HB3	7:S5:172:ILE:HD13	2.02	0.42
7:S5:48:PHE:CG	7:S5:67:PRO:HB3	2.55	0.42
1:2:905:A:H4'	16:C4:52:ARG:NH1	2.34	0.42
1:2:735:C:O2'	1:2:736:C:H5''	2.20	0.42
36:1:3133:C:H2'	36:1:3134:A:O4'	2.20	0.42
18:C6:43:ILE:H	18:C6:43:ILE:HD13	1.85	0.42
36:1:860:G:H5'	36:1:861:C:H5'	2.01	0.42
1:2:901:G:C6	1:2:902:G:C6	3.07	0.42
1:6:1160:A:H2'	1:6:1161:C:H6	1.77	0.42
40:L3:21:ARG:HD3	40:L3:269:GLN:OE1	2.93	0.42
27:D5:46:LYS:O	27:D5:50:ILE:HG13	3.40	0.42
40:L3:258:ALA:O	40:L3:259:HIS:CD2	2.77	0.42
64:N8:90:TYR:CD1	64:N8:100:PRO:HG3	2.54	0.42
70:O4:22:VAL:HG12	36:5:1668:G:H4'	156.88	0.42
7:S5:164:PRO:O	7:S5:167:ARG:HB2	2.20	0.42
34:SR:162:ALA:O	34:SR:163:ASP:HB3	2.20	0.42
41:L4:193:LYS:HE3	41:L4:193:LYS:HB2	1.70	0.42
36:1:2296:A:H2	36:1:2918:G:N3	2.18	0.42
1:2:1467:C:O2'	21:C9:90:PRO:HD3	2.20	0.42
36:5:2572:C:O2'	36:5:2573:G:P	2.78	0.42
23:D1:64:GLU:OE2	29:D7:2:VAL:HG13	3.16	0.42
45:L8:101:THR:N	45:L8:104:GLU:OE2	2.49	0.42
36:1:1566:A:H2'	36:1:1567:U:H5''	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3163:A:C6	36:5:3288:G:O6	2.73	0.42
36:1:1674:G:C2	36:1:1774:C:N3	2.88	0.42
1:6:715:U:H2'	1:6:716:C:C6	2.55	0.42
48:M1:150:ASN:O	48:M1:152:HIS:N	2.53	0.42
38:4:23:U:P	62:N6:16:ARG:HH21	2.43	0.42
40:L3:95:THR:C	40:L3:97:ARG:H	2.30	0.42
11:S9:36:LEU:HA	11:S9:36:LEU:HD23	3.00	0.42
45:L8:94:PHE:HB3	45:L8:189:LEU:CD1	2.49	0.42
1:2:5:U:N3	1:2:20:G:C2	2.87	0.42
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.20	0.42
57:N1:139:ARG:HH21	57:N1:139:ARG:CG	3.48	0.42
40:L3:347:SER:HB2	40:L3:350:ALA:HB2	3.13	0.42
50:M4:24:LYS:HG3	50:M4:25:LYS:HG2	2.01	0.42
22:D0:26:LEU:HD23	22:D0:114:VAL:HA	2.67	0.42
37:7:92:A:C5	37:7:93:C:H1'	2.55	0.42
70:O4:78:GLY:O	70:O4:80:ARG:N	4.44	0.42
40:L3:361:THR:HG22	40:L3:371:GLN:OE1	2.55	0.42
49:M3:6:ASN:O	54:M8:164:ARG:HD2	2.20	0.42
47:M0:169:LYS:HD3	57:N1:158:THR:O	4.99	0.42
21:C9:65:ILE:HG12	21:C9:71:VAL:HG13	5.31	0.42
36:1:3295:A:OP2	40:L3:126:LYS:N	2.42	0.42
13:C1:112:SER:HA	13:C1:113:PRO:HD2	1.66	0.42
1:6:1594:G:C6	1:6:1595:U:N3	2.88	0.42
14:C2:131:ASP:OD1	14:C2:133:LEU:HD12	2.33	0.42
36:1:373:A:H62	36:1:396:A:N6	2.18	0.42
36:1:1331:U:OP2	36:1:1332:A:N6	2.48	0.42
9:S7:142:TYR:HE1	24:D2:39:GLN:NE2	2.18	0.42
70:O4:60:ARG:HH21	36:5:1616:U:H4'	140.75	0.42
61:N5:79:GLY:C	61:N5:81:ILE:HD12	3.71	0.42
4:S2:115:ILE:HD13	4:S2:208:GLU:HG2	2.01	0.42
4:S2:99:LYS:HB2	4:S2:117:THR:HB	2.82	0.42
36:5:434:U:H2'	36:5:435:C:C6	2.55	0.42
1:2:215:A:OP2	1:2:215:A:H8	2.03	0.42
36:5:3316:A:H5''	36:5:3318:G:H22	1.84	0.42
70:O4:10:ARG:O	36:5:1488:G:O2'	139.49	0.42
56:N0:141:LYS:HE3	56:N0:141:LYS:HB3	4.59	0.42
1:6:1376:C:O2'	1:6:1377:U:H5'	2.19	0.42
38:8:104:A:C8	38:8:105:A:C8	3.08	0.42
36:5:2372:A:H4'	36:5:2373:A:OP2	2.19	0.42
36:1:1716:U:HO2'	36:1:1717:U:H4'	1.85	0.42
56:N0:132:THR:OG1	36:5:534:U:OP1	353.79	0.42
36:5:1576:G:H5'	36:5:1577:G:OP2	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:E1:123:ASN:HA	33:E1:124:PRO:HD2	1.97	0.42
52:M6:193:GLN:O	52:M6:196:ALA:HB3	2.20	0.42
55:M9:25:ASP:HB3	55:M9:28:GLU:HB2	2.93	0.42
36:5:1049:C:H2'	36:5:1050:U:C6	2.55	0.42
36:5:2900:A:H2'	36:5:2901:G:O5'	2.20	0.42
36:5:2997:G:O4'	36:5:3396:U:H5'	2.19	0.42
37:3:36:C:H2'	37:3:37:G:C8	2.55	0.42
36:1:2799:A:H5''	36:1:2800:G:O5'	2.20	0.42
42:L5:238:ASP:HA	42:L5:241:THR:HB	2.01	0.42
36:1:499:G:H2'	36:1:500:C:C6	2.54	0.42
1:6:55:A:N6	1:6:403:G:H1'	2.34	0.42
36:1:3279:A:C6	36:1:3280:U:C4	3.08	0.42
5:S3:6:SER:O	5:S3:10:LYS:HB2	2.20	0.42
36:5:802:C:O2'	36:5:803:C:H5'	2.20	0.42
36:5:1203:A:H5'	37:7:90:U:N3	2.35	0.42
43:L6:148:GLU:O	43:L6:151:LYS:HB2	2.20	0.42
42:L5:274:GLN:OE1	37:7:60:G:N2	332.59	0.42
1:2:976:G:C6	1:2:1023:A:C4	3.08	0.42
36:5:2313:A:O4'	36:5:2315:G:C8	2.73	0.42
45:L8:224:ASP:OD1	45:L8:224:ASP:N	2.58	0.42
64:N8:7:LYS:HA	64:N8:7:LYS:HD2	1.77	0.42
41:L4:48:GLN:HB3	41:L4:48:GLN:HE21	1.62	0.42
44:L7:175:LYS:HE2	44:L7:175:LYS:HB2	1.71	0.42
1:2:1498:G:H5''	21:C9:72:GLY:HA3	2.01	0.42
20:C8:134:ARG:O	20:C8:136:GLN:N	4.37	0.42
8:S6:189:HIS:CE1	8:S6:193:LEU:HD12	3.27	0.42
45:L8:29:SER:O	45:L8:31:PRO:HD3	3.04	0.42
1:6:1215:C:H2'	1:6:1216:C:C6	2.54	0.42
8:S6:67:VAL:HG23	8:S6:68:LEU:O	2.46	0.42
18:C6:11:GLY:HA2	18:C6:83:GLN:NE2	2.35	0.42
18:C6:50:GLU:O	18:C6:54:LEU:HB2	2.19	0.42
12:C0:14:TYR:CD2	12:C0:35:ILE:HD11	2.54	0.42
36:1:155:G:H1'	72:O6:26:ILE:CD1	2.49	0.42
36:5:3094:A:H2'	36:5:3095:U:C6	2.54	0.42
59:N3:12:ARG:HB2	36:5:3040:A:H5''	267.50	0.42
1:2:1032:G:C6	1:2:1033:C:C4	3.08	0.42
1:2:1033:C:H2'	1:2:1034:C:H6	1.85	0.42
9:S7:48:GLU:OE2	9:S7:88:ARG:NH2	2.51	0.42
36:1:1216:C:H6	36:1:1216:C:C5'	2.33	0.42
2:S0:41:ARG:CB	2:S0:45:VAL:HG23	5.02	0.42
4:S2:53:ILE:HG12	4:S2:72:LEU:HB3	2.01	0.42
63:N7:44:ALA:HB1	63:N7:114:VAL:HG11	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:259:HIS:NE2	36:5:2366:C:H5'	217.61	0.42
19:C7:6:THR:HG23	19:C7:9:VAL:HG23	2.19	0.42
1:2:851:U:H2'	1:2:852:C:C5	2.54	0.42
28:D6:79:ILE:HA	28:D6:84:VAL:CB	2.48	0.42
49:M3:164:GLU:O	64:N8:139:ARG:NH1	7.71	0.42
53:M7:132:ALA:O	53:M7:133:HIS:HB2	2.44	0.42
58:N2:50:LEU:H	58:N2:50:LEU:HG	1.92	0.42
4:S2:108:ASN:HA	4:S2:141:ARG:NH1	2.35	0.42
35:SM:65:THR:C	35:SM:67:GLY:H	4.93	0.42
4:S2:163:GLY:O	4:S2:164:SER:HB3	4.18	0.42
6:S4:139:VAL:HG13	6:S4:150:PRO:CG	2.61	0.42
34:SR:121:MET:HE3	34:SR:167:VAL:HG11	4.29	0.42
39:L2:204:MET:HE2	39:L2:209:HIS:ND1	2.35	0.42
71:O5:21:LEU:O	71:O5:25:LYS:HG3	2.20	0.42
36:1:99:A:H5'	51:M5:194:GLN:NE2	2.35	0.42
36:5:3288:G:O2'	36:5:3289:G:OP2	2.32	0.42
13:C1:7:VAL:HG13	13:C1:8:GLN:H	1.85	0.42
1:2:1067:C:H2'	1:2:1068:C:C6	2.52	0.42
11:S9:57:ARG:O	11:S9:61:THR:HG22	2.20	0.42
1:2:888:U:H1'	16:C4:126:THR:HG21	2.01	0.42
48:M1:11:ASP:O	48:M1:12:LEU:HB3	3.52	0.42
38:4:23:U:O4'	62:N6:17:LYS:HG2	2.20	0.42
1:2:1003:A:H1'	1:2:1005:A:N7	2.35	0.42
20:C8:28:ILE:HA	20:C8:31:ALA:HB3	2.01	0.42
45:L8:189:LEU:O	45:L8:190:VAL:HG23	3.82	0.42
39:L2:118:GLU:OE1	36:5:2158:A:O2'	196.55	0.42
73:O7:19:CYS:SG	73:O7:34:CYS:HB2	2.60	0.42
36:1:1472:U:H5'	55:M9:4:LEU:HB2	2.01	0.42
26:D4:89:TYR:O	26:D4:92:VAL:HG23	4.30	0.42
1:2:1537:C:C4	88:2:2154:OHX:N3	2.88	0.42
61:N5:132:ALA:O	61:N5:136:ALA:N	2.62	0.42
45:L8:82:LEU:HD12	45:L8:83:ASP:N	2.35	0.42
88:5:4014:OHX:N4	88:5:4205:OHX:N2	2.68	0.42
36:5:94:G:H2'	36:5:95:A:C8	2.54	0.42
15:C3:27:LYS:HB2	15:C3:28:LEU:H	1.62	0.42
15:C3:28:LEU:O	15:C3:29:SER:OG	3.91	0.42
52:M6:27:LEU:H	52:M6:27:LEU:HG	1.67	0.42
38:8:4:C:H2'	38:8:5:U:H6	1.84	0.42
36:5:1013:G:H2'	36:5:1014:U:O4'	2.20	0.42
36:5:2762:A:H1'	36:5:2800:G:C6	2.55	0.42
36:5:624:G:H2'	36:5:625:G:C8	2.53	0.42
42:L5:41:LYS:HD2	57:N1:93:VAL:HG11	4.26	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3317:U:H4'	36:5:3318:G:O5'	2.20	0.42
52:M6:83:ALA:HB1	36:5:1313:G:H5'	259.55	0.42
36:5:3132:C:H2'	36:5:3133:C:H6	1.84	0.42
7:S5:87:CYS:HA	7:S5:88:PRO:HD2	1.73	0.42
5:S3:32:GLU:O	5:S3:54:ARG:HB2	3.50	0.42
29:D7:75:GLU:HB3	29:D7:76:GLY:H	2.46	0.42
37:3:10:C:OP2	57:N1:26:HIS:CD2	2.73	0.42
36:1:2856:G:H2'	36:1:2857:C:H6	1.84	0.42
43:L6:136:GLU:OE2	43:L6:136:GLU:HA	2.76	0.42
50:M4:68:LEU:HD23	50:M4:68:LEU:HA	2.02	0.42
36:5:797:U:O2'	36:5:798:G:H5'	2.20	0.42
6:S4:146:THR:HG21	1:6:123:G:H21	341.00	0.42
1:2:1492:A:N3	1:2:1493:A:C8	2.88	0.42
36:1:2111:G:C8	60:N4:49:ILE:HD13	2.55	0.42
1:2:598:U:H2'	1:2:599:A:C8	2.55	0.42
36:5:1276:U:OP2	88:5:4010:OHX:N1	2.53	0.42
45:L8:97:TYR:O	45:L8:132:VAL:HG13	3.20	0.42
28:D6:46:GLU:HG3	28:D6:47:ALA:N	2.68	0.42
48:M1:117:ASP:OD2	48:M1:119:SER:HB3	2.19	0.42
1:6:1751:C:H2'	1:6:1752:U:O4'	2.20	0.42
14:C2:28:LEU:HD22	14:C2:32:LEU:HG	2.15	0.42
1:2:260:U:H3'	1:2:261:U:C5'	2.50	0.42
38:4:120:C:H2'	38:4:121:U:O4'	2.20	0.42
4:S2:77:GLN:HG3	4:S2:105:GLY:O	2.20	0.42
36:1:2842:U:HO2'	36:1:2843:U:P	2.41	0.42
1:2:871:G:O2'	29:D7:66:PRO:HB2	2.20	0.42
4:S2:132:ALA:O	4:S2:135:SER:OG	2.38	0.42
51:M5:7:LEU:HD12	51:M5:7:LEU:HA	2.27	0.42
54:M8:54:LEU:HA	54:M8:54:LEU:HD23	1.97	0.42
36:1:1191:U:C2	52:M6:48:PHE:CE1	3.08	0.42
39:L2:144:ASN:ND2	39:L2:161:ASP:OD1	3.92	0.42
8:S6:33:GLY:HA2	8:S6:51:LYS:HE2	2.02	0.42
1:6:448:C:H2'	1:6:449:C:C6	2.55	0.41
36:5:2836:C:O2	36:5:2836:C:O4'	2.38	0.41
36:5:368:G:OP1	88:5:3927:OHX:N4	2.53	0.41
88:6:2057:OHX:N1	88:6:2143:OHX:N4	2.68	0.41
6:S4:10:LYS:HD3	1:6:381:C:H5''	358.81	0.41
61:N5:115:ARG:NH1	61:N5:119:THR:HG1	2.90	0.41
36:5:247:C:N3	36:5:248:U:H1'	2.35	0.41
63:N7:135:ARG:NH1	36:5:1807:G:H5'	195.05	0.41
1:2:169:A:OP1	8:S6:137:ARG:NH2	2.53	0.41
1:2:930:A:H5''	28:D6:70:LYS:HE2	2.00	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:L8:25:PRO:HB2	45:L8:26:LEU:H	1.56	0.41
2:S0:185:ARG:CA	23:D1:45:ALA:H	2.33	0.41
44:L7:89:ILE:HA	44:L7:89:ILE:HD13	1.62	0.41
40:L3:259:HIS:HB3	36:5:2987:A:O2'	217.16	0.41
7:S5:56:ALA:HA	7:S5:59:VAL:HG23	3.10	0.41
25:D3:23:ARG:HH11	25:D3:23:ARG:CG	2.80	0.41
62:N6:124:GLY:O	62:N6:126:LEU:N	4.74	0.41
42:L5:113:LEU:HD12	42:L5:113:LEU:HA	1.82	0.41
45:L8:156:ASP:CG	45:L8:183:LYS:HG2	3.06	0.41
34:SR:170:ILE:HD12	34:SR:211:ILE:HG23	3.52	0.41
74:O8:17:ARG:HB3	74:O8:20:VAL:CG2	3.22	0.41
10:S8:48:THR:CG2	10:S8:54:LYS:HB2	2.49	0.41
42:L5:148:ILE:HG23	42:L5:151:GLN:HB3	2.36	0.41
46:L9:106:LYS:HG3	46:L9:107:ASP:OD2	3.71	0.41
36:5:2724:U:C4	36:5:2725:U:O4	2.73	0.41
16:C4:26:THR:HG21	16:C4:97:GLY:CA	2.50	0.41
3:S1:126:THR:HA	3:S1:136:ARG:HA	2.72	0.41
36:1:1764:U:H5''	55:M9:43:LYS:NZ	2.34	0.41
36:1:1599:G:C5	36:1:1600:U:C5	3.07	0.41
36:1:2927:C:H2'	36:1:2928:C:H6	1.85	0.41
37:3:64:A:H5'	37:3:65:G:H5''	2.02	0.41
55:M9:91:SER:H	55:M9:91:SER:HG	1.32	0.41
1:2:717:C:H42	1:2:720:G:N2	2.17	0.41
63:N7:64:LYS:HB2	63:N7:64:LYS:HE2	2.89	0.41
36:1:2946:A:C5'	36:1:2947:G:H5'	2.50	0.41
1:2:158:U:H5'	1:2:158:U:H6	1.85	0.41
1:6:1078:C:H2'	1:6:1079:U:C6	2.55	0.41
1:6:1078:C:H2'	1:6:1079:U:H6	1.85	0.41
21:C9:23:GLN:HG3	21:C9:55:TYR:CE2	4.22	0.41
36:5:137:G:N2	36:5:138:U:C2	2.88	0.41
1:6:647:G:N2	1:6:687:G:N2	2.67	0.41
31:D9:16:LYS:HG2	1:6:1596:C:OP1	400.66	0.41
88:8:218:OHX:N5	88:8:225:OHX:N3	2.68	0.41
48:M1:162:TRP:CZ2	48:M1:166:LYS:HD2	2.55	0.41
7:S5:173:ALA:O	7:S5:177:ILE:HG13	2.20	0.41
36:1:2225:U:H2'	36:1:2226:U:C6	2.55	0.41
13:C1:36:LYS:O	13:C1:44:THR:HG21	2.39	0.41
49:M3:35:ARG:NH1	36:5:685:G:P	83.78	0.41
1:2:1542:G:O2'	88:2:2102:OHX:N4	2.53	0.41
40:L3:115:LYS:HE3	40:L3:129:ALA:HB3	5.31	0.41
59:N3:67:PRO:C	59:N3:69:LEU:H	2.85	0.41
39:L2:136:ILE:HA	39:L2:148:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:S1:31:ASP:HA	3:S1:45:LYS:HA	2.01	0.41
1:6:609:U:H4'	1:6:610:G:O5'	2.20	0.41
11:S9:66:ASP:HA	11:S9:67:PRO:HD2	1.94	0.41
17:C5:60:LEU:HD23	17:C5:60:LEU:HA	2.46	0.41
36:5:561:C:H2'	36:5:562:C:C6	2.55	0.41
23:D1:41:GLU:CD	23:D1:41:GLU:H	2.59	0.41
36:5:1345:G:N7	88:5:4069:OHX:N5	2.68	0.41
45:L8:203:VAL:HG13	45:L8:204:ARG:O	2.98	0.41
53:M7:33:ALA:HB1	53:M7:117:ILE:HG12	2.22	0.41
36:5:3302:U:H3	36:5:3312:U:H3	1.67	0.41
1:6:246:G:C6	1:6:247:A:C6	3.08	0.41
78:Q2:63:LYS:NZ	36:5:2761:G:N7	211.47	0.41
41:L4:281:ILE:HG22	54:M8:25:TYR:HB3	2.02	0.41
58:N2:34:ALA:O	58:N2:38:ILE:HG13	4.57	0.41
2:S0:78:SER:OG	2:S0:129:ASP:OD1	3.23	0.41
1:6:841:U:H2'	1:6:842:C:C6	2.55	0.41
14:C2:24:ILE:O	14:C2:26:ASP:N	2.89	0.41
36:5:2689:A:H4'	36:5:2690:G:H5'	2.01	0.41
49:M3:116:LEU:HA	49:M3:116:LEU:HD23	1.68	0.41
23:D1:5:LYS:HG2	23:D1:5:LYS:H	1.73	0.41
15:C3:83:GLU:HG2	15:C3:83:GLU:H	1.60	0.41
49:M3:171:ARG:HA	49:M3:171:ARG:HD3	1.73	0.41
36:1:3066:U:O4	88:1:4148:OHX:N5	2.53	0.41
1:2:1636:C:C2	1:2:1638:G:C5	3.08	0.41
1:2:1188:G:H5''	1:2:1189:A:OP2	2.19	0.41
43:L6:89:THR:HG21	50:M4:115:PHE:CB	2.50	0.41
36:5:662:U:H2'	36:5:663:C:C6	2.54	0.41
42:L5:107:ARG:NE	42:L5:107:ARG:HA	2.35	0.41
10:S8:44:HIS:O	10:S8:56:ARG:N	2.82	0.41
18:C6:47:LYS:HZ1	18:C6:114:ARG:HG2	1.85	0.41
15:C3:56:ASP:HA	29:D7:47:PHE:HB3	2.48	0.41
44:L7:150:LYS:HD3	44:L7:244:ASN:ND2	2.35	0.41
40:L3:147:GLU:O	40:L3:150:ARG:HB3	2.30	0.41
8:S6:177:ARG:NH2	1:6:142:G:C6	313.29	0.41
2:S0:184:LEU:HD12	23:D1:45:ALA:HB2	2.57	0.41
79:Q3:36:ARG:NH2	79:Q3:46:THR:HG22	2.35	0.41
56:N0:84:ARG:HG3	36:5:1295:G:OP1	295.08	0.41
27:D5:49:ARG:HD3	27:D5:53:GLU:OE2	2.19	0.41
24:D2:103:ILE:HA	24:D2:112:ASP:HA	2.02	0.41
1:6:1185:U:C2	1:6:1458:G:N7	2.88	0.41
48:M1:49:LYS:NZ	78:Q2:101:GLY:O	2.53	0.41
63:N7:61:LYS:HE3	36:5:2573:G:OP1	181.88	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:M7:127:ARG:O	53:M7:139:TYR:N	2.60	0.41
36:5:3287:U:H2'	36:5:3288:G:C5'	2.50	0.41
2:S0:9:LEU:HD22	2:S0:9:LEU:O	4.29	0.41
36:5:1560:G:HO2'	36:5:1561:G:P	2.43	0.41
10:S8:8:ARG:NH2	10:S8:21:PHE:HB3	2.34	0.41
18:C6:5:PRO:HG2	18:C6:24:ALA:CB	2.47	0.41
64:N8:104:THR:HG23	64:N8:126:LYS:O	2.41	0.41
1:2:498:G:C4	1:2:499:U:N3	2.88	0.41
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.35	0.41
36:5:2724:U:O4	88:5:3962:OHX:N1	2.53	0.41
1:2:839:U:H5''	13:C1:28:SER:OG	2.19	0.41
32:E0:50:VAL:HA	32:E0:53:LYS:O	2.20	0.41
6:S4:36:HIS:NE2	6:S4:88:ASP:OD1	2.79	0.41
1:6:1673:G:O5'	1:6:1673:G:H8	2.03	0.41
23:D1:56:SER:O	23:D1:60:ARG:HG3	2.75	0.41
1:6:525:A:C6	1:6:526:A:C6	3.08	0.41
36:5:253:A:O2'	36:5:254:A:H8	2.02	0.41
36:1:1599:G:C6	36:1:1600:U:C4	3.07	0.41
5:S3:170:THR:HG23	5:S3:187:LYS:HG3	5.38	0.41
15:C3:47:PRO:HG3	15:C3:75:LEU:HD22	2.02	0.41
15:C3:89:TYR:CZ	15:C3:150:VAL:HG22	3.45	0.41
36:5:1631:C:H5''	36:5:1632:A:C5'	2.50	0.41
5:S3:90:ARG:HH21	5:S3:91:VAL:HG12	7.42	0.41
68:O2:55:ILE:HA	68:O2:55:ILE:HD12	1.77	0.41
55:M9:89:LEU:HD21	55:M9:94:VAL:HG22	2.02	0.41
44:L7:232:ARG:HG3	44:L7:235:PHE:HB2	2.27	0.41
68:O2:32:TRP:CE2	68:O2:53:PRO:HD2	2.55	0.41
36:5:871:U:H2'	36:5:872:U:C6	2.55	0.41
36:5:1013:G:C2	36:5:1014:U:H1'	2.56	0.41
39:L2:20:THR:HG22	39:L2:23:ARG:CZ	7.38	0.41
36:5:980:A:N6	36:5:1102:A:C6	2.88	0.41
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.56	0.41
59:N3:86:ARG:HB2	59:N3:92:PHE:CE1	2.54	0.41
79:Q3:70:THR:HG23	79:Q3:71:VAL:N	2.46	0.41
62:N6:27:ARG:CZ	62:N6:78:PHE:CZ	3.03	0.41
41:L4:289:ILE:HG12	41:L4:289:ILE:H	1.81	0.41
1:2:872:G:H22	1:2:1047:G:H4'	1.85	0.41
1:2:872:G:H2'	1:2:873:U:O4'	2.20	0.41
36:1:534:U:O2	56:N0:146:LYS:HA	2.21	0.41
36:1:1645:U:C2'	36:1:1646:G:H5'	2.51	0.41
1:2:339:C:O2'	1:2:340:U:H5'	2.20	0.41
59:N3:81:GLN:O	59:N3:82:ALA:CB	2.69	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:182:LEU:HD21	47:M0:185:ARG:NH1	3.17	0.41
1:6:976:G:O6	88:6:2077:OHX:N6	2.52	0.41
40:L3:311:PHE:HE2	40:L3:317:ILE:HG13	1.99	0.41
1:6:1606:C:H2'	1:6:1607:G:C8	2.55	0.41
36:1:3199:G:H5''	50:M4:6:ILE:HG21	2.02	0.41
36:5:439:C:H1'	36:5:440:A:C8	2.54	0.41
55:M9:69:SER:HA	55:M9:72:GLU:HB2	2.02	0.41
1:2:140:A:O4'	8:S6:179:VAL:HG21	2.20	0.41
36:1:343:U:O2	41:L4:95:ARG:HD2	2.20	0.41
74:O8:25:VAL:HB	74:O8:77:ARG:HD2	2.31	0.41
61:N5:27:ARG:HG2	61:N5:27:ARG:H	1.62	0.41
21:C9:116:ILE:HG13	21:C9:116:ILE:H	1.58	0.41
49:M3:136:GLU:O	49:M3:136:GLU:HG3	2.16	0.41
49:M3:120:GLN:C	49:M3:122:LYS:H	2.83	0.41
1:2:1181:U:H2'	1:2:1182:U:O4'	2.20	0.41
36:1:181:U:H2'	36:1:182:U:O4'	2.20	0.41
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.50	0.41
1:2:767:U:C5	11:S9:143:ILE:HD12	2.55	0.41
61:N5:46:TYR:OH	71:O5:78:LYS:HE3	2.56	0.41
26:D4:109:LYS:O	26:D4:112:LYS:HB3	2.55	0.41
47:M0:149:VAL:O	47:M0:152:LEU:N	2.53	0.41
42:L5:55:PHE:CD1	42:L5:60:ILE:HG12	2.55	0.41
1:6:168:A:H2'	1:6:169:A:C8	2.55	0.41
36:1:2207:A:H2'	36:1:2208:A:C8	2.53	0.41
53:M7:69:ARG:HD3	36:5:3308:C:O2	185.66	0.41
40:L3:261:MET:HG2	52:M6:64:PHE:HA	2.01	0.41
7:S5:149:VAL:O	7:S5:155:ALA:HB1	2.21	0.41
51:M5:197:LEU:HD12	51:M5:197:LEU:HA	3.14	0.41
63:N7:5:LEU:HD23	63:N7:5:LEU:HA	1.72	0.41
1:2:1196:A:C8	1:2:1602:C:H4'	2.55	0.41
36:1:2273:G:H22	36:1:2311:G:H2'	1.84	0.41
36:5:1152:G:N2	36:5:1200:A:H61	2.17	0.41
36:1:2948:C:H2'	36:1:2949:U:O4'	2.20	0.41
36:1:1348:U:H4'	36:1:1349:G:OP1	2.19	0.41
36:5:3287:U:H2'	36:5:3287:U:O2	2.20	0.41
2:S0:60:ALA:CB	2:S0:160:ILE:HD11	2.65	0.41
4:S2:148:LEU:O	23:D1:4:ASP:HB2	2.19	0.41
64:N8:46:ASP:N	64:N8:46:ASP:OD1	2.53	0.41
1:2:1657:U:C4	88:2:2089:OHX:N4	2.88	0.41
6:S4:88:ASP:HB2	6:S4:101:LEU:HD12	2.03	0.41
55:M9:37:SER:HG	55:M9:40:ALA:H	1.63	0.41
62:N6:103:LYS:HA	62:N6:103:LYS:HD3	1.74	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:M9:154:ALA:O	55:M9:158:GLU:HG2	2.20	0.41
36:5:20:A:O2'	36:5:21:G:H5'	2.21	0.41
34:SR:57:PRO:O	34:SR:58:VAL:HG13	2.20	0.41
36:1:3138:U:OP2	40:L3:30:LYS:HD3	2.20	0.41
36:5:2206:G:O2'	36:5:2207:A:H5'	2.20	0.41
45:L8:108:ARG:HH11	45:L8:108:ARG:HD3	1.84	0.41
36:5:2591:A:O2'	36:5:2592:G:H5'	2.20	0.41
36:5:3279:A:N6	36:5:3280:U:C4	2.89	0.41
13:C1:69:LYS:HB3	13:C1:71:LEU:HD21	3.38	0.41
71:O5:10:ARG:HG2	71:O5:57:VAL:HG13	2.01	0.41
36:5:2179:C:H4'	36:5:2180:G:OP2	2.20	0.41
36:1:1408:G:P	68:O2:33:ARG:HH22	2.42	0.41
43:L6:82:ARG:HH11	43:L6:82:ARG:HD2	2.28	0.41
70:O4:81:CYS:O	70:O4:83:ASN:N	2.53	0.41
41:L4:191:LYS:HD2	41:L4:194:TYR:OH	3.57	0.41
58:N2:20:SER:O	58:N2:23:THR:N	2.54	0.41
40:L3:113:GLU:OE2	40:L3:167:ARG:HB3	2.20	0.41
53:M7:136:ILE:HD13	53:M7:136:ILE:HG21	1.91	0.41
1:2:1540:G:C6	1:2:1541:G:C4	3.09	0.41
43:L6:38:THR:HG23	43:L6:90:LYS:HG3	3.66	0.41
36:5:372:A:C6	36:5:373:A:C6	3.08	0.41
48:M1:95:ASN:O	48:M1:102:PHE:HA	2.28	0.41
30:D8:8:THR:HB	30:D8:56:LEU:HB2	2.74	0.41
1:2:1206:U:H5''	1:2:1207:C:OP2	2.19	0.41
13:C1:54:ILE:HG22	13:C1:55:ASP:N	2.35	0.41
48:M1:117:ASP:O	48:M1:120:ILE:HG22	2.20	0.41
36:1:310:U:H2'	36:1:311:C:O4'	2.20	0.41
51:M5:135:VAL:HG13	51:M5:142:ILE:HG12	2.01	0.41
36:1:1316:C:C6	52:M6:130:LYS:HB2	2.55	0.41
36:5:2204:C:H4'	36:5:2205:U:OP1	2.20	0.41
36:1:503:C:OP1	43:L6:26:ARG:NH1	2.53	0.41
36:1:285:A:C8	36:1:285:A:H3'	2.54	0.41
39:L2:19:HIS:N	39:L2:19:HIS:CD2	3.01	0.41
42:L5:131:LEU:HA	42:L5:131:LEU:HD13	4.43	0.41
4:S2:36:VAL:O	4:S2:36:VAL:HG12	2.19	0.41
18:C6:6:SER:HA	18:C6:23:LYS:HA	2.52	0.41
1:2:1487:A:H2	1:2:1495:C:O2'	2.03	0.41
10:S8:42:ARG:CB	10:S8:59:ARG:HB2	3.47	0.41
36:5:1073:U:H2'	36:5:1074:U:C6	2.55	0.41
40:L3:293:ASN:HB2	40:L3:305:ILE:N	3.52	0.41
36:1:3362:A:H2'	36:1:3363:U:O4'	2.20	0.41
8:S6:30:LYS:O	8:S6:102:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:S1:125:VAL:CG1	3:S1:173:THR:HG22	3.13	0.41
13:C1:83:THR:HA	13:C1:111:VAL:HG12	2.03	0.41
1:2:1773:C:H2'	1:2:1774:G:H8	1.85	0.41
7:S5:20:PHE:O	7:S5:21:THR:OG1	2.42	0.41
18:C6:38:LEU:HA	18:C6:38:LEU:HD23	2.22	0.41
36:1:155:G:H4'	36:1:156:G:H2'	2.03	0.41
21:C9:68:ARG:HG2	21:C9:68:ARG:H	1.63	0.41
72:O6:66:GLU:OE2	72:O6:91:ASN:ND2	4.00	0.41
1:6:330:G:H2'	1:6:331:A:O4'	2.20	0.41
40:L3:227:GLU:HB3	40:L3:232:ARG:HB2	2.51	0.41
36:1:2395:G:H4'	40:L3:258:ALA:HB1	2.02	0.41
33:E1:134:ASN:N	1:6:1251:U:H4'	442.68	0.41
1:2:1226:A:C2	14:C2:116:VAL:HG11	2.55	0.41
36:1:3121:U:H1'	36:1:3122:A:H5''	2.02	0.41
36:5:541:U:O4	88:5:4016:OHX:N3	2.53	0.41
58:N2:100:THR:O	58:N2:102:GLU:HG3	2.93	0.41
6:S4:126:VAL:HG21	6:S4:155:LYS:O	2.91	0.41
1:6:583:C:OP1	88:6:2047:OHX:N6	2.54	0.41
2:S0:203:PHE:CD2	2:S0:203:PHE:N	2.87	0.41
36:5:3053:G:H2'	36:5:3054:U:C6	2.55	0.41
36:1:1597:C:C4'	36:1:1696:A:H1'	2.50	0.41
39:L2:117:GLU:OE2	39:L2:120:PRO:HA	2.20	0.41
36:1:2523:A:N6	45:L8:57:ARG:HD2	2.35	0.41
6:S4:92:LEU:HB2	6:S4:95:THR:CG2	4.98	0.41
34:SR:21:THR:OG1	34:SR:69:GLN:O	5.91	0.41
1:6:453:U:H3'	1:6:453:U:O2	2.21	0.41
46:L9:82:VAL:O	46:L9:82:VAL:HG13	2.51	0.41
55:M9:12:ALA:HB1	55:M9:17:VAL:O	2.29	0.41
36:5:1085:A:H5'	36:5:1086:C:OP2	2.20	0.41
88:8:218:OHX:N6	88:8:225:OHX:N3	2.68	0.41
1:6:1620:C:O2'	1:6:1621:U:OP1	2.34	0.41
36:1:660:A:H5'	41:L4:92:ASN:ND2	2.35	0.41
1:2:215:A:N6	1:2:242:U:H3'	2.36	0.41
15:C3:15:ALA:HB2	29:D7:20:LYS:CD	3.84	0.41
36:5:22:G:O4'	38:8:104:A:H1'	2.20	0.41
5:S3:133:GLY:HA2	5:S3:155:GLY:HA3	2.35	0.41
21:C9:88:VAL:CG2	1:6:1172:G:H21	356.12	0.41
44:L7:101:LYS:O	44:L7:101:LYS:HD3	2.21	0.41
8:S6:214:LYS:HE3	8:S6:214:LYS:HB2	4.43	0.41
88:5:3945:OHX:N5	88:5:4239:OHX:N3	2.67	0.41
88:1:3982:OHX:N6	88:1:4170:OHX:N4	2.67	0.41
1:6:1711:C:H2'	1:6:1712:A:H5''	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1785:U:H2'	36:5:1786:G:C8	2.55	0.41
58:N2:13:LYS:NZ	36:5:1676:A:OP1	157.73	0.41
1:6:86:A:OP2	88:6:2186:OHX:N1	2.53	0.41
36:5:3207:U:O2'	36:5:3208:G:H5'	2.19	0.41
45:L8:115:ALA:O	45:L8:119:GLY:N	2.84	0.41
36:5:529:A:H2'	36:5:530:G:O4'	2.20	0.41
1:6:1511:U:H2'	1:6:1512:G:C8	2.56	0.41
26:D4:52:LYS:C	26:D4:54:ALA:H	2.24	0.41
74:O8:58:ASP:HB3	74:O8:61:LYS:HD3	4.01	0.41
6:S4:207:LEU:HD23	6:S4:207:LEU:HA	2.29	0.41
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.95	0.41
2:S0:202:TYR:CD2	2:S0:202:TYR:N	2.88	0.41
42:L5:5:LYS:NZ	42:L5:5:LYS:HA	4.01	0.41
1:2:1597:A:OP2	31:D9:32:ARG:NH2	2.53	0.41
3:S1:72:ASP:OD1	16:C4:114:ARG:NH1	3.90	0.41
49:M3:46:ILE:HG23	49:M3:46:ILE:HD12	2.39	0.41
40:L3:53:MET:HB2	36:5:3049:A:C5'	233.97	0.41
36:1:2789:U:OP1	54:M8:179:ARG:NH1	2.53	0.41
88:6:2057:OHX:N2	88:6:2143:OHX:N4	2.69	0.41
27:D5:55:PRO:HG3	27:D5:88:ILE:CG2	6.24	0.41
66:O0:41:LEU:HD22	66:O0:42:ILE:H	1.84	0.41
41:L4:181:VAL:HG11	41:L4:224:GLY:CA	3.27	0.41
39:L2:30:ARG:O	39:L2:123:ARG:HG2	3.59	0.41
34:SR:239:GLU:O	34:SR:257:ALA:N	2.72	0.41
1:2:701:U:H3	1:2:737:A:N6	2.17	0.41
1:2:702:G:C6	1:2:737:A:N6	2.87	0.41
59:N3:2:SER:N	59:N3:57:MET:H	2.19	0.41
42:L5:55:PHE:CE1	42:L5:60:ILE:HG12	2.56	0.41
65:N9:23:LYS:CD	65:N9:24:PRO:HD3	2.50	0.41
3:S1:41:ARG:O	3:S1:43:VAL:HG23	2.20	0.41
34:SR:201:THR:OG1	34:SR:242:SER:HA	2.20	0.41
34:SR:50:ASP:CB	34:SR:53:LYS:HG3	2.50	0.41
66:O0:30:THR:HG21	66:O0:89:VAL:HG22	2.73	0.41
21:C9:16:ASN:HA	21:C9:56:LYS:NZ	2.35	0.41
62:N6:3:LYS:HG3	62:N6:8:VAL:CG1	2.45	0.41
19:C7:20:TYR:CD1	19:C7:38:ILE:HD12	3.70	0.41
53:M7:36:ILE:HG21	53:M7:36:ILE:HD13	1.76	0.41
62:N6:115:ARG:HG3	62:N6:115:ARG:HH11	2.65	0.41
36:1:2261:G:H21	36:1:2262:A:N6	2.19	0.41
36:1:1613:A:OP2	74:O8:46:ARG:NH2	2.53	0.41
11:S9:169:PRO:HG2	11:S9:174:ARG:HG3	3.79	0.41
48:M1:59:ILE:CG2	48:M1:65:ILE:HD11	2.49	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:30:G:P	51:M5:172:ARG:HE	2.44	0.41
38:8:59:A:H5''	38:8:61:A:C8	2.55	0.41
1:6:291:G:H2'	1:6:292:U:C6	2.55	0.41
16:C4:92:LYS:HG2	28:D6:69:ASN:HD21	1.86	0.41
29:D7:31:TYR:CD2	29:D7:48:SER:HB3	2.56	0.41
36:1:1598:G:OP2	70:O4:31:ARG:NH2	2.48	0.41
36:1:783:A:H5''	36:1:784:A:C5'	2.51	0.41
12:C0:53:GLY:O	12:C0:54:TYR:HB2	2.61	0.41
16:C4:25:ASP:N	16:C4:55:SER:HB3	2.36	0.41
1:2:732:G:H2'	1:2:732:G:N3	2.36	0.41
63:N7:82:PRO:HD2	66:O0:59:TYR:CZ	2.54	0.41
1:6:1713:G:H8	1:6:1713:G:O5'	2.03	0.41
45:L8:41:GLN:CG	45:L8:44:ARG:HH12	3.09	0.41
71:O5:13:SER:C	71:O5:15:GLU:N	2.72	0.41
1:6:1079:U:H2'	1:6:1080:U:C6	2.56	0.41
25:D3:47:SER:HB2	25:D3:48:HIS:ND1	2.36	0.41
41:L4:72:ALA:O	41:L4:76:ARG:NH1	3.18	0.41
11:S9:120:LYS:O	11:S9:120:LYS:HE2	5.87	0.41
68:O2:104:ASN:O	68:O2:108:ILE:HD12	3.82	0.41
4:S2:203:LYS:O	4:S2:206:THR:HG23	3.34	0.41
6:S4:252:ARG:HH11	11:S9:71:PHE:HA	1.85	0.41
34:SR:250:TYR:O	34:SR:251:TRP:HD1	2.03	0.41
5:S3:137:VAL:HB	5:S3:185:LYS:HB2	2.01	0.41
40:L3:370:PHE:CD1	40:L3:376:LYS:HA	2.56	0.41
1:2:1142:A:H2'	1:2:1143:A:C8	2.55	0.41
36:1:3251:U:H2'	36:1:3252:G:C8	2.56	0.41
70:O4:5:VAL:HG22	70:O4:6:THR:N	2.35	0.41
36:5:330:G:OP2	88:5:4052:OHX:N1	2.54	0.41
36:1:225:C:H2'	36:1:226:C:C6	2.55	0.41
15:C3:78:ASN:HB3	15:C3:80:LEU:HD23	2.02	0.41
54:M8:81:VAL:HG22	54:M8:101:VAL:HG22	2.19	0.41
36:5:726:G:H5'	36:5:727:G:P	2.60	0.41
4:S2:46:LYS:C	4:S2:48:GLY:H	2.23	0.41
36:5:2201:G:H2'	36:5:2202:C:C6	2.55	0.41
36:5:915:A:H8	36:5:2136:C:O2'	2.04	0.41
1:6:88:U:H4'	1:6:171:A:O4'	2.20	0.41
1:6:905:A:C2	1:6:906:A:H1'	2.55	0.41
55:M9:122:VAL:O	55:M9:126:GLU:HB2	2.20	0.41
36:1:2659:G:N7	88:1:3888:OHX:N5	2.69	0.41
6:S4:66:MET:HE1	6:S4:78:THR:OG1	3.50	0.41
1:2:1524:A:C6	1:2:1525:A:C6	3.08	0.41
53:M7:95:LEU:HD23	53:M7:95:LEU:HA	1.89	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:8:37:A:H5''	38:8:39:G:O4'	2.21	0.41
1:6:1497:U:C2	1:6:1498:G:C8	3.08	0.41
36:1:8:C:H2'	36:1:9:U:O4'	2.21	0.41
28:D6:26:CYS:HB3	28:D6:77:CYS:SG	2.61	0.41
6:S4:16:HIS:O	6:S4:18:TRP:N	2.54	0.41
17:C5:25:LEU:O	17:C5:28:MET:HE2	2.35	0.41
10:S8:34:ALA:CB	10:S8:36:THR:HG22	2.51	0.41
2:S0:69:ASN:HB3	2:S0:71:GLU:OE1	2.21	0.41
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.21	0.41
3:S1:63:GLY:HA2	3:S1:88:VAL:O	2.20	0.41
59:N3:10:LYS:NZ	59:N3:53:SER:OG	3.36	0.41
36:1:1464:G:O2'	88:1:3887:OHX:N4	2.54	0.41
63:N7:135:ARG:HB3	63:N7:135:ARG:NH2	3.46	0.41
1:6:219:A:N6	1:6:843:U:H1'	2.35	0.41
36:5:244:G:C6	36:5:245:U:C4	3.09	0.41
33:E1:96:LYS:HG3	33:E1:97:LYS:N	4.87	0.41
71:O5:101:THR:HG23	71:O5:104:GLN:H	1.85	0.41
34:SR:200:ASN:ND2	34:SR:215:GLY:HA2	2.35	0.41
3:S1:217:LEU:O	3:S1:218:LEU:HD22	2.20	0.41
50:M4:53:VAL:HA	50:M4:54:PRO:HD3	1.65	0.41
1:6:151:G:N2	1:6:164:A:C4	2.88	0.41
34:SR:49:GLY:C	34:SR:51:ASP:H	2.24	0.41
36:1:1011:A:O4'	47:M0:194:GLY:HA2	2.21	0.41
28:D6:84:VAL:HG22	28:D6:85:ARG:N	2.34	0.41
58:N2:58:GLU:HA	58:N2:62:VAL:O	2.20	0.41
51:M5:68:ARG:HD2	51:M5:127:TYR:C	2.40	0.41
11:S9:108:ARG:HH21	11:S9:145:SER:HB2	1.86	0.41
24:D2:23:ARG:H	24:D2:24:GLN:NE2	4.00	0.41
1:6:1664:C:H2'	1:6:1665:U:O4'	2.20	0.41
39:L2:177:LYS:HA	39:L2:178:PRO:HD2	1.88	0.41
27:D5:41:ILE:HG23	27:D5:42:LEU:N	2.33	0.41
11:S9:171:ARG:HH11	11:S9:174:ARG:HB3	4.20	0.41
54:M8:178:ARG:HD2	54:M8:178:ARG:HA	3.07	0.41
1:6:1533:C:H4'	1:6:1539:G:C6	2.56	0.41
42:L5:148:ILE:HD11	42:L5:160:PHE:CZ	2.55	0.41
1:6:293:U:H2'	1:6:294:C:C6	2.55	0.41
59:N3:33:ASN:HD21	59:N3:63:LYS:HB2	1.85	0.41
12:C0:50:THR:O	12:C0:53:GLY:N	2.53	0.41
45:L8:78:PHE:C	45:L8:80:TYR:N	2.73	0.41
36:1:564:G:H2'	36:1:565:U:H6	1.83	0.41
1:2:226:A:H2'	1:2:226:A:N3	2.34	0.41
36:5:1262:G:H5''	36:5:1263:A:OP2	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:79:TYR:HB3	34:SR:91:LEU:HD11	2.48	0.41
13:C1:75:VAL:CG1	13:C1:119:VAL:HA	2.78	0.41
2:S0:30:GLN:HA	2:S0:149:LEU:O	2.21	0.41
36:1:1220:U:H4'	36:1:1222:G:C8	2.56	0.41
6:S4:246:LEU:HB2	6:S4:251:GLU:HG2	2.33	0.41
36:5:1611:G:H2'	36:5:1612:A:C8	2.56	0.41
36:1:73:C:C4	72:O6:15:LYS:HD3	2.56	0.41
1:2:1357:A:C6	1:2:1358:G:C6	3.09	0.41
6:S4:210:ILE:O	6:S4:217:THR:HA	2.20	0.41
38:4:79:A:O5'	38:4:79:A:H8	2.03	0.41
2:S0:167:LYS:HE3	2:S0:168:HIS:CD2	3.59	0.41
40:L3:358:TRP:CZ2	40:L3:360:ASP:HA	2.56	0.41
57:N1:95:HIS:O	57:N1:96:ILE:HD13	2.56	0.41
36:1:1608:C:H2'	36:1:1609:C:C6	2.53	0.41
36:1:138:U:H2'	36:1:139:G:H8	1.85	0.41
1:6:861:U:H5''	1:6:862:A:OP2	2.21	0.41
1:2:819:G:O6	1:2:853:G:C6	2.73	0.41
45:L8:73:PRO:HD3	45:L8:233:TRP:CD2	2.55	0.41
40:L3:252:ILE:HA	40:L3:252:ILE:HD13	1.55	0.41
59:N3:45:ARG:HD2	59:N3:46:LEU:N	2.36	0.41
47:M0:19:LYS:HG3	47:M0:26:VAL:HG13	2.02	0.41
46:L9:129:ARG:HB3	46:L9:132:VAL:CG1	4.17	0.41
60:N4:87:LEU:O	60:N4:91:LYS:N	4.48	0.41
24:D2:111:MET:SD	24:D2:115:GLU:HG2	2.60	0.41
36:5:2239:G:N7	88:5:4197:OHX:N5	2.68	0.41
56:N0:45:LEU:HA	56:N0:45:LEU:HD13	2.30	0.41
36:5:540:U:C2	36:5:552:G:N2	2.89	0.41
36:5:2397:A:H8	36:5:2941:A:N1	2.19	0.41
59:N3:16:GLY:O	59:N3:18:PRO:HD3	2.98	0.41
44:L7:236:ILE:O	44:L7:240:VAL:HG23	2.95	0.41
36:1:2761:G:C4	36:1:2795:U:C5	3.08	0.41
40:L3:294:GLY:H	40:L3:304:THR:HA	1.86	0.41
36:5:2816:G:C8	36:5:2869:U:H3'	2.56	0.41
55:M9:150:GLN:OE1	55:M9:153:LYS:HD2	7.01	0.41
70:O4:20:ILE:HG21	70:O4:20:ILE:HD13	4.45	0.41
36:1:2119:A:H8	36:1:2119:A:O5'	2.04	0.41
44:L7:106:LEU:HD23	44:L7:106:LEU:HA	1.78	0.41
36:1:3306:U:O4'	36:1:3306:U:O2	2.38	0.41
28:D6:64:LEU:HD22	28:D6:64:LEU:HA	1.87	0.41
36:5:2962:U:O5'	36:5:2962:U:H6	2.03	0.41
36:1:2771:U:H2'	36:1:2772:C:O2	2.21	0.41
36:5:316:U:H4'	36:5:317:A:H5'	2.01	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:103:PHE:CE1	34:SR:138:GLY:HA2	2.56	0.41
38:4:140:G:H2'	38:4:141:C:O4'	2.20	0.41
75:O9:9:ILE:HD12	75:O9:9:ILE:HG23	1.80	0.41
2:S0:122:ILE:HG23	2:S0:144:ILE:HB	2.81	0.41
3:S1:189:ILE:HB	3:S1:190:PRO:HD3	2.03	0.41
9:S7:168:SER:O	9:S7:171:ALA:N	2.54	0.41
1:2:400:A:C4	10:S8:26:LYS:HB2	2.55	0.41
57:N1:127:GLN:HG2	36:5:1095:U:N3	259.95	0.41
48:M1:171:VAL:O	48:M1:172:LEU:HB2	2.20	0.41
48:M1:172:LEU:HG	48:M1:172:LEU:H	3.52	0.41
3:S1:61:LEU:O	3:S1:63:GLY:N	2.54	0.41
47:M0:99:ILE:CG2	47:M0:123:HIS:HB2	2.50	0.41
59:N3:13:ILE:HG13	59:N3:14:SER:N	4.22	0.41
8:S6:215:ARG:HD3	8:S6:215:ARG:HA	1.91	0.41
1:2:1202:A:H2'	1:2:1203:A:H5''	2.02	0.41
46:L9:91:ARG:HD2	46:L9:91:ARG:HA	2.36	0.41
37:3:7:G:H5''	42:L5:22:ARG:HD3	2.03	0.41
1:6:119:A:H1'	1:6:397:A:C4	2.56	0.41
2:S0:182:LEU:CB	2:S0:188:LEU:HD23	2.48	0.41
20:C8:90:ASN:O	20:C8:91:ASP:C	2.58	0.41
44:L7:217:PRO:HA	88:5:4005:OHX:N5	263.24	0.41
72:O6:60:LEU:HD21	72:O6:68:ARG:HE	1.86	0.41
72:O6:68:ARG:O	72:O6:72:VAL:HG23	4.89	0.41
20:C8:146:ALA:CB	35:SM:68:ARG:HH21	2.34	0.41
44:L7:223:PHE:HA	44:L7:227:GLY:HA2	4.63	0.41
6:S4:11:ARG:HB2	6:S4:27:TYR:O	2.21	0.41
1:2:1533:C:H4'	1:2:1539:G:H1	1.85	0.41
74:O8:12:LEU:HD21	74:O8:65:LEU:HD21	2.50	0.41
36:5:3165:A:H61	36:5:3285:C:N4	2.19	0.41
1:2:799:A:H5''	6:S4:201:HIS:NE2	2.35	0.41
26:D4:35:VAL:O	26:D4:36:SER:HB3	2.21	0.41
1:6:72:A:H2'	1:6:73:U:C1'	2.51	0.41
1:2:926:A:H2'	1:2:927:C:C6	2.55	0.41
16:C4:19:ILE:HA	16:C4:27:PHE:O	2.44	0.41
36:1:1591:G:O2'	36:1:1799:A:N1	2.51	0.41
45:L8:57:ARG:O	45:L8:61:GLN:HG3	2.58	0.41
1:2:367:A:C6	1:2:368:U:C4	3.09	0.41
36:5:703:G:O2'	36:5:787:G:H4'	2.20	0.41
70:O4:85:VAL:HA	70:O4:88:ARG:HB2	2.65	0.41
3:S1:109:LYS:O	3:S1:112:SER:OG	2.49	0.41
24:D2:86:ILE:H	24:D2:86:ILE:HG13	1.59	0.41
36:5:1656:A:H4'	36:5:1657:C:O4'	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1179:G:C6	1:6:1180:C:N3	2.88	0.41
69:O3:49:ILE:HD13	69:O3:49:ILE:HG21	3.31	0.41
51:M5:150:TRP:O	51:M5:153:ASP:HB2	2.68	0.41
36:1:955:U:H2'	36:1:956:U:C6	2.56	0.41
29:D7:44:THR:HB	29:D7:63:LEU:HD11	4.44	0.41
40:L3:251:CYS:SG	36:5:2944:U:H1'	224.56	0.41
4:S2:120:GLU:OE2	5:S3:120:TYR:OH	5.30	0.41
36:1:978:G:O2'	36:1:979:U:O2	2.27	0.41
51:M5:98:LEU:O	51:M5:101:THR:HB	2.42	0.41
1:2:1612:U:H4'	7:S5:96:SER:OG	2.21	0.41
36:5:683:U:H2'	36:5:684:G:O4'	2.20	0.41
45:L8:73:PRO:HD3	45:L8:233:TRP:CE2	2.55	0.41
36:5:2442:G:C2	36:5:2443:A:N7	2.88	0.41
1:2:387:A:H5''	1:2:389:G:OP2	2.20	0.41
23:D1:11:LEU:HD12	23:D1:11:LEU:O	2.20	0.41
36:1:668:G:H2'	36:1:669:U:H6	1.86	0.41
50:M4:8:LYS:HB3	50:M4:9:ALA:H	1.39	0.41
11:S9:73:GLY:O	11:S9:77:ILE:HG13	2.20	0.41
59:N3:94:TYR:CZ	60:N4:21:PHE:HB2	2.64	0.41
34:SR:256:THR:N	34:SR:259:GLY:O	2.70	0.41
36:1:2565:U:H2'	36:1:2566:C:C6	2.55	0.41
55:M9:23:TRP:CZ3	55:M9:25:ASP:HB2	2.55	0.41
36:1:958:C:OP1	36:1:2799:A:H3'	2.21	0.41
1:2:140:A:OP2	8:S6:187:LYS:NZ	2.38	0.41
49:M3:85:LEU:HD22	49:M3:120:GLN:OE1	2.20	0.41
36:1:852:U:O2'	36:1:853:G:H5'	2.21	0.41
36:5:3253:G:N7	88:5:4243:OHX:N1	2.68	0.41
69:O3:26:ASN:O	69:O3:84:THR:HG22	2.21	0.41
34:SR:267:PRO:HG2	34:SR:269:TYR:CE1	2.56	0.41
1:6:1240:U:H5'	1:6:1241:G:OP2	2.21	0.41
79:Q3:6:LYS:HE2	79:Q3:7:LYS:HE3	4.29	0.41
1:2:869:A:H4'	15:C3:90:TYR:CE1	2.56	0.41
1:6:1344:A:O2'	1:6:1345:A:OP1	2.33	0.41
34:SR:131:ILE:HG23	34:SR:154:VAL:HG11	2.19	0.41
1:2:1220:C:H42	1:2:1263:G:H1	1.69	0.41
39:L2:219:ILE:HG22	39:L2:221:LYS:O	2.21	0.41
36:1:3219:G:H4'	36:1:3220:G:H5'	2.03	0.41
20:C8:108:LYS:O	20:C8:111:ASP:HB2	2.63	0.41
36:1:826:G:OP1	36:1:1590:G:H4'	2.20	0.41
42:L5:286:VAL:O	42:L5:290:ILE:HG12	2.21	0.41
36:5:65:A:H4'	36:5:66:A:O5'	2.21	0.41
36:1:815:G:C2	36:1:906:A:C2	3.09	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:L7:105:LEU:HA	44:L7:105:LEU:HD23	1.67	0.41
6:S4:131:LEU:HA	6:S4:131:LEU:HD22	1.86	0.41
1:6:1329:A:H8	1:6:1329:A:O5'	2.03	0.41
64:N8:62:HIS:CG	64:N8:62:HIS:O	2.76	0.41
78:Q2:33:ALA:HA	36:5:2767:U:OP1	184.47	0.41
12:C0:51:SER:OG	1:6:1219:A:N3	430.97	0.41
64:N8:21:ARG:HD2	36:5:1369:A:H5''	185.30	0.41
36:5:1239:C:H3'	36:5:1240:A:C8	2.56	0.41
28:D6:49:ALA:O	28:D6:53:LEU:HB2	2.21	0.41
17:C5:28:MET:HE3	17:C5:28:MET:HB2	3.44	0.41
36:1:1075:A:C6	65:N9:45:HIS:CE1	3.09	0.41
78:Q2:98:LYS:HD2	36:5:2656:A:H4'	252.00	0.41
77:Q1:1:MET:HA	1:6:1783:C:OP1	313.70	0.41
1:2:989:U:H2'	1:2:990:C:C6	2.55	0.41
36:5:2406:C:H2'	36:5:2407:C:C6	2.56	0.41
36:5:420:G:OP1	36:5:420:G:OP2	2.39	0.41
1:2:66:U:O4	8:S6:134:GLY:N	2.45	0.41
46:L9:80:THR:O	46:L9:84:LYS:N	2.65	0.41
26:D4:127:LYS:O	26:D4:131:ARG:HG2	2.20	0.41
36:5:1668:G:H2'	36:5:1669:C:O4'	2.20	0.41
7:S5:57:SER:CB	30:D8:53:ILE:HB	2.63	0.41
36:1:912:G:O5'	36:1:912:G:H8	2.03	0.41
55:M9:9:ARG:NH2	36:5:1602:A:O3'	107.99	0.41
10:S8:48:THR:OG1	10:S8:52:ASN:HB3	2.35	0.41
64:N8:74:ASN:OD1	64:N8:113:LEU:HB2	2.20	0.41
34:SR:159:ASN:C	34:SR:161:LYS:H	4.17	0.41
10:S8:6:ASP:OD1	10:S8:8:ARG:N	2.54	0.41
39:L2:40:TYR:O	36:5:2550:U:H5	211.37	0.41
36:5:1757:A:H2'	36:5:1758:G:C8	2.56	0.41
1:6:74:U:H3'	1:6:75:U:H3'	2.02	0.41
34:SR:74:THR:HG21	34:SR:79:TYR:CD2	2.56	0.41
36:1:1764:U:H5''	55:M9:43:LYS:HZ3	1.86	0.41
55:M9:44:LEU:HA	55:M9:47:ASN:HB2	5.77	0.41
13:C1:21:ASN:ND2	13:C1:31:THR:HA	3.10	0.41
40:L3:275:ARG:HH11	40:L3:275:ARG:HD2	1.74	0.41
17:C5:15:HIS:CG	17:C5:16:SER:H	2.94	0.41
1:2:600:U:OP2	25:D3:108:GLY:HA2	2.21	0.41
34:SR:23:LEU:HA	34:SR:23:LEU:HD23	1.87	0.41
76:Q0:112:LYS:HD2	76:Q0:112:LYS:HA	1.83	0.41
76:Q0:112:LYS:NZ	36:5:3107:U:P	304.85	0.41
64:N8:125:VAL:HG21	64:N8:138:ILE:HD13	2.02	0.41
47:M0:178:ARG:H	47:M0:178:ARG:HG2	1.61	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:S7:102:PRO:HD3	9:S7:112:ARG:CD	3.40	0.41
1:6:1595:U:H3'	1:6:1596:C:O2	2.21	0.41
34:SR:29:GLN:O	34:SR:31:ASN:N	2.54	0.41
40:L3:252:ILE:HG23	40:L3:260:VAL:HG13	2.03	0.41
36:5:145:G:O5'	36:5:145:G:H8	2.03	0.41
36:1:2802:A:C8	78:Q2:56:PRO:HA	2.55	0.41
58:N2:95:PHE:HA	58:N2:105:LEU:HD12	2.25	0.41
36:5:2294:U:O2	36:5:2296:A:C8	2.74	0.41
88:1:3982:OHX:N6	88:1:4170:OHX:N2	2.69	0.41
36:5:3302:U:C2	36:5:3313:U:C2	3.09	0.41
36:5:2396:G:OP1	36:5:2397:A:H4'	2.21	0.41
19:C7:2:GLY:N	1:6:1312:A:N7	394.62	0.41
1:2:1390:U:O2	1:2:1412:G:H1'	2.20	0.41
75:O9:14:ALA:O	75:O9:16:ALA:N	2.54	0.41
1:2:113:U:O3'	1:2:114:C:H3'	2.20	0.41
39:L2:171:GLY:O	79:Q3:68:ALA:HB2	2.20	0.41
36:5:2115:G:H22	36:5:2120:A:H1'	1.85	0.41
36:5:2584:G:H3'	36:5:2585:G:H4'	2.02	0.41
1:2:1059:U:O2'	1:2:1060:U:N3	2.54	0.41
1:6:398:G:O5'	1:6:398:G:H8	2.03	0.41
36:5:2885:C:C2'	36:5:2886:U:H5'	2.50	0.41
40:L3:74:GLU:OE2	40:L3:325:LYS:HE3	2.20	0.41
34:SR:183:LEU:HD12	34:SR:186:PHE:CD1	6.27	0.41
34:SR:32:LEU:HD21	34:SR:94:VAL:HG11	2.02	0.41
28:D6:96:ALA:HA	28:D6:97:PRO:HD3	1.72	0.41
5:S3:136:VAL:HB	5:S3:152:PHE:HB2	2.02	0.41
49:M3:68:LYS:HE3	36:5:699:A:OP1	98.56	0.41
51:M5:69:GLY:O	36:5:290:G:H4'	145.84	0.41
36:1:2784:G:H2'	36:1:2785:A:O4'	2.21	0.41
6:S4:9:LEU:HD12	6:S4:30:ARG:HA	2.54	0.41
6:S4:30:ARG:HA	6:S4:31:PRO:HD2	2.23	0.41
52:M6:108:ILE:HA	52:M6:109:PRO:HD2	2.08	0.41
52:M6:108:ILE:HG23	52:M6:160:ARG:NH1	6.06	0.41
37:3:121:U:OP2	42:L5:265:TYR:OH	2.13	0.41
1:2:1482:C:O2'	18:C6:72:GLY:O	2.38	0.41
10:S8:76:THR:HB	10:S8:105:ASP:HB2	2.03	0.41
10:S8:107:THR:HA	10:S8:110:ARG:HB3	2.03	0.41
71:O5:83:LYS:O	71:O5:89:ARG:NE	2.54	0.41
14:C2:68:GLU:O	14:C2:70:ASN:N	2.54	0.41
2:S0:71:GLU:HA	2:S0:95:ALA:N	2.35	0.41
2:S0:123:VAL:O	2:S0:145:ALA:HA	2.45	0.41
1:6:1066:C:C2'	1:6:1067:C:H5'	2.51	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:S6:70:PRO:C	8:S6:98:ARG:HH11	2.24	0.41
37:7:44:C:C2'	37:7:45:A:H5'	2.51	0.41
28:D6:34:LYS:NZ	1:6:1793:G:N7	323.04	0.41
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	2.03	0.41
7:S5:27:THR:HG22	18:C6:30:LYS:HE2	2.03	0.41
7:S5:20:PHE:CE1	7:S5:22:PRO:HA	2.87	0.41
1:2:735:C:OP2	1:2:735:C:H2'	2.20	0.41
18:C6:42:GLU:HG3	18:C6:43:ILE:HD13	4.92	0.41
15:C3:61:THR:HB	1:6:959:U:O2	351.30	0.41
36:5:1307:G:H1'	36:5:1308:A:C5	2.56	0.41
1:2:1341:A:OP1	34:SR:63:GLY:HA2	2.21	0.41
1:6:217:A:O2'	1:6:218:A:H8	2.03	0.41
36:5:242:C:H2'	36:5:243:G:H8	1.85	0.41
33:E1:103:LEU:HA	33:E1:103:LEU:HD23	1.87	0.41
63:N7:52:LYS:H	63:N7:52:LYS:HG2	1.43	0.41
36:5:409:A:H2	36:5:1441:G:N3	2.19	0.41
36:5:3309:G:H2'	36:5:3310:A:O5'	2.21	0.41
3:S1:134:VAL:O	3:S1:218:LEU:HD22	2.21	0.41
28:D6:85:ARG:HD3	28:D6:85:ARG:HA	1.90	0.41
17:C5:44:ARG:HE	1:6:1556:A:P	394.46	0.41
70:O4:59:PRO:HB3	36:5:1654:A:N3	165.38	0.41
58:N2:51:GLY:C	58:N2:52:ASN:HD22	2.18	0.41
58:N2:43:VAL:O	58:N2:44:GLU:C	2.59	0.41
1:6:1698:G:O2'	1:6:1699:G:O5'	2.34	0.41
4:S2:228:ASN:OD1	4:S2:229:LEU:N	2.54	0.41
24:D2:104:LEU:HB2	24:D2:125:ILE:HA	2.02	0.41
11:S9:39:LYS:HD3	11:S9:39:LYS:HA	2.92	0.41
20:C8:141:THR:HG21	1:6:1174:C:OP2	353.19	0.41
27:D5:39:ALA:HB1	27:D5:72:GLY:N	2.36	0.41
36:5:1024:G:N7	36:5:1027:A:N6	2.69	0.41
12:C0:65:TYR:N	12:C0:65:TYR:CD2	2.89	0.41
1:2:652:G:H1	1:2:682:C:N4	2.13	0.41
12:C0:56:LYS:N	12:C0:67:THR:O	2.57	0.41
36:1:2263:C:OP1	88:1:3997:OHX:N1	2.53	0.41
6:S4:244:ILE:HA	6:S4:244:ILE:HD12	2.88	0.41
6:S4:126:VAL:HG23	6:S4:156:VAL:HA	2.18	0.41
33:E1:146:SER:HB3	1:6:1235:C:H5'	433.99	0.41
9:S7:31:SER:O	9:S7:35:LYS:HB3	2.38	0.41
9:S7:35:LYS:O	9:S7:37:GLU:HG2	2.21	0.41
6:S4:235:TYR:N	6:S4:235:TYR:CD2	3.18	0.41
26:D4:45:ALA:HB1	26:D4:51:GLU:H	1.85	0.41
36:5:1560:G:O2'	36:5:1561:G:P	2.79	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
72:O6:74:LYS:HA	72:O6:83:ALA:HB2	2.16	0.41
48:M1:131:MET:HB3	48:M1:131:MET:HE3	1.97	0.41
41:L4:209:TYR:OH	36:5:689:U:O4	86.89	0.41
20:C8:110:ARG:O	20:C8:114:GLU:HB2	2.55	0.41
36:5:1813:A:OP1	36:5:1817:G:H4'	2.21	0.41
11:S9:31:ALA:HA	11:S9:36:LEU:CD1	2.50	0.41
46:L9:92:TYR:OH	46:L9:101:VAL:HB	2.21	0.41
45:L8:186:LEU:HA	45:L8:186:LEU:HD23	1.79	0.41
45:L8:134:TYR:CE2	45:L8:190:VAL:HG13	5.25	0.41
19:C7:23:LYS:HB3	19:C7:34:LEU:HD11	2.02	0.41
23:D1:60:ARG:HG2	23:D1:65:SER:OG	2.21	0.41
1:6:1489:U:C4	1:6:1513:G:C6	3.09	0.41
47:M0:55:ASN:ND2	47:M0:164:LYS:HE2	2.36	0.41
36:1:1763:U:H5'	36:1:1764:U:OP2	2.20	0.41
36:1:1764:U:OP1	55:M9:43:LYS:NZ	2.46	0.41
36:1:1845:G:O2'	73:O7:5:THR:HB	2.21	0.41
26:D4:89:TYR:CE1	26:D4:93:ARG:NH1	4.77	0.41
1:6:578:U:H4'	1:6:579:A:H5'	2.03	0.41
57:N1:139:ARG:NH2	57:N1:139:ARG:CG	3.84	0.41
36:5:2542:U:O2'	36:5:2543:U:H3'	2.21	0.41
40:L3:347:SER:O	40:L3:349:LYS:N	2.51	0.41
40:L3:347:SER:HB2	40:L3:350:ALA:CB	3.01	0.41
28:D6:41:ILE:O	28:D6:42:ARG:HG2	3.08	0.41
1:6:1054:U:H2'	1:6:1055:U:C6	2.54	0.41
70:O4:91:ARG:O	70:O4:95:ILE:HG13	2.21	0.41
10:S8:194:ARG:HB3	10:S8:195:ARG:HH12	3.80	0.41
36:1:2615:G:H2'	36:1:2616:C:H6	1.84	0.41
36:1:1658:G:H2'	36:1:1659:U:H6	1.85	0.41
1:2:610:G:N3	1:2:610:G:H2'	2.35	0.41
1:2:608:U:H4'	1:2:610:G:O6	2.21	0.41
1:2:608:U:H5''	1:2:610:G:N7	2.35	0.41
2:S0:27:ARG:HA	2:S0:44:GLY:O	2.21	0.41
74:O8:36:LYS:HA	74:O8:37:PRO:HD3	2.28	0.41
41:L4:177:ASP:O	41:L4:180:LYS:HB3	2.34	0.41
41:L4:139:GLY:O	41:L4:180:LYS:HE2	6.89	0.41
36:5:1013:G:N2	36:5:1014:U:H1'	2.36	0.41
43:L6:97:ASN:O	43:L6:98:VAL:HB	2.27	0.41
36:1:65:A:C4	36:1:110:G:N7	2.88	0.41
1:6:517:U:H2'	1:6:518:A:O4'	2.20	0.41
1:2:1064:G:H2'	1:2:1065:A:C8	2.55	0.41
36:1:1543:G:OP1	51:M5:35:VAL:HG23	2.20	0.41
36:1:1543:G:P	51:M5:35:VAL:HG23	2.61	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:C2:130:THR:HB	14:C2:131:ASP:H	1.68	0.41
44:L7:55:TYR:CE2	44:L7:141:TYR:CE2	3.12	0.41
41:L4:99:MET:HE1	36:5:1429:G:C5	122.85	0.41
68:O2:45:ARG:NH2	36:5:1367:G:OP1	198.20	0.41
13:C1:36:LYS:HD3	1:6:248:U:H4'	312.09	0.41
49:M3:35:ARG:NH1	36:5:685:G:OP2	84.39	0.41
5:S3:162:GLN:HG3	1:6:1333:C:C4'	427.59	0.41
43:L6:22:ARG:NH1	36:5:608:A:C4	242.32	0.41
45:L8:73:PRO:HG3	45:L8:233:TRP:CD1	2.69	0.41
1:6:1001:A:N6	1:6:1002:G:O6	2.54	0.41
48:M1:139:THR:C	48:M1:140:ARG:HD2	3.17	0.41
1:6:839:U:H2'	1:6:840:U:H6	1.83	0.41
1:6:1267:G:H2'	1:6:1268:G:H8	1.85	0.41
35:SM:99:LYS:O	35:SM:100:THR:HG22	2.21	0.41
56:N0:146:LYS:HD2	36:5:534:U:O3'	357.53	0.41
1:2:1555:A:OP2	17:C5:47:ARG:NH2	2.54	0.41
5:S3:30:ALA:C	5:S3:32:GLU:H	2.24	0.41
36:1:2705:A:OP2	88:1:3877:OHX:N1	2.54	0.41
29:D7:29:ARG:HD3	29:D7:29:ARG:HA	4.24	0.41
49:M3:131:LYS:NZ	49:M3:131:LYS:HB3	2.36	0.41
88:5:4069:OHX:N5	88:5:4147:OHX:N2	2.68	0.41
36:1:285:A:C8	36:1:285:A:C3'	3.04	0.41
36:1:285:A:H8	36:1:285:A:H3'	1.85	0.41
74:O8:61:LYS:HG2	74:O8:61:LYS:H	2.86	0.41
36:5:1880:U:H2'	36:5:1881:A:O4'	2.20	0.41
36:5:421:G:C8	36:5:2365:C:C6	3.09	0.41
36:1:681:U:C2	41:L4:115:HIS:ND1	2.89	0.41
1:6:1214:U:OP1	1:6:1246:C:H1'	2.21	0.41
49:M3:25:HIS:CD2	51:M5:200:TRP:CD2	3.97	0.41
10:S8:66:SER:HA	10:S8:73:SER:HA	2.03	0.41
10:S8:85:PRO:HA	13:C1:11:ARG:HE	1.86	0.41
36:1:2822:U:H2'	36:1:2823:G:O4'	2.21	0.41
51:M5:204:LYS:O	88:5:3982:OHX:N4	124.28	0.41
53:M7:10:ASN:OD1	53:M7:12:ALA:HB3	2.20	0.41
1:2:707:A:H2'	1:2:708:C:H5''	2.03	0.41
36:1:1720:U:OP2	55:M9:120:TYR:OH	2.22	0.41
56:N0:152:LEU:HD23	56:N0:152:LEU:HA	2.43	0.41
36:5:1538:G:O5'	36:5:1538:G:H8	2.03	0.41
45:L8:33:ASN:O	45:L8:39:ALA:HB3	2.21	0.41
36:5:1887:A:OP1	88:5:4118:OHX:N6	2.54	0.41
36:5:887:G:H2'	36:5:888:A:O4'	2.21	0.41
70:O4:65:VAL:CG1	70:O4:69:HIS:HB2	2.59	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:722:G:O6	88:1:4027:OHX:N6	2.53	0.41
56:N0:119:ARG:NH1	37:7:87:G:O2'	278.74	0.41
1:6:99:C:H1'	1:6:100:A:N7	2.36	0.41
25:D3:98:GLU:O	25:D3:99:ASN:HB2	2.20	0.41
1:6:1738:U:H2'	1:6:1739:C:C6	2.56	0.41
36:5:2876:C:H2'	36:5:2877:G:O4'	2.21	0.41
60:N4:45:ASN:HA	60:N4:46:PRO:HD3	1.81	0.41
50:M4:102:LYS:HB2	50:M4:102:LYS:HE3	1.79	0.41
79:Q3:29:LEU:HA	79:Q3:29:LEU:HD23	1.81	0.41
25:D3:66:SER:O	25:D3:66:SER:OG	3.34	0.41
36:1:1501:U:H6	36:1:1501:U:O5'	2.02	0.41
11:S9:60:LEU:HA	11:S9:60:LEU:HD23	3.29	0.41
36:1:14:U:H1'	61:N5:42:ARG:HD2	2.02	0.41
59:N3:28:ASN:ND2	59:N3:112:SER:OG	2.40	0.41
20:C8:70:VAL:O	20:C8:74:GLN:HG2	2.73	0.41
36:1:1750:A:H4'	36:1:1751:G:H5'	2.03	0.41
54:M8:55:SER:CB	36:5:671:U:H5''	161.55	0.41
18:C6:52:LEU:HA	18:C6:60:PHE:CE1	3.05	0.41
42:L5:259:LYS:O	42:L5:260:PHE:HB2	2.21	0.41
5:S3:7:LYS:HZ2	22:D0:27:THR:HG21	1.85	0.41
10:S8:58:LEU:O	10:S8:59:ARG:HB2	2.20	0.41
11:S9:133:HIS:NE2	1:6:513:U:OP1	447.06	0.41
1:6:765:G:N3	1:6:765:G:C2'	2.84	0.41
3:S1:207:LEU:HB3	3:S1:210:ILE:HD11	2.03	0.41
3:S1:131:ASP:CG	3:S1:180:THR:HB	5.45	0.41
9:S7:49:ILE:HD12	9:S7:172:VAL:HA	2.53	0.41
2:S0:59:LEU:HA	2:S0:59:LEU:HD12	1.68	0.41
36:1:2853:A:O3'	47:M0:64:ALA:HB2	2.21	0.41
41:L4:206:LEU:HB2	41:L4:246:ARG:CZ	2.51	0.41
1:2:795:U:C5	1:2:796:A:C8	3.08	0.41
13:C1:46:LYS:HE2	1:6:846:G:H21	312.01	0.41
36:1:1334:U:H2'	36:1:1335:C:C6	2.56	0.41
25:D3:6:PRO:HG2	25:D3:15:LEU:HD21	2.03	0.41
2:S0:41:ARG:HH21	19:C7:103:ASP:CB	3.11	0.41
36:5:1066:G:C6	36:5:1067:U:C4	3.09	0.41
27:D5:38:HIS:HA	27:D5:70:LYS:HG2	9.10	0.41
49:M3:57:VAL:HG12	49:M3:58:VAL:H	2.06	0.41
30:D8:38:ARG:NH1	30:D8:40:ILE:HD11	2.36	0.41
1:6:189:C:O2'	1:6:190:C:H5'	2.20	0.41
56:N0:23:LYS:O	57:N1:146:ASN:ND2	2.37	0.41
62:N6:112:ASP:HB2	62:N6:115:ARG:HB2	2.03	0.41
12:C0:56:LYS:HG3	12:C0:67:THR:HB	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:778:G:H1	26:D4:10:ARG:CZ	2.34	0.41
33:E1:135:HIS:HB2	33:E1:138:ARG:CB	2.51	0.41
36:5:3164:C:H1'	36:5:3165:A:H5'	2.03	0.41
36:1:1077:U:O3'	42:L5:43:LYS:HD3	2.21	0.41
2:S0:57:LEU:HG	2:S0:160:ILE:HD13	2.03	0.41
36:1:1752:A:H2'	36:1:1753:G:O4'	2.21	0.41
62:N6:48:LEU:HD23	62:N6:48:LEU:HA	1.92	0.41
35:SM:61:ILE:HD12	35:SM:62:ARG:N	2.36	0.41
54:M8:93:ILE:HG23	36:5:784:A:C6	151.15	0.41
1:2:224:C:C2	1:2:838:G:C2	3.09	0.41
23:D1:17:CYS:SG	23:D1:56:SER:HB3	2.90	0.41
41:L4:91:GLY:HA3	41:L4:93:MET:CE	2.51	0.41
55:M9:35:ALA:O	55:M9:37:SER:N	3.82	0.41
61:N5:82:LEU:HD11	61:N5:135:ILE:HG21	2.02	0.41
3:S1:163:ALA:O	3:S1:167:VAL:HG23	3.56	0.41
36:5:3160:U:H2'	36:5:3161:C:C6	2.56	0.41
38:4:104:A:H3'	38:4:105:A:C5'	2.51	0.41
68:O2:25:TYR:HB2	68:O2:28:VAL:HG23	2.36	0.41
68:O2:29:ALA:HB1	68:O2:31:ASN:OD1	2.21	0.41
1:6:926:A:H2'	1:6:927:C:H6	1.85	0.41
63:N7:64:LYS:HD3	63:N7:64:LYS:HA	1.78	0.41
44:L7:219:LYS:HE2	44:L7:219:LYS:HB3	1.92	0.41
40:L3:303:LYS:CD	40:L3:361:THR:HG21	2.84	0.41
36:1:198:A:C6	36:1:219:A:C6	3.09	0.41
39:L2:22:LEU:HD22	36:5:1796:G:H5''	184.06	0.41
69:O3:100:ILE:N	69:O3:100:ILE:HD12	2.48	0.41
1:2:69:G:C2	1:2:70:C:C2	3.09	0.41
51:M5:179:LYS:HG2	36:5:287:G:OP1	127.97	0.41
5:S3:17:PHE:HE1	5:S3:77:PHE:CD2	3.12	0.41
36:1:352:A:N6	36:1:365:A:H5''	2.36	0.41
36:5:2631:U:H4'	36:5:2697:A:H2	1.86	0.41
20:C8:119:ILE:HA	20:C8:119:ILE:HD12	2.65	0.41
36:5:3006:A:C2	36:5:3141:A:C4	3.08	0.41
36:5:2111:G:H4'	36:5:2112:U:OP2	2.21	0.41
36:1:2316:G:C6	36:1:2317:A:C5	3.09	0.41
67:O1:11:GLU:HG2	67:O1:74:ARG:HB2	2.03	0.41
64:N8:112:ILE:HD12	64:N8:112:ILE:HG23	1.91	0.41
88:1:3982:OHX:N5	88:1:4170:OHX:N1	2.68	0.41
6:S4:5:PRO:HB2	6:S4:7:LYS:NZ	2.36	0.41
1:2:517:U:H2'	1:2:518:A:O4'	2.20	0.41
77:Q1:3:ALA:HB3	1:6:1773:C:OP1	312.52	0.41
44:L7:66:LYS:HG3	44:L7:76:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1498:A:H2'	36:5:1499:C:C6	2.56	0.41
78:Q2:99:GLN:OE1	78:Q2:102:GLN:HG3	2.70	0.41
36:1:83:U:H2'	36:1:84:U:O4'	2.20	0.41
36:1:1781:C:H2'	36:1:1782:U:C6	2.55	0.41
36:5:1354:G:C6	36:5:1358:C:H5'	2.55	0.41
5:S3:183:GLY:O	5:S3:184:ILE:HD13	2.80	0.41
36:5:643:U:O4	36:5:644:G:C6	2.74	0.41
36:1:2911:A:H4'	36:1:2912:G:C8	2.56	0.41
53:M7:173:ARG:HG3	53:M7:173:ARG:H	1.71	0.41
46:L9:174:LYS:HA	46:L9:174:LYS:HD3	3.09	0.41
4:S2:245:ASP:N	4:S2:245:ASP:OD1	2.54	0.41
55:M9:3:ASN:OD1	55:M9:3:ASN:C	2.89	0.41
3:S1:55:LYS:HD3	3:S1:55:LYS:HA	2.10	0.41
12:C0:44:LYS:HD3	12:C0:44:LYS:HA	1.88	0.41
36:5:850:U:H2'	36:5:851:C:C6	2.56	0.41
1:6:1029:U:O2'	1:6:1030:A:H5'	2.21	0.41
36:5:3385:U:H2'	36:5:3386:G:O4'	2.21	0.41
40:L3:188:ILE:O	40:L3:191:LYS:HB2	2.21	0.40
40:L3:299:ASP:O	40:L3:300:ARG:HB2	2.22	0.40
39:L2:188:LYS:HD3	39:L2:192:LYS:HE3	4.89	0.40
15:C3:117:LEU:HD23	15:C3:117:LEU:HA	2.37	0.40
16:C4:102:LEU:HA	16:C4:102:LEU:HD22	1.78	0.40
36:1:662:U:H2'	36:1:663:C:C6	2.56	0.40
17:C5:14:THR:CB	17:C5:22:LEU:HB2	2.49	0.40
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.36	0.40
40:L3:305:ILE:H	40:L3:305:ILE:HG13	1.55	0.40
36:1:1941:C:O2'	36:1:3344:A:N6	2.50	0.40
70:O4:103:LYS:O	70:O4:107:GLU:HB2	2.21	0.40
5:S3:175:VAL:HG13	5:S3:182:LEU:CD1	2.45	0.40
1:6:901:G:C2	1:6:902:G:O6	2.75	0.40
15:C3:132:VAL:HG23	15:C3:134:VAL:CG1	2.51	0.40
7:S5:90:ILE:HG23	7:S5:90:ILE:HD12	2.00	0.40
9:S7:9:LEU:HB3	9:S7:10:SER:H	3.34	0.40
38:8:1:A:C2	38:8:2:A:C4	3.09	0.40
36:5:1456:A:H4'	36:5:1457:U:O5'	2.20	0.40
36:5:75:G:O6	36:5:76:G:N1	2.54	0.40
9:S7:170:GLN:HA	9:S7:181:ILE:CG2	2.51	0.40
1:2:1472:C:H4'	1:2:1473:U:H5'	2.02	0.40
47:M0:216:TYR:CD2	47:M0:217:PHE:N	2.89	0.40
13:C1:86:ILE:HD11	13:C1:125:VAL:HG11	3.45	0.40
36:1:436:A:H2'	36:1:437:G:O4'	2.22	0.40
23:D1:9:VAL:HG13	23:D1:10:GLU:N	2.59	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:C8:133:VAL:CG1	1:6:1545:A:H5''	352.44	0.40
44:L7:221:LYS:HB3	44:L7:227:GLY:HA3	2.03	0.40
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.56	0.40
36:1:743:C:O2	54:M8:141:ARG:HD3	2.22	0.40
7:S5:113:ILE:HG21	7:S5:190:ILE:HB	5.12	0.40
6:S4:121:TYR:HA	6:S4:163:ASP:O	3.59	0.40
63:N7:70:PRO:HD3	63:N7:115:LYS:HG3	2.03	0.40
1:6:469:C:H2'	1:6:470:A:H5''	2.03	0.40
20:C8:122:HIS:CD2	1:6:1558:U:C5	361.89	0.40
13:C1:28:SER:OG	13:C1:28:SER:O	2.34	0.40
36:1:1841:A:H2	75:O9:45:ARG:HH12	1.67	0.40
33:E1:121:CYS:HB2	33:E1:132:LEU:HD21	2.38	0.40
11:S9:29:LYS:HA	32:E0:40:TYR:CE2	2.55	0.40
1:6:1673:G:C6	1:6:1674:C:C4	3.09	0.40
62:N6:103:LYS:NZ	36:5:221:A:N6	79.53	0.40
49:M3:17:HIS:O	49:M3:20:GLU:HB2	2.21	0.40
17:C5:81:ARG:HH12	17:C5:120:SER:HB3	1.85	0.40
25:D3:112:LYS:HD3	25:D3:112:LYS:HA	1.97	0.40
18:C6:13:LYS:HD3	18:C6:14:LYS:N	2.35	0.40
40:L3:205:VAL:C	40:L3:207:SER:H	2.35	0.40
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.52	0.40
36:5:3279:A:C2'	36:5:3280:U:H5'	2.51	0.40
74:O8:70:PRO:HA	74:O8:71:PRO:HD3	1.85	0.40
17:C5:53:PRO:O	17:C5:56:PHE:HB3	2.20	0.40
34:SR:71:CYS:HB3	34:SR:72:THR:H	1.35	0.40
34:SR:144:LEU:HD13	34:SR:144:LEU:HA	1.78	0.40
36:1:1404:G:C6	36:1:1408:G:C6	3.09	0.40
38:4:70:G:H8	38:4:70:G:OP2	2.03	0.40
70:O4:47:CYS:HB3	70:O4:84:CYS:SG	2.60	0.40
36:1:2585:G:N3	38:4:151:C:H5	2.19	0.40
36:5:1338:C:H2'	36:5:1339:C:H6	1.85	0.40
36:5:2726:C:O5'	36:5:2726:C:O2	2.38	0.40
1:2:739:G:O6	88:2:2097:OHX:N4	2.55	0.40
1:2:1:U:C4	11:S9:54:ARG:HG3	2.56	0.40
36:5:2950:G:C5	36:5:2979:U:C4	3.09	0.40
36:1:1734:G:N7	88:1:3924:OHX:N5	2.69	0.40
36:1:745:C:H5''	54:M8:145:ASN:ND2	2.36	0.40
56:N0:45:LEU:HD12	56:N0:51:VAL:HG21	2.02	0.40
36:5:2585:G:N3	36:5:2585:G:H2'	2.35	0.40
1:6:780:A:H3'	1:6:781:U:H5'	2.02	0.40
36:5:2194:G:H1'	36:5:2274:U:C2	2.56	0.40
53:M7:75:GLU:OE2	36:5:3392:U:O2'	168.86	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:71:A:C2	36:5:313:A:H1'	2.56	0.40
1:2:1403:C:H2'	1:2:1404:C:C6	2.56	0.40
54:M8:83:VAL:O	54:M8:85:GLY:N	2.79	0.40
42:L5:182:GLY:HA2	42:L5:194:LEU:HD13	2.03	0.40
26:D4:84:LYS:HD2	26:D4:85:PHE:CE2	2.55	0.40
41:L4:104:LYS:HD2	41:L4:106:TRP:CZ2	2.56	0.40
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	2.03	0.40
55:M9:149:ALA:O	55:M9:152:GLU:HB3	2.22	0.40
7:S5:66:GLN:CD	7:S5:66:GLN:H	2.25	0.40
52:M6:106:GLU:H	52:M6:106:GLU:HG2	1.56	0.40
36:5:1121:U:C4	36:5:1122:U:C4	3.09	0.40
36:1:281:G:C6	36:1:282:G:C6	3.08	0.40
1:6:61:A:C6	1:6:62:A:C6	3.10	0.40
36:1:2301:U:H2'	36:1:2302:G:H8	1.86	0.40
1:2:906:A:C6	1:2:907:A:C6	3.09	0.40
36:1:1299:U:H2'	36:1:1300:G:O4'	2.21	0.40
40:L3:49:TYR:O	40:L3:80:ASP:N	2.75	0.40
31:D9:14:TYR:CD2	1:6:1597:A:C8	404.28	0.40
1:6:486:G:N7	1:6:488:G:C2	2.89	0.40
22:D0:25:THR:CG2	22:D0:88:LYS:HD3	2.51	0.40
1:2:633:U:O2'	1:2:1102:G:H4'	2.21	0.40
36:1:1939:G:C6	36:1:1940:G:C5	3.09	0.40
66:O0:100:ILE:H	66:O0:100:ILE:HG13	1.48	0.40
9:S7:51:VAL:HG11	9:S7:168:SER:OG	2.21	0.40
28:D6:8:ASN:OD1	28:D6:8:ASN:N	4.18	0.40
36:1:2853:A:H5'	47:M0:3:ARG:NH2	2.37	0.40
15:C3:65:VAL:C	15:C3:67:THR:H	3.40	0.40
3:S1:41:ARG:HH22	3:S1:232:HIS:HB3	1.87	0.40
41:L4:44:LYS:HB3	41:L4:47:ARG:HH11	1.86	0.40
24:D2:26:LEU:HD21	24:D2:60:LYS:HB3	2.02	0.40
42:L5:152:ARG:CG	42:L5:152:ARG:NH1	3.06	0.40
9:S7:13:PRO:HB3	9:S7:14:THR:HB	2.02	0.40
1:2:187:G:H4'	1:2:188:A:OP1	2.21	0.40
25:D3:11:SER:O	25:D3:14:LYS:N	2.54	0.40
36:1:2941:A:N7	40:L3:255:TRP:CE2	2.89	0.40
36:1:1949:G:H2'	36:1:1950:U:C6	2.56	0.40
17:C5:68:PRO:O	88:C5:201:OHX:N1	6.50	0.40
58:N2:58:GLU:HB2	58:N2:63:VAL:HG13	5.05	0.40
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.36	0.40
19:C7:20:TYR:CD2	19:C7:38:ILE:HD11	2.56	0.40
37:7:76:A:H61	37:7:102:A:H5'	1.85	0.40
36:5:2573:G:O6	88:5:4199:OHX:N6	2.54	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:202:LEU:HA	34:SR:212:ALA:O	2.21	0.40
36:1:2264:U:OP2	88:1:3997:OHX:N5	2.55	0.40
1:6:477:A:H62	1:6:539:G:N2	2.19	0.40
3:S1:30:PHE:CZ	3:S1:94:LYS:HA	2.55	0.40
1:6:394:C:H2'	1:6:395:U:O4'	2.20	0.40
1:6:714:G:H2'	1:6:715:U:O4'	2.22	0.40
77:Q1:19:LYS:O	77:Q1:22:ALA:HB3	2.63	0.40
77:Q1:25:LYS:HB2	77:Q1:25:LYS:HE3	1.67	0.40
64:N8:47:LYS:HG3	64:N8:48:TYR:N	2.64	0.40
12:C0:49:LEU:O	12:C0:54:TYR:HB2	2.21	0.40
6:S4:102:VAL:HG23	6:S4:182:TYR:CE1	2.57	0.40
11:S9:29:LYS:O	11:S9:33:GLU:HB2	2.21	0.40
36:1:39:A:N6	36:1:42:C:OP2	2.54	0.40
21:C9:30:VAL:HA	21:C9:31:PRO:HD3	2.77	0.40
46:L9:124:ARG:HD3	46:L9:164:ILE:O	2.21	0.40
88:2:2036:OHX:N2	10:S8:17:LYS:O	2.53	0.40
29:D7:36:LYS:HB3	29:D7:43:ILE:HG22	2.04	0.40
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.86	0.40
38:4:123:G:C6	38:4:131:A:N1	2.89	0.40
22:D0:67:THR:HG22	22:D0:68:ARG:N	2.36	0.40
53:M7:3:ARG:NH1	36:5:398:A:C6	132.84	0.40
49:M3:48:PRO:HB2	71:O5:117:ALA:HB2	2.03	0.40
36:1:22:G:H1'	38:4:104:A:N3	2.36	0.40
36:5:2594:C:H2'	36:5:2595:A:O4'	2.20	0.40
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.21	0.40
17:C5:49:MET:HB3	17:C5:50:THR:H	4.23	0.40
36:1:1659:U:H2'	36:1:1660:C:C6	2.56	0.40
36:1:199:A:C4	36:1:201:A:C8	3.09	0.40
1:2:755:A:O2'	1:2:756:A:P	2.79	0.40
55:M9:15:VAL:CG1	55:M9:52:LYS:HE3	5.14	0.40
36:1:551:A:HO2'	36:1:552:G:P	2.41	0.40
36:5:278:U:H2'	36:5:279:U:H6	1.85	0.40
71:O5:67:ARG:CG	71:O5:80:LEU:HD22	2.86	0.40
40:L3:132:LYS:HZ1	36:5:3292:A:H4'	207.68	0.40
47:M0:153:ARG:HG2	47:M0:156:ARG:NH2	4.12	0.40
48:M1:166:LYS:C	48:M1:168:ASP:N	3.46	0.40
40:L3:212:ASN:OD1	40:L3:354:VAL:HG13	2.22	0.40
49:M3:107:GLU:OE2	49:M3:107:GLU:N	2.55	0.40
36:1:1202:A:N6	36:1:1301:A:C4	2.89	0.40
36:5:2442:G:H22	36:5:2506:U:H3	1.68	0.40
11:S9:86:LEU:HA	11:S9:86:LEU:HD12	1.88	0.40
19:C7:95:ARG:CB	19:C7:96:SER:HA	5.06	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:M4:20:VAL:HG22	50:M4:66:THR:OG1	2.21	0.40
45:L8:203:VAL:HG11	45:L8:211:LEU:HD23	2.03	0.40
54:M8:67:ILE:HG12	54:M8:81:VAL:HG21	2.02	0.40
36:1:890:C:O2'	36:1:2324:A:N3	2.46	0.40
36:1:126:U:H2'	36:1:127:G:O4'	2.20	0.40
66:O0:11:ASN:HA	66:O0:14:LEU:HD12	2.02	0.40
51:M5:149:ASN:OD1	88:M5:303:OHX:N2	2.55	0.40
36:5:532:A:C8	36:5:555:U:C4	3.09	0.40
44:L7:239:LEU:O	44:L7:242:SER:OG	2.32	0.40
1:6:808:U:H2'	1:6:809:A:C8	2.56	0.40
66:O0:45:ALA:HB3	66:O0:48:THR:HG23	2.17	0.40
14:C2:33:ARG:O	14:C2:37:VAL:HG23	2.22	0.40
51:M5:177:GLY:HA2	36:5:68:C:O3'	111.05	0.40
35:SM:140:ASP:OD1	35:SM:140:ASP:N	2.54	0.40
41:L4:324:LEU:HG	41:L4:324:LEU:O	2.40	0.40
39:L2:109:GLU:HG2	39:L2:109:GLU:H	1.55	0.40
1:6:1486:G:C6	1:6:1522:U:H5	2.39	0.40
52:M6:46:GLU:HB3	52:M6:134:LYS:HB3	2.18	0.40
78:Q2:74:CYS:HB3	78:Q2:77:CYS:SG	2.86	0.40
1:2:916:U:H3	16:C4:41:ARG:NH2	2.12	0.40
3:S1:83:LYS:HD2	3:S1:106:THR:H	3.87	0.40
10:S8:105:ASP:OD1	10:S8:106:ALA:N	3.76	0.40
14:C2:67:THR:HB	1:6:1228:G:N7	459.20	0.40
3:S1:175:GLU:O	3:S1:187:LYS:NZ	2.51	0.40
48:M1:155:THR:OG1	48:M1:157:GLU:N	2.53	0.40
15:C3:16:ILE:HA	15:C3:17:PRO:HD3	1.98	0.40
68:O2:109:LEU:HA	68:O2:109:LEU:HD22	1.91	0.40
67:O1:90:PHE:HB3	67:O1:91:SER:H	3.93	0.40
1:2:143:G:H2'	1:2:144:U:H5''	2.01	0.40
47:M0:191:LYS:HE2	47:M0:212:GLU:CD	2.42	0.40
36:5:419:G:O3'	36:5:420:G:OP2	2.38	0.40
36:5:242:C:H2'	36:5:243:G:C8	2.56	0.40
49:M3:76:THR:HG23	49:M3:101:ARG:CZ	2.52	0.40
54:M8:133:LYS:N	54:M8:135:GLN:OE1	2.52	0.40
40:L3:3:HIS:O	40:L3:4:ARG:C	2.59	0.40
1:6:1699:G:C2'	1:6:1700:C:H5'	2.52	0.40
1:2:154:G:H5'	8:S6:108:VAL:HG21	2.04	0.40
10:S8:25:ARG:HA	10:S8:25:ARG:HD3	1.92	0.40
54:M8:141:ARG:NH1	36:5:743:C:N3	180.23	0.40
6:S4:104:ASP:OD2	6:S4:108:ARG:HB2	2.21	0.40
36:5:3288:G:C4	36:5:3289:G:C8	3.10	0.40
1:2:887:A:H1'	16:C4:122:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2180:G:P	39:L2:174:ARG:HH22	2.45	0.40
1:2:1622:G:H2'	1:2:1623:C:C6	2.56	0.40
36:5:2995:A:H5''	36:5:2996:U:OP2	2.21	0.40
69:O3:21:ARG:NH1	69:O3:21:ARG:HG3	2.37	0.40
39:L2:104:LEU:HD12	39:L2:104:LEU:HA	2.06	0.40
57:N1:87:LYS:HE3	57:N1:87:LYS:HB3	4.25	0.40
9:S7:74:GLN:HE22	9:S7:92:PHE:HB2	1.94	0.40
79:Q3:18:TYR:H	36:5:2131:A:N6	227.29	0.40
41:L4:195:ARG:O	41:L4:196:ASN:HB2	2.33	0.40
1:2:1133:A:N3	1:2:1650:U:O2'	2.47	0.40
71:O5:90:ARG:HG2	71:O5:90:ARG:H	1.76	0.40
1:2:1675:C:H1'	10:S8:32:GLN:HE22	1.84	0.40
36:1:2535:A:H3'	36:1:2536:A:C8	2.56	0.40
47:M0:193:ASP:CG	47:M0:198:LYS:HE3	2.52	0.40
32:E0:59:GLY:C	32:E0:61:SER:N	3.63	0.40
44:L7:43:ILE:O	44:L7:47:ARG:HG3	2.45	0.40
36:1:2359:C:O5'	36:1:2359:C:H6	2.04	0.40
68:O2:21:HIS:CE1	68:O2:24:ARG:HD2	2.62	0.40
40:L3:46:PHE:CD2	40:L3:205:VAL:HG13	3.16	0.40
43:L6:50:LYS:NZ	43:L6:72:ASN:O	3.24	0.40
52:M6:73:PHE:CG	52:M6:78:ARG:HG2	2.56	0.40
1:2:1322:A:H2'	1:2:1323:C:H6	1.86	0.40
70:O4:46:ASP:CG	70:O4:80:ARG:HD2	2.78	0.40
6:S4:54:TYR:CD1	26:D4:17:LEU:HD12	3.04	0.40
9:S7:64:VAL:O	9:S7:67:LEU:HB2	2.22	0.40
13:C1:70:ILE:O	13:C1:71:LEU:HD23	2.22	0.40
62:N6:104:LEU:HA	62:N6:104:LEU:HD23	2.13	0.40
36:5:2289:U:H2'	36:5:2290:C:H6	1.85	0.40
5:S3:217:ILE:HB	5:S3:218:LEU:H	2.06	0.40
1:2:1015:U:H5''	1:2:1016:C:OP2	2.22	0.40
36:5:2259:A:H2'	36:5:2260:U:O4'	2.21	0.40
15:C3:136:PRO:O	15:C3:138:ASN:N	3.60	0.40
36:5:250:U:H2'	36:5:251:G:H21	1.87	0.40
36:1:668:G:H2'	36:1:669:U:C6	2.57	0.40
54:M8:32:LEU:O	54:M8:35:PHE:HB3	2.51	0.40
71:O5:38:ARG:HD2	71:O5:41:LEU:HD13	2.03	0.40
36:1:943:U:O2	36:1:1431:G:H5''	2.22	0.40
36:1:855:U:H2'	36:1:856:G:O4'	2.21	0.40
1:2:848:C:H2'	1:2:849:C:C6	2.56	0.40
36:5:701:G:H2'	36:5:702:C:C6	2.56	0.40
34:SR:205:SER:HA	34:SR:245:PHE:CD2	2.86	0.40
11:S9:52:ILE:HG23	11:S9:76:LEU:HD11	2.89	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1167:G:H2'	1:2:1168:U:H6	1.87	0.40
36:1:324:A:H2'	36:1:325:A:C8	2.57	0.40
65:N9:40:ARG:O	65:N9:41:ARG:C	2.83	0.40
52:M6:147:TRP:CZ3	52:M6:150:GLU:HA	2.56	0.40
43:L6:7:PRO:HD2	43:L6:10:TYR:OH	3.15	0.40
1:2:532:U:O2'	26:D4:33:ALA:HB1	2.22	0.40
38:4:58:G:O6	73:O7:63:ARG:NH2	2.53	0.40
49:M3:41:THR:O	49:M3:44:ALA:HB3	2.52	0.40
36:1:1617:G:H2'	36:1:1618:G:O4'	2.21	0.40
8:S6:109:LEU:HA	8:S6:109:LEU:HD23	1.91	0.40
11:S9:105:LEU:HD12	11:S9:105:LEU:HA	2.89	0.40
27:D5:52:LYS:HB3	27:D5:52:LYS:HE2	4.56	0.40
36:1:1687:U:H1'	58:N2:75:TYR:CD2	2.56	0.40
36:5:1238:C:H2'	36:5:1239:C:O4'	2.22	0.40
39:L2:192:LYS:HB3	39:L2:193:ARG:CZ	2.51	0.40
52:M6:108:ILE:HG21	52:M6:108:ILE:HD12	2.95	0.40
19:C7:5:ARG:HB2	19:C7:10:LYS:HE2	2.03	0.40
1:2:768:C:H1'	11:S9:143:ILE:HG21	2.03	0.40
11:S9:149:ARG:H	11:S9:149:ARG:HG2	1.83	0.40
43:L6:85:ILE:HG23	69:O3:107:ILE:CG2	3.32	0.40
1:6:1228:G:H4'	1:6:1228:G:OP2	2.22	0.40
36:1:1230:G:H2'	36:1:1231:A:H8	1.86	0.40
36:1:3215:A:C5'	50:M4:121:MET:HE1	2.52	0.40
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	2.03	0.40
9:S7:89:HIS:CE1	9:S7:165:LYS:HA	3.11	0.40
34:SR:220:ILE:HD12	34:SR:263:PHE:HE2	1.85	0.40
12:C0:32:HIS:CD2	12:C0:34:GLU:O	4.58	0.40
5:S3:75:LYS:NZ	12:C0:34:GLU:OE2	2.25	0.40
47:M0:9:TYR:CD1	47:M0:97:LEU:HD13	2.56	0.40
39:L2:142:ASP:C	39:L2:143:GLU:HG3	2.42	0.40
36:1:2209:U:H6	36:1:2209:U:OP2	2.05	0.40
27:D5:43:ASP:N	27:D5:46:LYS:HD2	2.36	0.40
1:2:153:G:OP2	26:D4:131:ARG:NH1	2.38	0.40
54:M8:151:ARG:HH11	54:M8:151:ARG:HD2	1.97	0.40
7:S5:143:ARG:HA	7:S5:167:ARG:HD3	2.03	0.40
20:C8:11:PHE:HB2	20:C8:59:GLY:O	2.21	0.40
36:5:1724:U:O2	36:5:1725:C:C2	2.74	0.40
36:1:3121:U:C2	36:1:3122:A:N7	2.90	0.40
46:L9:70:THR:O	46:L9:74:LEU:HG	2.67	0.40
1:6:1173:C:H2'	1:6:1174:C:C6	2.54	0.40
36:1:2899:C:H41	46:L9:172:ILE:HD11	1.86	0.40
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.54	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:L2:201:GLY:O	39:L2:204:MET:HB2	3.24	0.40
6:S4:11:ARG:O	6:S4:12:LEU:CB	2.72	0.40
41:L4:361:HIS:ND1	41:L4:362:ASP:HB2	2.35	0.40
41:L4:361:HIS:HB3	56:N0:26:ARG:NH1	2.37	0.40
57:N1:30:TYR:OH	57:N1:94:GLU:OE2	2.58	0.40
68:O2:123:LYS:HA	68:O2:126:LEU:CD1	2.62	0.40
2:S0:84:ARG:HD2	2:S0:203:PHE:O	2.21	0.40
36:1:1080:A:P	42:L5:140:ARG:NH2	2.95	0.40
12:C0:46:LEU:O	12:C0:50:THR:N	2.46	0.40
9:S7:91:ILE:HD12	9:S7:91:ILE:HA	1.67	0.40
6:S4:159:THR:CG2	6:S4:227:VAL:HB	2.51	0.40
46:L9:118:LEU:CD1	46:L9:167:VAL:HG13	2.99	0.40
48:M1:30:LEU:CD2	48:M1:67:VAL:HG13	2.51	0.40
1:2:107:C:N4	1:2:307:G:H1	2.17	0.40
1:2:927:C:H1'	16:C4:125:SER:HB2	2.04	0.40
23:D1:56:SER:OG	23:D1:59:VAL:HG23	2.24	0.40
55:M9:40:ALA:HB2	55:M9:43:LYS:NZ	2.35	0.40
51:M5:62:TYR:O	51:M5:131:GLU:HA	2.21	0.40
55:M9:138:LEU:HD22	55:M9:142:ILE:HD11	2.03	0.40
36:1:173:G:N2	36:1:246:U:H1'	2.37	0.40
7:S5:76:ARG:HD2	18:C6:122:ARG:NE	2.70	0.40
34:SR:15:GLY:H	34:SR:45:TRP:HH2	1.69	0.40
24:D2:82:LYS:C	24:D2:84:GLY:N	2.75	0.40
1:6:1258:U:H6	1:6:1258:U:H2'	1.78	0.40
36:5:1700:G:C6	36:5:1701:C:C4	3.10	0.40
1:6:696:C:H3'	1:6:697:C:H5'	2.02	0.40
36:5:1882:G:H1	36:5:2350:C:N4	2.18	0.40
41:L4:60:THR:HG22	41:L4:61:SER:N	2.36	0.40
11:S9:182:GLU:HG3	11:S9:183:ALA:H	1.86	0.40
36:5:2278:C:C2	36:5:2307:G:C2	3.10	0.40
51:M5:8:GLU:HG3	51:M5:50:ARG:NH1	4.12	0.40
36:5:942:U:O5'	36:5:942:U:H6	2.03	0.40
18:C6:29:ILE:HA	18:C6:65:ILE:HB	2.03	0.40
43:L6:52:VAL:HG13	43:L6:65:ILE:HG23	4.49	0.40
12:C0:23:ALA:CB	12:C0:64:TYR:HB2	3.69	0.40
61:N5:92:LYS:HE2	61:N5:110:VAL:O	2.21	0.40
78:Q2:55:LYS:HA	78:Q2:56:PRO:HD3	1.96	0.40
73:O7:22:CYS:SG	73:O7:24:ARG:HG3	4.38	0.40
69:O3:8:TYR:CD2	69:O3:99:ARG:HG2	2.82	0.40
75:O9:7:PHE:HB3	38:8:113:U:H5''	108.40	0.40
88:5:4069:OHX:N3	88:5:4147:OHX:N4	2.69	0.40
36:5:2194:G:H1'	36:5:2274:U:O2	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:712:G:H2'	36:5:713:U:C6	2.57	0.40
36:1:1789:G:O6	88:1:4182:OHX:N2	2.55	0.40
37:3:98:C:OP1	56:N0:39:SER:OG	2.29	0.40
5:S3:113:LEU:HD22	5:S3:113:LEU:HA	1.79	0.40
68:O2:115:LEU:HA	68:O2:115:LEU:HD23	1.71	0.40
10:S8:77:ARG:HE	10:S8:77:ARG:HB2	1.62	0.40
42:L5:276:LYS:HB2	42:L5:276:LYS:HE3	3.74	0.40
36:5:2951:G:N3	36:5:2951:G:H2'	2.36	0.40
9:S7:161:GLN:H	9:S7:161:GLN:HG2	1.57	0.40
36:5:1845:G:C2	36:5:1851:G:C6	3.10	0.40
36:1:2124:G:C2	36:1:2330:C:C2	3.09	0.40
49:M3:133:PRO:O	49:M3:135:ALA:N	3.39	0.40
40:L3:188:ILE:HD12	40:L3:189:SER:H	1.87	0.40
1:6:1553:G:N2	1:6:1555:A:H3'	2.36	0.40
64:N8:9:ARG:HE	64:N8:9:ARG:HB3	1.83	0.40
22:D0:58:LEU:HD23	1:6:1516:A:C8	445.46	0.40
1:6:1678:A:C6	1:6:1679:G:C5	3.10	0.40
11:S9:110:GLN:OE1	11:S9:126:ARG:HG2	2.22	0.40
36:1:2656:A:OP2	78:Q2:97:LYS:HB3	2.22	0.40
3:S1:180:THR:HB	3:S1:182:ALA:HB3	2.03	0.40
7:S5:69:PHE:CD2	18:C6:50:GLU:HG2	2.57	0.40
20:C8:84:TRP:HA	20:C8:89:GLN:OE1	2.22	0.40
25:D3:69:ARG:HD2	25:D3:116:ASP:OD2	2.20	0.40
1:2:734:A:O2'	1:2:735:C:H5'	2.22	0.40
19:C7:60:ARG:CZ	19:C7:66:VAL:HG22	3.20	0.40
46:L9:173:ARG:HH11	46:L9:173:ARG:HD3	1.79	0.40
15:C3:119:GLU:HG2	15:C3:141:TYR:HE2	3.24	0.40
24:D2:95:PRO:HD3	24:D2:130:TYR:CD1	3.16	0.40
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.53	0.40
1:2:193:U:C2'	1:2:194:U:H2'	2.52	0.40
36:1:2208:A:O3'	36:1:2209:U:H6	2.04	0.40
63:N7:54:THR:HG23	63:N7:57:HIS:CE1	2.56	0.40
8:S6:173:PRO:HB2	8:S6:174:LYS:H	1.60	0.40
42:L5:33:ARG:NH2	37:7:7:G:O3'	270.64	0.40
2:S0:184:LEU:C	2:S0:186:GLY:N	2.75	0.40
36:5:911:C:O2	36:5:917:A:N1	2.54	0.40
1:6:1758:U:H1'	36:5:2255:A:N3	2.36	0.40
70:O4:37:LYS:NZ	36:5:1591:G:OP1	160.47	0.40
56:N0:12:ARG:O	56:N0:13:ARG:C	2.59	0.40
17:C5:125:PRO:HG3	20:C8:129:TRP:CH2	2.57	0.40
35:SM:70:ASN:O	35:SM:74:LYS:HD3	2.21	0.40
53:M7:26:PHE:HZ	36:5:412:G:H5'	150.91	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:M7:64:ASN:O	53:M7:67:ILE:HB	2.21	0.40
1:2:630:A:H1'	1:2:970:A:N6	2.36	0.40
36:1:2258:U:OP2	88:1:3942:OHX:N1	2.55	0.40
6:S4:222:LEU:HB3	6:S4:223:ASN:H	1.81	0.40
11:S9:168:ARG:HD2	11:S9:174:ARG:HD2	6.24	0.40
36:1:2402:A:H5''	41:L4:67:THR:OG1	2.21	0.40
70:O4:8:ARG:NH1	70:O4:8:ARG:HG2	2.35	0.40
36:1:783:A:H5''	36:1:784:A:H5'	2.02	0.40
8:S6:87:ARG:HA	8:S6:87:ARG:HD3	1.86	0.40
1:6:281:G:C2	1:6:282:C:C2	3.09	0.40
9:S7:16:LEU:HD22	9:S7:46:ILE:HG21	2.02	0.40
1:6:914:G:H8	1:6:914:G:OP2	2.05	0.40
21:C9:108:LEU:HB3	21:C9:114:VAL:HG22	6.31	0.40
1:6:1688:U:H2'	1:6:1689:A:H8	1.85	0.40
36:1:1637:A:P	63:N7:73:LYS:HZ1	2.44	0.40
61:N5:40:LEU:HB3	61:N5:41:ALA:H	4.03	0.40
18:C6:99:GLU:O	18:C6:102:LYS:N	3.00	0.40
71:O5:118:ILE:HG21	71:O5:118:ILE:HD13	1.88	0.40
74:O8:41:THR:HG21	74:O8:62:ALA:HB2	2.03	0.40
43:L6:50:LYS:HG2	43:L6:74:VAL:CG2	2.52	0.40
10:S8:117:TYR:HE1	10:S8:150:ALA:HA	3.08	0.40
46:L9:20:ILE:HD12	46:L9:45:PHE:CD1	3.86	0.40
40:L3:361:THR:HG23	40:L3:371:GLN:O	2.64	0.40
68:O2:98:HIS:CG	68:O2:99:ASN:N	2.90	0.40
41:L4:276:LEU:HA	41:L4:277:PRO:HD3	1.91	0.40
36:1:3393:U:H2'	36:1:3394:U:H6	1.84	0.40
5:S3:37:VAL:O	5:S3:38:GLU:C	2.59	0.40
12:C0:59:PHE:CZ	12:C0:62:GLN:HA	2.57	0.40
36:5:1084:A:C6	36:5:1085:A:C6	3.10	0.40
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.57	0.40
1:6:46:A:H1'	1:6:48:G:C8	2.57	0.40
21:C9:23:GLN:HG2	21:C9:55:TYR:CG	2.56	0.40
66:O0:78:GLY:HA2	66:O0:87:VAL:HG13	3.10	0.40
36:1:294:U:H5'	72:O6:76:ARG:HG3	2.03	0.40
36:1:2376:G:C6	36:1:2377:G:C6	3.10	0.40
40:L3:209:PHE:HB3	40:L3:282:ILE:CD1	2.74	0.40
36:1:265:A:H5''	36:1:266:A:OP2	2.22	0.40
21:C9:127:ASN:O	21:C9:130:ARG:HB3	2.37	0.40
36:1:1694:U:C2	36:1:1695:U:C5	3.10	0.40
48:M1:110:ILE:C	48:M1:112:LEU:H	2.24	0.40
36:1:1103:A:H2'	36:1:1103:A:N3	2.36	0.40
36:1:3095:U:H2'	36:1:3096:C:C6	2.57	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1069:C:H2'	36:5:1070:U:H6	1.86	0.40
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	2.04	0.40
36:5:2518:C:H2'	36:5:2519:A:H8	1.87	0.40
19:C7:99:VAL:CB	19:C7:118:PRO:HB2	2.52	0.40
20:C8:134:ARG:HB2	20:C8:136:GLN:OE1	3.87	0.40
16:C4:48:VAL:HG22	16:C4:49:LYS:N	2.58	0.40
48:M1:142:LYS:HE2	36:5:2664:C:OP2	282.83	0.40
2:S0:62:ARG:HE	23:D1:39:VAL:HG13	2.08	0.40
49:M3:33:VAL:HG12	49:M3:34:SER:N	2.35	0.40
36:1:3027:A:H2'	36:1:3028:G:O4'	2.21	0.40
34:SR:247:PRO:HG2	34:SR:248:ASN:OD1	2.22	0.40
48:M1:86:VAL:HG22	48:M1:111:ASP:O	2.21	0.40
1:2:344:A:C6	1:2:345:U:C4	3.09	0.40
68:O2:120:THR:HG23	68:O2:120:THR:H	1.81	0.40
78:Q2:61:LYS:H	78:Q2:61:LYS:HG2	4.14	0.40
75:O9:29:LEU:HD12	75:O9:29:LEU:HA	1.71	0.40
30:D8:29:ARG:HH11	30:D8:29:ARG:HD2	1.82	0.40
36:5:1692:U:O4	36:5:1693:C:N4	2.54	0.40
4:S2:49:LYS:HD2	4:S2:243:TYR:CE1	2.63	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S0	204/251 (81%)	143 (70%)	34 (17%)	27 (13%)	0	2
2	s0	204/251 (81%)	152 (74%)	33 (16%)	19 (9%)	1	8
3	S1	212/254 (84%)	141 (66%)	38 (18%)	33 (16%)	0	1
3	s1	214/254 (84%)	171 (80%)	30 (14%)	13 (6%)	2	19
4	S2	215/253 (85%)	173 (80%)	27 (13%)	15 (7%)	2	13
4	s2	215/253 (85%)	184 (86%)	21 (10%)	10 (5%)	4	27

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	S3	221/239 (92%)	182 (82%)	24 (11%)	15 (7%)	2	15
5	s3	221/239 (92%)	174 (79%)	31 (14%)	16 (7%)	2	13
6	S4	258/260 (99%)	206 (80%)	34 (13%)	18 (7%)	2	13
6	s4	258/260 (99%)	210 (81%)	28 (11%)	20 (8%)	1	11
7	S5	204/224 (91%)	154 (76%)	34 (17%)	16 (8%)	1	11
7	s5	204/224 (91%)	154 (76%)	35 (17%)	15 (7%)	2	12
8	S6	224/236 (95%)	197 (88%)	15 (7%)	12 (5%)	3	24
8	s6	216/236 (92%)	184 (85%)	22 (10%)	10 (5%)	4	28
9	S7	182/189 (96%)	136 (75%)	25 (14%)	21 (12%)	1	4
9	s7	184/189 (97%)	141 (77%)	28 (15%)	15 (8%)	1	10
10	S8	184/200 (92%)	148 (80%)	23 (12%)	13 (7%)	2	13
10	s8	184/200 (92%)	155 (84%)	16 (9%)	13 (7%)	2	13
11	S9	183/196 (93%)	147 (80%)	26 (14%)	10 (6%)	3	23
11	s9	183/196 (93%)	148 (81%)	28 (15%)	7 (4%)	5	34
12	C0	94/105 (90%)	68 (72%)	17 (18%)	9 (10%)	1	7
13	C1	153/155 (99%)	114 (74%)	24 (16%)	15 (10%)	1	7
13	c1	144/155 (93%)	122 (85%)	16 (11%)	6 (4%)	4	31
14	C2	122/142 (86%)	67 (55%)	34 (28%)	21 (17%)	0	1
14	c2	122/142 (86%)	67 (55%)	32 (26%)	23 (19%)	0	0
15	C3	148/150 (99%)	122 (82%)	20 (14%)	6 (4%)	4	32
15	c3	148/150 (99%)	120 (81%)	18 (12%)	10 (7%)	2	15
16	C4	125/136 (92%)	90 (72%)	19 (15%)	16 (13%)	0	3
16	c4	126/136 (93%)	96 (76%)	19 (15%)	11 (9%)	1	8
17	C5	122/141 (86%)	88 (72%)	22 (18%)	12 (10%)	1	7
17	c5	133/141 (94%)	94 (71%)	20 (15%)	19 (14%)	0	2
18	C6	139/142 (98%)	117 (84%)	11 (8%)	11 (8%)	1	11
18	c6	140/142 (99%)	120 (86%)	12 (9%)	8 (6%)	3	22
19	C7	116/136 (85%)	87 (75%)	21 (18%)	8 (7%)	2	14
19	c7	113/136 (83%)	84 (74%)	19 (17%)	10 (9%)	1	8
20	C8	143/145 (99%)	111 (78%)	20 (14%)	12 (8%)	1	9
20	c8	143/145 (99%)	115 (80%)	18 (13%)	10 (7%)	2	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
21	C9	141/143 (99%)	120 (85%)	14 (10%)	7 (5%)	3	26
21	c9	141/143 (99%)	114 (81%)	21 (15%)	6 (4%)	4	30
22	D0	105/120 (88%)	82 (78%)	19 (18%)	4 (4%)	5	34
22	d0	108/120 (90%)	87 (81%)	10 (9%)	11 (10%)	1	6
23	D1	85/87 (98%)	64 (75%)	12 (14%)	9 (11%)	1	5
23	d1	85/87 (98%)	72 (85%)	10 (12%)	3 (4%)	6	37
24	D2	127/129 (98%)	112 (88%)	12 (9%)	3 (2%)	9	51
24	d2	127/129 (98%)	112 (88%)	14 (11%)	1 (1%)	27	77
25	D3	142/144 (99%)	109 (77%)	19 (13%)	14 (10%)	1	7
25	d3	142/144 (99%)	119 (84%)	18 (13%)	5 (4%)	6	37
26	D4	132/134 (98%)	106 (80%)	18 (14%)	8 (6%)	2	19
26	d4	132/134 (98%)	106 (80%)	16 (12%)	10 (8%)	2	12
27	D5	68/107 (64%)	44 (65%)	11 (16%)	13 (19%)	0	0
27	d5	67/107 (63%)	49 (73%)	11 (16%)	7 (10%)	1	5
28	D6	95/97 (98%)	62 (65%)	19 (20%)	14 (15%)	0	2
28	d6	95/97 (98%)	67 (70%)	18 (19%)	10 (10%)	1	5
29	D7	79/81 (98%)	63 (80%)	9 (11%)	7 (9%)	1	8
29	d7	79/81 (98%)	60 (76%)	12 (15%)	7 (9%)	1	8
30	D8	61/66 (92%)	49 (80%)	6 (10%)	6 (10%)	1	7
30	d8	61/66 (92%)	43 (70%)	13 (21%)	5 (8%)	1	10
31	D9	51/55 (93%)	41 (80%)	8 (16%)	2 (4%)	5	33
31	d9	51/55 (93%)	36 (71%)	9 (18%)	6 (12%)	1	4
32	E0	58/60 (97%)	47 (81%)	10 (17%)	1 (2%)	14	62
33	E1	69/76 (91%)	38 (55%)	12 (17%)	19 (28%)	0	0
34	SR	316/318 (99%)	244 (77%)	45 (14%)	27 (8%)	1	9
34	sR	316/318 (99%)	261 (83%)	42 (13%)	13 (4%)	4	32
35	SM	155/273 (57%)	111 (72%)	27 (17%)	17 (11%)	1	5
35	sM	98/273 (36%)	57 (58%)	28 (29%)	13 (13%)	0	2
39	L2	250/253 (99%)	224 (90%)	17 (7%)	9 (4%)	5	36
39	l2	250/253 (99%)	214 (86%)	23 (9%)	13 (5%)	3	25
40	L3	384/386 (100%)	322 (84%)	45 (12%)	17 (4%)	4	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	l3	384/386 (100%)	339 (88%)	32 (8%)	13 (3%)	6	38
41	L4	359/361 (99%)	297 (83%)	34 (10%)	28 (8%)	1	11
41	l4	359/361 (99%)	299 (83%)	38 (11%)	22 (6%)	2	19
42	L5	294/296 (99%)	237 (81%)	35 (12%)	22 (8%)	2	12
42	l5	292/296 (99%)	253 (87%)	32 (11%)	7 (2%)	9	51
43	L6	152/175 (87%)	134 (88%)	12 (8%)	6 (4%)	5	33
43	l6	153/175 (87%)	130 (85%)	17 (11%)	6 (4%)	5	33
44	L7	220/243 (90%)	184 (84%)	26 (12%)	10 (4%)	4	29
44	l7	221/243 (91%)	189 (86%)	27 (12%)	5 (2%)	10	52
45	L8	231/255 (91%)	189 (82%)	31 (13%)	11 (5%)	4	27
45	l8	229/255 (90%)	188 (82%)	23 (10%)	18 (8%)	1	11
46	L9	189/191 (99%)	166 (88%)	21 (11%)	2 (1%)	21	72
46	l9	189/191 (99%)	166 (88%)	17 (9%)	6 (3%)	6	39
47	M0	207/220 (94%)	171 (83%)	28 (14%)	8 (4%)	5	33
47	m0	209/220 (95%)	172 (82%)	23 (11%)	14 (7%)	2	16
48	M1	167/173 (96%)	122 (73%)	29 (17%)	16 (10%)	1	7
48	m1	167/173 (96%)	141 (84%)	15 (9%)	11 (7%)	2	16
49	M3	191/198 (96%)	154 (81%)	26 (14%)	11 (6%)	3	21
49	m3	192/198 (97%)	150 (78%)	28 (15%)	14 (7%)	2	12
50	M4	134/137 (98%)	113 (84%)	12 (9%)	9 (7%)	2	16
50	m4	135/137 (98%)	118 (87%)	16 (12%)	1 (1%)	30	80
51	M5	201/203 (99%)	183 (91%)	14 (7%)	4 (2%)	11	56
51	m5	201/203 (99%)	181 (90%)	16 (8%)	4 (2%)	11	56
52	M6	195/198 (98%)	176 (90%)	12 (6%)	7 (4%)	5	36
52	m6	195/198 (98%)	179 (92%)	10 (5%)	6 (3%)	7	41
53	M7	181/183 (99%)	144 (80%)	27 (15%)	10 (6%)	3	23
53	m7	153/183 (84%)	132 (86%)	18 (12%)	3 (2%)	11	56
54	M8	183/185 (99%)	154 (84%)	24 (13%)	5 (3%)	8	46
54	m8	183/185 (99%)	151 (82%)	26 (14%)	6 (3%)	6	38
55	M9	186/188 (99%)	172 (92%)	13 (7%)	1 (0%)	38	85
55	m9	186/188 (99%)	167 (90%)	14 (8%)	5 (3%)	8	46

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
56	N0	170/172 (99%)	154 (91%)	13 (8%)	3 (2%)	13	60
56	n0	170/172 (99%)	160 (94%)	7 (4%)	3 (2%)	13	60
57	N1	157/159 (99%)	139 (88%)	11 (7%)	7 (4%)	4	29
57	n1	157/159 (99%)	140 (89%)	12 (8%)	5 (3%)	6	39
58	N2	98/120 (82%)	72 (74%)	15 (15%)	11 (11%)	1	4
58	n2	96/120 (80%)	78 (81%)	15 (16%)	3 (3%)	7	41
59	N3	134/136 (98%)	120 (90%)	12 (9%)	2 (2%)	15	64
59	n3	134/136 (98%)	124 (92%)	10 (8%)	0	100	100
60	N4	96/155 (62%)	78 (81%)	13 (14%)	5 (5%)	3	25
60	n4	133/155 (86%)	109 (82%)	15 (11%)	9 (7%)	2	15
61	N5	119/141 (84%)	106 (89%)	11 (9%)	2 (2%)	14	62
61	n5	118/141 (84%)	98 (83%)	11 (9%)	9 (8%)	2	12
62	N6	124/126 (98%)	104 (84%)	14 (11%)	6 (5%)	4	27
62	n6	124/126 (98%)	112 (90%)	8 (6%)	4 (3%)	6	39
63	N7	133/135 (98%)	111 (84%)	11 (8%)	11 (8%)	1	9
63	n7	133/135 (98%)	101 (76%)	21 (16%)	11 (8%)	1	9
64	N8	146/148 (99%)	121 (83%)	18 (12%)	7 (5%)	4	27
64	n8	146/148 (99%)	119 (82%)	22 (15%)	5 (3%)	6	38
65	N9	56/58 (97%)	47 (84%)	6 (11%)	3 (5%)	3	24
65	n9	56/58 (97%)	44 (79%)	7 (12%)	5 (9%)	1	8
66	O0	95/104 (91%)	76 (80%)	15 (16%)	4 (4%)	4	31
66	o0	98/104 (94%)	85 (87%)	13 (13%)	0	100	100
67	O1	107/112 (96%)	91 (85%)	8 (8%)	8 (8%)	2	12
67	o1	107/112 (96%)	85 (79%)	13 (12%)	9 (8%)	1	9
68	O2	125/129 (97%)	108 (86%)	17 (14%)	0	100	100
68	o2	125/129 (97%)	109 (87%)	9 (7%)	7 (6%)	3	23
69	O3	104/106 (98%)	92 (88%)	9 (9%)	3 (3%)	7	43
69	o3	104/106 (98%)	96 (92%)	4 (4%)	4 (4%)	5	34
70	O4	110/119 (92%)	94 (86%)	14 (13%)	2 (2%)	13	60
70	o4	110/119 (92%)	100 (91%)	9 (8%)	1 (1%)	25	76
71	O5	117/119 (98%)	99 (85%)	10 (8%)	8 (7%)	2	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
71	o5	117/119 (98%)	95 (81%)	17 (14%)	5 (4%)	4	30
72	O6	97/99 (98%)	78 (80%)	13 (13%)	6 (6%)	2	19
72	o6	97/99 (98%)	76 (78%)	15 (16%)	6 (6%)	2	19
73	O7	85/87 (98%)	74 (87%)	8 (9%)	3 (4%)	6	37
73	o7	85/87 (98%)	70 (82%)	11 (13%)	4 (5%)	4	27
74	O8	75/77 (97%)	65 (87%)	7 (9%)	3 (4%)	5	32
74	o8	75/77 (97%)	60 (80%)	12 (16%)	3 (4%)	5	32
75	O9	48/50 (96%)	40 (83%)	6 (12%)	2 (4%)	4	31
75	o9	48/50 (96%)	43 (90%)	5 (10%)	0	100	100
76	Q0	50/52 (96%)	39 (78%)	9 (18%)	2 (4%)	5	32
76	q0	50/52 (96%)	49 (98%)	0	1 (2%)	11	56
77	Q1	23/25 (92%)	19 (83%)	4 (17%)	0	100	100
77	q1	23/25 (92%)	20 (87%)	2 (9%)	1 (4%)	4	30
78	Q2	103/105 (98%)	84 (82%)	13 (13%)	6 (6%)	3	21
78	q2	103/105 (98%)	92 (89%)	9 (9%)	2 (2%)	12	59
79	Q3	89/91 (98%)	76 (85%)	10 (11%)	3 (3%)	6	38
79	q3	89/91 (98%)	81 (91%)	7 (8%)	1 (1%)	21	72
80	c0	92/105 (88%)	59 (64%)	16 (17%)	17 (18%)	0	1
81	e0	60/62 (97%)	43 (72%)	10 (17%)	7 (12%)	1	4
82	e1	74/76 (97%)	34 (46%)	21 (28%)	19 (26%)	0	0
84	p0	139/311 (45%)	116 (84%)	16 (12%)	7 (5%)	3	26
All	All	22333/24141 (92%)	18253 (82%)	2722 (12%)	1358 (6%)	2	19

All (1358) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	30	GLN
2	S0	39	ASN
2	S0	66	ALA
2	S0	111	ILE
2	S0	140	ASN
2	S0	158	VAL
2	S0	185	ARG
2	S0	187	ALA

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Mol	Chain	Res	Type
2	S0	191	ARG
3	S1	36	SER
3	S1	37	THR
3	S1	49	ASN
3	S1	63	GLY
3	S1	79	HIS
3	S1	132	ASP
3	S1	147	ALA
3	S1	148	ASN
3	S1	206	PRO
3	S1	223	PHE
3	S1	224	ASP
4	S2	78	ASP
4	S2	80	VAL
4	S2	135	SER
4	S2	148	LEU
5	S3	62	ASN
5	S3	93	ASP
5	S3	211	PRO
5	S3	220	PRO
6	S4	104	ASP
6	S4	142	HIS
6	S4	223	ASN
6	S4	227	VAL
6	S4	228	ILE
7	S5	26	ALA
7	S5	39	GLU
7	S5	43	PHE
7	S5	63	GLN
7	S5	84	LYS
7	S5	153	GLY
8	S6	54	GLY
8	S6	122	GLU
8	S6	173	PRO
8	S6	174	LYS
9	S7	31	SER
9	S7	32	PRO
9	S7	64	VAL
9	S7	85	PHE
9	S7	111	LYS
9	S7	116	ARG
9	S7	131	PHE

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Mol	Chain	Res	Type
9	S7	134	GLU
11	S9	121	SER
11	S9	134	ILE
11	S9	169	PRO
12	C0	60	SER
12	C0	81	ASN
12	C0	87	VAL
12	C0	88	PRO
13	C1	7	VAL
13	C1	75	VAL
13	C1	76	VAL
13	C1	140	VAL
14	C2	108	ARG
14	C2	126	TRP
14	C2	127	GLY
15	C3	27	LYS
16	C4	42	VAL
16	C4	50	ALA
16	C4	126	THR
17	C5	60	LEU
17	C5	125	PRO
17	C5	126	VAL
18	C6	39	VAL
18	C6	42	GLU
18	C6	58	ASP
18	C6	59	LYS
18	C6	97	VAL
18	C6	114	ARG
18	C6	115	THR
18	C6	138	PHE
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
20	C8	14	ILE
20	C8	60	GLU
20	C8	91	ASP
20	C8	92	ILE
21	C9	31	PRO
21	C9	53	TRP
21	C9	116	ILE
24	D2	83	ILE
25	D3	3	LYS

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Mol	Chain	Res	Type
25	D3	12	ALA
25	D3	92	CYS
25	D3	114	LYS
25	D3	137	LYS
27	D5	37	GLN
27	D5	39	ALA
27	D5	43	ASP
27	D5	44	GLN
27	D5	55	PRO
27	D5	56	THR
27	D5	57	TYR
27	D5	97	LYS
28	D6	36	ILE
28	D6	45	VAL
28	D6	46	GLU
28	D6	65	PRO
28	D6	82	ARG
28	D6	84	VAL
28	D6	85	ARG
29	D7	38	PRO
29	D7	62	ILE
30	D8	36	THR
30	D8	37	SER
30	D8	61	ARG
32	E0	47	VAL
33	E1	85	TYR
33	E1	103	LEU
33	E1	138	ARG
34	SR	24	ALA
34	SR	57	PRO
34	SR	58	VAL
34	SR	155	ARG
34	SR	160	GLU
34	SR	161	LYS
34	SR	201	THR
34	SR	203	THR
34	SR	318	ALA
35	SM	102	THR
35	SM	140	ASP
35	SM	166	VAL
35	SM	167	PRO
40	L3	4	ARG

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Mol	Chain	Res	Type
40	L3	5	LYS
40	L3	83	PRO
40	L3	140	ASP
40	L3	347	SER
40	L3	378	ALA
41	L4	131	VAL
41	L4	182	LEU
41	L4	268	ALA
41	L4	292	SER
41	L4	293	SER
41	L4	311	HIS
41	L4	317	PRO
41	L4	318	LEU
41	L4	338	LYS
41	L4	361	HIS
42	L5	233	ALA
42	L5	234	ASP
42	L5	258	LYS
44	L7	24	GLU
44	L7	26	VAL
45	L8	25	PRO
45	L8	36	ILE
47	M0	189	GLU
47	M0	207	GLU
48	M1	8	PRO
48	M1	9	MET
48	M1	11	ASP
48	M1	12	LEU
48	M1	28	ASP
48	M1	74	PRO
48	M1	165	GLN
49	M3	47	ALA
49	M3	129	ASN
49	M3	141	ALA
50	M4	9	ALA
50	M4	135	LEU
50	M4	136	ALA
52	M6	111	PRO
53	M7	157	VAL
54	M8	98	LYS
54	M8	99	THR
56	N0	13	ARG

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Mol	Chain	Res	Type
57	N1	36	VAL
57	N1	124	VAL
58	N2	44	GLU
58	N2	51	GLY
58	N2	60	GLY
60	N4	26	SER
60	N4	64	THR
60	N4	81	PRO
61	N5	44	PRO
63	N7	18	TYR
63	N7	125	GLY
64	N8	57	GLY
64	N8	76	ASP
67	O1	83	GLU
71	O5	96	GLU
71	O5	97	ALA
71	O5	98	SER
71	O5	119	LYS
72	O6	33	ALA
72	O6	98	ARG
73	O7	84	SER
76	Q0	78	ILE
76	Q0	79	GLU
78	Q2	100	LYS
2	s0	4	PRO
2	s0	30	GLN
2	s0	62	ARG
2	s0	95	ALA
2	s0	158	VAL
2	s0	164	ASN
2	s0	189	VAL
2	s0	203	PHE
2	s0	206	ASP
3	s1	106	THR
3	s1	147	ALA
3	s1	206	PRO
3	s1	223	PHE
4	s2	106	ASP
4	s2	238	SER
5	s3	179	GLN
5	s3	195	SER
5	s3	211	PRO

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Mol	Chain	Res	Type
5	s3	216	PRO
5	s3	217	ILE
5	s3	220	PRO
6	s4	24	SER
6	s4	95	THR
6	s4	163	ASP
6	s4	196	VAL
6	s4	242	LYS
7	s5	28	PRO
7	s5	43	PHE
7	s5	151	GLY
7	s5	184	PHE
7	s5	209	TYR
8	s6	25	ARG
8	s6	138	ALA
8	s6	173	PRO
8	s6	174	LYS
9	s7	30	SER
9	s7	64	VAL
9	s7	66	SER
9	s7	106	SER
9	s7	131	PHE
9	s7	163	ASP
9	s7	185	ILE
10	s8	101	ILE
10	s8	115	ALA
10	s8	116	HIS
10	s8	136	SER
11	s9	117	GLY
11	s9	147	MET
80	c0	2	LEU
80	c0	32	HIS
80	c0	82	LEU
80	c0	83	PRO
80	c0	88	PRO
80	c0	94	GLU
80	c0	97	PRO
13	c1	61	THR
13	c1	114	ALA
14	c2	22	VAL
15	c3	19	SER
15	c3	66	ILE

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Mol	Chain	Res	Type
15	c3	87	ASP
15	c3	137	PRO
15	c3	143	SER
16	c4	126	THR
16	c4	132	ARG
17	c5	11	VAL
17	c5	17	TYR
17	c5	50	THR
17	c5	51	SER
17	c5	68	PRO
17	c5	125	PRO
17	c5	126	VAL
17	c5	127	ARG
17	c5	131	ALA
18	c6	39	VAL
18	c6	42	GLU
19	c7	88	VAL
20	c8	91	ASP
20	c8	92	ILE
21	c9	25	GLN
21	c9	29	GLU
21	c9	34	VAL
22	d0	15	GLN
22	d0	118	VAL
23	d1	4	ASP
26	d4	30	PRO
26	d4	33	ALA
26	d4	35	VAL
26	d4	52	LYS
26	d4	121	THR
27	d5	38	HIS
27	d5	85	LYS
27	d5	104	ALA
28	d6	13	LYS
28	d6	28	LYS
28	d6	47	ALA
29	d7	38	PRO
29	d7	59	CYS
29	d7	60	SER
31	d9	6	VAL
82	e1	87	THR
82	e1	92	LYS

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Mol	Chain	Res	Type
82	e1	97	LYS
82	e1	98	VAL
82	e1	102	VAL
82	e1	103	LEU
82	e1	106	TYR
82	e1	127	GLY
34	sR	4	ASN
34	sR	96	THR
34	sR	163	ASP
34	sR	165	ASP
34	sR	250	TYR
35	sM	47	ALA
35	sM	48	ARG
35	sM	50	ASN
35	sM	60	ALA
35	sM	172	VAL
39	l2	24	GLN
40	l3	129	ALA
40	l3	140	ASP
40	l3	142	ALA
40	l3	188	ILE
40	l3	347	SER
41	l4	14	GLU
41	l4	145	ILE
41	l4	301	PRO
41	l4	302	ALA
41	l4	329	PRO
41	l4	330	TYR
41	l4	339	LEU
41	l4	342	LYS
42	l5	5	LYS
42	l5	258	LYS
42	l5	260	PHE
42	l5	269	SER
44	l7	158	LYS
45	l8	25	PRO
45	l8	39	ALA
45	l8	122	LYS
45	l8	190	VAL
45	l8	203	VAL
45	l8	223	ALA
47	m0	7	ARG

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Mol	Chain	Res	Type
47	m0	204	GLY
47	m0	219	ALA
47	m0	220	GLN
48	m1	8	PRO
48	m1	9	MET
48	m1	10	ARG
48	m1	108	GLU
48	m1	165	GLN
49	m3	47	ALA
49	m3	50	PRO
49	m3	51	LEU
49	m3	58	VAL
49	m3	150	PRO
49	m3	152	THR
51	m5	183	THR
52	m6	16	VAL
52	m6	110	PRO
53	m7	67	ILE
54	m8	99	THR
55	m9	156	ASN
55	m9	183	ALA
56	n0	2	ALA
57	n1	122	GLN
60	n4	63	ILE
60	n4	71	ARG
60	n4	76	VAL
61	n5	25	LYS
61	n5	44	PRO
61	n5	45	LYS
61	n5	55	ASN
62	n6	83	ASP
63	n7	5	LEU
63	n7	56	LYS
63	n7	125	GLY
63	n7	129	TRP
65	n9	21	ILE
65	n9	23	LYS
65	n9	39	PHE
67	o1	7	VAL
67	o1	45	GLY
67	o1	86	LYS
68	o2	4	LEU

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Mol	Chain	Res	Type
68	o2	5	PRO
68	o2	6	HIS
70	o4	79	SER
72	o6	33	ALA
72	o6	98	ARG
73	o7	84	SER
74	o8	17	ARG
74	o8	18	ALA
74	o8	19	ASP
76	q0	78	ILE
84	p0	93	LEU
84	p0	198	PRO
2	S0	5	ALA
2	S0	49	ASN
2	S0	94	GLY
2	S0	205	ARG
3	S1	51	SER
3	S1	58	SER
3	S1	78	ASP
3	S1	81	PHE
3	S1	177	GLN
3	S1	221	PRO
4	S2	81	MET
4	S2	182	PRO
5	S3	38	GLU
5	S3	40	ARG
5	S3	90	ARG
5	S3	216	PRO
6	S4	12	LEU
6	S4	17	HIS
6	S4	96	ASN
6	S4	195	ILE
6	S4	222	LEU
6	S4	245	LYS
7	S5	51	VAL
7	S5	64	VAL
7	S5	101	GLY
7	S5	127	GLN
7	S5	150	GLY
8	S6	70	PRO
8	S6	154	ARG
9	S7	73	VAL

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Mol	Chain	Res	Type
9	S7	98	ILE
9	S7	155	ASP
9	S7	159	VAL
10	S8	52	ASN
10	S8	81	VAL
10	S8	149	SER
10	S8	186	GLY
11	S9	98	ALA
11	S9	100	LYS
12	C0	35	ILE
12	C0	64	TYR
12	C0	92	ILE
13	C1	29	LYS
13	C1	55	ASP
13	C1	145	ALA
13	C1	154	ALA
14	C2	22	VAL
14	C2	55	GLY
14	C2	66	VAL
14	C2	91	VAL
14	C2	101	ALA
14	C2	119	SER
15	C3	22	ALA
15	C3	68	GLY
16	C4	39	ILE
16	C4	51	ASP
16	C4	124	ASP
17	C5	80	MET
17	C5	101	ALA
18	C6	116	LEU
19	C7	113	LEU
19	C7	115	LEU
19	C7	124	VAL
20	C8	10	SER
20	C8	61	LEU
20	C8	104	ASN
20	C8	144	ARG
21	C9	90	PRO
23	D1	4	ASP
23	D1	7	GLN
23	D1	43	GLY
24	D2	127	GLY

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Mol	Chain	Res	Type
25	D3	40	SER
25	D3	41	SER
25	D3	112	LYS
25	D3	138	GLU
26	D4	5	VAL
26	D4	34	ASN
26	D4	35	VAL
27	D5	41	ILE
28	D6	47	ALA
28	D6	86	VAL
29	D7	63	LEU
30	D8	51	ASN
31	D9	6	VAL
33	E1	83	LYS
33	E1	84	VAL
33	E1	98	VAL
33	E1	127	GLY
35	SM	64	LYS
35	SM	139	GLU
35	SM	173	GLU
39	L2	13	GLY
39	L2	47	GLN
39	L2	246	LEU
40	L3	3	HIS
40	L3	139	GLN
40	L3	262	TRP
40	L3	351	LEU
40	L3	379	PHE
40	L3	385	LYS
40	L3	386	ASP
41	L4	4	PRO
41	L4	130	ALA
41	L4	146	PRO
41	L4	190	GLY
41	L4	232	SER
41	L4	313	LEU
41	L4	339	LEU
42	L5	7	ALA
42	L5	57	ASN
42	L5	85	ARG
42	L5	228	ALA
43	L6	81	ALA

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Mol	Chain	Res	Type
44	L7	25	GLN
44	L7	51	TYR
44	L7	91	GLY
45	L8	94	PHE
45	L8	100	GLU
45	L8	196	ALA
47	M0	16	PRO
47	M0	194	GLY
48	M1	94	ARG
48	M1	117	ASP
48	M1	151	SER
48	M1	167	TYR
49	M3	76	THR
50	M4	8	LYS
50	M4	10	SER
50	M4	28	SER
50	M4	36	VAL
51	M5	184	LYS
52	M6	16	VAL
52	M6	110	PRO
52	M6	182	ASN
53	M7	110	THR
53	M7	161	ALA
55	M9	53	LYS
57	N1	121	ALA
57	N1	159	PHE
58	N2	50	LEU
58	N2	59	ASP
58	N2	91	ASP
59	N3	82	ALA
60	N4	97	LYS
61	N5	45	LYS
62	N6	52	ARG
62	N6	53	ASP
62	N6	84	LYS
63	N7	16	GLY
63	N7	17	ARG
63	N7	35	SER
63	N7	128	GLN
64	N8	66	ALA
66	O0	71	GLN
66	O0	96	GLY

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Mol	Chain	Res	Type
67	O1	6	ASP
67	O1	84	ASP
69	O3	59	VAL
72	O6	3	VAL
75	O9	44	TRP
79	Q3	58	SER
2	s0	44	GLY
2	s0	66	ALA
2	s0	111	ILE
2	s0	139	VAL
2	s0	191	ARG
3	s1	93	GLY
3	s1	161	ILE
3	s1	179	SER
4	s2	92	ALA
4	s2	163	GLY
5	s3	61	GLU
5	s3	90	ARG
5	s3	203	PRO
6	s4	12	LEU
6	s4	93	ASP
6	s4	164	LEU
6	s4	195	ILE
6	s4	202	ASP
7	s5	36	ALA
7	s5	204	GLY
8	s6	68	LEU
9	s7	67	LEU
10	s8	199	LYS
11	s9	118	LEU
80	c0	23	ALA
13	c1	144	ALA
14	c2	26	ASP
14	c2	89	ILE
14	c2	90	LYS
14	c2	101	ALA
14	c2	103	LEU
14	c2	131	ASP
15	c3	12	SER
15	c3	139	TRP
15	c3	140	LYS
16	c4	35	GLY

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Mol	Chain	Res	Type
16	c4	50	ALA
16	c4	90	ARG
16	c4	131	GLY
18	c6	40	GLU
18	c6	97	VAL
18	c6	113	ASP
19	c7	50	ILE
19	c7	51	ALA
19	c7	98	GLY
19	c7	99	VAL
19	c7	113	LEU
20	c8	61	LEU
21	c9	33	TYR
22	d0	17	GLN
22	d0	49	ASN
22	d0	51	VAL
22	d0	52	LYS
22	d0	96	PRO
23	d1	44	ARG
24	d2	68	ARG
25	d3	66	SER
26	d4	49	LYS
27	d5	103	ARG
28	d6	8	ASN
28	d6	63	ALA
29	d7	62	ILE
30	d8	61	ARG
31	d9	5	ASN
31	d9	7	TRP
81	e0	45	VAL
81	e0	51	ASN
82	e1	83	LYS
82	e1	84	VAL
82	e1	100	LEU
34	sR	28	GLY
34	sR	160	GLU
34	sR	218	GLY
39	l2	30	ARG
39	l2	142	ASP
39	l2	212	GLY
39	l2	215	ASN
40	l3	247	ARG

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Mol	Chain	Res	Type
41	l4	4	PRO
41	l4	15	ALA
41	l4	90	PHE
41	l4	143	GLU
41	l4	146	PRO
41	l4	272	VAL
41	l4	311	HIS
42	l5	178	ASN
43	l6	32	ALA
44	l7	191	VAL
45	l8	26	LEU
45	l8	209	ALA
45	l8	239	GLY
46	l9	144	ILE
46	l9	189	GLU
47	m0	25	ALA
47	m0	176	LEU
47	m0	216	TYR
47	m0	218	ALA
48	m1	114	ILE
49	m3	76	THR
49	m3	121	SER
49	m3	134	GLU
49	m3	135	ALA
50	m4	135	LEU
51	m5	184	LYS
52	m6	13	GLY
52	m6	111	PRO
52	m6	186	ALA
53	m7	54	HIS
53	m7	66	SER
54	m8	41	ASP
55	m9	155	LEU
55	m9	182	ASP
58	n2	48	GLY
58	n2	50	LEU
60	n4	64	THR
62	n6	45	ILE
62	n6	84	LYS
62	n6	125	LYS
63	n7	17	ARG
63	n7	36	HIS

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Mol	Chain	Res	Type
65	n9	24	PRO
67	o1	84	ASP
67	o1	91	SER
68	o2	27	ARG
68	o2	124	GLY
69	o3	33	GLU
69	o3	60	ARG
69	o3	88	ASN
71	o5	82	ALA
71	o5	119	LYS
73	o7	85	LYS
78	q2	17	CYS
84	p0	33	VAL
84	p0	102	SER
2	S0	27	ARG
2	S0	95	ALA
2	S0	195	TRP
2	S0	196	SER
3	S1	62	LYS
3	S1	82	ARG
3	S1	131	ASP
3	S1	158	SER
3	S1	179	SER
3	S1	218	LEU
4	S2	39	THR
5	S3	72	LEU
5	S3	217	ILE
5	S3	218	LEU
6	S4	77	ARG
6	S4	201	HIS
6	S4	205	PHE
7	S5	35	GLN
7	S5	58	LEU
8	S6	146	GLY
8	S6	152	ASP
9	S7	5	GLN
9	S7	30	SER
9	S7	36	ALA
9	S7	112	ARG
9	S7	156	SER
9	S7	186	PRO
10	S8	40	ALA

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Mol	Chain	Res	Type
10	S8	120	THR
11	S9	9	SER
11	S9	163	PRO
11	S9	164	PHE
12	C0	94	GLU
13	C1	4	GLU
13	C1	30	ARG
13	C1	113	PRO
13	C1	139	VAL
13	C1	146	ALA
13	C1	147	ALA
14	C2	21	GLU
14	C2	87	PRO
14	C2	105	LYS
14	C2	112	ALA
16	C4	18	ARG
16	C4	40	ALA
16	C4	75	GLY
16	C4	125	SER
17	C5	22	LEU
17	C5	52	LYS
17	C5	130	ARG
20	C8	7	GLU
20	C8	100	THR
21	C9	69	LYS
23	D1	64	GLU
24	D2	57	ARG
25	D3	131	SER
26	D4	6	THR
26	D4	36	SER
26	D4	97	ALA
26	D4	104	SER
27	D5	38	HIS
27	D5	70	LYS
28	D6	11	ASN
30	D8	14	LYS
30	D8	16	LEU
33	E1	87	THR
33	E1	102	VAL
33	E1	118	ARG
34	SR	13	LEU
34	SR	22	SER

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Mol	Chain	Res	Type
34	SR	50	ASP
34	SR	153	GLN
34	SR	194	GLY
34	SR	242	SER
35	SM	52	PRO
35	SM	87	THR
35	SM	174	LEU
39	L2	127	ALA
39	L2	180	LEU
39	L2	251	LYS
40	L3	155	ALA
41	L4	230	VAL
41	L4	304	GLN
42	L5	58	LYS
42	L5	110	LEU
42	L5	124	GLU
42	L5	125	VAL
42	L5	188	GLU
42	L5	259	LYS
42	L5	269	SER
43	L6	97	ASN
43	L6	150	LYS
44	L7	163	LEU
45	L8	39	ALA
47	M0	220	GLN
48	M1	73	GLY
48	M1	95	ASN
48	M1	114	ILE
48	M1	140	ARG
49	M3	130	GLY
49	M3	136	GLU
49	M3	165	SER
51	M5	81	TYR
52	M6	90	HIS
53	M7	3	ARG
53	M7	109	ALA
53	M7	164	LYS
56	N0	2	ALA
56	N0	130	GLU
58	N2	11	ILE
58	N2	20	SER
58	N2	31	ALA

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Mol	Chain	Res	Type
58	N2	52	ASN
62	N6	83	ASP
63	N7	28	PRO
63	N7	102	GLU
64	N8	47	LYS
64	N8	78	LEU
65	N9	44	LYS
67	O1	60	TRP
69	O3	40	ASP
69	O3	88	ASN
70	O4	46	ASP
71	O5	14	LYS
71	O5	27	GLU
71	O5	75	TYR
71	O5	95	PHE
72	O6	64	SER
73	O7	68	LYS
74	O8	33	LYS
75	O9	32	ASN
78	Q2	33	ALA
78	Q2	34	SER
78	Q2	78	LYS
78	Q2	94	GLY
2	s0	103	THR
3	s1	82	ARG
4	s2	107	SER
5	s3	221	SER
6	s4	3	ARG
6	s4	94	ALA
6	s4	245	LYS
7	s5	29	ILE
7	s5	39	GLU
7	s5	55	ASP
9	s7	159	VAL
10	s8	108	PRO
11	s9	65	LYS
80	c0	3	MET
80	c0	30	ALA
80	c0	31	LYS
80	c0	92	ILE
13	c1	133	LYS
14	c2	106	ILE

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Mol	Chain	Res	Type
14	c2	108	ARG
14	c2	119	SER
15	c3	48	SER
15	c3	133	ALA
17	c5	7	ALA
17	c5	9	LYS
17	c5	71	GLU
17	c5	80	MET
18	c6	116	LEU
19	c7	67	ARG
19	c7	120	SER
20	c8	94	ASP
21	c9	40	SER
22	d0	19	ILE
22	d0	55	PRO
22	d0	97	VAL
25	d3	60	GLU
25	d3	70	LYS
26	d4	58	PHE
26	d4	132	ARG
27	d5	93	SER
28	d6	59	TYR
28	d6	82	ARG
29	d7	3	LEU
29	d7	20	LYS
30	d8	57	MET
81	e0	47	VAL
81	e0	54	ARG
82	e1	90	LYS
82	e1	112	GLY
82	e1	131	PHE
34	sR	161	LYS
34	sR	297	ASP
35	sM	66	ALA
35	sM	168	GLU
39	l2	80	GLU
39	l2	127	ALA
39	l2	194	ASN
39	l2	229	ALA
39	l2	249	SER
40	l3	378	ALA
41	l4	233	LEU

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Mol	Chain	Res	Type
41	l4	338	LYS
41	l4	341	SER
43	l6	97	ASN
43	l6	98	VAL
43	l6	133	GLU
44	l7	228	SER
45	l8	69	LEU
45	l8	121	SER
45	l8	133	LYS
45	l8	237	ILE
46	l9	109	ALA
46	l9	110	LYS
47	m0	3	ARG
47	m0	196	PHE
48	m1	94	ARG
49	m3	129	ASN
51	m5	81	TYR
52	m6	4	GLU
55	m9	36	ASN
57	n1	16	GLN
57	n1	121	ALA
60	n4	83	THR
60	n4	93	ARG
60	n4	132	GLY
61	n5	40	LEU
61	n5	47	ALA
61	n5	48	SER
63	n7	134	LEU
67	o1	40	ALA
67	o1	83	GLU
69	o3	59	VAL
71	o5	61	GLN
71	o5	83	LYS
72	o6	4	LYS
73	o7	87	SER
77	q1	4	LYS
79	q3	51	ALA
2	S0	103	THR
2	S0	126	PRO
2	S0	164	ASN
2	S0	188	LEU
2	S0	194	PRO

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Mol	Chain	Res	Type
3	S1	21	VAL
3	S1	54	LEU
3	S1	55	LYS
3	S1	116	LYS
4	S2	150	GLN
5	S3	195	SER
5	S3	204	ASP
6	S4	73	ASP
6	S4	194	THR
6	S4	200	ARG
7	S5	21	THR
7	S5	54	LYS
10	S8	10	LYS
10	S8	19	ALA
10	S8	152	ILE
10	S8	153	GLU
11	S9	162	SER
14	C2	69	ALA
14	C2	106	ILE
14	C2	115	VAL
14	C2	130	THR
15	C3	19	SER
16	C4	25	ASP
16	C4	79	VAL
16	C4	114	ARG
16	C4	123	SER
17	C5	11	VAL
17	C5	51	SER
18	C6	33	GLY
20	C8	8	GLN
21	C9	28	LEU
21	C9	130	ARG
22	D0	16	GLN
22	D0	49	ASN
23	D1	10	GLU
23	D1	12	TYR
23	D1	42	GLU
25	D3	109	ARG
26	D4	51	GLU
28	D6	8	ASN
28	D6	63	ALA
28	D6	64	LEU

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Mol	Chain	Res	Type
29	D7	23	THR
29	D7	51	GLN
33	E1	94	LYS
33	E1	100	LEU
33	E1	111	GLU
34	SR	51	ASP
34	SR	114	ASP
34	SR	217	ASP
34	SR	231	MET
34	SR	237	GLN
34	SR	244	ALA
35	SM	53	ARG
39	L2	70	ARG
39	L2	130	SER
40	L3	141	GLY
41	L4	90	PHE
41	L4	140	HIS
41	L4	270	SER
42	L5	178	ASN
42	L5	185	PHE
42	L5	215	ASP
42	L5	253	PHE
45	L8	136	LEU
45	L8	138	HIS
45	L8	157	VAL
46	L9	2	LYS
48	M1	111	ASP
49	M3	140	SER
49	M3	166	ALA
50	M4	6	ILE
51	M5	145	ASP
52	M6	178	VAL
53	M7	160	ALA
54	M8	21	SER
54	M8	162	ALA
57	N1	114	ALA
59	N3	46	LEU
60	N4	76	VAL
62	N6	25	SER
63	N7	32	GLY
63	N7	103	GLN
66	O0	46	ALA

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Mol	Chain	Res	Type
67	O1	5	LYS
67	O1	7	VAL
67	O1	21	HIS
79	Q3	84	ARG
2	s0	5	ALA
2	s0	68	PRO
3	s1	22	ASP
4	s2	150	GLN
4	s2	235	LEU
5	s3	4	LEU
5	s3	79	TYR
5	s3	196	ARG
5	s3	219	ALA
6	s4	90	ILE
6	s4	168	LYS
6	s4	260	GLY
8	s6	58	LYS
8	s6	70	PRO
9	s7	13	PRO
9	s7	155	ASP
9	s7	186	PRO
10	s8	62	THR
10	s8	100	ALA
10	s8	137	LYS
10	s8	149	SER
80	c0	9	ASN
13	c1	121	ASP
14	c2	21	GLU
14	c2	87	PRO
14	c2	91	VAL
14	c2	130	THR
16	c4	37	GLU
16	c4	114	ARG
17	c5	6	ASN
17	c5	54	ALA
17	c5	100	LYS
17	c5	136	SER
18	c6	142	TYR
19	c7	15	ALA
19	c7	116	LYS
20	c8	7	GLU
20	c8	60	GLU

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Mol	Chain	Res	Type
22	d0	16	GLN
23	d1	10	GLU
25	d3	131	SER
27	d5	71	ILE
28	d6	93	LYS
31	d9	16	LYS
82	e1	79	LYS
82	e1	85	TYR
34	sR	290	VAL
35	sM	43	ASP
35	sM	46	LYS
35	sM	84	LYS
35	sM	121	LYS
35	sM	164	ASN
39	l2	56	ALA
40	l3	3	HIS
40	l3	22	ALA
40	l3	348	ARG
41	l4	190	GLY
41	l4	231	ALA
41	l4	352	ALA
42	l5	119	TYR
43	l6	10	TYR
45	l8	79	GLN
45	l8	222	PHE
45	l8	240	ASN
46	l9	2	LYS
47	m0	101	LYS
48	m1	167	TYR
49	m3	60	ALA
51	m5	76	PRO
54	m8	112	ALA
56	n0	154	HIS
58	n2	60	GLY
60	n4	77	LYS
61	n5	24	LEU
63	n7	6	LYS
64	n8	24	LYS
64	n8	56	VAL
65	n9	26	THR
71	o5	40	SER
72	o6	34	SER

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Mol	Chain	Res	Type
78	q2	33	ALA
84	p0	21	GLU
84	p0	203	ASP
2	S0	203	PHE
3	S1	207	LEU
3	S1	215	VAL
4	S2	47	ALA
4	S2	79	GLU
4	S2	106	ASP
7	S5	65	ARG
8	S6	148	SER
9	S7	13	PRO
9	S7	110	GLN
10	S8	59	ARG
10	S8	105	ASP
12	C0	54	TYR
14	C2	113	ARG
14	C2	131	ASP
15	C3	12	SER
16	C4	24	ASN
17	C5	29	SER
18	C6	40	GLU
19	C7	23	LYS
19	C7	24	LEU
22	D0	17	GLN
22	D0	21	LYS
23	D1	21	ASN
27	D5	88	ILE
29	D7	57	GLU
29	D7	75	GLU
33	E1	99	LYS
33	E1	110	ALA
33	E1	137	ASP
34	SR	98	GLU
34	SR	163	ASP
35	SM	88	ARG
35	SM	153	ASP
39	L2	143	GLU
41	L4	14	GLU
41	L4	15	ALA
41	L4	223	PRO
41	L4	233	LEU

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Mol	Chain	Res	Type
41	L4	269	SER
42	L5	260	PHE
42	L5	267	ALA
43	L6	6	ALA
43	L6	100	LYS
44	L7	159	GLN
44	L7	164	SER
44	L7	217	PRO
45	L8	156	ASP
46	L9	110	LYS
47	M0	38	LYS
50	M4	29	ALA
51	M5	94	TYR
52	M6	89	SER
54	M8	176	ARG
57	N1	127	GLN
58	N2	107	PHE
66	O0	20	SER
72	O6	21	THR
72	O6	34	SER
74	O8	70	PRO
78	Q2	17	CYS
2	s0	10	THR
2	s0	194	PRO
3	s1	160	HIS
3	s1	224	ASP
4	s2	182	PRO
4	s2	234	PRO
5	s3	43	PRO
6	s4	22	LYS
6	s4	30	ARG
6	s4	38	LEU
7	s5	100	ASN
7	s5	171	ALA
9	s7	100	PRO
9	s7	133	THR
10	s8	78	ILE
10	s8	107	THR
10	s8	159	GLN
11	s9	162	SER
80	c0	35	ILE
80	c0	49	LEU

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Mol	Chain	Res	Type
80	c0	95	ARG
13	c1	129	ARG
14	c2	25	GLU
14	c2	39	ASP
14	c2	64	SER
14	c2	82	PRO
16	c4	124	ASP
17	c5	52	LYS
17	c5	130	ARG
20	c8	14	ILE
26	d4	51	GLU
26	d4	78	SER
28	d6	5	ARG
29	d7	75	GLU
81	e0	60	PRO
81	e0	61	SER
82	e1	128	ALA
34	sR	185	GLN
39	l2	247	ARG
39	l2	251	LYS
40	l3	386	ASP
41	l4	328	ASN
44	l7	196	LYS
45	l8	102	ALA
45	l8	196	ALA
46	l9	167	VAL
48	m1	115	LYS
49	m3	13	HIS
49	m3	93	ILE
63	n7	18	TYR
64	n8	76	ASP
64	n8	129	PHE
67	o1	47	ASP
68	o2	17	PHE
2	S0	7	PHE
2	S0	35	PRO
3	S1	23	PRO
3	S1	210	ILE
3	S1	226	GLY
4	S2	235	LEU
4	S2	236	PRO
5	S3	36	GLY

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Mol	Chain	Res	Type
6	S4	164	LEU
11	S9	149	ARG
13	C1	95	PRO
15	C3	3	ARG
17	C5	127	ARG
25	D3	78	LYS
25	D3	89	ASN
31	D9	8	PHE
33	E1	128	ALA
33	E1	144	CYS
34	SR	30	PRO
35	SM	12	VAL
35	SM	67	GLY
35	SM	111	GLY
35	SM	172	VAL
40	L3	188	ILE
41	L4	183	LYS
42	L5	137	ASP
42	L5	212	ALA
44	L7	178	ILE
47	M0	145	LYS
49	M3	127	PRO
49	M3	192	GLU
64	N8	56	VAL
64	N8	97	GLU
65	N9	45	HIS
70	O4	74	ARG
73	O7	86	ALA
74	O8	37	PRO
79	Q3	7	LYS
3	s1	207	LEU
7	s5	152	GLY
11	s9	134	ILE
14	c2	40	GLY
14	c2	45	LEU
30	d8	62	GLU
31	d9	11	PRO
81	e0	38	LEU
82	e1	148	TYR
35	sM	59	GLY
40	l3	239	PRO
42	l5	125	VAL

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Mol	Chain	Res	Type
43	l6	93	VAL
47	m0	47	PRO
48	m1	153	LYS
54	m8	108	ALA
57	n1	136	ARG
60	n4	72	SER
64	n8	68	PHE
67	o1	41	LYS
72	o6	22	PRO
73	o7	67	LEU
4	S2	36	VAL
8	S6	69	LEU
8	S6	162	VAL
8	S6	165	GLY
27	D5	71	ILE
34	SR	113	VAL
34	SR	146	GLY
34	SR	271	VAL
47	M0	149	VAL
53	M7	51	VAL
53	M7	143	PRO
65	N9	21	ILE
6	s4	150	PRO
80	c0	73	VAL
14	c2	63	VAL
14	c2	66	VAL
44	l7	178	ILE
48	m1	117	ASP
61	n5	62	VAL
63	n7	70	PRO
3	S1	176	VAL
5	S3	37	VAL
43	L6	98	VAL
8	s6	165	GLY
11	s9	168	ARG
16	c4	79	VAL
20	c8	29	VAL
31	d9	17	GLY
40	l3	141	GLY
63	n7	103	GLN
2	S0	139	VAL
10	S8	107	THR

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Mol	Chain	Res	Type
14	C2	37	VAL
23	D1	46	ILE
33	E1	112	GLY
40	L3	317	ILE
53	M7	182	ILE
57	N1	123	GLY
63	N7	36	HIS
8	s6	69	LEU
8	s6	157	VAL
18	c6	4	VAL
20	c8	135	GLY
21	c9	100	ILE
25	d3	119	GLY
28	d6	58	VAL
30	d8	20	GLY
54	m8	84	VAL
68	o2	122	PRO
72	o6	9	ILE
4	S2	145	GLY
9	S7	132	PRO
25	D3	143	PRO
28	D6	75	VAL
45	L8	190	VAL
62	N6	92	GLY
67	O1	67	VAL
5	s3	163	PRO
7	s5	101	GLY
9	s7	12	ALA
14	c2	115	VAL
27	d5	55	PRO
47	m0	5	PRO
47	m0	214	PRO
54	m8	97	PRO
56	n0	129	ILE
84	p0	77	LEU
14	C2	102	GLY
16	C4	122	PRO
20	C8	82	PRO
3	s1	35	PRO
4	s2	149	GLY
7	s5	153	GLY
16	c4	76	ILE

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Mol	Chain	Res	Type
20	c8	28	ILE
30	d8	6	PRO
82	e1	124	PRO
34	sR	167	VAL
57	n1	148	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S0	164/209 (78%)	136 (83%)	28 (17%)	3	14
2	s0	165/209 (79%)	127 (77%)	38 (23%)	1	5
3	S1	191/223 (86%)	151 (79%)	40 (21%)	1	8
3	s1	192/223 (86%)	153 (80%)	39 (20%)	2	9
4	S2	176/204 (86%)	130 (74%)	46 (26%)	1	2
4	s2	176/204 (86%)	129 (73%)	47 (27%)	1	2
5	S3	182/194 (94%)	143 (79%)	39 (21%)	1	7
5	s3	182/194 (94%)	143 (79%)	39 (21%)	1	7
6	S4	221/221 (100%)	178 (80%)	43 (20%)	2	10
6	s4	221/221 (100%)	184 (83%)	37 (17%)	3	14
7	S5	173/190 (91%)	145 (84%)	28 (16%)	3	15
7	s5	173/190 (91%)	133 (77%)	40 (23%)	1	5
8	S6	188/201 (94%)	151 (80%)	37 (20%)	2	10
8	s6	187/201 (93%)	150 (80%)	37 (20%)	2	9
9	S7	165/169 (98%)	136 (82%)	29 (18%)	3	13
9	s7	165/169 (98%)	134 (81%)	31 (19%)	2	11
10	S8	150/161 (93%)	122 (81%)	28 (19%)	2	11
10	s8	150/161 (93%)	124 (83%)	26 (17%)	3	13
11	S9	158/165 (96%)	124 (78%)	34 (22%)	1	7
11	s9	158/165 (96%)	126 (80%)	32 (20%)	2	9
12	C0	77/98 (79%)	64 (83%)	13 (17%)	3	14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	C1	129/136 (95%)	107 (83%)	22 (17%)	3	14
13	c1	129/136 (95%)	109 (84%)	20 (16%)	4	17
14	C2	88/118 (75%)	66 (75%)	22 (25%)	1	3
14	c2	88/118 (75%)	63 (72%)	25 (28%)	0	2
15	C3	127/127 (100%)	100 (79%)	27 (21%)	1	7
15	c3	127/127 (100%)	103 (81%)	24 (19%)	2	11
16	C4	81/104 (78%)	60 (74%)	21 (26%)	1	2
16	c4	97/104 (93%)	69 (71%)	28 (29%)	0	1
17	C5	101/117 (86%)	80 (79%)	21 (21%)	2	8
17	c5	103/117 (88%)	78 (76%)	25 (24%)	1	3
18	C6	117/118 (99%)	89 (76%)	28 (24%)	1	4
18	c6	118/118 (100%)	95 (80%)	23 (20%)	2	10
19	C7	94/124 (76%)	75 (80%)	19 (20%)	2	9
19	c7	92/124 (74%)	66 (72%)	26 (28%)	0	2
20	C8	128/128 (100%)	96 (75%)	32 (25%)	1	3
20	c8	128/128 (100%)	101 (79%)	27 (21%)	1	8
21	C9	115/115 (100%)	83 (72%)	32 (28%)	0	2
21	c9	115/115 (100%)	93 (81%)	22 (19%)	2	11
22	D0	100/113 (88%)	83 (83%)	17 (17%)	3	14
22	d0	103/113 (91%)	71 (69%)	32 (31%)	0	1
23	D1	74/74 (100%)	59 (80%)	15 (20%)	2	9
23	d1	74/74 (100%)	59 (80%)	15 (20%)	2	9
24	D2	110/110 (100%)	88 (80%)	22 (20%)	2	9
24	d2	110/110 (100%)	93 (84%)	17 (16%)	4	17
25	D3	119/119 (100%)	98 (82%)	21 (18%)	3	13
25	d3	119/119 (100%)	92 (77%)	27 (23%)	1	6
26	D4	112/112 (100%)	92 (82%)	20 (18%)	2	12
26	d4	112/112 (100%)	91 (81%)	21 (19%)	2	11
27	D5	61/88 (69%)	50 (82%)	11 (18%)	2	12
27	d5	61/88 (69%)	49 (80%)	12 (20%)	2	10
28	D6	83/83 (100%)	66 (80%)	17 (20%)	2	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
28	d6	83/83 (100%)	63 (76%)	20 (24%)	1	4
29	D7	70/70 (100%)	55 (79%)	15 (21%)	1	7
29	d7	70/70 (100%)	59 (84%)	11 (16%)	4	17
30	D8	56/59 (95%)	40 (71%)	16 (29%)	0	1
30	d8	56/59 (95%)	41 (73%)	15 (27%)	1	2
31	D9	47/48 (98%)	41 (87%)	6 (13%)	6	28
31	d9	47/48 (98%)	37 (79%)	10 (21%)	1	7
32	E0	51/51 (100%)	42 (82%)	9 (18%)	3	13
33	E1	62/66 (94%)	45 (73%)	17 (27%)	0	2
34	SR	260/261 (100%)	214 (82%)	46 (18%)	3	13
34	sR	260/261 (100%)	237 (91%)	23 (9%)	14	50
35	SM	97/228 (42%)	79 (81%)	18 (19%)	2	11
35	sM	54/228 (24%)	40 (74%)	14 (26%)	1	2
39	L2	193/195 (99%)	153 (79%)	40 (21%)	2	8
39	l2	192/195 (98%)	156 (81%)	36 (19%)	2	11
40	L3	320/322 (99%)	260 (81%)	60 (19%)	2	11
40	l3	319/322 (99%)	259 (81%)	60 (19%)	2	11
41	L4	288/288 (100%)	241 (84%)	47 (16%)	3	15
41	l4	288/288 (100%)	236 (82%)	52 (18%)	2	12
42	L5	244/244 (100%)	199 (82%)	45 (18%)	2	11
42	l5	243/244 (100%)	194 (80%)	49 (20%)	2	9
43	L6	134/152 (88%)	113 (84%)	21 (16%)	4	17
43	l6	135/152 (89%)	113 (84%)	22 (16%)	3	15
44	L7	186/204 (91%)	162 (87%)	24 (13%)	6	28
44	l7	187/204 (92%)	163 (87%)	24 (13%)	6	28
45	L8	187/207 (90%)	151 (81%)	36 (19%)	2	10
45	l8	177/207 (86%)	145 (82%)	32 (18%)	2	12
46	L9	171/171 (100%)	135 (79%)	36 (21%)	1	8
46	l9	171/171 (100%)	132 (77%)	39 (23%)	1	6
47	M0	177/186 (95%)	136 (77%)	41 (23%)	1	5
47	m0	179/186 (96%)	148 (83%)	31 (17%)	3	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
48	M1	147/150 (98%)	115 (78%)	32 (22%)	1	7
48	m1	147/150 (98%)	112 (76%)	35 (24%)	1	4
49	M3	154/158 (98%)	124 (80%)	30 (20%)	2	10
49	m3	154/158 (98%)	129 (84%)	25 (16%)	3	15
50	M4	107/108 (99%)	88 (82%)	19 (18%)	2	13
50	m4	108/108 (100%)	84 (78%)	24 (22%)	1	6
51	M5	175/175 (100%)	148 (85%)	27 (15%)	4	18
51	m5	175/175 (100%)	142 (81%)	33 (19%)	2	11
52	M6	160/161 (99%)	134 (84%)	26 (16%)	3	15
52	m6	160/161 (99%)	136 (85%)	24 (15%)	4	19
53	M7	140/145 (97%)	114 (81%)	26 (19%)	2	11
53	m7	125/145 (86%)	101 (81%)	24 (19%)	2	10
54	M8	150/150 (100%)	123 (82%)	27 (18%)	2	12
54	m8	150/150 (100%)	125 (83%)	25 (17%)	3	14
55	M9	153/153 (100%)	130 (85%)	23 (15%)	4	19
55	m9	153/153 (100%)	121 (79%)	32 (21%)	1	8
56	N0	156/156 (100%)	125 (80%)	31 (20%)	2	9
56	n0	156/156 (100%)	127 (81%)	29 (19%)	2	11
57	N1	136/136 (100%)	104 (76%)	32 (24%)	1	5
57	n1	136/136 (100%)	107 (79%)	29 (21%)	1	7
58	N2	87/106 (82%)	72 (83%)	15 (17%)	3	14
58	n2	85/106 (80%)	67 (79%)	18 (21%)	1	8
59	N3	104/104 (100%)	85 (82%)	19 (18%)	2	12
59	n3	104/104 (100%)	95 (91%)	9 (9%)	15	51
60	N4	57/129 (44%)	47 (82%)	10 (18%)	3	13
60	n4	100/129 (78%)	84 (84%)	16 (16%)	3	16
61	N5	104/117 (89%)	88 (85%)	16 (15%)	4	18
61	n5	104/117 (89%)	83 (80%)	21 (20%)	2	9
62	N6	109/109 (100%)	87 (80%)	22 (20%)	2	9
62	n6	109/109 (100%)	75 (69%)	34 (31%)	0	1
63	N7	115/115 (100%)	96 (84%)	19 (16%)	3	14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
63	n7	115/115 (100%)	89 (77%)	26 (23%)	1	6
64	N8	118/118 (100%)	90 (76%)	28 (24%)	1	4
64	n8	118/118 (100%)	96 (81%)	22 (19%)	2	11
65	N9	46/46 (100%)	37 (80%)	9 (20%)	2	10
65	n9	46/46 (100%)	38 (83%)	8 (17%)	3	13
66	O0	81/87 (93%)	62 (76%)	19 (24%)	1	5
66	o0	84/87 (97%)	67 (80%)	17 (20%)	2	9
67	O1	92/96 (96%)	75 (82%)	17 (18%)	2	11
67	o1	94/96 (98%)	71 (76%)	23 (24%)	1	3
68	O2	109/110 (99%)	82 (75%)	27 (25%)	1	3
68	o2	109/110 (99%)	89 (82%)	20 (18%)	2	12
69	O3	90/90 (100%)	75 (83%)	15 (17%)	3	14
69	o3	90/90 (100%)	74 (82%)	16 (18%)	2	13
70	O4	95/101 (94%)	76 (80%)	19 (20%)	2	9
70	o4	95/101 (94%)	78 (82%)	17 (18%)	2	12
71	O5	104/104 (100%)	79 (76%)	25 (24%)	1	4
71	o5	103/104 (99%)	82 (80%)	21 (20%)	2	8
72	O6	81/81 (100%)	60 (74%)	21 (26%)	1	2
72	o6	80/81 (99%)	57 (71%)	23 (29%)	0	1
73	O7	70/70 (100%)	57 (81%)	13 (19%)	2	11
73	o7	70/70 (100%)	53 (76%)	17 (24%)	1	3
74	O8	68/68 (100%)	50 (74%)	18 (26%)	1	2
74	o8	67/68 (98%)	55 (82%)	12 (18%)	2	12
75	O9	45/45 (100%)	34 (76%)	11 (24%)	1	3
75	o9	45/45 (100%)	37 (82%)	8 (18%)	2	13
76	Q0	47/47 (100%)	35 (74%)	12 (26%)	1	3
76	q0	47/47 (100%)	36 (77%)	11 (23%)	1	5
77	Q1	23/23 (100%)	19 (83%)	4 (17%)	3	13
77	q1	23/23 (100%)	18 (78%)	5 (22%)	1	7
78	Q2	90/90 (100%)	68 (76%)	22 (24%)	1	3
78	q2	90/90 (100%)	65 (72%)	25 (28%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
79	Q3	71/71 (100%)	59 (83%)	12 (17%)	3	14
79	q3	71/71 (100%)	56 (79%)	15 (21%)	1	8
80	c0	73/98 (74%)	65 (89%)	8 (11%)	9	36
81	e0	53/53 (100%)	40 (76%)	13 (24%)	1	3
82	e1	66/66 (100%)	45 (68%)	21 (32%)	0	1
84	p0	105/253 (42%)	84 (80%)	21 (20%)	2	9
All	All	18727/20239 (92%)	15017 (80%)	3710 (20%)	2	9

All (3710) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	7	PHE
2	S0	30	GLN
2	S0	32	HIS
2	S0	37	VAL
2	S0	41	ARG
2	S0	49	ASN
2	S0	50	VAL
2	S0	84	ARG
2	S0	87	LEU
2	S0	96	THR
2	S0	101	ARG
2	S0	106	SER
2	S0	108	THR
2	S0	110	TYR
2	S0	124	THR
2	S0	139	VAL
2	S0	140	ASN
2	S0	154	GLU
2	S0	157	ASP
2	S0	162	CYS
2	S0	168	HIS
2	S0	172	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	196	SER
2	S0	198	MET
2	S0	200	ASP
2	S0	203	PHE
3	S1	21	VAL

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Mol	Chain	Res	Type
3	S1	22	ASP
3	S1	25	THR
3	S1	29	TRP
3	S1	30	PHE
3	S1	42	ASN
3	S1	46	THR
3	S1	61	LEU
3	S1	65	VAL
3	S1	70	LEU
3	S1	73	LEU
3	S1	74	GLN
3	S1	77	GLU
3	S1	81	PHE
3	S1	85	LYS
3	S1	89	ASP
3	S1	95	ASN
3	S1	97	LEU
3	S1	105	PHE
3	S1	108	ASP
3	S1	111	ARG
3	S1	115	ARG
3	S1	135	LEU
3	S1	136	ARG
3	S1	137	ILE
3	S1	149	GLN
3	S1	154	SER
3	S1	167	VAL
3	S1	170	GLU
3	S1	181	LEU
3	S1	193	ILE
3	S1	198	GLU
3	S1	202	LYS
3	S1	203	ASP
3	S1	214	LYS
3	S1	215	VAL
3	S1	218	LEU
3	S1	219	LYS
3	S1	223	PHE
3	S1	231	LEU
4	S2	41	LEU
4	S2	50	ILE
4	S2	53	ILE

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Mol	Chain	Res	Type
4	S2	55	GLU
4	S2	58	LEU
4	S2	69	ILE
4	S2	72	LEU
4	S2	76	LEU
4	S2	77	GLN
4	S2	81	MET
4	S2	87	GLN
4	S2	89	GLN
4	S2	90	THR
4	S2	91	ARG
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	99	LYS
4	S2	111	VAL
4	S2	116	LYS
4	S2	117	THR
4	S2	119	LYS
4	S2	129	ILE
4	S2	134	LEU
4	S2	137	ILE
4	S2	139	ILE
4	S2	141	ARG
4	S2	146	THR
4	S2	148	LEU
4	S2	153	SER
4	S2	166	THR
4	S2	207	LEU
4	S2	208	GLU
4	S2	221	THR
4	S2	222	TYR
4	S2	224	PHE
4	S2	225	LEU
4	S2	226	THR
4	S2	229	LEU
4	S2	232	GLU
4	S2	235	LEU
4	S2	237	VAL
4	S2	238	SER
4	S2	240	LEU
4	S2	245	ASP

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Mol	Chain	Res	Type
4	S2	246	GLU
5	S3	4	LEU
5	S3	6	SER
5	S3	9	ARG
5	S3	23	GLU
5	S3	27	ARG
5	S3	37	VAL
5	S3	38	GLU
5	S3	40	ARG
5	S3	59	LEU
5	S3	61	GLU
5	S3	65	ARG
5	S3	66	ILE
5	S3	76	ARG
5	S3	84	ILE
5	S3	89	GLU
5	S3	92	GLN
5	S3	93	ASP
5	S3	113	LEU
5	S3	117	ARG
5	S3	120	TYR
5	S3	134	CYS
5	S3	142	LEU
5	S3	143	ARG
5	S3	146	ARG
5	S3	148	LYS
5	S3	151	LYS
5	S3	172	THR
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	179	GLN
5	S3	181	VAL
5	S3	182	LEU
5	S3	194	LYS
5	S3	202	LEU
5	S3	204	ASP
5	S3	207	THR
5	S3	217	ILE
5	S3	223	LYS
6	S4	9	LEU
6	S4	12	LEU

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Mol	Chain	Res	Type
6	S4	37	LYS
6	S4	38	LEU
6	S4	42	LEU
6	S4	48	LEU
6	S4	72	VAL
6	S4	77	ARG
6	S4	78	THR
6	S4	93	ASP
6	S4	113	ARG
6	S4	116	ASP
6	S4	117	GLU
6	S4	123	LEU
6	S4	126	VAL
6	S4	129	VAL
6	S4	131	LEU
6	S4	133	LYS
6	S4	148	ARG
6	S4	155	LYS
6	S4	156	VAL
6	S4	180	LEU
6	S4	181	VAL
6	S4	182	TYR
6	S4	187	ARG
6	S4	189	LEU
6	S4	192	ILE
6	S4	198	LYS
6	S4	206	ASP
6	S4	211	LYS
6	S4	213	SER
6	S4	214	LEU
6	S4	215	ASP
6	S4	220	THR
6	S4	221	ARG
6	S4	226	PHE
6	S4	227	VAL
6	S4	238	LEU
6	S4	240	LYS
6	S4	242	LYS
6	S4	246	LEU
6	S4	248	ILE
6	S4	259	GLN
7	S5	23	VAL

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Mol	Chain	Res	Type
7	S5	25	LEU
7	S5	32	GLU
7	S5	38	THR
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	53	VAL
7	S5	59	VAL
7	S5	65	ARG
7	S5	76	ARG
7	S5	79	ASN
7	S5	80	LYS
7	S5	83	ARG
7	S5	93	LEU
7	S5	94	THR
7	S5	122	ASN
7	S5	131	GLN
7	S5	146	THR
7	S5	147	THR
7	S5	156	ARG
7	S5	157	ARG
7	S5	161	ASP
7	S5	162	VAL
7	S5	166	ARG
7	S5	190	ILE
7	S5	194	LEU
7	S5	196	GLU
8	S6	5	ILE
8	S6	6	SER
8	S6	12	SER
8	S6	13	GLN
8	S6	19	ASP
8	S6	25	ARG
8	S6	31	ARG
8	S6	44	GLU
8	S6	45	PHE
8	S6	58	LYS
8	S6	65	GLN
8	S6	67	VAL
8	S6	69	LEU
8	S6	74	LYS
8	S6	76	LEU

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Mol	Chain	Res	Type
8	S6	78	THR
8	S6	79	LYS
8	S6	81	VAL
8	S6	82	SER
8	S6	98	ARG
8	S6	109	LEU
8	S6	120	GLU
8	S6	126	ASP
8	S6	127	THR
8	S6	129	VAL
8	S6	132	ARG
8	S6	133	LEU
8	S6	143	LYS
8	S6	154	ARG
8	S6	155	ASP
8	S6	169	TYR
8	S6	170	THR
8	S6	176	GLN
8	S6	177	ARG
8	S6	211	LEU
8	S6	216	LEU
8	S6	223	LYS
9	S7	16	LEU
9	S7	37	GLU
9	S7	38	LEU
9	S7	50	ASP
9	S7	51	VAL
9	S7	67	LEU
9	S7	77	LEU
9	S7	79	ARG
9	S7	85	PHE
9	S7	87	ASP
9	S7	91	ILE
9	S7	97	ARG
9	S7	99	LEU
9	S7	104	ARG
9	S7	105	THR
9	S7	107	ARG
9	S7	114	ARG
9	S7	116	ARG
9	S7	117	THR
9	S7	123	ASP

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Mol	Chain	Res	Type
9	S7	126	LEU
9	S7	147	ASN
9	S7	156	SER
9	S7	161	GLN
9	S7	166	LEU
9	S7	174	ASN
9	S7	176	LEU
9	S7	185	ILE
9	S7	187	SER
10	S8	4	SER
10	S8	5	ARG
10	S8	8	ARG
10	S8	20	GLN
10	S8	21	PHE
10	S8	22	ARG
10	S8	26	LYS
10	S8	29	LEU
10	S8	32	GLN
10	S8	36	THR
10	S8	37	LYS
10	S8	46	VAL
10	S8	58	LEU
10	S8	66	SER
10	S8	73	SER
10	S8	74	LYS
10	S8	75	LYS
10	S8	77	ARG
10	S8	88	ASN
10	S8	97	THR
10	S8	140	GLU
10	S8	151	LYS
10	S8	152	ILE
10	S8	164	ARG
10	S8	184	LEU
10	S8	189	LEU
10	S8	193	LEU
10	S8	196	LEU
11	S9	3	ARG
11	S9	6	ARG
11	S9	7	THR
11	S9	28	LEU
11	S9	30	LEU

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Mol	Chain	Res	Type
11	S9	36	LEU
11	S9	39	LYS
11	S9	46	SER
11	S9	60	LEU
11	S9	61	THR
11	S9	78	ARG
11	S9	82	ARG
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	99	LEU
11	S9	102	GLU
11	S9	103	ASP
11	S9	110	GLN
11	S9	113	VAL
11	S9	121	SER
11	S9	126	ARG
11	S9	130	THR
11	S9	132	ARG
11	S9	134	ILE
11	S9	138	LYS
11	S9	140	ILE
11	S9	149	ARG
11	S9	157	ASP
11	S9	171	ARG
11	S9	172	VAL
11	S9	174	ARG
11	S9	180	LYS
11	S9	182	GLU
12	C0	5	LYS
12	C0	8	ARG
12	C0	17	GLN
12	C0	20	VAL
12	C0	27	PHE
12	C0	32	HIS
12	C0	55	VAL
12	C0	56	LYS
12	C0	71	GLU
12	C0	76	LEU
12	C0	79	TYR
12	C0	81	ASN
12	C0	82	LEU

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Mol	Chain	Res	Type
13	C1	8	GLN
13	C1	21	ASN
13	C1	29	LYS
13	C1	36	LYS
13	C1	40	LEU
13	C1	43	LYS
13	C1	44	THR
13	C1	56	LYS
13	C1	67	ARG
13	C1	69	LYS
13	C1	70	ILE
13	C1	75	VAL
13	C1	76	VAL
13	C1	80	MET
13	C1	83	THR
13	C1	87	ARG
13	C1	99	ARG
13	C1	117	VAL
13	C1	118	GLN
13	C1	128	CYS
13	C1	136	ARG
13	C1	140	VAL
14	C2	28	LEU
14	C2	36	LEU
14	C2	37	VAL
14	C2	41	LEU
14	C2	43	ARG
14	C2	46	ARG
14	C2	50	LYS
14	C2	54	ARG
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	86	VAL
14	C2	89	ILE
14	C2	103	LEU
14	C2	119	SER
14	C2	121	VAL
14	C2	126	TRP
14	C2	129	GLU
14	C2	132	GLU

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Mol	Chain	Res	Type
14	C2	133	LEU
14	C2	139	HIS
15	C3	3	ARG
15	C3	9	LYS
15	C3	16	ILE
15	C3	27	LYS
15	C3	30	SER
15	C3	34	ILE
15	C3	37	ILE
15	C3	39	LYS
15	C3	42	ARG
15	C3	45	LEU
15	C3	46	THR
15	C3	56	ASP
15	C3	64	ARG
15	C3	66	ILE
15	C3	76	LYS
15	C3	83	GLU
15	C3	86	GLU
15	C3	88	LEU
15	C3	102	LEU
15	C3	114	ARG
15	C3	115	LEU
15	C3	125	LEU
15	C3	127	ARG
15	C3	134	VAL
15	C3	140	LYS
15	C3	142	GLU
15	C3	143	SER
16	C4	13	VAL
16	C4	16	VAL
16	C4	20	TYR
16	C4	24	ASN
16	C4	26	THR
16	C4	29	HIS
16	C4	30	VAL
16	C4	39	ILE
16	C4	43	THR
16	C4	51	ASP
16	C4	76	ILE
16	C4	81	VAL
16	C4	92	LYS

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Mol	Chain	Res	Type
16	C4	102	LEU
16	C4	103	ARG
16	C4	108	SER
16	C4	119	THR
16	C4	123	SER
16	C4	125	SER
16	C4	136	ARG
16	C4	137	LEU
17	C5	20	VAL
17	C5	22	LEU
17	C5	23	GLU
17	C5	31	GLU
17	C5	34	VAL
17	C5	36	LEU
17	C5	43	ARG
17	C5	44	ARG
17	C5	47	ARG
17	C5	50	THR
17	C5	52	LYS
17	C5	60	LEU
17	C5	89	MET
17	C5	90	ILE
17	C5	92	SER
17	C5	106	GLU
17	C5	107	ILE
17	C5	110	GLU
17	C5	121	ILE
17	C5	124	THR
17	C5	125	PRO
18	C6	4	VAL
18	C6	6	SER
18	C6	8	GLN
18	C6	14	LYS
18	C6	32	ASN
18	C6	39	VAL
18	C6	40	GLU
18	C6	43	ILE
18	C6	44	LEU
18	C6	52	LEU
18	C6	54	LEU
18	C6	57	LEU
18	C6	58	ASP

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Mol	Chain	Res	Type
18	C6	63	ILE
18	C6	66	ARG
18	C6	69	VAL
18	C6	70	THR
18	C6	98	ASP
18	C6	104	GLU
18	C6	106	LYS
18	C6	114	ARG
18	C6	117	LEU
18	C6	118	ILE
18	C6	123	ARG
18	C6	128	LYS
18	C6	137	ARG
18	C6	138	PHE
18	C6	143	ARG
19	C7	3	ARG
19	C7	5	ARG
19	C7	25	THR
19	C7	30	THR
19	C7	38	ILE
19	C7	46	LEU
19	C7	48	ASN
19	C7	49	LYS
19	C7	62	GLN
19	C7	69	ILE
19	C7	72	LYS
19	C7	84	TYR
19	C7	87	GLU
19	C7	88	VAL
19	C7	105	GLN
19	C7	107	SER
19	C7	113	LEU
19	C7	115	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	7	GLU
20	C8	8	GLN
20	C8	11	PHE
20	C8	12	GLN
20	C8	13	HIS
20	C8	14	ILE

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Mol	Chain	Res	Type
20	C8	15	LEU
20	C8	17	LEU
20	C8	20	THR
20	C8	25	ASN
20	C8	28	ILE
20	C8	40	ARG
20	C8	46	VAL
20	C8	57	ARG
20	C8	60	GLU
20	C8	61	LEU
20	C8	77	THR
20	C8	80	LYS
20	C8	85	PHE
20	C8	86	LEU
20	C8	88	ARG
20	C8	92	ILE
20	C8	93	THR
20	C8	97	ASP
20	C8	104	ASN
20	C8	108	LYS
20	C8	132	ARG
20	C8	136	GLN
20	C8	140	THR
20	C8	143	ARG
21	C9	6	VAL
21	C9	8	ASP
21	C9	13	ASP
21	C9	18	TYR
21	C9	22	LEU
21	C9	27	LYS
21	C9	28	LEU
21	C9	33	TYR
21	C9	35	ASP
21	C9	36	ILE
21	C9	37	VAL
21	C9	39	THR
21	C9	41	SER
21	C9	51	GLU
21	C9	57	ARG
21	C9	60	SER
21	C9	63	ARG
21	C9	67	MET

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Mol	Chain	Res	Type
21	C9	68	ARG
21	C9	71	VAL
21	C9	79	LEU
21	C9	89	ARG
21	C9	99	SER
21	C9	100	ILE
21	C9	116	ILE
21	C9	122	ARG
21	C9	130	ARG
21	C9	131	ASP
21	C9	132	LEU
21	C9	133	ASP
21	C9	134	ARG
21	C9	144	GLU
22	D0	15	GLN
22	D0	18	GLN
22	D0	23	ARG
22	D0	27	THR
22	D0	31	VAL
22	D0	47	GLN
22	D0	51	VAL
22	D0	57	ARG
22	D0	58	LEU
22	D0	61	LYS
22	D0	62	VAL
22	D0	67	THR
22	D0	74	GLU
22	D0	89	ARG
22	D0	103	ILE
22	D0	105	GLN
22	D0	108	ILE
23	D1	7	GLN
23	D1	9	VAL
23	D1	11	LEU
23	D1	12	TYR
23	D1	18	SER
23	D1	33	GLN
23	D1	36	VAL
23	D1	41	GLU
23	D1	52	THR
23	D1	56	SER
23	D1	68	SER

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Mol	Chain	Res	Type
23	D1	69	LEU
23	D1	78	LEU
23	D1	80	LYS
23	D1	82	VAL
24	D2	12	ASN
24	D2	15	ASN
24	D2	22	LYS
24	D2	24	GLN
24	D2	25	VAL
24	D2	26	LEU
24	D2	27	ILE
24	D2	29	PRO
24	D2	53	ILE
24	D2	56	HIS
24	D2	65	LEU
24	D2	68	ARG
24	D2	78	ARG
24	D2	81	VAL
24	D2	97	ARG
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR
24	D2	121	VAL
24	D2	126	LEU
24	D2	129	VAL
25	D3	7	ARG
25	D3	9	LEU
25	D3	14	LYS
25	D3	19	ARG
25	D3	33	LEU
25	D3	41	SER
25	D3	47	SER
25	D3	59	ILE
25	D3	69	ARG
25	D3	72	VAL
25	D3	78	LYS
25	D3	82	LYS
25	D3	84	THR
25	D3	103	LEU
25	D3	107	PHE
25	D3	109	ARG

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Mol	Chain	Res	Type
25	D3	110	LYS
25	D3	114	LYS
25	D3	117	ILE
25	D3	138	GLU
25	D3	144	ARG
26	D4	20	ARG
26	D4	21	LYS
26	D4	27	VAL
26	D4	28	LEU
26	D4	29	HIS
26	D4	32	ARG
26	D4	34	ASN
26	D4	36	SER
26	D4	40	LEU
26	D4	41	ARG
26	D4	51	GLU
26	D4	57	VAL
26	D4	62	THR
26	D4	74	LEU
26	D4	84	LYS
26	D4	96	LEU
26	D4	99	LYS
26	D4	102	LYS
26	D4	124	ARG
26	D4	127	LYS
27	D5	37	GLN
27	D5	38	HIS
27	D5	58	ARG
27	D5	69	LEU
27	D5	71	ILE
27	D5	92	ILE
27	D5	93	SER
27	D5	95	HIS
27	D5	96	SER
27	D5	100	ILE
27	D5	105	THR
28	D6	4	LYS
28	D6	36	ILE
28	D6	41	ILE
28	D6	44	ILE
28	D6	58	VAL
28	D6	61	GLU

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Mol	Chain	Res	Type
28	D6	64	LEU
28	D6	66	LYS
28	D6	70	LYS
28	D6	71	LEU
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL
28	D6	85	ARG
28	D6	86	VAL
28	D6	88	SER
28	D6	90	GLU
29	D7	3	LEU
29	D7	4	VAL
29	D7	20	LYS
29	D7	29	ARG
29	D7	33	LEU
29	D7	36	LYS
29	D7	42	ASN
29	D7	55	THR
29	D7	56	CYS
29	D7	61	THR
29	D7	62	ILE
29	D7	63	LEU
29	D7	67	THR
29	D7	74	SER
29	D7	75	GLU
30	D8	13	ILE
30	D8	19	THR
30	D8	22	ARG
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	36	THR
30	D8	37	SER
30	D8	39	THR
30	D8	44	VAL
30	D8	49	ARG
30	D8	51	ASN
30	D8	52	ASP
30	D8	54	LEU
30	D8	57	MET
30	D8	58	GLU

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Mol	Chain	Res	Type
31	D9	7	TRP
31	D9	19	ARG
31	D9	22	ARG
31	D9	30	LEU
31	D9	32	ARG
31	D9	36	LEU
32	E0	3	LYS
32	E0	8	LEU
32	E0	20	LYS
32	E0	28	LYS
32	E0	41	THR
32	E0	42	ARG
32	E0	47	VAL
32	E0	48	THR
32	E0	50	VAL
33	E1	82	LYS
33	E1	83	LYS
33	E1	84	VAL
33	E1	89	LYS
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	103	LEU
33	E1	108	VAL
33	E1	109	ASP
33	E1	113	LYS
33	E1	115	THR
33	E1	119	ARG
33	E1	120	GLU
33	E1	126	CYS
33	E1	137	ASP
33	E1	146	SER
34	SR	6	VAL
34	SR	7	LEU
34	SR	9	LEU
34	SR	12	THR
34	SR	29	GLN
34	SR	48	THR
34	SR	50	ASP
34	SR	52	GLN
34	SR	60	SER
34	SR	69	GLN

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Mol	Chain	Res	Type
34	SR	71	CYS
34	SR	72	THR
34	SR	76	ASP
34	SR	82	SER
34	SR	88	THR
34	SR	96	THR
34	SR	102	ARG
34	SR	108	SER
34	SR	116	ASP
34	SR	117	LYS
34	SR	136	ILE
34	SR	144	LEU
34	SR	145	LEU
34	SR	153	GLN
34	SR	165	ASP
34	SR	188	ILE
34	SR	191	ASP
34	SR	200	ASN
34	SR	202	LEU
34	SR	213	SER
34	SR	221	MET
34	SR	222	LEU
34	SR	231	MET
34	SR	232	TYR
34	SR	238	ASP
34	SR	241	PHE
34	SR	248	ASN
34	SR	266	ASP
34	SR	268	GLN
34	SR	277	GLU
34	SR	300	THR
34	SR	310	ILE
34	SR	312	VAL
34	SR	314	GLN
34	SR	316	MET
34	SR	317	THR
35	SM	24	GLU
35	SM	45	SER
35	SM	48	ARG
35	SM	50	ASN
35	SM	51	ARG
35	SM	53	ARG

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Mol	Chain	Res	Type
35	SM	64	LYS
35	SM	69	ARG
35	SM	72	ARG
35	SM	77	THR
35	SM	84	LYS
35	SM	89	ARG
35	SM	97	THR
35	SM	100	THR
35	SM	101	ASP
35	SM	105	LYS
35	SM	121	LYS
35	SM	139	GLU
39	L2	14	SER
39	L2	20	THR
39	L2	31	THR
39	L2	32	LEU
39	L2	41	ILE
39	L2	44	ILE
39	L2	45	VAL
39	L2	46	LYS
39	L2	70	ARG
39	L2	74	GLU
39	L2	82	VAL
39	L2	84	THR
39	L2	96	LEU
39	L2	97	ASN
39	L2	101	VAL
39	L2	104	LEU
39	L2	107	VAL
39	L2	109	GLU
39	L2	116	VAL
39	L2	122	ASP
39	L2	137	ILE
39	L2	139	HIS
39	L2	142	ASP
39	L2	143	GLU
39	L2	148	VAL
39	L2	152	SER
39	L2	157	VAL
39	L2	160	SER
39	L2	165	VAL
39	L2	179	LEU

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Mol	Chain	Res	Type
39	L2	180	LEU
39	L2	181	LYS
39	L2	198	LYS
39	L2	202	VAL
39	L2	204	MET
39	L2	207	VAL
39	L2	227	ARG
39	L2	230	VAL
39	L2	241	ARG
39	L2	245	LEU
40	L3	2	SER
40	L3	7	GLU
40	L3	17	LEU
40	L3	19	ARG
40	L3	21	ARG
40	L3	24	SER
40	L3	25	ILE
40	L3	30	LYS
40	L3	37	ARG
40	L3	47	LEU
40	L3	67	PHE
40	L3	79	VAL
40	L3	81	THR
40	L3	84	VAL
40	L3	85	VAL
40	L3	100	ARG
40	L3	103	THR
40	L3	112	ASP
40	L3	114	VAL
40	L3	116	ARG
40	L3	134	SER
40	L3	139	GLN
40	L3	144	ILE
40	L3	146	ARG
40	L3	148	LEU
40	L3	150	ARG
40	L3	156	SER
40	L3	160	VAL
40	L3	164	THR
40	L3	169	THR
40	L3	187	SER
40	L3	188	ILE

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Mol	Chain	Res	Type
40	L3	192	VAL
40	L3	196	ARG
40	L3	200	GLU
40	L3	205	VAL
40	L3	216	ASP
40	L3	229	VAL
40	L3	232	ARG
40	L3	235	THR
40	L3	236	LYS
40	L3	237	LYS
40	L3	238	LEU
40	L3	252	ILE
40	L3	274	SER
40	L3	284	ARG
40	L3	296	THR
40	L3	300	ARG
40	L3	305	ILE
40	L3	312	VAL
40	L3	328	ILE
40	L3	332	ARG
40	L3	333	LYS
40	L3	338	LEU
40	L3	347	SER
40	L3	354	VAL
40	L3	355	SER
40	L3	367	LYS
40	L3	371	GLN
40	L3	382	THR
41	L4	37	THR
41	L4	41	SER
41	L4	44	LYS
41	L4	74	ILE
41	L4	93	MET
41	L4	112	LYS
41	L4	124	SER
41	L4	133	SER
41	L4	138	ARG
41	L4	144	LYS
41	L4	145	ILE
41	L4	148	ILE
41	L4	150	LEU
41	L4	156	LEU

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Mol	Chain	Res	Type
41	L4	160	GLN
41	L4	170	LYS
41	L4	179	LEU
41	L4	182	LEU
41	L4	185	LYS
41	L4	187	LEU
41	L4	188	ARG
41	L4	193	LYS
41	L4	194	TYR
41	L4	200	THR
41	L4	203	ARG
41	L4	206	LEU
41	L4	220	ARG
41	L4	222	VAL
41	L4	223	PRO
41	L4	230	VAL
41	L4	252	GLU
41	L4	255	PHE
41	L4	258	LEU
41	L4	270	SER
41	L4	284	SER
41	L4	287	THR
41	L4	289	ILE
41	L4	306	THR
41	L4	307	GLN
41	L4	311	HIS
41	L4	322	GLN
41	L4	323	VAL
41	L4	327	LEU
41	L4	332	LYS
41	L4	333	VAL
41	L4	349	THR
41	L4	354	VAL
42	L5	4	GLN
42	L5	5	LYS
42	L5	9	SER
42	L5	22	ARG
42	L5	23	ARG
42	L5	35	ARG
42	L5	36	LEU
42	L5	41	LYS
42	L5	66	SER

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Mol	Chain	Res	Type
42	L5	69	ILE
42	L5	75	LEU
42	L5	85	ARG
42	L5	95	TRP
42	L5	105	ILE
42	L5	110	LEU
42	L5	112	LYS
42	L5	115	LEU
42	L5	118	THR
42	L5	122	VAL
42	L5	131	LEU
42	L5	137	ASP
42	L5	140	ARG
42	L5	146	LEU
42	L5	148	ILE
42	L5	151	GLN
42	L5	152	ARG
42	L5	155	THR
42	L5	158	ARG
42	L5	163	LEU
42	L5	177	GLU
42	L5	185	PHE
42	L5	193	GLU
42	L5	205	SER
42	L5	231	ILE
42	L5	232	ASP
42	L5	236	LEU
42	L5	237	GLU
42	L5	254	LYS
42	L5	257	GLU
42	L5	259	LYS
42	L5	263	GLU
42	L5	273	ARG
42	L5	275	THR
42	L5	279	LYS
42	L5	293	LEU
43	L6	5	LYS
43	L6	21	THR
43	L6	29	LYS
43	L6	31	ARG
43	L6	35	VAL
43	L6	41	ILE

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Mol	Chain	Res	Type
43	L6	46	ARG
43	L6	64	LEU
43	L6	65	ILE
43	L6	78	ARG
43	L6	84	VAL
43	L6	89	THR
43	L6	90	LYS
43	L6	93	VAL
43	L6	109	GLU
43	L6	129	GLU
43	L6	146	ILE
43	L6	152	THR
43	L6	154	LEU
43	L6	155	LEU
43	L6	170	LYS
44	L7	24	GLU
44	L7	25	GLN
44	L7	26	VAL
44	L7	56	GLU
44	L7	59	GLU
44	L7	77	VAL
44	L7	82	LYS
44	L7	83	LEU
44	L7	89	ILE
44	L7	92	ILE
44	L7	93	ASN
44	L7	98	LYS
44	L7	101	LYS
44	L7	111	ILE
44	L7	113	SER
44	L7	118	LYS
44	L7	124	LEU
44	L7	164	SER
44	L7	179	LEU
44	L7	184	LEU
44	L7	211	SER
44	L7	228	SER
44	L7	229	PHE
44	L7	239	LEU
45	L8	26	LEU
45	L8	27	THR
45	L8	50	VAL

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Mol	Chain	Res	Type
45	L8	57	ARG
45	L8	63	LYS
45	L8	66	SER
45	L8	71	VAL
45	L8	74	THR
45	L8	79	GLN
45	L8	81	THR
45	L8	83	ASP
45	L8	84	ARG
45	L8	92	LYS
45	L8	98	ARG
45	L8	106	LYS
45	L8	118	GLU
45	L8	132	VAL
45	L8	136	LEU
45	L8	149	LYS
45	L8	156	ASP
45	L8	157	VAL
45	L8	160	ILE
45	L8	169	LEU
45	L8	172	LYS
45	L8	173	MET
45	L8	181	LYS
45	L8	185	ARG
45	L8	189	LEU
45	L8	202	GLU
45	L8	204	ARG
45	L8	206	GLU
45	L8	208	GLU
45	L8	221	ASN
45	L8	238	LEU
45	L8	247	ASP
45	L8	248	LYS
46	L9	1	MET
46	L9	5	GLN
46	L9	6	THR
46	L9	14	GLU
46	L9	18	VAL
46	L9	19	SER
46	L9	21	LYS
46	L9	33	THR
46	L9	34	LEU

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Mol	Chain	Res	Type
46	L9	41	ILE
46	L9	44	THR
46	L9	48	VAL
46	L9	52	LEU
46	L9	62	ARG
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	72	LYS
46	L9	73	SER
46	L9	82	VAL
46	L9	110	LYS
46	L9	118	LEU
46	L9	124	ARG
46	L9	139	ASN
46	L9	147	SER
46	L9	152	GLU
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	163	GLN
46	L9	164	ILE
46	L9	166	ARG
46	L9	172	ILE
46	L9	173	ARG
46	L9	177	ASP
46	L9	189	GLU
47	M0	12	GLN
47	M0	24	ARG
47	M0	26	VAL
47	M0	28	ASP
47	M0	30	LYS
47	M0	31	ILE
47	M0	32	ARG
47	M0	33	ILE
47	M0	36	LEU
47	M0	40	LYS
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	53	VAL
47	M0	63	GLU

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Mol	Chain	Res	Type
47	M0	74	LYS
47	M0	87	LEU
47	M0	99	ILE
47	M0	102	MET
47	M0	128	ARG
47	M0	130	ASP
47	M0	131	ILE
47	M0	133	GLN
47	M0	138	VAL
47	M0	139	ARG
47	M0	142	ASP
47	M0	143	SER
47	M0	154	ARG
47	M0	156	ARG
47	M0	163	GLN
47	M0	165	ILE
47	M0	167	LEU
47	M0	168	SER
47	M0	174	THR
47	M0	175	ASN
47	M0	177	ASP
47	M0	193	ASP
47	M0	200	LEU
47	M0	203	LYS
47	M0	207	GLU
47	M0	209	ASN
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS
48	M1	28	ASP
48	M1	31	THR
48	M1	34	SER
48	M1	40	LEU
48	M1	44	THR
48	M1	46	VAL
48	M1	52	TYR
48	M1	64	LYS
48	M1	65	ILE
48	M1	71	VAL
48	M1	80	LEU
48	M1	92	ARG

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Mol	Chain	Res	Type
48	M1	94	ARG
48	M1	106	ILE
48	M1	107	ASP
48	M1	110	ILE
48	M1	112	LEU
48	M1	115	LYS
48	M1	125	MET
48	M1	127	PHE
48	M1	137	ARG
48	M1	138	VAL
48	M1	140	ARG
48	M1	142	LYS
48	M1	145	LYS
48	M1	155	THR
48	M1	166	LYS
48	M1	173	ASP
49	M3	23	LYS
49	M3	24	VAL
49	M3	34	SER
49	M3	46	ILE
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	59	ARG
49	M3	67	ARG
49	M3	69	VAL
49	M3	70	ARG
49	M3	104	ARG
49	M3	107	GLU
49	M3	108	ILE
49	M3	114	GLN
49	M3	121	SER
49	M3	124	ILE
49	M3	128	ARG
49	M3	131	LYS
49	M3	136	GLU
49	M3	138	VAL
49	M3	147	ILE
49	M3	164	GLU
49	M3	168	ARG
49	M3	171	ARG
49	M3	176	GLU

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Mol	Chain	Res	Type
49	M3	182	ILE
49	M3	186	ARG
49	M3	190	LYS
49	M3	194	GLU
50	M4	5	SER
50	M4	15	VAL
50	M4	20	VAL
50	M4	25	LYS
50	M4	27	GLN
50	M4	38	ILE
50	M4	53	VAL
50	M4	62	GLN
50	M4	63	VAL
50	M4	64	VAL
50	M4	69	THR
50	M4	72	LEU
50	M4	83	LYS
50	M4	90	VAL
50	M4	91	CYS
50	M4	102	LYS
50	M4	108	ARG
50	M4	126	GLN
50	M4	135	LEU
51	M5	7	LEU
51	M5	13	LYS
51	M5	18	VAL
51	M5	38	ARG
51	M5	62	TYR
51	M5	68	ARG
51	M5	71	ARG
51	M5	80	THR
51	M5	83	LYS
51	M5	85	THR
51	M5	96	ARG
51	M5	97	SER
51	M5	106	VAL
51	M5	109	ARG
51	M5	113	LEU
51	M5	117	ASN
51	M5	133	ILE
51	M5	151	ILE
51	M5	153	ASP

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Mol	Chain	Res	Type
51	M5	155	VAL
51	M5	159	ARG
51	M5	183	THR
51	M5	184	LYS
51	M5	197	LEU
51	M5	198	SER
51	M5	199	LEU
51	M5	201	ARG
52	M6	22	VAL
52	M6	33	ILE
52	M6	41	LEU
52	M6	51	LYS
52	M6	58	LEU
52	M6	67	THR
52	M6	68	ARG
52	M6	74	ARG
52	M6	78	ARG
52	M6	85	ARG
52	M6	89	SER
52	M6	106	GLU
52	M6	110	PRO
52	M6	114	LYS
52	M6	116	LYS
52	M6	117	ARG
52	M6	122	GLN
52	M6	124	LEU
52	M6	128	ARG
52	M6	134	LYS
52	M6	143	THR
52	M6	160	ARG
52	M6	163	SER
52	M6	180	SER
52	M6	189	ASP
52	M6	190	VAL
53	M7	3	ARG
53	M7	7	THR
53	M7	9	THR
53	M7	24	VAL
53	M7	32	THR
53	M7	36	ILE
53	M7	49	GLU
53	M7	52	LEU

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Mol	Chain	Res	Type
53	M7	53	ASP
53	M7	54	HIS
53	M7	56	ARG
53	M7	67	ILE
53	M7	78	VAL
53	M7	119	VAL
53	M7	126	ARG
53	M7	127	ARG
53	M7	128	ARG
53	M7	129	THR
53	M7	142	SER
53	M7	144	SER
53	M7	146	ILE
53	M7	168	LEU
53	M7	171	ARG
53	M7	173	ARG
53	M7	180	LYS
53	M7	181	ARG
54	M8	3	ILE
54	M8	11	LYS
54	M8	17	THR
54	M8	22	ASP
54	M8	24	VAL
54	M8	26	LEU
54	M8	32	LEU
54	M8	41	ASP
54	M8	49	LEU
54	M8	50	LYS
54	M8	63	SER
54	M8	64	VAL
54	M8	67	ILE
54	M8	73	GLN
54	M8	81	VAL
54	M8	86	THR
54	M8	100	THR
54	M8	105	ARG
54	M8	127	LEU
54	M8	135	GLN
54	M8	138	LEU
54	M8	141	ARG
54	M8	146	SER
54	M8	147	ARG

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Mol	Chain	Res	Type
54	M8	159	LYS
54	M8	179	ARG
54	M8	180	ARG
55	M9	10	LEU
55	M9	13	SER
55	M9	31	GLU
55	M9	41	ILE
55	M9	49	THR
55	M9	55	VAL
55	M9	72	GLU
55	M9	74	ARG
55	M9	86	GLU
55	M9	91	SER
55	M9	98	ARG
55	M9	103	ARG
55	M9	104	ARG
55	M9	106	LEU
55	M9	110	ARG
55	M9	115	ILE
55	M9	134	HIS
55	M9	138	LEU
55	M9	155	LEU
55	M9	175	GLN
55	M9	177	VAL
55	M9	180	LYS
55	M9	182	ASP
56	N0	8	GLN
56	N0	12	ARG
56	N0	13	ARG
56	N0	40	ARG
56	N0	45	LEU
56	N0	47	LYS
56	N0	51	VAL
56	N0	58	ILE
56	N0	80	ARG
56	N0	81	TYR
56	N0	87	THR
56	N0	88	HIS
56	N0	92	LYS
56	N0	97	VAL
56	N0	104	GLU
56	N0	106	LEU

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Mol	Chain	Res	Type
56	N0	115	ARG
56	N0	117	ARG
56	N0	123	ILE
56	N0	129	ILE
56	N0	131	LYS
56	N0	137	ARG
56	N0	138	GLN
56	N0	145	THR
56	N0	149	LYS
56	N0	155	ARG
56	N0	156	VAL
56	N0	162	THR
56	N0	169	SER
56	N0	171	PHE
56	N0	172	TYR
57	N1	12	ARG
57	N1	25	VAL
57	N1	26	HIS
57	N1	27	LEU
57	N1	36	VAL
57	N1	43	LYS
57	N1	68	THR
57	N1	75	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	83	ARG
57	N1	87	LYS
57	N1	88	ARG
57	N1	89	LEU
57	N1	96	ILE
57	N1	103	GLN
57	N1	104	GLU
57	N1	118	GLU
57	N1	120	LYS
57	N1	124	VAL
57	N1	126	VAL
57	N1	127	GLN
57	N1	128	LEU
57	N1	131	GLN
57	N1	136	ARG
57	N1	139	ARG

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Mol	Chain	Res	Type
57	N1	143	THR
57	N1	146	ASN
57	N1	149	GLN
57	N1	158	THR
57	N1	160	ILE
58	N2	10	LYS
58	N2	14	THR
58	N2	16	THR
58	N2	39	ASP
58	N2	43	VAL
58	N2	50	LEU
58	N2	52	ASN
58	N2	56	VAL
58	N2	66	VAL
58	N2	74	LYS
58	N2	82	LYS
58	N2	88	GLN
58	N2	93	ILE
58	N2	98	THR
58	N2	105	LEU
59	N3	12	ARG
59	N3	13	ILE
59	N3	32	ARG
59	N3	33	ASN
59	N3	40	LYS
59	N3	45	ARG
59	N3	48	ARG
59	N3	54	LEU
59	N3	64	LYS
59	N3	69	LEU
59	N3	72	LYS
59	N3	73	VAL
59	N3	74	MET
59	N3	83	LYS
59	N3	102	ILE
59	N3	120	LYS
59	N3	128	ARG
59	N3	135	VAL
59	N3	137	VAL
60	N4	4	GLU
60	N4	5	ILE
60	N4	19	THR

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Mol	Chain	Res	Type
60	N4	30	ARG
60	N4	39	LEU
60	N4	42	GLN
60	N4	45	ASN
60	N4	47	ARG
60	N4	54	LEU
60	N4	64	THR
61	N5	27	ARG
61	N5	37	THR
61	N5	38	LEU
61	N5	39	LYS
61	N5	48	SER
61	N5	63	ILE
61	N5	71	THR
61	N5	75	LYS
61	N5	92	LYS
61	N5	108	LEU
61	N5	111	ASN
61	N5	115	ARG
61	N5	125	ARG
61	N5	133	LEU
61	N5	135	ILE
61	N5	139	ILE
62	N6	3	LYS
62	N6	13	ARG
62	N6	37	LYS
62	N6	38	GLU
62	N6	45	ILE
62	N6	50	ILE
62	N6	51	ARG
62	N6	56	VAL
62	N6	57	LEU
62	N6	64	LYS
62	N6	66	GLN
62	N6	74	TYR
62	N6	76	LEU
62	N6	83	ASP
62	N6	88	GLU
62	N6	94	SER
62	N6	105	VAL
62	N6	111	LEU
62	N6	115	ARG

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Mol	Chain	Res	Type
62	N6	122	LYS
62	N6	125	LYS
62	N6	126	LEU
63	N7	14	VAL
63	N7	24	VAL
63	N7	25	ILE
63	N7	26	VAL
63	N7	30	ASP
63	N7	34	LYS
63	N7	46	ILE
63	N7	52	LYS
63	N7	53	VAL
63	N7	54	THR
63	N7	57	HIS
63	N7	64	LYS
63	N7	75	VAL
63	N7	83	THR
63	N7	86	THR
63	N7	87	LEU
63	N7	99	GLU
63	N7	107	ARG
63	N7	134	LEU
64	N8	3	SER
64	N8	4	ARG
64	N8	8	THR
64	N8	10	LYS
64	N8	16	SER
64	N8	19	LYS
64	N8	34	MET
64	N8	42	ARG
64	N8	43	ILE
64	N8	46	ASP
64	N8	47	LYS
64	N8	60	TYR
64	N8	65	GLN
64	N8	73	LEU
64	N8	76	ASP
64	N8	78	LEU
64	N8	85	ASP
64	N8	88	ASP
64	N8	91	LEU
64	N8	98	THR

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Mol	Chain	Res	Type
64	N8	115	LYS
64	N8	117	ARG
64	N8	120	ASN
64	N8	130	VAL
64	N8	133	LEU
64	N8	135	GLU
64	N8	139	ARG
64	N8	146	GLU
65	N9	13	THR
65	N9	14	ARG
65	N9	18	ARG
65	N9	22	LYS
65	N9	23	LYS
65	N9	25	LYS
65	N9	38	LYS
65	N9	50	THR
65	N9	59	LYS
66	O0	10	ILE
66	O0	12	GLN
66	O0	16	LEU
66	O0	18	ILE
66	O0	22	LYS
66	O0	36	GLN
66	O0	42	ILE
66	O0	50	VAL
66	O0	54	SER
66	O0	61	MET
66	O0	66	LYS
66	O0	71	GLN
66	O0	76	GLU
66	O0	83	LYS
66	O0	84	LEU
66	O0	93	LEU
66	O0	100	ILE
66	O0	101	LEU
66	O0	102	THR
67	O1	6	ASP
67	O1	16	LEU
67	O1	26	LYS
67	O1	31	ARG
67	O1	41	LYS
67	O1	46	THR

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Mol	Chain	Res	Type
67	O1	55	LEU
67	O1	57	GLN
67	O1	64	VAL
67	O1	68	GLU
67	O1	79	ARG
67	O1	84	ASP
67	O1	86	LYS
67	O1	89	LEU
67	O1	96	VAL
67	O1	102	LYS
67	O1	104	LEU
68	O2	3	SER
68	O2	12	LYS
68	O2	19	ARG
68	O2	27	ARG
68	O2	31	ASN
68	O2	33	ARG
68	O2	34	LYS
68	O2	35	GLN
68	O2	41	VAL
68	O2	44	ARG
68	O2	51	SER
68	O2	52	GLN
68	O2	54	LYS
68	O2	61	LYS
68	O2	66	LEU
68	O2	67	SER
68	O2	73	THR
68	O2	75	LEU
68	O2	82	LEU
68	O2	84	THR
68	O2	91	THR
68	O2	109	LEU
68	O2	111	ARG
68	O2	118	LYS
68	O2	125	ARG
68	O2	126	LEU
68	O2	128	LEU
69	O3	15	SER
69	O3	21	ARG
69	O3	28	SER
69	O3	31	LYS

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Mol	Chain	Res	Type
69	O3	33	GLU
69	O3	37	THR
69	O3	49	ILE
69	O3	54	ARG
69	O3	59	VAL
69	O3	70	LYS
69	O3	80	VAL
69	O3	81	VAL
69	O3	98	VAL
69	O3	105	SER
69	O3	106	ASN
70	O4	8	ARG
70	O4	16	ARG
70	O4	20	ILE
70	O4	21	LYS
70	O4	24	LYS
70	O4	29	ILE
70	O4	31	ARG
70	O4	49	SER
70	O4	58	ARG
70	O4	65	VAL
70	O4	71	THR
70	O4	72	VAL
70	O4	79	SER
70	O4	80	ARG
70	O4	81	CYS
70	O4	86	LYS
70	O4	101	VAL
70	O4	102	LYS
70	O4	104	VAL
71	O5	15	GLU
71	O5	21	LEU
71	O5	22	VAL
71	O5	27	GLU
71	O5	38	ARG
71	O5	47	VAL
71	O5	48	ARG
71	O5	49	LYS
71	O5	50	SER
71	O5	62	GLN
71	O5	64	GLU
71	O5	71	LYS

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Mol	Chain	Res	Type
71	O5	73	LYS
71	O5	74	LYS
71	O5	76	GLN
71	O5	81	ARG
71	O5	89	ARG
71	O5	90	ARG
71	O5	93	THR
71	O5	96	GLU
71	O5	102	GLU
71	O5	104	GLN
71	O5	105	ARG
71	O5	107	LYS
71	O5	119	LYS
72	O6	18	THR
72	O6	21	THR
72	O6	26	ILE
72	O6	36	ARG
72	O6	42	SER
72	O6	45	ARG
72	O6	52	PRO
72	O6	57	LEU
72	O6	58	ILE
72	O6	60	LEU
72	O6	64	SER
72	O6	67	LYS
72	O6	68	ARG
72	O6	70	ARG
72	O6	72	VAL
72	O6	76	ARG
72	O6	81	THR
72	O6	84	LYS
72	O6	88	GLU
72	O6	90	MET
72	O6	98	ARG
73	O7	5	THR
73	O7	17	THR
73	O7	24	ARG
73	O7	25	ARG
73	O7	33	THR
73	O7	36	SER
73	O7	44	THR
73	O7	55	ARG

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Mol	Chain	Res	Type
73	O7	59	THR
73	O7	65	ARG
73	O7	67	LEU
73	O7	79	GLN
73	O7	80	THR
74	O8	4	GLU
74	O8	5	ILE
74	O8	6	THR
74	O8	8	ILE
74	O8	12	LEU
74	O8	13	GLU
74	O8	20	VAL
74	O8	22	THR
74	O8	31	LEU
74	O8	32	ASN
74	O8	45	VAL
74	O8	46	ARG
74	O8	53	THR
74	O8	64	LYS
74	O8	65	LEU
74	O8	68	SER
74	O8	77	ARG
74	O8	78	LEU
75	O9	4	GLN
75	O9	5	LYS
75	O9	21	ARG
75	O9	23	LEU
75	O9	28	ARG
75	O9	29	LEU
75	O9	30	ARG
75	O9	32	ASN
75	O9	42	ARG
75	O9	45	ARG
75	O9	51	ILE
76	Q0	77	ILE
76	Q0	78	ILE
76	Q0	80	PRO
76	Q0	85	LEU
76	Q0	92	ASP
76	Q0	108	THR
76	Q0	110	CYS
76	Q0	112	LYS

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Mol	Chain	Res	Type
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	117	HIS
76	Q0	127	LEU
77	Q1	2	ARG
77	Q1	10	THR
77	Q1	14	LYS
77	Q1	15	ARG
78	Q2	7	THR
78	Q2	12	CYS
78	Q2	13	LYS
78	Q2	19	LYS
78	Q2	21	THR
78	Q2	26	THR
78	Q2	35	LEU
78	Q2	47	GLN
78	Q2	55	LYS
78	Q2	61	LYS
78	Q2	71	ARG
78	Q2	75	VAL
78	Q2	76	LYS
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	88	CYS
78	Q2	92	GLU
78	Q2	93	LEU
78	Q2	97	LYS
78	Q2	100	LYS
78	Q2	104	LEU
79	Q3	11	THR
79	Q3	16	VAL
79	Q3	25	GLN
79	Q3	32	GLN
79	Q3	40	SER
79	Q3	45	LYS
79	Q3	49	ARG
79	Q3	56	THR
79	Q3	60	CYS
79	Q3	70	THR
79	Q3	84	ARG
79	Q3	91	GLU

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Mol	Chain	Res	Type
2	s0	9	LEU
2	s0	12	GLU
2	s0	18	LEU
2	s0	22	THR
2	s0	29	VAL
2	s0	30	GLN
2	s0	31	VAL
2	s0	34	GLU
2	s0	41	ARG
2	s0	43	ASP
2	s0	45	VAL
2	s0	47	VAL
2	s0	50	VAL
2	s0	59	LEU
2	s0	62	ARG
2	s0	83	GLN
2	s0	87	LEU
2	s0	96	THR
2	s0	101	ARG
2	s0	103	THR
2	s0	106	SER
2	s0	110	TYR
2	s0	112	THR
2	s0	119	ARG
2	s0	124	THR
2	s0	131	GLN
2	s0	141	ILE
2	s0	144	ILE
2	s0	154	GLU
2	s0	157	ASP
2	s0	169	SER
2	s0	172	LEU
2	s0	179	ARG
2	s0	183	ARG
2	s0	185	ARG
2	s0	189	VAL
2	s0	198	MET
2	s0	202	TYR
3	s1	21	VAL
3	s1	25	THR
3	s1	26	ARG
3	s1	47	LEU

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Mol	Chain	Res	Type
3	s1	51	SER
3	s1	55	LYS
3	s1	56	SER
3	s1	61	LEU
3	s1	62	LYS
3	s1	70	LEU
3	s1	76	SER
3	s1	77	GLU
3	s1	94	LYS
3	s1	96	LEU
3	s1	97	LEU
3	s1	105	PHE
3	s1	106	THR
3	s1	125	VAL
3	s1	126	THR
3	s1	129	THR
3	s1	137	ILE
3	s1	169	SER
3	s1	173	THR
3	s1	175	GLU
3	s1	180	THR
3	s1	181	LEU
3	s1	184	LEU
3	s1	193	ILE
3	s1	195	LYS
3	s1	197	ILE
3	s1	203	ASP
3	s1	212	VAL
3	s1	214	LYS
3	s1	215	VAL
3	s1	222	LYS
3	s1	223	PHE
3	s1	228	LEU
3	s1	231	LEU
3	s1	234	GLU
4	s2	41	LEU
4	s2	46	LYS
4	s2	53	ILE
4	s2	54	GLU
4	s2	55	GLU
4	s2	58	LEU
4	s2	69	ILE

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Mol	Chain	Res	Type
4	s2	73	LEU
4	s2	81	MET
4	s2	83	ILE
4	s2	87	GLN
4	s2	89	GLN
4	s2	90	THR
4	s2	91	ARG
4	s2	94	GLN
4	s2	95	ARG
4	s2	97	ARG
4	s2	106	ASP
4	s2	111	VAL
4	s2	113	LEU
4	s2	116	LYS
4	s2	117	THR
4	s2	130	ILE
4	s2	137	ILE
4	s2	141	ARG
4	s2	146	THR
4	s2	148	LEU
4	s2	150	GLN
4	s2	159	THR
4	s2	161	LYS
4	s2	164	SER
4	s2	166	THR
4	s2	170	ILE
4	s2	181	SER
4	s2	182	PRO
4	s2	194	GLU
4	s2	205	ARG
4	s2	206	THR
4	s2	207	LEU
4	s2	222	TYR
4	s2	224	PHE
4	s2	225	LEU
4	s2	229	LEU
4	s2	237	VAL
4	s2	240	LEU
4	s2	245	ASP
4	s2	250	GLN
5	s3	4	LEU
5	s3	9	ARG

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Mol	Chain	Res	Type
5	s3	21	LEU
5	s3	26	THR
5	s3	37	VAL
5	s3	39	VAL
5	s3	44	THR
5	s3	53	THR
5	s3	59	LEU
5	s3	61	GLU
5	s3	83	THR
5	s3	89	GLU
5	s3	90	ARG
5	s3	93	ASP
5	s3	94	ARG
5	s3	103	GLU
5	s3	111	ASN
5	s3	115	ILE
5	s3	124	ARG
5	s3	127	MET
5	s3	128	GLU
5	s3	135	GLU
5	s3	142	LEU
5	s3	143	ARG
5	s3	146	ARG
5	s3	158	ILE
5	s3	162	GLN
5	s3	164	VAL
5	s3	168	ILE
5	s3	170	THR
5	s3	181	VAL
5	s3	189	MET
5	s3	196	ARG
5	s3	202	LEU
5	s3	210	GLU
5	s3	212	LYS
5	s3	213	GLU
5	s3	218	LEU
5	s3	223	LYS
6	s4	6	LYS
6	s4	7	LYS
6	s4	9	LEU
6	s4	11	ARG
6	s4	23	LEU

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Mol	Chain	Res	Type
6	s4	24	SER
6	s4	38	LEU
6	s4	42	LEU
6	s4	48	LEU
6	s4	49	ARG
6	s4	51	ARG
6	s4	67	GLN
6	s4	70	VAL
6	s4	78	THR
6	s4	102	VAL
6	s4	105	VAL
6	s4	108	ARG
6	s4	113	ARG
6	s4	123	LEU
6	s4	129	VAL
6	s4	131	LEU
6	s4	133	LYS
6	s4	148	ARG
6	s4	159	THR
6	s4	164	LEU
6	s4	176	ASP
6	s4	180	LEU
6	s4	182	TYR
6	s4	187	ARG
6	s4	194	THR
6	s4	219	VAL
6	s4	221	ARG
6	s4	223	ASN
6	s4	226	PHE
6	s4	236	ILE
6	s4	237	SER
6	s4	248	ILE
7	s5	23	VAL
7	s5	25	LEU
7	s5	34	GLN
7	s5	38	THR
7	s5	39	GLU
7	s5	41	LYS
7	s5	43	PHE
7	s5	47	SER
7	s5	63	GLN
7	s5	64	VAL

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Mol	Chain	Res	Type
7	s5	65	ARG
7	s5	68	ILE
7	s5	76	ARG
7	s5	79	ASN
7	s5	83	ARG
7	s5	89	ILE
7	s5	92	ARG
7	s5	93	LEU
7	s5	94	THR
7	s5	107	LYS
7	s5	112	ARG
7	s5	115	LYS
7	s5	119	ASP
7	s5	124	LEU
7	s5	125	THR
7	s5	128	ASN
7	s5	143	ARG
7	s5	146	THR
7	s5	156	ARG
7	s5	157	ARG
7	s5	167	ARG
7	s5	190	ILE
7	s5	194	LEU
7	s5	203	LYS
7	s5	206	SER
7	s5	212	LYS
7	s5	213	LYS
7	s5	216	GLU
7	s5	219	ARG
7	s5	224	ASN
8	s6	6	SER
8	s6	12	SER
8	s6	15	THR
8	s6	21	GLU
8	s6	25	ARG
8	s6	30	LYS
8	s6	31	ARG
8	s6	41	VAL
8	s6	59	GLN
8	s6	67	VAL
8	s6	71	THR
8	s6	76	LEU

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Mol	Chain	Res	Type
8	s6	89	ASP
8	s6	93	LYS
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	111	LEU
8	s6	112	VAL
8	s6	121	LEU
8	s6	122	GLU
8	s6	126	ASP
8	s6	128	THR
8	s6	129	VAL
8	s6	133	LEU
8	s6	143	LYS
8	s6	151	ASP
8	s6	155	ASP
8	s6	162	VAL
8	s6	166	GLU
8	s6	170	THR
8	s6	177	ARG
8	s6	180	THR
8	s6	191	ARG
8	s6	193	LEU
8	s6	212	LEU
8	s6	215	ARG
9	s7	10	SER
9	s7	11	GLN
9	s7	14	THR
9	s7	16	LEU
9	s7	25	VAL
9	s7	33	GLU
9	s7	42	GLN
9	s7	49	ILE
9	s7	50	ASP
9	s7	67	LEU
9	s7	77	LEU
9	s7	84	LYS
9	s7	86	GLN
9	s7	96	ARG
9	s7	97	ARG
9	s7	99	LEU
9	s7	107	ARG

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Mol	Chain	Res	Type
9	s7	110	GLN
9	s7	114	ARG
9	s7	115	SER
9	s7	116	ARG
9	s7	117	THR
9	s7	118	LEU
9	s7	126	LEU
9	s7	129	LEU
9	s7	144	VAL
9	s7	149	ILE
9	s7	161	GLN
9	s7	163	ASP
9	s7	166	LEU
9	s7	185	ILE
10	s8	7	SER
10	s8	18	ARG
10	s8	29	LEU
10	s8	36	THR
10	s8	45	SER
10	s8	46	VAL
10	s8	47	ARG
10	s8	58	LEU
10	s8	61	GLU
10	s8	62	THR
10	s8	74	LYS
10	s8	76	THR
10	s8	77	ARG
10	s8	82	VAL
10	s8	89	GLU
10	s8	93	THR
10	s8	119	GLN
10	s8	120	THR
10	s8	121	LEU
10	s8	138	ASN
10	s8	151	LYS
10	s8	152	ILE
10	s8	155	SER
10	s8	183	ILE
10	s8	184	LEU
10	s8	185	GLU
11	s9	3	ARG
11	s9	7	THR

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Mol	Chain	Res	Type
11	s9	16	LYS
11	s9	28	LEU
11	s9	37	LYS
11	s9	45	ILE
11	s9	61	THR
11	s9	87	SER
11	s9	89	ASP
11	s9	93	LEU
11	s9	96	VAL
11	s9	99	LEU
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU
11	s9	111	THR
11	s9	120	LYS
11	s9	122	VAL
11	s9	126	ARG
11	s9	130	THR
11	s9	133	HIS
11	s9	134	ILE
11	s9	145	SER
11	s9	151	ASP
11	s9	154	LYS
11	s9	161	THR
11	s9	162	SER
11	s9	172	VAL
11	s9	174	ARG
11	s9	180	LYS
11	s9	182	GLU
11	s9	186	GLU
80	c0	5	LYS
80	c0	15	LEU
80	c0	27	PHE
80	c0	55	VAL
80	c0	56	LYS
80	c0	57	THR
80	c0	71	GLU
80	c0	77	ARG
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	26	LYS

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Mol	Chain	Res	Type
13	c1	32	LYS
13	c1	40	LEU
13	c1	44	THR
13	c1	56	LYS
13	c1	60	PHE
13	c1	67	ARG
13	c1	72	THR
13	c1	74	THR
13	c1	77	SER
13	c1	79	LYS
13	c1	80	MET
13	c1	83	THR
13	c1	95	PRO
13	c1	116	ARG
13	c1	129	ARG
13	c1	131	ILE
14	c2	28	LEU
14	c2	30	VAL
14	c2	36	LEU
14	c2	38	HIS
14	c2	43	ARG
14	c2	52	LEU
14	c2	58	LEU
14	c2	59	LEU
14	c2	61	VAL
14	c2	62	LEU
14	c2	66	VAL
14	c2	71	ILE
14	c2	74	LEU
14	c2	83	GLU
14	c2	85	LYS
14	c2	86	VAL
14	c2	89	ILE
14	c2	97	LEU
14	c2	103	LEU
14	c2	120	VAL
14	c2	121	VAL
14	c2	126	TRP
14	c2	132	GLU
14	c2	140	PHE
14	c2	141	SER
15	c3	6	SER

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Mol	Chain	Res	Type
15	c3	12	SER
15	c3	14	SER
15	c3	18	TYR
15	c3	20	ARG
15	c3	32	SER
15	c3	53	LEU
15	c3	58	HIS
15	c3	61	THR
15	c3	66	ILE
15	c3	70	LYS
15	c3	74	ILE
15	c3	80	LEU
15	c3	84	ILE
15	c3	88	LEU
15	c3	102	LEU
15	c3	115	LEU
15	c3	125	LEU
15	c3	127	ARG
15	c3	134	VAL
15	c3	138	ASN
15	c3	143	SER
15	c3	150	VAL
15	c3	151	ASN
16	c4	18	ARG
16	c4	20	TYR
16	c4	24	ASN
16	c4	26	THR
16	c4	28	VAL
16	c4	33	LEU
16	c4	36	LYS
16	c4	38	THR
16	c4	51	ASP
16	c4	52	ARG
16	c4	61	MET
16	c4	65	GLN
16	c4	66	ASP
16	c4	72	LYS
16	c4	81	VAL
16	c4	84	ARG
16	c4	92	LYS
16	c4	102	LEU
16	c4	107	ARG

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Mol	Chain	Res	Type
16	c4	114	ARG
16	c4	118	VAL
16	c4	119	THR
16	c4	123	SER
16	c4	129	LYS
16	c4	132	ARG
16	c4	133	ARG
16	c4	136	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	16	SER
17	c5	20	VAL
17	c5	21	ASP
17	c5	23	GLU
17	c5	24	LYS
17	c5	27	GLU
17	c5	30	THR
17	c5	31	GLU
17	c5	36	LEU
17	c5	40	ARG
17	c5	49	MET
17	c5	51	SER
17	c5	72	LYS
17	c5	77	ARG
17	c5	89	MET
17	c5	92	SER
17	c5	104	GLN
17	c5	107	ILE
17	c5	110	GLU
17	c5	112	LEU
17	c5	122	THR
17	c5	124	THR
17	c5	125	PRO
17	c5	127	ARG
18	c6	19	VAL
18	c6	23	LYS
18	c6	28	LEU
18	c6	37	THR
18	c6	43	ILE
18	c6	48	VAL
18	c6	53	LEU
18	c6	54	LEU

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Mol	Chain	Res	Type
18	c6	55	VAL
18	c6	57	LEU
18	c6	66	ARG
18	c6	68	ARG
18	c6	69	VAL
18	c6	70	THR
18	c6	81	ILE
18	c6	83	GLN
18	c6	100	GLN
18	c6	105	LEU
18	c6	110	THR
18	c6	115	THR
18	c6	117	LEU
18	c6	128	LYS
18	c6	137	ARG
19	c7	3	ARG
19	c7	5	ARG
19	c7	6	THR
19	c7	7	LYS
19	c7	8	THR
19	c7	11	ARG
19	c7	25	THR
19	c7	26	LEU
19	c7	27	ASP
19	c7	34	LEU
19	c7	45	ARG
19	c7	46	LEU
19	c7	47	ARG
19	c7	54	THR
19	c7	61	ILE
19	c7	63	LYS
19	c7	72	LYS
19	c7	73	LEU
19	c7	78	ARG
19	c7	79	GLU
19	c7	82	ASP
19	c7	85	VAL
19	c7	88	VAL
19	c7	104	ASN
19	c7	105	GLN
19	c7	113	LEU
20	c8	4	VAL

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Mol	Chain	Res	Type
20	c8	5	VAL
20	c8	6	GLN
20	c8	8	GLN
20	c8	12	GLN
20	c8	13	HIS
20	c8	15	LEU
20	c8	25	ASN
20	c8	26	ILE
20	c8	27	LYS
20	c8	28	ILE
20	c8	36	LYS
20	c8	57	ARG
20	c8	63	GLN
20	c8	69	ILE
20	c8	77	THR
20	c8	86	LEU
20	c8	94	ASP
20	c8	105	VAL
20	c8	110	ARG
20	c8	114	GLU
20	c8	116	LEU
20	c8	133	VAL
20	c8	136	GLN
20	c8	138	THR
20	c8	144	ARG
20	c8	145	ARG
21	c9	6	VAL
21	c9	25	GLN
21	c9	27	LYS
21	c9	28	LEU
21	c9	36	ILE
21	c9	41	SER
21	c9	57	ARG
21	c9	68	ARG
21	c9	71	VAL
21	c9	84	LYS
21	c9	86	ARG
21	c9	91	TYR
21	c9	110	LYS
21	c9	111	ILE
21	c9	116	ILE
21	c9	117	SER

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Mol	Chain	Res	Type
21	c9	123	ARG
21	c9	126	GLU
21	c9	132	LEU
21	c9	140	LEU
21	c9	142	GLU
21	c9	144	GLU
22	d0	13	GLU
22	d0	21	LYS
22	d0	23	ARG
22	d0	27	THR
22	d0	30	LYS
22	d0	31	VAL
22	d0	34	LEU
22	d0	36	ASN
22	d0	38	SER
22	d0	39	SER
22	d0	47	GLN
22	d0	51	VAL
22	d0	57	ARG
22	d0	60	THR
22	d0	62	VAL
22	d0	63	LEU
22	d0	67	THR
22	d0	70	THR
22	d0	72	ASN
22	d0	74	GLU
22	d0	76	SER
22	d0	77	LYS
22	d0	81	THR
22	d0	88	LYS
22	d0	89	ARG
22	d0	99	ILE
22	d0	103	ILE
22	d0	105	GLN
22	d0	107	THR
22	d0	108	ILE
22	d0	109	GLU
22	d0	113	ASP
23	d1	2	GLU
23	d1	5	LYS
23	d1	10	GLU
23	d1	11	LEU

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Mol	Chain	Res	Type
23	d1	12	TYR
23	d1	25	LYS
23	d1	32	VAL
23	d1	34	ILE
23	d1	38	LYS
23	d1	52	THR
23	d1	68	SER
23	d1	69	LEU
23	d1	78	LEU
23	d1	81	ASN
23	d1	86	SER
24	d2	6	VAL
24	d2	20	THR
24	d2	23	ARG
24	d2	24	GLN
24	d2	25	VAL
24	d2	26	LEU
24	d2	43	LYS
24	d2	56	HIS
24	d2	74	VAL
24	d2	93	LEU
24	d2	98	GLN
24	d2	103	ILE
24	d2	105	THR
24	d2	117	ARG
24	d2	121	VAL
24	d2	124	LYS
24	d2	129	VAL
25	d3	3	LYS
25	d3	9	LEU
25	d3	14	LYS
25	d3	16	ARG
25	d3	19	ARG
25	d3	23	ARG
25	d3	28	ASN
25	d3	33	LEU
25	d3	36	THR
25	d3	40	SER
25	d3	47	SER
25	d3	52	ILE
25	d3	66	SER
25	d3	73	ARG

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Mol	Chain	Res	Type
25	d3	75	GLN
25	d3	78	LYS
25	d3	82	LYS
25	d3	84	THR
25	d3	96	VAL
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	123	LYS
25	d3	131	SER
25	d3	133	LEU
25	d3	135	LEU
25	d3	139	LYS
26	d4	2	SER
26	d4	10	ARG
26	d4	13	ILE
26	d4	21	LYS
26	d4	26	ASP
26	d4	29	HIS
26	d4	43	LYS
26	d4	44	LEU
26	d4	46	GLU
26	d4	49	LYS
26	d4	55	VAL
26	d4	62	THR
26	d4	77	ASN
26	d4	88	THR
26	d4	91	LEU
26	d4	92	VAL
26	d4	98	GLU
26	d4	100	VAL
26	d4	114	ARG
26	d4	128	LYS
26	d4	133	ASN
27	d5	40	VAL
27	d5	43	ASP
27	d5	52	LYS
27	d5	53	GLU
27	d5	57	TYR
27	d5	58	ARG
27	d5	60	VAL
27	d5	68	ARG

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Mol	Chain	Res	Type
27	d5	81	ARG
27	d5	86	GLU
27	d5	90	LYS
27	d5	92	ILE
28	d6	4	LYS
28	d6	8	ASN
28	d6	10	ARG
28	d6	24	VAL
28	d6	26	CYS
28	d6	27	SER
28	d6	28	LYS
28	d6	30	ILE
28	d6	34	LYS
28	d6	39	MET
28	d6	41	ILE
28	d6	43	ASN
28	d6	53	LEU
28	d6	54	SER
28	d6	67	THR
28	d6	79	ILE
28	d6	82	ARG
28	d6	85	ARG
28	d6	89	ARG
28	d6	90	GLU
29	d7	3	LEU
29	d7	4	VAL
29	d7	11	THR
29	d7	14	SER
29	d7	34	ASP
29	d7	40	CYS
29	d7	43	ILE
29	d7	61	THR
29	d7	62	ILE
29	d7	65	THR
29	d7	72	LYS
30	d8	5	THR
30	d8	8	THR
30	d8	11	LYS
30	d8	16	LEU
30	d8	21	SER
30	d8	22	ARG
30	d8	32	PHE

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Mol	Chain	Res	Type
30	d8	33	LEU
30	d8	36	THR
30	d8	40	ILE
30	d8	52	ASP
30	d8	54	LEU
30	d8	59	SER
30	d8	62	GLU
30	d8	64	ARG
31	d9	4	GLU
31	d9	19	ARG
31	d9	20	GLN
31	d9	25	SER
31	d9	30	LEU
31	d9	36	LEU
31	d9	38	ILE
31	d9	53	ASN
31	d9	54	LYS
31	d9	56	ARG
81	e0	4	VAL
81	e0	14	VAL
81	e0	23	LYS
81	e0	24	THR
81	e0	26	LYS
81	e0	29	LYS
81	e0	36	LYS
81	e0	38	LEU
81	e0	41	THR
81	e0	42	ARG
81	e0	44	PHE
81	e0	49	LEU
81	e0	55	ARG
82	e1	80	ARG
82	e1	86	THR
82	e1	90	LYS
82	e1	97	LYS
82	e1	98	VAL
82	e1	100	LEU
82	e1	102	VAL
82	e1	106	TYR
82	e1	107	LYS
82	e1	109	ASP
82	e1	113	LYS

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Mol	Chain	Res	Type
82	e1	115	THR
82	e1	116	LYS
82	e1	118	ARG
82	e1	119	ARG
82	e1	121	CYS
82	e1	135	HIS
82	e1	140	TYR
82	e1	146	SER
82	e1	147	VAL
82	e1	150	VAL
34	sR	9	LEU
34	sR	21	THR
34	sR	23	LEU
34	sR	29	GLN
34	sR	42	LEU
34	sR	58	VAL
34	sR	66	HIS
34	sR	76	ASP
34	sR	98	GLU
34	sR	108	SER
34	sR	145	LEU
34	sR	159	ASN
34	sR	167	VAL
34	sR	184	ASN
34	sR	188	ILE
34	sR	222	LEU
34	sR	228	LYS
34	sR	232	TYR
34	sR	258	THR
34	sR	266	ASP
34	sR	275	ARG
34	sR	297	ASP
34	sR	310	ILE
35	sM	23	LYS
35	sM	27	LYS
35	sM	30	THR
35	sM	43	ASP
35	sM	48	ARG
35	sM	49	LYS
35	sM	50	ASN
35	sM	55	SER
35	sM	61	ILE

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Mol	Chain	Res	Type
35	sM	68	ARG
35	sM	71	ASN
35	sM	74	LYS
35	sM	77	THR
35	sM	82	THR
39	l2	15	ILE
39	l2	23	ARG
39	l2	32	LEU
39	l2	45	VAL
39	l2	47	GLN
39	l2	48	ILE
39	l2	61	VAL
39	l2	62	VAL
39	l2	64	ARG
39	l2	70	ARG
39	l2	74	GLU
39	l2	82	VAL
39	l2	96	LEU
39	l2	98	VAL
39	l2	101	VAL
39	l2	104	LEU
39	l2	112	ILE
39	l2	134	VAL
39	l2	137	ILE
39	l2	147	ARG
39	l2	148	VAL
39	l2	157	VAL
39	l2	165	VAL
39	l2	168	VAL
39	l2	188	LYS
39	l2	191	LEU
39	l2	193	ARG
39	l2	202	VAL
39	l2	204	MET
39	l2	227	ARG
39	l2	233	GLN
39	l2	238	ILE
39	l2	241	ARG
39	l2	243	THR
39	l2	246	LEU
39	l2	249	SER
40	l3	3	HIS

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Mol	Chain	Res	Type
40	l3	4	ARG
40	l3	5	LYS
40	l3	7	GLU
40	l3	10	ARG
40	l3	17	LEU
40	l3	19	ARG
40	l3	20	LYS
40	l3	26	ARG
40	l3	44	THR
40	l3	47	LEU
40	l3	50	LYS
40	l3	55	THR
40	l3	56	ILE
40	l3	70	ARG
40	l3	77	THR
40	l3	85	VAL
40	l3	103	THR
40	l3	111	SER
40	l3	114	VAL
40	l3	116	ARG
40	l3	128	LYS
40	l3	139	GLN
40	l3	140	ASP
40	l3	146	ARG
40	l3	150	ARG
40	l3	153	LYS
40	l3	160	VAL
40	l3	167	ARG
40	l3	169	THR
40	l3	175	LYS
40	l3	183	LEU
40	l3	188	ILE
40	l3	202	THR
40	l3	205	VAL
40	l3	208	VAL
40	l3	211	GLN
40	l3	213	GLU
40	l3	232	ARG
40	l3	235	THR
40	l3	238	LEU
40	l3	242	THR
40	l3	247	ARG

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Mol	Chain	Res	Type
40	l3	248	LYS
40	l3	252	ILE
40	l3	274	SER
40	l3	284	ARG
40	l3	303	LYS
40	l3	304	THR
40	l3	308	MET
40	l3	322	ILE
40	l3	324	VAL
40	l3	332	ARG
40	l3	333	LYS
40	l3	341	SER
40	l3	346	THR
40	l3	359	ILE
40	l3	369	ARG
40	l3	380	MET
40	l3	386	ASP
41	l4	2	SER
41	l4	8	VAL
41	l4	47	ARG
41	l4	69	ARG
41	l4	92	ASN
41	l4	93	MET
41	l4	98	ARG
41	l4	112	LYS
41	l4	120	TYR
41	l4	122	THR
41	l4	136	LEU
41	l4	138	ARG
41	l4	144	LYS
41	l4	156	LEU
41	l4	160	GLN
41	l4	170	LYS
41	l4	179	LEU
41	l4	186	LYS
41	l4	187	LEU
41	l4	203	ARG
41	l4	206	LEU
41	l4	217	LYS
41	l4	220	ARG
41	l4	221	ASN
41	l4	230	VAL

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Mol	Chain	Res	Type
41	l4	246	ARG
41	l4	252	GLU
41	l4	258	LEU
41	l4	265	GLU
41	l4	266	THR
41	l4	284	SER
41	l4	289	ILE
41	l4	291	ASN
41	l4	293	SER
41	l4	299	ILE
41	l4	300	ARG
41	l4	301	PRO
41	l4	304	GLN
41	l4	306	THR
41	l4	307	GLN
41	l4	310	THR
41	l4	313	LEU
41	l4	319	LYS
41	l4	323	VAL
41	l4	327	LEU
41	l4	333	VAL
41	l4	345	GLU
41	l4	347	THR
41	l4	349	THR
41	l4	357	GLU
41	l4	358	THR
41	l4	359	LEU
42	l5	4	GLN
42	l5	9	SER
42	l5	17	GLN
42	l5	34	LYS
42	l5	35	ARG
42	l5	48	LYS
42	l5	51	LEU
42	l5	65	ILE
42	l5	68	THR
42	l5	70	THR
42	l5	74	VAL
42	l5	85	ARG
42	l5	89	THR
42	l5	93	THR
42	l5	110	LEU

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Mol	Chain	Res	Type
42	15	112	LYS
42	15	118	THR
42	15	132	THR
42	15	135	VAL
42	15	140	ARG
42	15	146	LEU
42	15	148	ILE
42	15	151	GLN
42	15	152	ARG
42	15	154	THR
42	15	155	THR
42	15	164	LYS
42	15	177	GLU
42	15	185	PHE
42	15	187	THR
42	15	190	ILE
42	15	191	ASP
42	15	194	LEU
42	15	196	ARG
42	15	211	LEU
42	15	218	ARG
42	15	222	LEU
42	15	227	LEU
42	15	241	THR
42	15	247	ILE
42	15	254	LYS
42	15	258	LYS
42	15	259	LYS
42	15	262	LYS
42	15	268	GLU
42	15	269	SER
42	15	273	ARG
42	15	275	THR
42	15	277	LEU
43	16	8	LYS
43	16	12	SER
43	16	20	LYS
43	16	21	THR
43	16	31	ARG
43	16	35	VAL
43	16	46	ARG
43	16	50	LYS

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Mol	Chain	Res	Type
43	16	52	VAL
43	16	64	LEU
43	16	65	ILE
43	16	79	VAL
43	16	88	SER
43	16	89	THR
43	16	91	VAL
43	16	108	LYS
43	16	133	GLU
43	16	136	GLU
43	16	152	THR
43	16	155	LEU
43	16	162	SER
43	16	175	LYS
44	17	26	VAL
44	17	41	ARG
44	17	45	LEU
44	17	46	GLU
44	17	53	LYS
44	17	60	ARG
44	17	83	LEU
44	17	88	ARG
44	17	98	LYS
44	17	100	ARG
44	17	101	LYS
44	17	111	ILE
44	17	128	LYS
44	17	156	ILE
44	17	158	LYS
44	17	159	GLN
44	17	173	LEU
44	17	175	LYS
44	17	179	LEU
44	17	184	LEU
44	17	196	LYS
44	17	199	ASN
44	17	229	PHE
44	17	239	LEU
45	18	46	LEU
45	18	50	VAL
45	18	65	LEU
45	18	67	ILE

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Mol	Chain	Res	Type
45	18	68	ARG
45	18	69	LEU
45	18	71	VAL
45	18	74	THR
45	18	81	THR
45	18	111	LYS
45	18	136	LEU
45	18	149	LYS
45	18	150	LEU
45	18	153	ILE
45	18	156	ASP
45	18	160	ILE
45	18	163	VAL
45	18	164	VAL
45	18	169	LEU
45	18	172	LYS
45	18	181	LYS
45	18	183	LYS
45	18	203	VAL
45	18	208	GLU
45	18	213	LYS
45	18	214	LEU
45	18	219	ASP
45	18	230	LYS
45	18	231	LYS
45	18	241	LYS
45	18	245	LYS
45	18	248	LYS
46	19	4	ILE
46	19	5	GLN
46	19	6	THR
46	19	18	VAL
46	19	20	ILE
46	19	22	SER
46	19	31	ARG
46	19	33	THR
46	19	34	LEU
46	19	36	LYS
46	19	44	THR
46	19	48	VAL
46	19	52	LEU
46	19	55	VAL

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Mol	Chain	Res	Type
46	l9	68	LEU
46	l9	70	THR
46	l9	72	LYS
46	l9	73	SER
46	l9	80	THR
46	l9	82	VAL
46	l9	87	LYS
46	l9	92	TYR
46	l9	105	GLU
46	l9	115	ARG
46	l9	120	ASP
46	l9	132	VAL
46	l9	133	THR
46	l9	144	ILE
46	l9	146	LEU
46	l9	151	VAL
46	l9	157	ASN
46	l9	161	LEU
46	l9	162	GLN
46	l9	167	VAL
46	l9	173	ARG
46	l9	174	LYS
46	l9	177	ASP
46	l9	179	ILE
46	l9	191	LEU
47	m0	3	ARG
47	m0	21	ARG
47	m0	24	ARG
47	m0	29	SER
47	m0	36	LEU
47	m0	39	LYS
47	m0	44	ASP
47	m0	48	LEU
47	m0	52	LEU
47	m0	54	SER
47	m0	58	GLU
47	m0	63	GLU
47	m0	74	LYS
47	m0	77	THR
47	m0	87	LEU
47	m0	91	VAL
47	m0	138	VAL

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Mol	Chain	Res	Type
47	m0	139	ARG
47	m0	143	SER
47	m0	144	ASN
47	m0	145	LYS
47	m0	169	LYS
47	m0	170	LYS
47	m0	175	ASN
47	m0	177	ASP
47	m0	182	LEU
47	m0	197	VAL
47	m0	200	LEU
47	m0	211	ARG
47	m0	215	GLU
47	m0	217	PHE
48	m1	10	ARG
48	m1	11	ASP
48	m1	12	LEU
48	m1	13	LYS
48	m1	29	ARG
48	m1	34	SER
48	m1	37	LEU
48	m1	40	LEU
48	m1	44	THR
48	m1	46	VAL
48	m1	51	ARG
48	m1	54	VAL
48	m1	56	THR
48	m1	59	ILE
48	m1	71	VAL
48	m1	80	LEU
48	m1	94	ARG
48	m1	97	SER
48	m1	106	ILE
48	m1	107	ASP
48	m1	108	GLU
48	m1	112	LEU
48	m1	129	VAL
48	m1	130	VAL
48	m1	137	ARG
48	m1	140	ARG
48	m1	142	LYS
48	m1	147	THR

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Mol	Chain	Res	Type
48	m1	151	SER
48	m1	158	ASP
48	m1	159	THR
48	m1	161	SER
48	m1	166	LYS
48	m1	172	LEU
48	m1	174	LYS
49	m3	19	GLN
49	m3	54	LEU
49	m3	55	ARG
49	m3	57	VAL
49	m3	58	VAL
49	m3	69	VAL
49	m3	73	ARG
49	m3	76	THR
49	m3	85	LEU
49	m3	103	ASN
49	m3	106	GLN
49	m3	123	ILE
49	m3	124	ILE
49	m3	131	LYS
49	m3	138	VAL
49	m3	149	GLN
49	m3	150	PRO
49	m3	152	THR
49	m3	164	GLU
49	m3	165	SER
49	m3	168	ARG
49	m3	176	GLU
49	m3	183	ARG
49	m3	184	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	4	ASP
50	m4	6	ILE
50	m4	16	GLU
50	m4	20	VAL
50	m4	27	GLN
50	m4	28	SER
50	m4	31	LYS
50	m4	35	ILE
50	m4	53	VAL

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Mol	Chain	Res	Type
50	m4	58	ILE
50	m4	63	VAL
50	m4	66	THR
50	m4	72	LEU
50	m4	80	THR
50	m4	82	SER
50	m4	92	GLU
50	m4	98	SER
50	m4	107	GLU
50	m4	113	THR
50	m4	116	GLU
50	m4	124	ARG
50	m4	130	THR
50	m4	135	LEU
51	m5	5	LYS
51	m5	7	LEU
51	m5	10	LEU
51	m5	14	LYS
51	m5	15	GLN
51	m5	18	VAL
51	m5	22	LEU
51	m5	27	VAL
51	m5	36	ILE
51	m5	49	ARG
51	m5	53	TYR
51	m5	54	LYS
51	m5	71	ARG
51	m5	76	PRO
51	m5	85	THR
51	m5	92	LEU
51	m5	96	ARG
51	m5	97	SER
51	m5	105	ARG
51	m5	106	VAL
51	m5	108	ARG
51	m5	138	GLN
51	m5	153	ASP
51	m5	159	ARG
51	m5	160	GLU
51	m5	165	THR
51	m5	171	SER
51	m5	179	LYS

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Mol	Chain	Res	Type
51	m5	183	THR
51	m5	184	LYS
51	m5	190	THR
51	m5	194	GLN
51	m5	198	SER
52	m6	12	LYS
52	m6	46	GLU
52	m6	60	LYS
52	m6	66	LYS
52	m6	67	THR
52	m6	74	ARG
52	m6	78	ARG
52	m6	79	ILE
52	m6	85	ARG
52	m6	100	GLU
52	m6	106	GLU
52	m6	108	ILE
52	m6	110	PRO
52	m6	117	ARG
52	m6	122	GLN
52	m6	124	LEU
52	m6	128	ARG
52	m6	141	LEU
52	m6	151	ASP
52	m6	152	VAL
52	m6	171	LYS
52	m6	182	ASN
52	m6	184	THR
52	m6	197	LEU
53	m7	7	THR
53	m7	8	SER
53	m7	9	THR
53	m7	18	ARG
53	m7	23	ARG
53	m7	24	VAL
53	m7	31	GLU
53	m7	32	THR
53	m7	41	LEU
53	m7	46	LYS
53	m7	52	LEU
53	m7	56	ARG
53	m7	69	ARG

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Mol	Chain	Res	Type
53	m7	78	VAL
53	m7	79	THR
53	m7	89	LYS
53	m7	94	LEU
53	m7	112	LEU
53	m7	114	VAL
53	m7	119	VAL
53	m7	120	ASN
53	m7	126	ARG
53	m7	144	SER
53	m7	148	LEU
54	m8	3	ILE
54	m8	7	SER
54	m8	17	THR
54	m8	22	ASP
54	m8	24	VAL
54	m8	26	LEU
54	m8	32	LEU
54	m8	34	THR
54	m8	49	LEU
54	m8	57	ILE
54	m8	63	SER
54	m8	69	ARG
54	m8	74	GLU
54	m8	80	THR
54	m8	81	VAL
54	m8	82	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	98	LYS
54	m8	135	GLN
54	m8	165	ILE
54	m8	166	LEU
54	m8	167	SER
54	m8	170	ARG
54	m8	178	ARG
55	m9	7	GLN
55	m9	10	LEU
55	m9	17	VAL
55	m9	27	ASN
55	m9	36	ASN
55	m9	37	SER

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Mol	Chain	Res	Type
55	m9	43	LYS
55	m9	47	ASN
55	m9	49	THR
55	m9	56	THR
55	m9	63	THR
55	m9	74	ARG
55	m9	78	TYR
55	m9	92	GLN
55	m9	98	ARG
55	m9	99	LEU
55	m9	104	ARG
55	m9	116	ASP
55	m9	117	LYS
55	m9	121	HIS
55	m9	126	GLU
55	m9	146	LYS
55	m9	148	ASP
55	m9	152	GLU
55	m9	153	LYS
55	m9	156	ASN
55	m9	158	GLU
55	m9	162	ARG
55	m9	164	LEU
55	m9	165	LYS
55	m9	167	ARG
55	m9	173	ARG
56	n0	5	LYS
56	n0	13	ARG
56	n0	17	GLU
56	n0	21	GLU
56	n0	23	LYS
56	n0	32	SER
56	n0	45	LEU
56	n0	70	THR
56	n0	71	LYS
56	n0	73	LYS
56	n0	87	THR
56	n0	97	VAL
56	n0	100	VAL
56	n0	104	GLU
56	n0	105	THR
56	n0	117	ARG

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Mol	Chain	Res	Type
56	n0	119	ARG
56	n0	120	SER
56	n0	130	GLU
56	n0	136	LYS
56	n0	137	ARG
56	n0	145	THR
56	n0	148	LEU
56	n0	149	LYS
56	n0	155	ARG
56	n0	157	GLN
56	n0	162	THR
56	n0	169	SER
56	n0	172	TYR
57	n1	9	SER
57	n1	12	ARG
57	n1	25	VAL
57	n1	26	HIS
57	n1	27	LEU
57	n1	35	LYS
57	n1	43	LYS
57	n1	55	LYS
57	n1	71	SER
57	n1	80	VAL
57	n1	83	ARG
57	n1	96	ILE
57	n1	97	LYS
57	n1	102	ARG
57	n1	104	GLU
57	n1	118	GLU
57	n1	124	VAL
57	n1	126	VAL
57	n1	127	GLN
57	n1	130	ARG
57	n1	131	GLN
57	n1	139	ARG
57	n1	141	VAL
57	n1	143	THR
57	n1	144	GLU
57	n1	149	GLN
57	n1	150	THR
57	n1	154	VAL
57	n1	158	THR

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Mol	Chain	Res	Type
58	n2	14	THR
58	n2	16	THR
58	n2	21	SER
58	n2	27	VAL
58	n2	28	PHE
58	n2	37	LEU
58	n2	43	VAL
58	n2	50	LEU
58	n2	55	THR
58	n2	57	THR
58	n2	62	VAL
58	n2	68	THR
58	n2	75	TYR
58	n2	90	ARG
58	n2	96	VAL
58	n2	98	THR
58	n2	100	THR
58	n2	104	ARG
59	n3	7	GLN
59	n3	13	ILE
59	n3	15	LEU
59	n3	45	ARG
59	n3	48	ARG
59	n3	57	MET
59	n3	88	ARG
59	n3	96	GLU
59	n3	115	THR
60	n4	1	MET
60	n4	19	THR
60	n4	34	SER
60	n4	39	LEU
60	n4	43	ARG
60	n4	54	LEU
60	n4	57	LYS
60	n4	58	HIS
60	n4	63	ILE
60	n4	82	ILE
60	n4	87	LEU
60	n4	89	LEU
60	n4	97	LYS
60	n4	112	ASN
60	n4	119	GLU

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Mol	Chain	Res	Type
60	n4	127	LYS
61	n5	24	LEU
61	n5	27	ARG
61	n5	34	LEU
61	n5	37	THR
61	n5	45	LYS
61	n5	56	ARG
61	n5	57	LEU
61	n5	63	ILE
61	n5	71	THR
61	n5	73	MET
61	n5	86	VAL
61	n5	87	SER
61	n5	105	VAL
61	n5	108	LEU
61	n5	109	LYS
61	n5	115	ARG
61	n5	117	ASN
61	n5	125	ARG
61	n5	131	ASP
61	n5	135	ILE
61	n5	142	ILE
62	n6	3	LYS
62	n6	4	GLN
62	n6	9	SER
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	25	SER
62	n6	32	SER
62	n6	35	LEU
62	n6	37	LYS
62	n6	39	LEU
62	n6	40	ARG
62	n6	45	ILE
62	n6	46	LYS
62	n6	50	ILE
62	n6	51	ARG
62	n6	55	GLU
62	n6	56	VAL
62	n6	57	LEU
62	n6	63	LYS

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Mol	Chain	Res	Type
62	n6	64	LYS
62	n6	66	GLN
62	n6	74	TYR
62	n6	83	ASP
62	n6	86	THR
62	n6	88	GLU
62	n6	89	LYS
62	n6	94	SER
62	n6	95	VAL
62	n6	99	LEU
62	n6	105	VAL
62	n6	115	ARG
62	n6	122	LYS
62	n6	127	GLU
63	n7	3	LYS
63	n7	5	LEU
63	n7	14	VAL
63	n7	21	LYS
63	n7	24	VAL
63	n7	25	ILE
63	n7	34	LYS
63	n7	36	HIS
63	n7	46	ILE
63	n7	52	LYS
63	n7	65	ARG
63	n7	72	ILE
63	n7	81	LEU
63	n7	93	LYS
63	n7	95	VAL
63	n7	98	THR
63	n7	99	GLU
63	n7	102	GLU
63	n7	103	GLN
63	n7	105	SER
63	n7	106	GLN
63	n7	126	LYS
63	n7	127	ASN
63	n7	128	GLN
63	n7	134	LEU
63	n7	135	ARG
64	n8	4	ARG
64	n8	6	THR

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Mol	Chain	Res	Type
64	n8	8	THR
64	n8	10	LYS
64	n8	14	HIS
64	n8	15	VAL
64	n8	19	LYS
64	n8	42	ARG
64	n8	47	LYS
64	n8	60	TYR
64	n8	73	LEU
64	n8	76	ASP
64	n8	78	LEU
64	n8	80	THR
64	n8	82	ILE
64	n8	85	ASP
64	n8	91	LEU
64	n8	97	GLU
64	n8	98	THR
64	n8	123	VAL
64	n8	128	ARG
64	n8	133	LEU
65	n9	12	GLN
65	n9	19	ASN
65	n9	21	ILE
65	n9	42	ASN
65	n9	47	LEU
65	n9	50	THR
65	n9	58	LYS
65	n9	59	LYS
66	o0	9	SER
66	o0	10	ILE
66	o0	28	LYS
66	o0	30	THR
66	o0	32	LYS
66	o0	33	SER
66	o0	34	LEU
66	o0	41	LEU
66	o0	61	MET
66	o0	71	GLN
66	o0	81	VAL
66	o0	83	LYS
66	o0	84	LEU
66	o0	86	ARG

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Mol	Chain	Res	Type
66	o0	87	VAL
66	o0	97	ASP
66	o0	101	LEU
67	o1	6	ASP
67	o1	8	VAL
67	o1	16	LEU
67	o1	23	VAL
67	o1	26	LYS
67	o1	28	ARG
67	o1	31	ARG
67	o1	34	LYS
67	o1	44	MET
67	o1	46	THR
67	o1	48	ASP
67	o1	53	PRO
67	o1	68	GLU
67	o1	76	SER
67	o1	90	PHE
67	o1	93	VAL
67	o1	94	GLU
67	o1	97	LEU
67	o1	102	LYS
67	o1	104	LEU
67	o1	105	GLN
67	o1	106	THR
67	o1	110	GLU
68	o2	14	THR
68	o2	17	PHE
68	o2	19	ARG
68	o2	21	HIS
68	o2	24	ARG
68	o2	31	ASN
68	o2	33	ARG
68	o2	40	SER
68	o2	49	ASN
68	o2	51	SER
68	o2	61	LYS
68	o2	73	THR
68	o2	75	LEU
68	o2	82	LEU
68	o2	84	THR
68	o2	87	MET

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Mol	Chain	Res	Type
68	o2	89	THR
68	o2	115	LEU
68	o2	123	LYS
68	o2	125	ARG
69	o3	4	SER
69	o3	10	LYS
69	o3	31	LYS
69	o3	33	GLU
69	o3	37	THR
69	o3	42	GLN
69	o3	54	ARG
69	o3	57	LYS
69	o3	59	VAL
69	o3	62	SER
69	o3	74	THR
69	o3	78	SER
69	o3	81	VAL
69	o3	86	ARG
69	o3	98	VAL
69	o3	105	SER
70	o4	5	VAL
70	o4	10	ARG
70	o4	16	ARG
70	o4	20	ILE
70	o4	24	LYS
70	o4	29	ILE
70	o4	33	GLN
70	o4	40	THR
70	o4	46	ASP
70	o4	47	CYS
70	o4	58	ARG
70	o4	61	GLN
70	o4	85	VAL
70	o4	88	ARG
70	o4	98	GLN
70	o4	101	VAL
70	o4	104	VAL
71	o5	11	THR
71	o5	20	GLN
71	o5	21	LEU
71	o5	31	LEU
71	o5	38	ARG

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Mol	Chain	Res	Type
71	o5	40	SER
71	o5	45	LYS
71	o5	47	VAL
71	o5	48	ARG
71	o5	53	CYS
71	o5	62	GLN
71	o5	68	GLN
71	o5	69	LEU
71	o5	81	ARG
71	o5	85	THR
71	o5	89	ARG
71	o5	100	VAL
71	o5	101	THR
71	o5	107	LYS
71	o5	108	GLN
71	o5	113	GLN
72	o6	3	VAL
72	o6	7	ILE
72	o6	9	ILE
72	o6	12	ASN
72	o6	18	THR
72	o6	26	ILE
72	o6	29	LYS
72	o6	34	SER
72	o6	36	ARG
72	o6	37	THR
72	o6	42	SER
72	o6	43	LEU
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	60	LEU
72	o6	68	ARG
72	o6	72	VAL
72	o6	74	LYS
72	o6	76	ARG
72	o6	81	THR
72	o6	94	ILE
72	o6	98	ARG
73	o7	5	THR
73	o7	7	SER
73	o7	15	SER

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Mol	Chain	Res	Type
73	o7	17	THR
73	o7	25	ARG
73	o7	28	HIS
73	o7	33	THR
73	o7	36	SER
73	o7	44	THR
73	o7	46	SER
73	o7	55	ARG
73	o7	59	THR
73	o7	65	ARG
73	o7	67	LEU
73	o7	71	SER
73	o7	74	PHE
73	o7	82	SER
74	o8	5	ILE
74	o8	13	GLU
74	o8	20	VAL
74	o8	22	THR
74	o8	24	THR
74	o8	41	THR
74	o8	46	ARG
74	o8	53	THR
74	o8	61	LYS
74	o8	64	LYS
74	o8	65	LEU
74	o8	72	THR
75	o9	4	GLN
75	o9	5	LYS
75	o9	21	ARG
75	o9	23	LEU
75	o9	28	ARG
75	o9	29	LEU
75	o9	45	ARG
75	o9	47	THR
76	q0	85	LEU
76	q0	87	SER
76	q0	88	LYS
76	q0	91	CYS
76	q0	97	ARG
76	q0	106	ARG
76	q0	112	LYS
76	q0	113	ARG

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Mol	Chain	Res	Type
76	q0	114	LYS
76	q0	127	LEU
76	q0	128	LYS
77	q1	2	ARG
77	q1	6	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	21	ARG
78	q2	6	LYS
78	q2	7	THR
78	q2	8	ARG
78	q2	15	LYS
78	q2	16	THR
78	q2	17	CYS
78	q2	22	GLN
78	q2	38	GLN
78	q2	45	ARG
78	q2	47	GLN
78	q2	48	SER
78	q2	61	LYS
78	q2	66	LYS
78	q2	71	ARG
78	q2	73	GLU
78	q2	75	VAL
78	q2	78	LYS
78	q2	79	THR
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU
78	q2	89	LYS
78	q2	91	PHE
78	q2	93	LEU
78	q2	100	LYS
79	q3	10	ILE
79	q3	20	SER
79	q3	24	ARG
79	q3	40	SER
79	q3	42	CYS
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	57	CYS

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Mol	Chain	Res	Type
79	q3	59	CYS
79	q3	60	CYS
79	q3	70	THR
79	q3	73	THR
79	q3	79	VAL
79	q3	84	ARG
84	p0	4	ILE
84	p0	5	ARG
84	p0	25	LEU
84	p0	30	VAL
84	p0	35	SER
84	p0	43	LYS
84	p0	48	ARG
84	p0	50	VAL
84	p0	51	VAL
84	p0	52	LEU
84	p0	55	LYS
84	p0	57	THR
84	p0	66	PHE
84	p0	70	LEU
84	p0	72	ASP
84	p0	74	GLU
84	p0	76	LEU
84	p0	80	VAL
84	p0	89	THR
84	p0	93	LEU
84	p0	97	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (46) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	163	ASN
5	S3	179	GLN
7	S5	103	ASN
10	S8	138	ASN
12	C0	12	HIS
18	C6	83	GLN
20	C8	99	HIS
23	D1	75	ASN
24	D2	56	HIS
27	D5	95	HIS
35	SM	86	ASN

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Mol	Chain	Res	Type
39	L2	83	HIS
39	L2	209	HIS
42	L5	40	HIS
44	L7	25	GLN
44	L7	81	HIS
44	L7	225	GLN
44	L7	244	ASN
46	L9	156	GLN
47	M0	55	ASN
47	M0	162	GLN
54	M8	152	HIS
57	N1	26	HIS
59	N3	33	ASN
59	N3	98	ASN
3	s1	149	GLN
4	s2	147	ASN
11	s9	124	HIS
80	c0	29	GLN
80	c0	32	HIS
18	c6	83	GLN
20	c8	25	ASN
20	c8	90	ASN
24	d2	24	GLN
27	d5	37	GLN
29	d7	19	HIS
82	e1	93	HIS
34	sR	184	ASN
44	l7	112	ASN
47	m0	59	GLN
47	m0	144	ASN
49	m3	25	HIS
53	m7	34	GLN
63	n7	57	HIS
64	n8	49	HIS
70	o4	18	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	0/1800	-	-
1	6	0/1800	-	-

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
36	1	0/3396	-	-
36	5	0/3396	-	-
37	3	0/121	-	-
37	7	0/121	-	-
38	4	0/158	-	-
38	8	0/158	-	-
All	All	0/10950	-	-

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 2563 ligands modelled in this entry, 1424 are monoatomic - leaving 1139 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
90	A	1	3401	-	22,24,25	0.89	1 (4%)	32,35,38	1.33	4 (12%)
88	OHX	1	3873	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3874	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3875	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3876	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3877	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	3878	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3879	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3880	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3881	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3882	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3883	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3884	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3885	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3886	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3887	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3888	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3889	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3890	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3891	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3892	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3893	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3894	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3895	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3896	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3897	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3898	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3899	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3900	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3901	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3902	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3903	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3904	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3905	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3906	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3907	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3908	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3909	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3910	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3911	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3912	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3913	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3914	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3915	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3916	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3917	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3918	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3919	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3920	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	3921	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3922	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3923	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3924	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3925	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3926	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3927	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3928	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3929	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3930	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3931	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3932	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3933	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3934	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3935	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3936	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3937	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3938	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3939	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3940	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3941	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3942	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3943	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3944	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3945	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3946	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3947	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3948	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3949	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3950	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3951	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3952	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3953	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3954	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3955	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3956	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3957	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3958	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3959	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3960	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3961	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3962	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3963	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	3964	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3965	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3966	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3967	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3968	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3969	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3970	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3971	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3972	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3973	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3974	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3975	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3976	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3977	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3978	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3979	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3980	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3981	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3982	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3983	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3984	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3985	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3986	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3987	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3988	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3989	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3990	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3991	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3992	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3993	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3994	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3995	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3996	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3997	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3998	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	3999	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4000	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4001	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4002	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4003	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4004	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4005	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4006	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	4007	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4008	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4009	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4010	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4011	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4012	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4013	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4014	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4015	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4016	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4017	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4018	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4019	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4020	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4021	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4022	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4023	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4024	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4025	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4026	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4027	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4028	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4029	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4030	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4031	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4032	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4033	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4034	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4035	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4036	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4037	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4038	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4039	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4040	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4041	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4042	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4043	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4044	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4045	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4046	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4047	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4048	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4049	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	4050	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4051	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4052	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4053	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4054	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4055	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4056	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4057	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4058	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4059	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4060	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4061	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4062	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4063	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4064	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4065	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4066	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4067	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4068	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4069	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4070	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4071	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4072	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4073	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4074	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4075	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4076	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4077	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4078	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4079	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4080	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4081	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4082	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4083	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4084	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4085	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4086	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4087	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4088	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4089	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4090	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4091	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4092	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	4093	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4094	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4095	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4096	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4097	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4098	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4099	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4100	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4101	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4102	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4103	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4104	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4105	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4106	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4107	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4108	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4109	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4110	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4111	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4112	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4113	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4114	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4115	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4116	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4117	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4118	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4119	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4120	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4121	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4122	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4123	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4124	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4125	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4126	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4127	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4128	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4129	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4130	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4131	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4132	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4133	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4134	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4135	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	4136	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4137	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4138	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4139	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4140	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4141	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4142	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4143	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4144	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4145	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4146	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4147	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4148	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4149	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4150	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4151	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4152	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4153	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4154	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4155	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4156	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4157	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4158	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4159	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4160	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4161	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4162	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4163	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4164	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4165	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4166	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4167	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4168	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4169	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4170	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4171	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4172	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4173	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4174	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4175	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4176	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4177	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4178	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	4179	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4180	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4181	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4182	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4183	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4184	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4185	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4186	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4187	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4188	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4189	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4190	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4191	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4192	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4193	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4194	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4195	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4196	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4197	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4198	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4199	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4200	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4203	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4204	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4205	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4206	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4207	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4208	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4209	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4210	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4211	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4212	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4213	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4214	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4215	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4216	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4217	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4218	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4219	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4220	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4221	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	1	4222	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4223	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4224	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4225	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	1	4226	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2023	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2025	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2026	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2028	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2029	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2030	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2031	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2032	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2033	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2034	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2035	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2036	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2037	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2039	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2040	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2042	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2043	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2047	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2048	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2050	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2051	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2052	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2053	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2054	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2055	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2056	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2057	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2058	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2059	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2060	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	2	2061	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2062	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2063	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2064	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2065	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2066	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2067	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2068	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2069	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2070	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2071	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2072	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2073	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2074	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2075	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2076	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2077	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2078	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2079	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2080	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2081	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2082	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2083	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2084	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2085	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2086	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2087	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2088	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2089	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2090	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2091	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2092	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2093	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2094	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2095	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2096	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2097	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2098	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2099	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2100	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2101	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2102	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2103	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	2	2104	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2105	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2106	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2107	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2108	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2109	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2110	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2111	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2112	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2113	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2114	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2115	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2116	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2117	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2118	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2119	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2120	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2121	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2122	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2123	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2124	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2125	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2126	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2127	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2128	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2129	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2130	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2131	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2132	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2133	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2134	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2135	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2136	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2137	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2138	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2139	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2140	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2141	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2142	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2143	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2144	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2145	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2146	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	2	2147	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2148	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2149	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2150	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2151	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2152	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2153	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2154	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2155	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2156	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2157	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2158	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2159	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2160	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2161	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2162	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2163	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2164	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2165	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2166	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2167	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2168	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2169	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2170	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2171	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2172	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2173	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2174	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2175	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2176	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2177	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2178	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2179	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	2	2180	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	215	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	216	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	217	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	218	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	219	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	220	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	221	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	222	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	223	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	3	224	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	3	225	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	220	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	221	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	222	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	223	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	224	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	225	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	226	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	227	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	228	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	229	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	230	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	231	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	232	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	4	233	-	0,6,6	0.00	-	0,15,15	0.00	-
90	A	5	3401	-	22,24,25	0.66	0	32,35,38	0.94	1 (3%)
88	OHX	5	3901	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3902	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3903	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3904	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3905	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3906	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3907	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3908	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3909	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3910	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3911	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3912	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3913	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3914	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3915	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3916	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3917	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3918	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3919	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3920	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3921	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3922	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3923	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3924	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3925	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3926	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	3927	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3928	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3929	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3930	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3931	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3932	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3933	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3934	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3935	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3936	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3937	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3938	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3939	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3940	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3941	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3942	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3943	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3944	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3945	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3946	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3947	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3948	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3949	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3950	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3951	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3952	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3953	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3954	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3955	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3956	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3957	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3958	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3959	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3960	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3961	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3962	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3963	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3964	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3965	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3966	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3967	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3968	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3969	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	3970	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3971	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3972	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3973	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3974	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3975	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3976	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3977	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3978	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3979	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3980	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3981	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3982	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3983	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3984	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3985	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3986	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3987	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3988	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3989	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3990	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3991	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3992	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3993	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3994	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3995	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3996	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3997	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3998	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	3999	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4000	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4001	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4002	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4003	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4004	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4005	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4006	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4007	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4008	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4009	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4010	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4011	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4012	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	4013	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4014	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4015	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4016	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4017	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4018	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4019	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4020	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4021	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4022	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4023	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4024	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4025	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4026	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4027	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4028	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4029	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4030	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4031	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4032	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4033	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4034	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4035	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4036	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4037	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4038	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4039	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4040	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4041	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4042	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4043	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4044	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4045	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4046	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4047	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4048	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4049	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4050	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4051	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4052	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4053	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4054	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4055	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	4056	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4057	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4058	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4059	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4060	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4061	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4062	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4063	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4064	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4065	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4066	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4067	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4068	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4069	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4070	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4071	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4072	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4073	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4074	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4075	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4076	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4077	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4078	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4079	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4080	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4081	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4082	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4083	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4084	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4085	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4086	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4087	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4088	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4089	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4090	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4091	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4092	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4093	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4094	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4095	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4096	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4097	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4098	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	4099	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4100	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4101	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4102	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4103	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4104	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4105	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4106	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4107	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4108	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4109	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4110	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4111	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4112	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4113	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4114	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4115	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4116	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4117	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4118	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4119	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4120	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4121	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4122	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4123	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4124	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4125	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4126	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4127	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4128	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4129	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4130	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4131	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4132	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4133	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4134	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4135	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4136	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4137	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4138	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4139	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4140	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4141	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	4142	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4143	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4144	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4145	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4146	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4147	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4148	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4149	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4150	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4151	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4152	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4153	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4154	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4155	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4156	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4157	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4158	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4159	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4160	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4161	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4162	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4163	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4164	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4165	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4166	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4167	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4168	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4169	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4170	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4171	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4172	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4173	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4174	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4175	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4176	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4177	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4178	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4179	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4180	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4181	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4182	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4183	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4184	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	4185	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4186	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4187	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4188	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4189	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4190	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4191	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4192	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4193	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4194	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4195	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4196	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4197	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4198	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4199	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4200	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4203	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4204	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4205	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4206	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4207	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4208	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4209	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4210	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4211	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4212	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4213	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4214	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4215	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4216	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4217	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4218	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4219	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4220	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4221	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4222	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4223	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4224	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4225	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4226	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4227	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	5	4228	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4229	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4230	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4231	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4232	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4233	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4234	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4235	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4236	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4237	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4238	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4239	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4240	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4241	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4242	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4243	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4244	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4245	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4246	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4247	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4248	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4249	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4250	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4251	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4252	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4253	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4254	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4255	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4256	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4257	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	5	4258	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2047	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2048	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2050	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2051	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2052	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2053	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2054	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2055	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	6	2056	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2057	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2058	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2059	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2060	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2061	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2062	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2063	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2064	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2065	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2066	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2067	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2068	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2069	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2070	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2071	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2072	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2073	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2074	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2075	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2076	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2077	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2078	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2079	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2080	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2081	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2082	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2083	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2084	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2085	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2086	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2087	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2088	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2089	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2090	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2091	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2092	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2093	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2094	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2095	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2096	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2097	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2098	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	6	2099	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2100	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2101	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2102	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2103	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2104	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2105	1	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2106	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2107	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2108	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2109	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2110	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2111	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2112	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2113	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2114	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2115	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2116	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2117	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2118	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2119	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2120	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2121	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2122	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2123	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2124	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2125	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2126	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2127	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2128	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2129	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2130	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2131	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2132	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2133	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2134	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2135	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2136	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2137	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2138	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2139	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2140	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2141	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	6	2142	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2143	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2144	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2145	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2146	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2147	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2148	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2149	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2150	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2151	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2152	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2153	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2154	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2155	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2156	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2157	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2158	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2159	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2160	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2161	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2162	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2163	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2164	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2165	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2166	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2167	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2168	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2169	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2170	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2171	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2172	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2173	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2174	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2175	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2176	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2177	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2178	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2179	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2180	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2181	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2182	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2183	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2184	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	6	2185	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2186	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2187	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2188	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2189	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2190	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2191	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2192	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2193	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2194	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2195	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2196	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2197	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2198	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2199	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2200	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	6	2202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	215	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	216	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	217	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	218	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	219	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	220	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	221	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	222	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	223	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	224	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	225	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	7	226	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	217	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	218	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	219	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	220	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	221	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	222	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	223	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	224	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	225	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	226	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	227	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	228	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	8	229	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	8	230	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	C3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	C5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	C8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	D3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	D9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	L3	404	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	L3	405	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	L3	406	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	L4	402	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	M0	303	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	M5	303	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	M7	205	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	M7	206	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	M8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	M9	202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	N9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	O3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	O7	103	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	O7	104	-	0,6,6	0.00	-	0,15,15	0.00	-
91	C	Q2	502	-	19,21,22	1.18	1 (5%)	24,30,33	1.00	1 (4%)
91	C	Q2	503	-	19,21,22	0.99	1 (5%)	24,30,33	1.54	4 (16%)
88	OHX	S8	302	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	SR	401	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	c1	202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	c3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	c5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	c8	202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	d4	202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	d9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l3	404	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l3	405	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l3	406	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l4	403	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l4	404	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l5	303	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l5	304	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l5	305	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l5	306	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	l9	600	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	m0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	m0	302	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	OHX	m1	203	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	m4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	m5	306	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	m6	203	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	n3	203	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	n3	204	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	n9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	o3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	o7	502	-	0,6,6	0.00	-	0,15,15	0.00	-
91	C	q2	502	-	19,21,22	1.19	3 (15%)	24,30,33	1.00	1 (4%)
91	C	q2	503	-	19,21,22	1.31	3 (15%)	24,30,33	0.85	1 (4%)
88	OHX	q2	504	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	s1	302	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	s1	303	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	s8	304	-	0,6,6	0.00	-	0,15,15	0.00	-
88	OHX	sR	401	-	0,6,6	0.00	-	0,15,15	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
90	A	1	3401	-	-	0/8/25/26	0/3/3/3
88	OHX	1	3873	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3874	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3875	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3876	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3877	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3878	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3879	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3880	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3881	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3882	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3883	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3884	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3885	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3886	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3887	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3888	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3889	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3890	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	3891	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3892	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3893	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3894	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3895	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3896	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3897	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3898	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3899	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3900	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3901	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3902	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3903	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3904	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3905	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3906	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3907	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3908	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3909	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3910	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3911	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3912	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3913	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3914	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3915	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3916	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3917	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3918	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3919	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3920	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3921	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3922	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3923	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3924	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3925	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3926	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3927	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3928	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3929	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3930	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3931	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3932	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	3933	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3934	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3935	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3936	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3937	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3938	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3939	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3940	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3941	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3942	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3943	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3944	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3945	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3946	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3947	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3948	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3949	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3950	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3951	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3952	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3953	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3954	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3955	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3956	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3957	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3958	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3959	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3960	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3961	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3962	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3963	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3964	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3965	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3966	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3967	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3968	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3969	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3970	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3971	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3972	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3973	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3974	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	3975	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3976	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3977	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3978	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3979	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3980	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3981	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3982	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3983	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3984	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3985	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3986	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3987	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3988	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3989	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3990	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3991	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3992	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3993	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3994	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3995	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3996	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3997	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3998	-	-	0/0/0/0	0/0/0/0
88	OHX	1	3999	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4000	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4001	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4002	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4003	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4004	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4005	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4006	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4007	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4008	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4009	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4010	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4011	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4012	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4013	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4014	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4015	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4016	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	4017	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4018	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4019	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4020	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4021	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4022	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4023	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4024	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4025	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4026	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4027	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4028	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4029	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4030	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4031	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4032	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4033	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4034	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4035	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4036	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4037	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4038	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4039	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4040	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4041	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4042	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4043	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4044	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4045	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4046	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4047	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4048	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4049	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4050	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4051	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4052	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4053	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4054	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4055	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4056	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4057	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4058	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	4059	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4060	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4061	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4062	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4063	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4064	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4065	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4066	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4067	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4068	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4069	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4070	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4071	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4072	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4073	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4074	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4075	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4076	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4077	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4078	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4079	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4080	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4081	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4082	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4083	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4084	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4085	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4086	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4087	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4088	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4089	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4090	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4091	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4092	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4093	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4094	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4095	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4096	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4097	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4098	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4099	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4100	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	4101	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4102	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4103	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4104	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4105	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4106	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4107	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4108	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4109	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4110	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4111	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4112	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4113	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4114	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4115	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4116	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4117	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4118	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4119	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4120	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4121	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4122	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4123	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4124	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4125	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4126	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4127	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4128	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4129	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4130	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4131	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4132	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4133	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4134	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4135	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4136	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4137	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4138	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4139	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4140	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4141	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4142	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	4143	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4144	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4145	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4146	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4147	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4148	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4149	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4150	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4151	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4152	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4153	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4154	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4155	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4156	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4157	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4158	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4159	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4160	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4161	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4162	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4163	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4164	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4165	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4166	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4167	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4168	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4169	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4170	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4171	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4172	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4173	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4174	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4175	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4176	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4177	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4178	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4179	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4180	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4181	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4182	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4183	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4184	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	1	4185	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4186	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4187	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4188	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4189	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4190	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4191	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4192	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4193	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4194	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4195	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4196	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4197	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4198	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4199	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4200	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4201	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4202	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4203	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4204	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4205	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4206	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4207	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4208	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4209	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4210	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4211	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4212	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4213	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4214	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4215	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4216	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4217	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4218	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4219	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4220	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4221	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4222	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4223	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4224	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4225	-	-	0/0/0/0	0/0/0/0
88	OHX	1	4226	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	2	2023	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2024	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2025	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2026	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2027	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2028	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2029	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2030	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2031	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2032	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2033	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2034	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2035	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2036	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2037	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2038	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2039	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2040	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2041	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2042	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2043	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2044	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2045	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2046	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2047	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2048	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2049	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2050	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2051	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2052	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2053	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2054	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2055	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2056	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2057	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2058	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2059	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2060	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2061	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2062	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2063	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2064	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	2	2065	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2066	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2067	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2068	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2069	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2070	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2071	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2072	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2073	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2074	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2075	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2076	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2077	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2078	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2079	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2080	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2081	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2082	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2083	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2084	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2085	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2086	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2087	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2088	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2089	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2090	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2091	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2092	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2093	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2094	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2095	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2096	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2097	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2098	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2099	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2100	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2101	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2102	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2103	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2104	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2105	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2106	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	2	2107	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2108	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2109	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2110	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2111	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2112	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2113	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2114	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2115	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2116	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2117	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2118	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2119	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2120	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2121	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2122	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2123	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2124	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2125	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2126	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2127	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2128	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2129	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2130	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2131	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2132	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2133	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2134	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2135	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2136	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2137	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2138	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2139	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2140	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2141	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2142	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2143	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2144	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2145	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2146	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2147	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2148	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	2	2149	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2150	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2151	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2152	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2153	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2154	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2155	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2156	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2157	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2158	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2159	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2160	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2161	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2162	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2163	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2164	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2165	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2166	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2167	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2168	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2169	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2170	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2171	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2172	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2173	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2174	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2175	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2176	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2177	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2178	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2179	-	-	0/0/0/0	0/0/0/0
88	OHX	2	2180	-	-	0/0/0/0	0/0/0/0
88	OHX	3	215	-	-	0/0/0/0	0/0/0/0
88	OHX	3	216	-	-	0/0/0/0	0/0/0/0
88	OHX	3	217	-	-	0/0/0/0	0/0/0/0
88	OHX	3	218	-	-	0/0/0/0	0/0/0/0
88	OHX	3	219	-	-	0/0/0/0	0/0/0/0
88	OHX	3	220	-	-	0/0/0/0	0/0/0/0
88	OHX	3	221	-	-	0/0/0/0	0/0/0/0
88	OHX	3	222	-	-	0/0/0/0	0/0/0/0
88	OHX	3	223	-	-	0/0/0/0	0/0/0/0
88	OHX	3	224	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	3	225	-	-	0/0/0/0	0/0/0/0
88	OHX	4	220	-	-	0/0/0/0	0/0/0/0
88	OHX	4	221	-	-	0/0/0/0	0/0/0/0
88	OHX	4	222	-	-	0/0/0/0	0/0/0/0
88	OHX	4	223	-	-	0/0/0/0	0/0/0/0
88	OHX	4	224	-	-	0/0/0/0	0/0/0/0
88	OHX	4	225	-	-	0/0/0/0	0/0/0/0
88	OHX	4	226	-	-	0/0/0/0	0/0/0/0
88	OHX	4	227	-	-	0/0/0/0	0/0/0/0
88	OHX	4	228	-	-	0/0/0/0	0/0/0/0
88	OHX	4	229	-	-	0/0/0/0	0/0/0/0
88	OHX	4	230	-	-	0/0/0/0	0/0/0/0
88	OHX	4	231	-	-	0/0/0/0	0/0/0/0
88	OHX	4	232	-	-	0/0/0/0	0/0/0/0
88	OHX	4	233	-	-	0/0/0/0	0/0/0/0
90	A	5	3401	-	-	0/8/25/26	0/3/3/3
88	OHX	5	3901	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3902	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3903	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3904	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3905	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3906	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3907	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3908	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3909	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3910	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3911	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3912	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3913	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3914	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3915	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3916	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3917	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3918	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3919	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3920	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3921	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3922	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3923	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3924	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3925	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3926	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	3927	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3928	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3929	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3930	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3931	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3932	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3933	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3934	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3935	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3936	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3937	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3938	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3939	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3940	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3941	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3942	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3943	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3944	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3945	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3946	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3947	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3948	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3949	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3950	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3951	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3952	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3953	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3954	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3955	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3956	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3957	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3958	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3959	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3960	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3961	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3962	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3963	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3964	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3965	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3966	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3967	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3968	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	3969	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3970	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3971	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3972	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3973	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3974	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3975	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3976	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3977	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3978	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3979	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3980	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3981	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3982	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3983	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3984	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3985	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3986	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3987	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3988	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3989	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3990	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3991	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3992	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3993	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3994	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3995	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3996	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3997	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3998	-	-	0/0/0/0	0/0/0/0
88	OHX	5	3999	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4000	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4001	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4002	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4003	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4004	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4005	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4006	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4007	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4008	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4009	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4010	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	4011	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4012	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4013	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4014	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4015	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4016	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4017	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4018	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4019	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4020	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4021	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4022	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4023	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4024	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4025	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4026	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4027	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4028	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4029	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4030	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4031	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4032	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4033	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4034	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4035	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4036	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4037	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4038	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4039	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4040	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4041	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4042	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4043	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4044	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4045	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4046	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4047	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4048	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4049	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4050	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4051	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4052	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	4053	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4054	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4055	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4056	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4057	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4058	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4059	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4060	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4061	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4062	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4063	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4064	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4065	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4066	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4067	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4068	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4069	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4070	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4071	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4072	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4073	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4074	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4075	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4076	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4077	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4078	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4079	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4080	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4081	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4082	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4083	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4084	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4085	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4086	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4087	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4088	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4089	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4090	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4091	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4092	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4093	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4094	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	4095	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4096	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4097	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4098	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4099	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4100	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4101	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4102	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4103	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4104	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4105	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4106	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4107	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4108	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4109	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4110	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4111	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4112	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4113	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4114	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4115	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4116	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4117	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4118	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4119	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4120	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4121	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4122	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4123	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4124	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4125	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4126	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4127	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4128	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4129	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4130	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4131	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4132	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4133	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4134	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4135	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4136	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	4137	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4138	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4139	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4140	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4141	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4142	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4143	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4144	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4145	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4146	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4147	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4148	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4149	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4150	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4151	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4152	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4153	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4154	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4155	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4156	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4157	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4158	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4159	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4160	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4161	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4162	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4163	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4164	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4165	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4166	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4167	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4168	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4169	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4170	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4171	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4172	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4173	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4174	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4175	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4176	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4177	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4178	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	4179	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4180	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4181	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4182	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4183	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4184	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4185	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4186	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4187	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4188	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4189	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4190	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4191	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4192	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4193	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4194	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4195	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4196	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4197	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4198	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4199	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4200	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4201	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4202	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4203	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4204	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4205	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4206	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4207	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4208	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4209	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4210	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4211	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4212	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4213	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4214	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4215	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4216	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4217	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4218	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4219	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4220	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	5	4221	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4222	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4223	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4224	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4225	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4226	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4227	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4228	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4229	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4230	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4231	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4232	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4233	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4234	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4235	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4236	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4237	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4238	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4239	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4240	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4241	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4242	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4243	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4244	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4245	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4246	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4247	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4248	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4249	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4250	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4251	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4252	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4253	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4254	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4255	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4256	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4257	-	-	0/0/0/0	0/0/0/0
88	OHX	5	4258	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2044	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2045	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2046	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2047	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	6	2048	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2049	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2050	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2051	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2052	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2053	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2054	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2055	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2056	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2057	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2058	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2059	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2060	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2061	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2062	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2063	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2064	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2065	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2066	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2067	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2068	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2069	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2070	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2071	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2072	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2073	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2074	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2075	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2076	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2077	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2078	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2079	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2080	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2081	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2082	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2083	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2084	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2085	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2086	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2087	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2088	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2089	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	6	2090	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2091	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2092	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2093	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2094	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2095	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2096	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2097	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2098	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2099	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2100	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2101	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2102	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2103	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2104	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2105	1	-	0/0/0/0	0/0/0/0
88	OHX	6	2106	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2107	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2108	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2109	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2110	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2111	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2112	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2113	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2114	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2115	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2116	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2117	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2118	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2119	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2120	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2121	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2122	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2123	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2124	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2125	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2126	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2127	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2128	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2129	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2130	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2131	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	6	2132	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2133	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2134	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2135	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2136	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2137	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2138	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2139	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2140	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2141	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2142	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2143	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2144	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2145	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2146	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2147	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2148	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2149	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2150	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2151	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2152	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2153	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2154	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2155	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2156	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2157	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2158	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2159	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2160	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2161	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2162	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2163	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2164	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2165	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2166	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2167	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2168	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2169	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2170	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2171	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2172	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2173	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	6	2174	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2175	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2176	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2177	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2178	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2179	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2180	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2181	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2182	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2183	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2184	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2185	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2186	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2187	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2188	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2189	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2190	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2191	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2192	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2193	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2194	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2195	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2196	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2197	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2198	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2199	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2200	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2201	-	-	0/0/0/0	0/0/0/0
88	OHX	6	2202	-	-	0/0/0/0	0/0/0/0
88	OHX	7	215	-	-	0/0/0/0	0/0/0/0
88	OHX	7	216	-	-	0/0/0/0	0/0/0/0
88	OHX	7	217	-	-	0/0/0/0	0/0/0/0
88	OHX	7	218	-	-	0/0/0/0	0/0/0/0
88	OHX	7	219	-	-	0/0/0/0	0/0/0/0
88	OHX	7	220	-	-	0/0/0/0	0/0/0/0
88	OHX	7	221	-	-	0/0/0/0	0/0/0/0
88	OHX	7	222	-	-	0/0/0/0	0/0/0/0
88	OHX	7	223	-	-	0/0/0/0	0/0/0/0
88	OHX	7	224	-	-	0/0/0/0	0/0/0/0
88	OHX	7	225	-	-	0/0/0/0	0/0/0/0
88	OHX	7	226	-	-	0/0/0/0	0/0/0/0
88	OHX	8	217	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	8	218	-	-	0/0/0/0	0/0/0/0
88	OHX	8	219	-	-	0/0/0/0	0/0/0/0
88	OHX	8	220	-	-	0/0/0/0	0/0/0/0
88	OHX	8	221	-	-	0/0/0/0	0/0/0/0
88	OHX	8	222	-	-	0/0/0/0	0/0/0/0
88	OHX	8	223	-	-	0/0/0/0	0/0/0/0
88	OHX	8	224	-	-	0/0/0/0	0/0/0/0
88	OHX	8	225	-	-	0/0/0/0	0/0/0/0
88	OHX	8	226	-	-	0/0/0/0	0/0/0/0
88	OHX	8	227	-	-	0/0/0/0	0/0/0/0
88	OHX	8	228	-	-	0/0/0/0	0/0/0/0
88	OHX	8	229	-	-	0/0/0/0	0/0/0/0
88	OHX	8	230	-	-	0/0/0/0	0/0/0/0
88	OHX	C3	201	-	-	0/0/0/0	0/0/0/0
88	OHX	C5	201	-	-	0/0/0/0	0/0/0/0
88	OHX	C8	201	-	-	0/0/0/0	0/0/0/0
88	OHX	D3	202	-	-	0/0/0/0	0/0/0/0
88	OHX	D9	102	-	-	0/0/0/0	0/0/0/0
88	OHX	L3	404	-	-	0/0/0/0	0/0/0/0
88	OHX	L3	405	-	-	0/0/0/0	0/0/0/0
88	OHX	L3	406	-	-	0/0/0/0	0/0/0/0
88	OHX	L4	402	-	-	0/0/0/0	0/0/0/0
88	OHX	M0	303	-	-	0/0/0/0	0/0/0/0
88	OHX	M5	303	-	-	0/0/0/0	0/0/0/0
88	OHX	M7	205	-	-	0/0/0/0	0/0/0/0
88	OHX	M7	206	-	-	0/0/0/0	0/0/0/0
88	OHX	M8	201	-	-	0/0/0/0	0/0/0/0
88	OHX	M9	202	-	-	0/0/0/0	0/0/0/0
88	OHX	N9	101	-	-	0/0/0/0	0/0/0/0
88	OHX	O3	201	-	-	0/0/0/0	0/0/0/0
88	OHX	O7	103	-	-	0/0/0/0	0/0/0/0
88	OHX	O7	104	-	-	0/0/0/0	0/0/0/0
91	C	Q2	502	-	-	0/6/25/26	0/2/2/2
91	C	Q2	503	-	-	0/6/25/26	0/2/2/2
88	OHX	S8	302	-	-	0/0/0/0	0/0/0/0
88	OHX	SR	401	-	-	0/0/0/0	0/0/0/0
88	OHX	c1	202	-	-	0/0/0/0	0/0/0/0
88	OHX	c3	201	-	-	0/0/0/0	0/0/0/0
88	OHX	c5	201	-	-	0/0/0/0	0/0/0/0
88	OHX	c8	202	-	-	0/0/0/0	0/0/0/0
88	OHX	d4	202	-	-	0/0/0/0	0/0/0/0
88	OHX	d9	102	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	OHX	l3	404	-	-	0/0/0/0	0/0/0/0
88	OHX	l3	405	-	-	0/0/0/0	0/0/0/0
88	OHX	l3	406	-	-	0/0/0/0	0/0/0/0
88	OHX	l4	403	-	-	0/0/0/0	0/0/0/0
88	OHX	l4	404	-	-	0/0/0/0	0/0/0/0
88	OHX	l5	303	-	-	0/0/0/0	0/0/0/0
88	OHX	l5	304	-	-	0/0/0/0	0/0/0/0
88	OHX	l5	305	-	-	0/0/0/0	0/0/0/0
88	OHX	l5	306	-	-	0/0/0/0	0/0/0/0
88	OHX	l9	600	-	-	0/0/0/0	0/0/0/0
88	OHX	m0	301	-	-	0/0/0/0	0/0/0/0
88	OHX	m0	302	-	-	0/0/0/0	0/0/0/0
88	OHX	m1	203	-	-	0/0/0/0	0/0/0/0
88	OHX	m4	201	-	-	0/0/0/0	0/0/0/0
88	OHX	m5	306	-	-	0/0/0/0	0/0/0/0
88	OHX	m6	203	-	-	0/0/0/0	0/0/0/0
88	OHX	n3	203	-	-	0/0/0/0	0/0/0/0
88	OHX	n3	204	-	-	0/0/0/0	0/0/0/0
88	OHX	n9	101	-	-	0/0/0/0	0/0/0/0
88	OHX	o3	202	-	-	0/0/0/0	0/0/0/0
88	OHX	o7	502	-	-	0/0/0/0	0/0/0/0
91	C	q2	502	-	-	0/6/25/26	0/2/2/2
91	C	q2	503	-	-	0/6/25/26	0/2/2/2
88	OHX	q2	504	-	-	0/0/0/0	0/0/0/0
88	OHX	s1	302	-	-	0/0/0/0	0/0/0/0
88	OHX	s1	303	-	-	0/0/0/0	0/0/0/0
88	OHX	s8	304	-	-	0/0/0/0	0/0/0/0
88	OHX	sR	401	-	-	0/0/0/0	0/0/0/0

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
91	q2	502	C	C2-N1	3.23	1.41	1.38
91	q2	503	C	C2-N1	3.22	1.41	1.38
91	Q2	502	C	C2-N1	3.01	1.41	1.38
91	q2	503	C	O2-C2	2.72	1.25	1.21
91	Q2	503	C	O2-C2	2.55	1.25	1.21
90	1	3401	A	O5'-C5'	-2.35	1.41	1.44
91	q2	502	C	P-OP1	2.33	1.49	1.46
91	q2	503	C	O5'-C5'	-2.25	1.41	1.44
91	q2	502	C	O2-C2	2.09	1.24	1.21

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
90	1	3401	A	C8-N9-C4	-5.21	102.72	106.96
91	Q2	503	C	C6-C5-C4	4.50	119.66	117.51
91	q2	502	C	C2-N3-C4	3.28	120.38	115.65
91	Q2	502	C	C2-N3-C4	3.12	120.15	115.65
91	Q2	503	C	C6-N1-C1'	2.92	126.58	119.33
90	5	3401	A	C8-N9-C4	-2.70	104.76	106.96
91	Q2	503	C	C6-N1-C2	-2.67	116.95	121.28
91	Q2	503	C	C2-N3-C4	2.50	119.24	115.65
91	q2	503	C	C5-C4-N4	-2.38	117.08	121.30
90	1	3401	A	C4-C5-N7	2.29	111.63	109.41
90	1	3401	A	C1'-N9-C4	2.23	130.49	126.64
90	1	3401	A	N3-C4-N9	2.10	128.99	125.39

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	2	1750/1800 (97%)	-0.07	78 (4%) 32 6	41, 78, 197, 349	0
1	6	1795/1800 (99%)	-0.07	82 (4%) 31 6	32, 61, 204, 344	0
2	S0	206/251 (82%)	-0.06	2 (0%) 79 29	76, 100, 158, 210	0
2	s0	206/251 (82%)	-0.29	0 100 100	61, 79, 124, 217	0
3	S1	214/254 (84%)	0.40	11 (5%) 27 5	67, 120, 182, 222	0
3	s1	216/254 (85%)	-0.10	1 (0%) 88 46	46, 68, 110, 185	0
4	S2	217/253 (85%)	-0.22	0 100 100	54, 83, 116, 182	0
4	s2	217/253 (85%)	-0.13	5 (2%) 57 13	41, 64, 119, 179	0
5	S3	223/239 (93%)	-0.00	2 (0%) 81 32	60, 84, 140, 236	0
5	s3	223/239 (93%)	-0.08	0 100 100	45, 85, 143, 177	0
6	S4	260/260 (100%)	0.02	2 (0%) 83 35	60, 79, 120, 181	0
6	s4	260/260 (100%)	-0.21	1 (0%) 90 51	44, 62, 100, 176	0
7	S5	206/224 (91%)	-0.02	3 (1%) 70 21	65, 104, 159, 238	0
7	s5	206/224 (91%)	-0.16	0 100 100	46, 78, 134, 205	0
8	S6	226/236 (95%)	0.17	3 (1%) 74 24	50, 89, 148, 187	0
8	s6	218/236 (92%)	-0.03	3 (1%) 72 22	41, 70, 119, 221	0
9	S7	184/189 (97%)	0.09	0 100 100	69, 106, 164, 214	0
9	s7	186/189 (98%)	-0.04	1 (0%) 88 46	55, 91, 155, 206	0
10	S8	188/200 (94%)	0.01	1 (0%) 88 46	41, 62, 120, 183	0
10	s8	188/200 (94%)	-0.05	1 (0%) 88 46	31, 57, 109, 136	0
11	S9	185/196 (94%)	0.19	5 (2%) 52 11	66, 92, 140, 223	0
11	s9	185/196 (94%)	-0.12	0 100 100	49, 69, 132, 176	0
12	C0	96/105 (91%)	-0.04	0 100 100	64, 97, 146, 220	0
13	C1	155/155 (100%)	0.08	7 (4%) 32 6	41, 63, 169, 234	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	c1	146/155 (94%)	-0.13	1 (0%) 84 38	33, 51, 124, 195	0
14	C2	124/142 (87%)	0.72	9 (7%) 15 3	92, 132, 206, 244	0
14	c2	124/142 (87%)	1.46	26 (20%) 1 1	137, 181, 244, 299	0
15	C3	150/150 (100%)	-0.09	0 100 100	48, 78, 119, 191	0
15	c3	150/150 (100%)	-0.29	0 100 100	37, 60, 94, 127	0
16	C4	127/136 (93%)	0.12	2 (1%) 68 20	57, 121, 166, 204	0
16	c4	128/136 (94%)	-0.12	1 (0%) 83 35	45, 71, 97, 130	0
17	C5	124/141 (87%)	0.03	0 100 100	61, 84, 159, 203	0
17	c5	135/141 (95%)	0.18	6 (4%) 33 7	51, 85, 161, 201	0
18	C6	141/142 (99%)	-0.03	0 100 100	74, 90, 121, 198	0
18	c6	142/142 (100%)	-0.05	2 (1%) 72 22	51, 71, 116, 160	0
19	C7	120/136 (88%)	0.12	2 (1%) 67 19	68, 95, 174, 194	0
19	c7	117/136 (86%)	-0.05	0 100 100	55, 78, 134, 204	0
20	C8	145/145 (100%)	0.10	0 100 100	59, 93, 139, 156	0
20	c8	145/145 (100%)	-0.07	1 (0%) 84 38	54, 73, 119, 147	0
21	C9	143/143 (100%)	0.07	0 100 100	76, 94, 136, 178	0
21	c9	143/143 (100%)	-0.20	0 100 100	44, 66, 109, 166	0
22	D0	107/120 (89%)	0.55	7 (6%) 18 4	66, 92, 178, 217	0
22	d0	110/120 (91%)	0.50	8 (7%) 15 3	49, 86, 182, 238	0
23	D1	87/87 (100%)	-0.18	0 100 100	83, 95, 132, 169	0
23	d1	87/87 (100%)	-0.30	1 (1%) 77 27	56, 69, 102, 179	0
24	D2	129/129 (100%)	-0.13	0 100 100	58, 74, 98, 108	0
24	d2	129/129 (100%)	-0.32	0 100 100	36, 50, 70, 90	0
25	D3	144/144 (100%)	-0.14	0 100 100	37, 57, 90, 136	0
25	d3	144/144 (100%)	-0.30	0 100 100	30, 40, 69, 138	0
26	D4	134/134 (100%)	0.23	1 (0%) 84 38	56, 96, 146, 223	0
26	d4	134/134 (100%)	-0.09	0 100 100	43, 71, 118, 198	0
27	D5	70/107 (65%)	0.36	1 (1%) 72 22	89, 121, 178, 209	0
27	d5	69/107 (64%)	0.16	1 (1%) 72 22	67, 95, 152, 160	0
28	D6	97/97 (100%)	0.37	2 (2%) 60 15	58, 94, 181, 235	0
28	d6	97/97 (100%)	-0.07	0 100 100	41, 65, 113, 159	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	D7	81/81 (100%)	0.41	6 (7%) 14 3	71, 95, 164, 222	0
29	d7	81/81 (100%)	0.01	1 (1%) 75 26	50, 71, 154, 206	0
30	D8	63/66 (95%)	0.77	4 (6%) 19 4	77, 118, 179, 231	0
30	d8	63/66 (95%)	0.52	0 100 100	69, 100, 144, 166	0
31	D9	53/55 (96%)	-0.17	1 (1%) 64 18	64, 71, 100, 146	0
31	d9	53/55 (96%)	-0.01	1 (1%) 64 18	51, 64, 97, 161	0
32	E0	60/60 (100%)	0.37	2 (3%) 44 9	53, 93, 160, 200	0
33	E1	71/76 (93%)	0.61	5 (7%) 16 4	89, 119, 186, 212	0
34	SR	318/318 (100%)	0.08	2 (0%) 86 41	81, 106, 156, 226	0
34	sR	318/318 (100%)	0.08	1 (0%) 91 58	70, 99, 155, 211	0
35	SM	159/273 (58%)	0.31	11 (6%) 17 4	50, 93, 168, 196	0
35	sM	104/273 (38%)	0.40	8 (7%) 13 3	60, 105, 190, 220	0
36	1	3149/3396 (92%)	-0.27	79 (2%) 54 12	26, 44, 162, 334	0
36	5	3150/3396 (92%)	-0.29	58 (1%) 65 18	24, 42, 142, 343	0
37	3	121/121 (100%)	-0.51	0 100 100	32, 60, 82, 126	0
37	7	121/121 (100%)	-0.49	0 100 100	25, 47, 61, 125	0
38	4	158/158 (100%)	-0.41	3 (1%) 64 18	29, 47, 96, 203	0
38	8	158/158 (100%)	-0.34	3 (1%) 64 18	33, 53, 121, 197	0
39	L2	252/253 (99%)	-0.31	0 100 100	29, 42, 71, 140	0
39	l2	252/253 (99%)	-0.29	1 (0%) 90 51	24, 42, 74, 143	0
40	L3	386/386 (100%)	-0.31	1 (0%) 91 58	27, 49, 80, 169	0
40	l3	386/386 (100%)	-0.33	1 (0%) 91 58	21, 34, 60, 126	0
41	L4	361/361 (100%)	-0.32	0 100 100	24, 41, 72, 119	0
41	l4	361/361 (100%)	-0.29	0 100 100	28, 44, 75, 122	0
42	L5	296/296 (100%)	-0.14	0 100 100	42, 68, 118, 173	0
42	l5	294/296 (99%)	-0.24	2 (0%) 84 38	30, 49, 96, 193	0
43	L6	156/175 (89%)	-0.30	0 100 100	31, 43, 80, 134	0
43	l6	157/175 (89%)	-0.33	1 (0%) 86 41	31, 44, 93, 154	0
44	L7	222/243 (91%)	-0.37	0 100 100	21, 34, 79, 196	0
44	l7	223/243 (91%)	-0.39	0 100 100	22, 33, 80, 178	0
45	L8	233/255 (91%)	-0.12	1 (0%) 90 51	42, 63, 133, 225	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	l8	231/255 (90%)	0.11	7 (3%) 48 10	51, 72, 118, 185	0
46	L9	191/191 (100%)	-0.11	0 100 100	42, 58, 87, 163	0
46	l9	191/191 (100%)	-0.36	1 (0%) 88 46	26, 37, 76, 194	0
47	M0	211/220 (95%)	-0.12	1 (0%) 88 46	33, 50, 118, 262	0
47	m0	213/220 (96%)	-0.13	4 (1%) 64 18	34, 52, 102, 205	0
48	M1	169/173 (97%)	-0.08	0 100 100	49, 73, 110, 143	0
48	m1	169/173 (97%)	-0.27	0 100 100	37, 51, 84, 139	0
49	M3	193/198 (97%)	-0.20	0 100 100	26, 48, 115, 223	0
49	m3	194/198 (97%)	-0.12	0 100 100	34, 56, 114, 166	0
50	M4	136/137 (99%)	-0.24	0 100 100	35, 45, 81, 125	0
50	m4	137/137 (100%)	-0.37	0 100 100	26, 38, 75, 153	0
51	M5	203/203 (100%)	-0.38	0 100 100	27, 39, 55, 81	0
51	m5	203/203 (100%)	-0.31	0 100 100	30, 48, 63, 88	0
52	M6	197/198 (99%)	-0.34	0 100 100	26, 37, 67, 132	0
52	m6	197/198 (99%)	-0.40	0 100 100	19, 26, 65, 146	0
53	M7	183/183 (100%)	0.04	8 (4%) 33 7	27, 39, 151, 209	0
53	m7	155/183 (84%)	-0.17	0 100 100	21, 34, 61, 156	0
54	M8	185/185 (100%)	-0.34	0 100 100	27, 38, 52, 79	0
54	m8	185/185 (100%)	-0.30	0 100 100	31, 42, 60, 112	0
55	M9	188/188 (100%)	0.06	0 100 100	43, 60, 162, 210	0
55	m9	188/188 (100%)	0.01	3 (1%) 68 20	36, 51, 137, 218	0
56	N0	172/172 (100%)	-0.37	0 100 100	33, 43, 75, 150	0
56	n0	172/172 (100%)	-0.40	0 100 100	23, 33, 61, 127	0
57	N1	159/159 (100%)	-0.21	1 (0%) 86 41	29, 42, 93, 164	0
57	n1	159/159 (100%)	-0.22	0 100 100	28, 37, 91, 153	0
58	N2	100/120 (83%)	0.28	3 (3%) 48 10	62, 91, 143, 184	0
58	n2	98/120 (81%)	0.27	1 (1%) 79 29	56, 80, 117, 161	0
59	N3	136/136 (100%)	-0.24	0 100 100	29, 46, 84, 164	0
59	n3	136/136 (100%)	-0.24	0 100 100	22, 33, 68, 140	0
60	N4	98/155 (63%)	0.87	22 (22%) 1 1	39, 63, 228, 293	0
60	n4	135/155 (87%)	0.17	6 (4%) 33 7	30, 80, 169, 219	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
61	N5	121/141 (85%)	-0.14	0 100 100	39, 56, 88, 144	0
61	n5	120/141 (85%)	-0.07	1 (0%) 83 35	40, 55, 99, 123	0
62	N6	126/126 (100%)	-0.07	1 (0%) 83 35	33, 51, 82, 112	0
62	n6	126/126 (100%)	-0.09	0 100 100	41, 53, 87, 149	0
63	N7	135/135 (100%)	-0.13	0 100 100	55, 74, 112, 152	0
63	n7	135/135 (100%)	-0.12	0 100 100	61, 85, 131, 164	0
64	N8	148/148 (100%)	-0.31	0 100 100	25, 37, 72, 164	0
64	n8	148/148 (100%)	-0.27	0 100 100	25, 44, 77, 118	0
65	N9	58/58 (100%)	-0.16	0 100 100	27, 46, 114, 158	0
65	n9	58/58 (100%)	-0.17	0 100 100	29, 50, 103, 131	0
66	O0	97/104 (93%)	-0.04	0 100 100	58, 75, 124, 140	0
66	o0	100/104 (96%)	-0.09	0 100 100	52, 72, 129, 173	0
67	O1	109/112 (97%)	-0.02	2 (1%) 65 18	31, 56, 132, 172	0
67	o1	109/112 (97%)	-0.02	0 100 100	29, 45, 118, 181	0
68	O2	127/129 (98%)	-0.19	1 (0%) 83 35	20, 34, 64, 138	0
68	o2	127/129 (98%)	-0.21	2 (1%) 68 20	19, 38, 68, 128	0
69	O3	106/106 (100%)	-0.35	0 100 100	26, 34, 62, 144	0
69	o3	106/106 (100%)	-0.24	1 (0%) 81 32	23, 31, 60, 141	0
70	O4	112/119 (94%)	-0.03	2 (1%) 65 18	41, 56, 119, 212	0
70	o4	112/119 (94%)	-0.11	0 100 100	34, 55, 108, 175	0
71	O5	119/119 (100%)	-0.17	0 100 100	36, 57, 88, 130	0
71	o5	119/119 (100%)	-0.09	1 (0%) 83 35	44, 62, 94, 134	0
72	O6	99/99 (100%)	-0.11	0 100 100	44, 57, 102, 178	0
72	o6	99/99 (100%)	-0.11	0 100 100	50, 62, 108, 159	0
73	O7	87/87 (100%)	-0.25	0 100 100	27, 38, 64, 197	0
73	o7	87/87 (100%)	-0.15	2 (2%) 57 13	29, 38, 76, 175	0
74	O8	77/77 (100%)	0.19	0 100 100	59, 82, 116, 161	0
74	o8	77/77 (100%)	0.34	0 100 100	59, 80, 129, 144	0
75	O9	50/50 (100%)	-0.26	0 100 100	40, 46, 66, 89	0
75	o9	50/50 (100%)	-0.21	0 100 100	41, 46, 71, 103	0
76	Q0	52/52 (100%)	-0.19	0 100 100	42, 51, 75, 109	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
76	q0	52/52 (100%)	-0.28	0	100	100	26, 32, 63, 145	0
77	Q1	25/25 (100%)	0.03	0	100	100	45, 49, 68, 83	0
77	q1	25/25 (100%)	-0.28	0	100	100	34, 42, 60, 73	0
78	Q2	105/105 (100%)	0.02	0	100	100	28, 45, 83, 170	0
78	q2	105/105 (100%)	-0.09	0	100	100	30, 46, 83, 174	0
79	Q3	91/91 (100%)	-0.13	0	100	100	31, 49, 85, 117	0
79	q3	91/91 (100%)	-0.36	0	100	100	24, 47, 79, 97	0
80	c0	96/105 (91%)	0.35	3 (3%)	47	10	68, 108, 166, 240	0
81	e0	62/62 (100%)	0.24	1 (1%)	68	20	53, 69, 167, 247	0
82	e1	76/76 (100%)	1.30	15 (19%)	2	1	112, 154, 206, 247	0
83	m2	0/160	-	-	-	-	-	-
84	p0	143/311 (45%)	0.26	2 (1%)	72	22	62, 102, 177, 269	0
85	p1	0/47	-	-	-	-	-	-
86	p2	0/46	-	-	-	-	-	-
All	All	33063/35344 (93%)	-0.12	562 (1%)	67	19	19, 60, 147, 349	0

All (562) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
60	N4	76	VAL	13.5
1	2	238	U	9.6
1	6	662	U	9.2
1	6	663	U	9.1
1	2	656	G	8.5
1	6	240	U	8.4
36	5	2506	U	8.3
14	c2	21	GLU	8.1
1	6	239	C	7.5
1	6	679	U	7.4
14	c2	20	ALA	7.1
60	N4	75	THR	7.1
29	D7	38	PRO	7.0
82	e1	145	HIS	7.0
1	2	1059	U	6.9
36	1	1955	U	6.8
1	2	719	U	6.7
36	5	1566	A	6.6
1	2	658	C	6.6

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Mol	Chain	Res	Type	RSRZ
36	5	1567	U	6.6
1	2	913	G	6.5
17	c5	4	ALA	6.4
82	e1	77	ALA	6.4
1	6	718	U	6.4
36	1	1568	U	6.3
1	2	194	U	6.3
1	6	656	G	6.3
1	6	666	U	6.1
1	6	664	U	6.0
1	6	678	A	6.0
36	5	1562	C	6.0
1	6	1710	U	5.9
36	5	1569	U	5.8
1	6	506	A	5.8
60	N4	86	SER	5.8
36	1	1569	U	5.6
1	6	658	C	5.6
36	5	1025	A	5.6
1	2	718	U	5.6
36	1	1762	C	5.5
1	6	1371	A	5.5
1	2	715	U	5.5
1	6	665	U	5.5
1	6	1707	A	5.5
1	2	657	U	5.4
1	2	134	U	5.4
36	1	1952	G	5.3
47	m0	111	LEU	5.2
1	6	667	U	5.2
4	s2	90	THR	5.2
82	e1	80	ARG	5.2
16	C4	15	GLY	5.2
11	S9	181	ALA	5.2
36	1	1238	C	5.1
36	1	1763	U	5.0
36	1	2539	C	5.0
1	6	1712	A	5.0
1	2	714	G	4.9
14	c2	85	LYS	4.9
40	L3	387	LEU	4.8
33	E1	85	TYR	4.8

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Mol	Chain	Res	Type	RSRZ
14	c2	23	THR	4.8
1	2	132	U	4.7
14	c2	22	VAL	4.7
1	6	1693	A	4.7
36	1	1349	G	4.7
36	1	1237	G	4.7
73	o7	88	ALA	4.7
60	n4	66	GLU	4.7
1	6	668	C	4.7
1	6	719	U	4.6
1	2	506	A	4.6
14	c2	126	TRP	4.6
1	2	491	C	4.6
1	6	1711	C	4.6
1	2	239	C	4.5
81	e0	49	LEU	4.5
1	6	493	U	4.5
3	S1	94	LYS	4.5
1	6	229	U	4.5
3	S1	20	VAL	4.5
36	1	2205	U	4.5
31	d9	4	GLU	4.5
36	5	2505	U	4.4
82	e1	85	TYR	4.4
1	6	1709	C	4.4
22	d0	98	GLN	4.4
36	5	1764	U	4.4
36	1	1240	A	4.4
33	E1	87	THR	4.4
1	6	659	C	4.3
1	2	133	U	4.3
36	1	1764	U	4.3
36	1	1567	U	4.3
53	M7	161	ALA	4.2
60	N4	84	GLY	4.2
14	c2	106	ILE	4.2
14	c2	56	GLU	4.2
36	1	1572	U	4.2
1	2	507	U	4.2
36	5	252	U	4.2
36	5	2503	G	4.2
1	6	722	G	4.1

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Mol	Chain	Res	Type	RSRZ
68	o2	128	LEU	4.1
55	m9	183	ALA	4.1
36	5	439	C	4.0
1	2	912	U	4.0
1	2	681	U	4.0
29	D7	41	LEU	4.0
36	5	1350	A	4.0
1	6	194	U	4.0
60	N4	77	LYS	4.0
53	M7	184	ALA	4.0
1	6	494	U	4.0
1	2	495	C	4.0
60	N4	67	VAL	4.0
1	6	1708	U	4.0
35	SM	88	ARG	4.0
1	2	721	U	3.9
36	1	1566	A	3.9
1	2	678	A	3.9
60	N4	88	ASP	3.9
1	2	494	U	3.9
1	6	675	U	3.9
36	5	1031	C	3.8
36	1	1263	A	3.8
1	6	1700	C	3.8
38	8	158	U	3.8
36	1	1239	C	3.8
1	2	493	U	3.8
1	2	717	C	3.8
1	2	716	C	3.8
1	6	238	U	3.7
1	2	682	C	3.7
3	S1	55	LYS	3.7
36	1	2207	A	3.7
33	E1	86	THR	3.7
1	2	725	U	3.7
1	2	1370	U	3.7
1	2	1362	U	3.7
1	2	135	A	3.7
1	2	730	G	3.7
36	1	1581	C	3.7
36	5	2539	C	3.6
36	5	1570	U	3.6

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Mol	Chain	Res	Type	RSRZ
1	6	661	A	3.6
1	6	1701	A	3.6
14	c2	124	LYS	3.6
1	6	657	U	3.6
36	5	1568	U	3.6
45	l8	120	LYS	3.6
38	4	158	U	3.6
1	6	676	G	3.5
68	O2	128	LEU	3.5
1	6	490	C	3.5
1	6	1399	C	3.5
1	6	232	U	3.5
36	1	1570	U	3.5
53	M7	164	LYS	3.5
36	5	1571	A	3.5
1	2	723	G	3.5
1	6	677	G	3.5
1	6	669	G	3.5
36	5	1016	C	3.5
11	S9	182	GLU	3.5
47	m0	103	LEU	3.5
53	M7	162	GLU	3.4
28	D6	62	TYR	3.4
1	6	721	U	3.4
1	6	241	U	3.4
42	l5	270	LYS	3.4
13	C1	152	GLN	3.4
1	6	495	C	3.4
36	1	1243	G	3.4
36	1	1351	U	3.4
10	S8	200	LYS	3.4
35	sM	83	LYS	3.4
60	N4	98	PRO	3.4
4	s2	92	ALA	3.4
60	N4	68	ALA	3.3
34	sR	121	MET	3.3
60	N4	69	LYS	3.3
22	D0	121	ASN	3.3
1	6	655	G	3.3
35	SM	84	LYS	3.3
36	5	1023	C	3.3
69	o3	60	ARG	3.3

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Mol	Chain	Res	Type	RSRZ
30	D8	14	LYS	3.3
82	e1	79	LYS	3.3
1	6	1694	A	3.3
1	2	729	G	3.3
14	C2	104	ALA	3.3
14	c2	127	GLY	3.3
82	e1	83	LYS	3.3
36	1	1953	G	3.2
36	1	3286	G	3.2
1	2	492	A	3.2
1	6	660	G	3.2
11	S9	180	LYS	3.2
36	1	1954	G	3.2
1	2	677	G	3.2
1	6	491	C	3.2
22	D0	21	LYS	3.2
36	5	1580	A	3.2
1	2	232	U	3.2
36	1	1576	G	3.2
1	6	484	C	3.2
1	2	505	A	3.2
1	2	261	U	3.2
60	N4	85	ALA	3.2
60	n4	68	ALA	3.2
82	e1	90	LYS	3.2
36	1	1815	U	3.2
1	6	1370	U	3.2
53	M7	163	LYS	3.2
35	sM	84	LYS	3.1
82	e1	78	LYS	3.1
4	s2	93	GLY	3.1
36	5	1579	C	3.1
36	1	1951	C	3.1
8	S6	154	ARG	3.1
36	5	1563	C	3.1
27	D5	88	ILE	3.1
1	2	280	U	3.1
7	S5	36	ALA	3.1
38	8	81	U	3.1
58	N2	9	GLN	3.1
36	5	2538	U	3.0
47	m0	112	GLN	3.0

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Mol	Chain	Res	Type	RSRZ
60	n4	67	VAL	3.0
36	1	2445	A	3.0
36	5	1024	G	3.0
36	1	1571	A	3.0
14	c2	30	VAL	3.0
34	SR	283	LYS	3.0
1	2	713	A	3.0
31	D9	4	GLU	3.0
36	5	3275	U	3.0
18	c6	142	TYR	3.0
36	5	1352	A	3.0
1	2	722	G	3.0
1	6	651	G	3.0
4	s2	91	ARG	3.0
36	5	1574	C	3.0
38	8	80	A	3.0
71	o5	120	ALA	3.0
36	5	1349	G	3.0
14	C2	105	LYS	3.0
1	6	1692	G	3.0
3	S1	93	GLY	3.0
14	c2	105	LYS	3.0
36	1	1352	A	2.9
22	D0	20	ILE	2.9
60	N4	65	GLU	2.9
35	SM	141	ALA	2.9
14	C2	111	ASN	2.9
36	5	1815	U	2.9
67	O1	79	ARG	2.9
1	2	193	U	2.9
28	D6	85	ARG	2.9
36	1	252	U	2.9
60	N4	74	LYS	2.9
36	1	1579	C	2.9
36	1	2502	A	2.9
22	D0	19	ILE	2.9
82	e1	143	LYS	2.9
14	c2	123	VAL	2.9
1	6	225	A	2.9
36	1	1242	G	2.9
1	6	1702	A	2.9
60	N4	87	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
1	2	241	U	2.8
1	6	226	A	2.8
36	5	2441	A	2.8
1	6	492	A	2.8
1	2	724	C	2.8
22	d0	121	ASN	2.8
7	S5	37	GLN	2.8
36	1	1255	C	2.8
35	SM	85	SER	2.8
8	S6	150	GLU	2.8
14	C2	62	LEU	2.8
30	D8	16	LEU	2.8
22	d0	93	LEU	2.8
32	E0	53	LYS	2.8
36	5	3155	U	2.8
1	6	217	A	2.8
36	5	1762	C	2.8
36	5	1576	G	2.8
29	D7	75	GLU	2.8
1	2	706	A	2.7
36	1	1252	A	2.7
36	1	1260	A	2.7
36	5	1026	A	2.7
35	SM	174	LEU	2.7
60	N4	83	THR	2.7
60	N4	73	ARG	2.7
36	5	1572	U	2.7
57	N1	121	ALA	2.7
13	c1	5	LEU	2.7
35	sM	49	LYS	2.7
36	5	2504	U	2.7
35	sM	170	LYS	2.7
36	5	443	G	2.7
33	E1	145	HIS	2.7
35	SM	87	THR	2.7
14	C2	110	ALA	2.7
36	1	1350	A	2.7
60	N4	89	LEU	2.7
36	5	2507	C	2.7
36	1	2206	G	2.7
36	5	1565	G	2.7
36	5	2442	G	2.7

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Mol	Chain	Res	Type	RSRZ
1	2	490	C	2.7
80	c0	78	GLU	2.7
60	n4	75	THR	2.7
53	M7	159	LYS	2.7
1	2	131	C	2.6
3	S1	47	LEU	2.6
1	2	237	C	2.6
1	2	726	C	2.6
6	S4	259	GLN	2.6
1	6	501	U	2.6
14	c2	25	GLU	2.6
43	l6	129	GLU	2.6
55	m9	184	LEU	2.6
36	1	1269	U	2.6
1	6	1686	C	2.6
1	2	707	A	2.6
1	6	1704	U	2.6
18	c6	143	ARG	2.6
47	m0	221	ALA	2.6
35	SM	173	GLU	2.6
82	e1	112	GLY	2.6
1	2	74	U	2.6
36	5	1763	U	2.6
1	2	709	C	2.6
36	5	251	G	2.6
5	S3	213	GLU	2.6
17	c5	5	VAL	2.6
27	d5	86	GLU	2.6
1	6	705	U	2.6
45	l8	122	LYS	2.6
82	e1	81	LYS	2.6
1	6	1690	G	2.6
3	S1	54	LEU	2.6
29	d7	38	PRO	2.6
45	l8	117	ALA	2.6
1	2	240	U	2.6
36	1	1234	G	2.5
30	D8	17	GLY	2.5
8	S6	149	LYS	2.5
1	2	720	G	2.5
36	1	1573	G	2.5
1	2	136	C	2.5

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Mol	Chain	Res	Type	RSRZ
36	1	1257	C	2.5
14	C2	108	ARG	2.5
1	6	1059	U	2.5
36	1	2501	U	2.5
36	1	2543	U	2.5
22	D0	93	LEU	2.5
36	5	1564	U	2.5
14	C2	112	ALA	2.5
1	2	708	C	2.5
13	C1	151	LYS	2.5
82	e1	125	THR	2.5
1	2	727	U	2.5
36	5	620	U	2.5
1	2	488	G	2.5
36	1	1261	G	2.5
14	c2	59	LEU	2.5
26	D4	2	SER	2.5
29	D7	40	CYS	2.5
36	1	1270	A	2.5
1	2	500	C	2.5
1	2	711	U	2.5
36	1	1094	U	2.5
60	N4	78	ALA	2.5
1	6	237	C	2.5
1	6	1703	C	2.5
19	C7	123	ASN	2.4
14	c2	107	ASP	2.4
45	l8	252	ASN	2.4
14	c2	128	ALA	2.4
60	N4	95	SER	2.4
1	6	653	C	2.4
36	1	3284	G	2.4
13	C1	147	ALA	2.4
53	M7	165	VAL	2.4
60	N4	92	GLU	2.4
62	N6	127	GLU	2.4
80	c0	98	SER	2.4
6	s4	261	LEU	2.4
8	s6	216	LEU	2.4
1	6	75	U	2.4
1	2	655	G	2.4
13	C1	145	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
22	D0	120	SER	2.4
1	2	235	G	2.4
36	1	1236	G	2.4
1	6	1691	A	2.4
36	1	3287	U	2.4
3	S1	230	ALA	2.4
3	S1	26	ARG	2.4
16	C4	41	ARG	2.4
35	sM	168	GLU	2.4
58	N2	89	LEU	2.4
1	6	1687	U	2.4
29	D7	39	GLY	2.4
36	1	545	U	2.4
36	1	1235	U	2.4
36	1	1275	C	2.4
20	c8	15	LEU	2.4
1	2	910	C	2.3
14	c2	132	GLU	2.3
6	S4	261	LEU	2.3
23	d1	42	GLU	2.3
36	5	1353	U	2.3
1	6	236	A	2.3
36	1	2208	A	2.3
1	2	696	C	2.3
35	SM	89	ARG	2.3
36	1	1256	G	2.3
82	e1	127	GLY	2.3
60	n4	70	LYS	2.3
70	O4	110	GLU	2.3
1	2	1060	U	2.3
14	c2	86	VAL	2.3
36	5	441	U	2.3
22	d0	94	GLU	2.3
58	n2	52	ASN	2.3
17	c5	134	THR	2.3
84	p0	192	ASP	2.3
14	c2	33	ARG	2.3
1	2	898	A	2.3
1	2	1371	A	2.3
35	sM	174	LEU	2.3
36	1	3167	A	2.3
36	1	1254	C	2.3

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Mol	Chain	Res	Type	RSRZ
36	1	3285	C	2.3
36	5	249	U	2.3
36	5	442	G	2.3
36	5	1351	U	2.3
14	c2	125	ASN	2.3
17	c5	135	THR	2.3
1	2	541	A	2.3
14	c2	62	LEU	2.3
55	m9	181	ARG	2.3
35	SM	19	VAL	2.3
1	6	483	A	2.3
36	5	250	U	2.3
1	6	1696	G	2.3
1	6	489	C	2.3
38	4	82	U	2.3
22	D0	94	GLU	2.3
22	d0	99	ILE	2.3
22	d0	95	ALA	2.3
33	E1	93	HIS	2.3
38	4	81	U	2.3
19	C7	86	PRO	2.3
11	S9	186	GLU	2.2
67	O1	82	GLU	2.2
1	6	230	C	2.2
1	6	794	U	2.2
1	6	1491	U	2.2
14	C2	88	LEU	2.2
73	o7	87	SER	2.2
36	1	1574	C	2.2
5	S3	218	LEU	2.2
36	1	1265	U	2.2
53	M7	160	ALA	2.2
1	6	496	G	2.2
82	e1	92	LYS	2.2
3	S1	92	GLN	2.2
36	5	1091	A	2.2
1	2	231	U	2.2
45	l8	245	LYS	2.2
45	l8	246	MET	2.2
1	2	489	C	2.2
1	2	653	C	2.2
36	1	3154	C	2.2

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Mol	Chain	Res	Type	RSRZ
7	S5	151	GLY	2.2
36	1	2404	A	2.2
82	e1	89	LYS	2.2
36	1	544	C	2.2
3	S1	45	LYS	2.2
14	c2	143	GLN	2.2
34	SR	284	ALA	2.2
36	1	439	C	2.2
45	l8	247	ASP	2.2
36	1	1095	U	2.2
8	s6	218	GLU	2.2
36	5	491	C	2.2
61	n5	23	ALA	2.2
17	c5	136	SER	2.2
47	M0	211	ARG	2.2
13	C1	146	ALA	2.2
8	s6	166	GLU	2.1
13	C1	156	PHE	2.1
70	O4	113	LYS	2.1
36	1	1761	C	2.1
1	6	1058	U	2.1
36	1	1565	G	2.1
1	2	1052	U	2.1
36	5	2097	U	2.1
3	s1	54	LEU	2.1
60	n4	69	LYS	2.1
35	SM	16	ASP	2.1
36	1	3289	G	2.1
22	d0	18	GLN	2.1
36	1	2531	C	2.1
40	l3	387	LEU	2.1
36	1	3155	U	2.1
80	c0	95	ARG	2.1
36	1	1251	A	2.1
1	2	651	G	2.1
1	6	487	G	2.1
30	D8	21	SER	2.1
11	S9	185	GLY	2.1
35	SM	18	VAL	2.1
46	l9	190	ASP	2.1
60	N4	94	ARG	2.1
84	p0	104	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
3	S1	91	VAL	2.1
45	L8	116	VAL	2.1
36	5	440	A	2.1
36	5	2443	A	2.1
1	6	652	G	2.1
1	6	1695	G	2.1
14	c2	24	ILE	2.1
1	2	731	C	2.1
36	5	734	C	2.1
29	D7	37	CYS	2.1
1	2	705	U	2.1
2	S0	28	ASN	2.1
42	l5	296	GLN	2.1
39	l2	248	GLY	2.1
58	N2	10	LYS	2.0
32	E0	55	ARG	2.0
36	1	1353	U	2.0
14	c2	84	ASN	2.0
35	sM	173	GLU	2.0
36	5	2540	A	2.0
2	S0	23	HIS	2.0
9	s7	3	ALA	2.0
14	c2	110	ALA	2.0
17	c5	133	ALA	2.0
36	1	1253	U	2.0
68	o2	127	ALA	2.0
60	N4	66	GLU	2.0
4	s2	89	GLN	2.0
36	1	1103	A	2.0
16	c4	47	LYS	2.0
36	1	1283	C	2.0
10	s8	200	LYS	2.0
35	sM	169	ALA	2.0
1	2	712	G	2.0
13	C1	4	GLU	2.0
14	C2	85	LYS	2.0
36	5	2440	G	2.0
22	d0	107	THR	2.0
36	1	1259	A	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	6	2018	1/1	0.64	537.05	88,88,88,88	0
88	OHX	1	4200	7/7	0.34	415.00	340,340,340,340	0
87	MG	1	3821	1/1	0.29	387.00	40,40,40,40	0
87	MG	3	202	1/1	0.48	359.21	58,58,58,58	0
87	MG	5	3446	1/1	0.31	321.00	31,31,31,31	0
87	MG	5	3493	1/1	0.40	248.00	34,34,34,34	0
87	MG	5	3877	1/1	0.60	225.50	35,35,35,35	0
87	MG	17	301	1/1	0.77	208.33	38,38,38,38	0
87	MG	6	2015	1/1	0.72	193.67	44,44,44,44	0
87	MG	1	3693	1/1	0.83	182.52	65,65,65,65	0
87	MG	1	3748	1/1	0.40	151.26	40,40,40,40	0
87	MG	1	3865	1/1	0.40	131.50	101,101,101,101	0
87	MG	5	3438	1/1	1.00	129.00	55,55,55,55	0
87	MG	5	3665	1/1	0.34	126.73	42,42,42,42	0
87	MG	5	3899	1/1	0.81	119.36	147,147,147,147	0
87	MG	1	3841	1/1	0.97	114.92	41,41,41,41	0
87	MG	5	3406	1/1	0.34	111.31	26,26,26,26	0
87	MG	1	3532	1/1	0.55	107.48	11,11,11,11	0
87	MG	5	3449	1/1	0.39	105.26	53,53,53,53	0
87	MG	8	215	1/1	0.55	104.20	43,43,43,43	0
87	MG	1	3765	1/1	0.55	103.45	62,62,62,62	0
87	MG	5	3736	1/1	0.39	99.69	49,49,49,49	0
87	MG	1	3551	1/1	0.53	94.50	34,34,34,34	0
87	MG	5	3559	1/1	0.78	93.54	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3566	1/1	0.60	92.31	19,19,19,19	0
87	MG	6	1928	1/1	0.69	90.50	51,51,51,51	0
87	MG	1	3819	1/1	0.38	89.80	56,56,56,56	0
87	MG	1	3743	1/1	0.36	86.60	43,43,43,43	0
87	MG	4	201	1/1	0.58	82.10	48,48,48,48	0
87	MG	5	3855	1/1	0.39	82.00	59,59,59,59	0
87	MG	1	3561	1/1	0.58	80.82	31,31,31,31	0
87	MG	4	219	1/1	0.46	76.37	201,201,201,201	0
87	MG	6	2006	1/1	0.58	76.25	41,41,41,41	0
87	MG	1	3864	1/1	0.50	75.77	28,28,28,28	0
87	MG	1	3724	1/1	0.61	74.78	41,41,41,41	0
87	MG	5	3696	1/1	0.86	73.62	54,54,54,54	0
87	MG	5	3624	1/1	0.68	73.36	41,41,41,41	0
87	MG	5	3800	1/1	0.36	73.13	79,79,79,79	0
87	MG	2	1951	1/1	0.41	73.00	50,50,50,50	0
87	MG	5	3432	1/1	0.45	72.36	49,49,49,49	0
87	MG	6	1975	1/1	0.51	69.49	47,47,47,47	0
87	MG	5	3524	1/1	0.51	68.80	30,30,30,30	0
88	OHX	1	4189	7/7	0.24	65.76	282,282,282,282	0
87	MG	6	1956	1/1	0.54	65.55	29,29,29,29	0
87	MG	1	3764	1/1	0.81	65.40	56,56,56,56	0
87	MG	5	3801	1/1	0.86	64.92	80,80,80,80	0
87	MG	5	3501	1/1	0.56	64.85	33,33,33,33	0
87	MG	5	3472	1/1	0.55	64.73	36,36,36,36	0
87	MG	1	3826	1/1	0.41	64.08	52,52,52,52	0
87	MG	1	3854	1/1	0.58	62.31	43,43,43,43	0
87	MG	2	2017	1/1	0.79	62.10	49,49,49,49	0
87	MG	5	3663	1/1	0.89	62.06	59,59,59,59	0
87	MG	5	3607	1/1	0.51	60.23	41,41,41,41	0
87	MG	5	3698	1/1	1.34	59.98	69,69,69,69	0
87	MG	5	3660	1/1	0.46	59.82	55,55,55,55	0
87	MG	5	3666	1/1	0.40	57.44	15,15,15,15	0
87	MG	2	2019	1/1	0.69	57.36	32,32,32,32	0
87	MG	6	1920	1/1	0.75	57.10	66,66,66,66	0
87	MG	5	3707	1/1	0.16	57.00	51,51,51,51	0
87	MG	5	3730	1/1	0.35	56.95	43,43,43,43	0
87	MG	1	3407	1/1	0.86	54.99	41,41,41,41	0
87	MG	1	3544	1/1	0.46	54.84	32,32,32,32	0
87	MG	2	1976	1/1	0.80	54.03	63,63,63,63	0
87	MG	5	3459	1/1	0.48	53.47	31,31,31,31	0
87	MG	1	3842	1/1	0.40	53.15	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3890	1/1	0.53	52.71	49,49,49,49	0
87	MG	5	3536	1/1	0.44	52.25	23,23,23,23	0
87	MG	1	3479	1/1	0.54	52.12	24,24,24,24	0
87	MG	8	213	1/1	0.47	51.78	30,30,30,30	0
87	MG	1	3405	1/1	0.48	51.67	39,39,39,39	0
87	MG	6	2034	1/1	0.60	51.51	47,47,47,47	0
87	MG	1	3680	1/1	0.33	50.83	30,30,30,30	0
87	MG	1	3600	1/1	0.60	49.79	11,11,11,11	0
87	MG	2	1966	1/1	0.52	49.33	44,44,44,44	0
87	MG	1	3650	1/1	0.50	48.60	36,36,36,36	0
87	MG	4	204	1/1	0.53	48.55	30,30,30,30	0
87	MG	1	3454	1/1	0.33	48.50	47,47,47,47	0
87	MG	5	3891	1/1	0.75	48.48	56,56,56,56	0
87	MG	1	3582	1/1	0.50	48.25	11,11,11,11	0
87	MG	1	3699	1/1	0.36	48.00	40,40,40,40	0
87	MG	6	1903	1/1	0.70	47.28	33,33,33,33	0
87	MG	1	3695	1/1	0.43	47.02	27,27,27,27	0
87	MG	5	3453	1/1	0.54	47.00	28,28,28,28	0
87	MG	1	3540	1/1	0.78	46.87	19,19,19,19	0
87	MG	5	3586	1/1	0.51	46.53	24,24,24,24	0
87	MG	5	3743	1/1	0.58	46.13	31,31,31,31	0
87	MG	5	3542	1/1	0.40	45.30	27,27,27,27	0
87	MG	5	3625	1/1	0.58	45.23	24,24,24,24	0
87	MG	5	3447	1/1	0.78	44.89	44,44,44,44	0
87	MG	1	3851	1/1	0.66	44.56	42,42,42,42	0
87	MG	5	3521	1/1	0.49	44.49	7,7,7,7	0
87	MG	2	1982	1/1	0.59	44.11	40,40,40,40	0
87	MG	1	3674	1/1	1.27	42.99	80,80,80,80	0
87	MG	8	205	1/1	0.42	42.97	23,23,23,23	0
87	MG	1	3602	1/1	0.56	42.52	26,26,26,26	0
87	MG	n3	201	1/1	0.45	42.11	3,3,3,3	0
87	MG	2	1959	1/1	0.56	42.10	44,44,44,44	0
87	MG	5	3724	1/1	0.47	42.07	47,47,47,47	0
87	MG	5	3796	1/1	0.59	41.58	40,40,40,40	0
87	MG	5	3505	1/1	0.40	41.19	45,45,45,45	0
87	MG	6	1938	1/1	0.48	41.16	33,33,33,33	0
87	MG	1	3460	1/1	0.61	41.11	70,70,70,70	0
87	MG	5	3437	1/1	0.48	41.06	19,19,19,19	0
87	MG	1	3558	1/1	0.56	41.04	14,14,14,14	0
87	MG	1	3424	1/1	0.50	41.00	34,34,34,34	0
87	MG	1	3403	1/1	0.42	40.99	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3478	1/1	0.31	40.97	39,39,39,39	0
87	MG	6	2031	1/1	0.48	40.96	52,52,52,52	0
87	MG	1	3578	1/1	0.41	40.52	0,0,0,0	0
87	MG	L3	403	1/1	0.88	40.43	40,40,40,40	0
87	MG	5	3876	1/1	0.57	40.40	31,31,31,31	0
87	MG	1	3564	1/1	0.44	40.23	15,15,15,15	0
87	MG	1	3672	1/1	0.67	40.08	28,28,28,28	0
87	MG	5	3443	1/1	0.36	40.00	20,20,20,20	0
87	MG	5	3601	1/1	0.47	39.87	9,9,9,9	0
87	MG	1	3830	1/1	0.41	39.84	56,56,56,56	0
87	MG	6	2009	1/1	0.34	39.26	33,33,33,33	0
87	MG	1	3867	1/1	0.59	39.26	98,98,98,98	0
87	MG	5	3816	1/1	0.33	39.12	51,51,51,51	0
87	MG	5	3672	1/1	0.42	39.06	30,30,30,30	0
87	MG	2	2011	1/1	0.58	38.85	40,40,40,40	0
87	MG	5	3737	1/1	0.32	38.09	24,24,24,24	0
87	MG	1	3772	1/1	0.33	38.00	43,43,43,43	0
87	MG	5	3581	1/1	0.67	37.96	19,19,19,19	0
87	MG	5	3574	1/1	0.45	37.93	8,8,8,8	0
87	MG	1	3504	1/1	0.74	37.77	28,28,28,28	0
87	MG	5	3485	1/1	0.36	37.62	42,42,42,42	0
87	MG	5	3534	1/1	0.49	37.40	1,1,1,1	0
87	MG	5	3481	1/1	0.33	37.36	48,48,48,48	0
87	MG	5	3825	1/1	0.45	37.14	32,32,32,32	0
87	MG	5	3626	1/1	0.49	36.81	64,64,64,64	0
87	MG	1	3730	1/1	0.76	36.35	42,42,42,42	0
87	MG	2	2002	1/1	0.80	36.35	177,177,177,177	0
87	MG	5	3741	1/1	0.29	36.32	24,24,24,24	0
87	MG	6	2038	1/1	0.52	35.80	39,39,39,39	0
87	MG	1	3707	1/1	0.59	35.24	35,35,35,35	0
87	MG	5	3869	1/1	0.29	35.22	38,38,38,38	0
87	MG	5	3545	1/1	0.42	35.18	6,6,6,6	0
87	MG	4	202	1/1	0.45	35.07	17,17,17,17	0
87	MG	5	3497	1/1	0.36	34.81	32,32,32,32	0
87	MG	5	3540	1/1	0.56	34.74	36,36,36,36	0
87	MG	4	217	1/1	0.49	34.64	35,35,35,35	0
87	MG	1	3736	1/1	0.26	34.63	65,65,65,65	0
87	MG	5	3578	1/1	0.45	34.28	6,6,6,6	0
87	MG	6	1922	1/1	0.54	34.25	28,28,28,28	0
87	MG	1	3420	1/1	0.39	34.00	35,35,35,35	0
87	MG	5	3740	1/1	0.36	34.00	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3853	1/1	0.53	33.78	47,47,47,47	0
87	MG	1	3639	1/1	0.30	33.73	26,26,26,26	0
87	MG	6	1945	1/1	0.45	33.67	16,16,16,16	0
87	MG	1	3632	1/1	0.41	33.63	76,76,76,76	0
87	MG	2	2018	1/1	0.75	33.25	46,46,46,46	0
87	MG	1	3590	1/1	0.63	33.25	28,28,28,28	0
87	MG	5	3454	1/1	0.43	33.21	17,17,17,17	0
87	MG	1	3859	1/1	0.30	33.07	31,31,31,31	0
87	MG	5	3867	1/1	0.52	32.92	29,29,29,29	0
87	MG	6	2040	1/1	0.31	32.78	51,51,51,51	0
87	MG	1	3469	1/1	0.48	32.70	33,33,33,33	0
87	MG	5	3564	1/1	0.44	32.41	10,10,10,10	0
87	MG	5	3483	1/1	0.46	32.35	37,37,37,37	0
87	MG	5	3718	1/1	0.44	32.16	73,73,73,73	0
87	MG	5	3749	1/1	0.38	31.81	47,47,47,47	0
87	MG	6	1986	1/1	0.40	31.81	45,45,45,45	0
87	MG	1	3537	1/1	0.44	31.74	8,8,8,8	0
87	MG	3	208	1/1	0.55	31.66	54,54,54,54	0
87	MG	1	3692	1/1	0.52	31.49	23,23,23,23	0
88	OHX	5	4132	7/7	0.27	31.31	195,195,195,195	0
87	MG	5	3848	1/1	0.42	31.09	59,59,59,59	0
87	MG	L7	304	1/1	0.61	30.93	44,44,44,44	0
87	MG	5	3587	1/1	0.40	30.92	10,10,10,10	0
87	MG	5	3526	1/1	0.45	30.81	27,27,27,27	0
87	MG	3	205	1/1	0.42	30.70	23,23,23,23	0
87	MG	5	3873	1/1	0.47	30.70	15,15,15,15	0
87	MG	5	3465	1/1	0.34	30.60	33,33,33,33	0
88	OHX	5	4192	7/7	0.35	30.48	301,301,301,301	0
87	MG	5	3588	1/1	0.53	30.43	18,18,18,18	0
87	MG	5	3695	1/1	0.47	30.41	56,56,56,56	0
87	MG	5	3552	1/1	0.43	30.10	11,11,11,11	0
87	MG	1	3663	1/1	0.34	30.04	39,39,39,39	0
87	MG	1	3714	1/1	0.66	29.74	52,52,52,52	0
87	MG	5	3565	1/1	0.58	29.69	9,9,9,9	0
87	MG	1	3833	1/1	0.25	29.67	47,47,47,47	0
87	MG	1	3599	1/1	0.50	29.63	3,3,3,3	0
87	MG	5	3794	1/1	0.28	29.44	45,45,45,45	0
87	MG	1	3691	1/1	0.59	29.35	42,42,42,42	0
87	MG	5	3709	1/1	0.62	29.30	45,45,45,45	0
87	MG	3	209	1/1	0.65	29.03	47,47,47,47	0
87	MG	5	3580	1/1	0.36	28.99	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	2	2009	1/1	0.46	28.91	35,35,35,35	0
87	MG	6	1994	1/1	0.36	28.42	50,50,50,50	0
87	MG	1	3802	1/1	0.34	28.40	16,16,16,16	0
87	MG	5	3701	1/1	0.37	28.32	59,59,59,59	0
87	MG	1	3586	1/1	0.38	28.31	10,10,10,10	0
87	MG	5	3612	1/1	0.33	28.30	15,15,15,15	0
87	MG	6	1959	1/1	0.38	28.28	30,30,30,30	0
87	MG	5	3541	1/1	0.27	28.14	10,10,10,10	0
87	MG	5	3410	1/1	0.30	28.09	28,28,28,28	0
87	MG	5	3499	1/1	0.31	28.04	27,27,27,27	0
87	MG	2	1905	1/1	0.70	27.96	60,60,60,60	0
87	MG	5	3886	1/1	0.41	27.95	25,25,25,25	0
87	MG	5	3456	1/1	0.37	27.95	21,21,21,21	0
87	MG	5	3589	1/1	0.53	27.77	6,6,6,6	0
87	MG	5	3715	1/1	0.49	27.73	65,65,65,65	0
87	MG	6	2029	1/1	0.66	27.67	49,49,49,49	0
87	MG	5	3820	1/1	0.56	27.58	39,39,39,39	0
87	MG	1	3611	1/1	0.48	27.57	26,26,26,26	0
87	MG	6	1946	1/1	0.45	27.53	44,44,44,44	0
87	MG	5	3572	1/1	0.46	27.47	19,19,19,19	0
87	MG	5	3735	1/1	0.36	27.34	40,40,40,40	0
87	MG	1	3591	1/1	0.48	27.04	15,15,15,15	0
87	MG	5	3489	1/1	0.67	27.00	49,49,49,49	0
87	MG	1	3471	1/1	0.41	26.93	33,33,33,33	0
87	MG	1	3482	1/1	0.39	26.90	64,64,64,64	0
87	MG	1	3771	1/1	0.49	26.73	68,68,68,68	0
87	MG	1	3526	1/1	0.33	26.66	12,12,12,12	0
87	MG	1	3645	1/1	0.25	26.48	35,35,35,35	0
87	MG	5	3832	1/1	0.34	26.33	35,35,35,35	0
88	OHX	5	4191	7/7	0.19	26.33	225,225,225,225	0
87	MG	7	208	1/1	0.72	26.21	47,47,47,47	0
87	MG	2	1957	1/1	0.47	26.20	35,35,35,35	0
87	MG	5	3780	1/1	0.40	26.14	21,21,21,21	0
87	MG	1	3465	1/1	0.19	26.00	38,38,38,38	0
87	MG	1	3793	1/1	0.28	25.96	44,44,44,44	0
87	MG	5	3466	1/1	0.45	25.95	33,33,33,33	0
87	MG	1	3698	1/1	0.47	25.94	29,29,29,29	0
87	MG	7	214	1/1	0.34	25.86	55,55,55,55	0
87	MG	1	3577	1/1	0.49	25.80	22,22,22,22	0
87	MG	2	1906	1/1	0.28	25.79	31,31,31,31	0
87	MG	1	3508	1/1	0.45	25.78	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3682	1/1	0.24	25.34	28,28,28,28	0
87	MG	8	201	1/1	0.36	25.32	54,54,54,54	0
87	MG	5	3495	1/1	0.50	25.28	29,29,29,29	0
87	MG	8	204	1/1	0.51	25.21	29,29,29,29	0
88	OHX	5	4184	7/7	0.38	25.12	295,295,295,295	0
87	MG	1	3803	1/1	0.30	25.02	54,54,54,54	0
87	MG	1	3530	1/1	0.55	24.91	25,25,25,25	0
87	MG	1	3778	1/1	0.40	24.90	47,47,47,47	0
87	MG	1	3516	1/1	0.38	24.89	22,22,22,22	0
87	MG	1	3777	1/1	0.29	24.71	40,40,40,40	0
87	MG	5	3415	1/1	0.34	24.68	11,11,11,11	0
87	MG	6	1958	1/1	0.51	24.60	31,31,31,31	0
87	MG	5	3728	1/1	0.30	24.54	9,9,9,9	0
87	MG	1	3711	1/1	0.27	24.53	47,47,47,47	0
87	MG	1	3722	1/1	0.28	24.36	38,38,38,38	0
87	MG	1	3501	1/1	0.49	24.27	54,54,54,54	0
87	MG	3	204	1/1	0.42	24.22	18,18,18,18	0
87	MG	1	3518	1/1	0.41	24.08	24,24,24,24	0
88	OHX	1	4212	7/7	0.26	24.07	364,364,364,364	0
87	MG	1	3621	1/1	0.47	24.06	35,35,35,35	0
87	MG	5	3440	1/1	0.39	24.03	21,21,21,21	0
87	MG	5	3632	1/1	0.51	24.00	60,60,60,60	0
87	MG	5	3883	1/1	0.34	23.92	21,21,21,21	0
87	MG	5	3693	1/1	0.47	23.88	35,35,35,35	0
87	MG	6	1907	1/1	0.31	23.75	35,35,35,35	0
87	MG	1	3559	1/1	0.31	23.57	7,7,7,7	0
87	MG	5	3550	1/1	0.48	23.50	39,39,39,39	0
87	MG	6	1916	1/1	0.95	23.47	38,38,38,38	0
87	MG	1	3470	1/1	0.37	23.16	36,36,36,36	0
87	MG	2	1928	1/1	0.46	23.11	53,53,53,53	0
87	MG	5	3713	1/1	0.48	23.09	62,62,62,62	0
87	MG	L2	301	1/1	0.55	23.01	41,41,41,41	0
87	MG	5	3558	1/1	0.63	23.00	32,32,32,32	0
87	MG	1	3609	1/1	0.42	23.00	30,30,30,30	0
87	MG	5	3412	1/1	0.47	22.88	20,20,20,20	0
87	MG	5	3530	1/1	0.48	22.83	17,17,17,17	0
87	MG	5	3757	1/1	0.49	22.82	37,37,37,37	0
87	MG	2	1985	1/1	0.24	22.50	53,53,53,53	0
87	MG	5	3549	1/1	0.50	22.48	27,27,27,27	0
87	MG	2	1923	1/1	0.29	22.40	31,31,31,31	0
87	MG	1	3739	1/1	0.42	22.39	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3457	1/1	0.57	22.34	28,28,28,28	0
87	MG	6	1925	1/1	0.53	22.33	20,20,20,20	0
87	MG	1	3462	1/1	0.30	22.27	3,3,3,3	0
87	MG	5	3856	1/1	0.39	22.24	30,30,30,30	0
87	MG	6	1949	1/1	0.58	22.23	35,35,35,35	0
87	MG	5	3407	1/1	0.39	22.14	12,12,12,12	0
87	MG	6	2025	1/1	0.47	22.09	43,43,43,43	0
87	MG	1	3514	1/1	0.44	22.07	9,9,9,9	0
87	MG	2	1991	1/1	0.40	21.99	42,42,42,42	0
87	MG	1	3790	1/1	0.47	21.91	48,48,48,48	0
87	MG	6	1905	1/1	0.62	21.89	37,37,37,37	0
87	MG	1	3706	1/1	0.41	21.89	55,55,55,55	0
87	MG	5	3610	1/1	0.49	21.86	45,45,45,45	0
87	MG	5	3779	1/1	0.22	21.57	31,31,31,31	0
87	MG	5	3683	1/1	0.22	21.56	21,21,21,21	0
87	MG	5	3783	1/1	0.28	21.46	55,55,55,55	0
87	MG	1	3756	1/1	0.44	21.40	44,44,44,44	0
88	OHX	5	4234	7/7	0.27	21.39	318,318,318,318	0
87	MG	5	3769	1/1	0.40	21.35	64,64,64,64	0
87	MG	6	1944	1/1	0.64	21.35	29,29,29,29	0
87	MG	1	3520	1/1	0.46	21.22	8,8,8,8	0
87	MG	5	3642	1/1	0.26	21.16	17,17,17,17	0
87	MG	1	3801	1/1	0.71	21.09	29,29,29,29	0
87	MG	5	3677	1/1	0.41	21.07	33,33,33,33	0
87	MG	1	3798	1/1	0.27	21.00	54,54,54,54	0
87	MG	1	3710	1/1	0.36	20.99	47,47,47,47	0
87	MG	5	3510	1/1	0.37	20.89	6,6,6,6	0
87	MG	1	3432	1/1	0.46	20.88	35,35,35,35	0
87	MG	2	2020	1/1	0.62	20.79	53,53,53,53	0
87	MG	5	3475	1/1	0.34	20.77	38,38,38,38	0
87	MG	5	3413	1/1	0.36	20.73	20,20,20,20	0
87	MG	6	1970	1/1	0.33	20.65	67,67,67,67	0
87	MG	2	1911	1/1	0.50	20.56	29,29,29,29	0
87	MG	1	3535	1/1	0.43	20.53	23,23,23,23	0
87	MG	5	3722	1/1	0.57	20.42	50,50,50,50	0
87	MG	5	3646	1/1	0.55	20.36	40,40,40,40	0
87	MG	5	3445	1/1	0.20	20.18	24,24,24,24	0
87	MG	1	3734	1/1	0.43	20.17	44,44,44,44	0
87	MG	5	3579	1/1	0.58	20.13	29,29,29,29	0
87	MG	5	3621	1/1	0.29	20.09	44,44,44,44	0
87	MG	5	3513	1/1	0.51	20.03	10,10,10,10	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3507	1/1	0.52	20.01	22,22,22,22	0
87	MG	1	3552	1/1	0.48	19.98	19,19,19,19	0
87	MG	6	1948	1/1	0.40	19.98	30,30,30,30	0
87	MG	1	3820	1/1	0.26	19.90	39,39,39,39	0
87	MG	5	3470	1/1	0.36	19.90	28,28,28,28	0
87	MG	5	3577	1/1	0.47	19.90	12,12,12,12	0
87	MG	M5	302	1/1	0.31	19.86	40,40,40,40	0
87	MG	5	3882	1/1	0.57	19.84	28,28,28,28	0
87	MG	5	3600	1/1	0.39	19.84	14,14,14,14	0
87	MG	5	3402	1/1	0.24	19.84	36,36,36,36	0
87	MG	5	3570	1/1	0.40	19.82	10,10,10,10	0
87	MG	5	3425	1/1	0.34	19.72	42,42,42,42	0
87	MG	5	3599	1/1	0.39	19.72	0,0,0,0	0
87	MG	1	3628	1/1	0.30	19.58	44,44,44,44	0
87	MG	6	1951	1/1	0.43	19.56	36,36,36,36	0
87	MG	7	227	1/1	0.40	19.54	36,36,36,36	0
87	MG	6	1914	1/1	0.26	19.52	7,7,7,7	0
87	MG	5	3868	1/1	0.38	19.48	42,42,42,42	0
87	MG	1	3505	1/1	0.30	19.46	0,0,0,0	0
87	MG	7	201	1/1	0.43	19.41	9,9,9,9	0
87	MG	5	3668	1/1	0.39	19.40	45,45,45,45	0
87	MG	5	3647	1/1	0.41	19.33	43,43,43,43	0
87	MG	1	3840	1/1	0.31	19.20	1,1,1,1	0
87	MG	6	1972	1/1	0.37	19.11	57,57,57,57	0
87	MG	1	3594	1/1	0.70	19.08	37,37,37,37	0
87	MG	1	3713	1/1	0.43	19.07	34,34,34,34	0
87	MG	1	3414	1/1	0.34	19.05	39,39,39,39	0
87	MG	5	3838	1/1	0.34	19.01	33,33,33,33	0
87	MG	5	3494	1/1	0.24	19.00	41,41,41,41	0
87	MG	1	3503	1/1	0.46	18.95	11,11,11,11	0
87	MG	5	3452	1/1	0.44	18.86	38,38,38,38	0
87	MG	1	3554	1/1	0.47	18.85	13,13,13,13	0
87	MG	1	3831	1/1	0.34	18.85	54,54,54,54	0
87	MG	6	2020	1/1	0.28	18.83	46,46,46,46	0
87	MG	6	2026	1/1	0.44	18.78	45,45,45,45	0
87	MG	4	213	1/1	0.20	18.75	38,38,38,38	0
87	MG	5	3674	1/1	0.26	18.72	29,29,29,29	0
87	MG	6	1921	1/1	0.43	18.55	21,21,21,21	0
87	MG	5	3458	1/1	0.33	18.54	18,18,18,18	0
87	MG	1	3511	1/1	0.34	18.51	24,24,24,24	0
87	MG	5	3755	1/1	0.39	18.50	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3498	1/1	0.25	18.47	20,20,20,20	0
87	MG	2	1941	1/1	0.32	18.28	46,46,46,46	0
87	MG	5	3419	1/1	0.57	18.27	12,12,12,12	0
87	MG	1	3495	1/1	0.28	18.20	50,50,50,50	0
87	MG	1	3565	1/1	0.41	18.20	7,7,7,7	0
87	MG	5	3467	1/1	0.42	18.02	50,50,50,50	0
87	MG	1	3619	1/1	0.54	18.01	40,40,40,40	0
87	MG	1	3500	1/1	0.46	17.97	27,27,27,27	0
87	MG	6	1963	1/1	0.53	17.94	57,57,57,57	0
87	MG	1	3694	1/1	0.30	17.86	27,27,27,27	0
87	MG	1	3572	1/1	0.30	17.85	6,6,6,6	0
87	MG	5	3651	1/1	0.34	17.85	48,48,48,48	0
87	MG	5	3590	1/1	0.32	17.82	16,16,16,16	0
87	MG	1	3780	1/1	0.36	17.77	74,74,74,74	0
87	MG	1	3434	1/1	0.41	17.77	37,37,37,37	0
87	MG	1	3555	1/1	0.57	17.67	11,11,11,11	0
87	MG	5	3684	1/1	0.48	17.67	42,42,42,42	0
87	MG	5	3490	1/1	0.39	17.67	53,53,53,53	0
87	MG	8	202	1/1	0.47	17.65	40,40,40,40	0
87	MG	1	3475	1/1	0.44	17.65	8,8,8,8	0
87	MG	5	3480	1/1	0.36	17.61	19,19,19,19	0
88	OHX	1	4154	7/7	0.26	17.59	287,287,287,287	0
87	MG	6	1926	1/1	0.51	17.59	40,40,40,40	0
87	MG	5	3719	1/1	0.38	17.57	50,50,50,50	0
87	MG	1	3473	1/1	0.44	17.55	32,32,32,32	0
87	MG	6	2035	1/1	0.49	17.54	38,38,38,38	0
87	MG	1	3413	1/1	0.33	17.53	24,24,24,24	0
87	MG	1	3670	1/1	0.36	17.49	39,39,39,39	0
87	MG	1	3443	1/1	0.37	17.45	19,19,19,19	0
87	MG	1	3517	1/1	0.51	17.45	10,10,10,10	0
87	MG	1	3603	1/1	0.42	17.43	7,7,7,7	0
87	MG	5	3685	1/1	0.31	17.41	43,43,43,43	0
87	MG	5	3851	1/1	0.47	17.35	36,36,36,36	0
87	MG	5	3428	1/1	0.52	17.35	30,30,30,30	0
87	MG	1	3563	1/1	0.44	17.31	17,17,17,17	0
87	MG	5	3528	1/1	0.34	17.31	8,8,8,8	0
87	MG	5	3598	1/1	0.51	17.15	6,6,6,6	0
87	MG	1	3515	1/1	0.37	17.08	3,3,3,3	0
87	MG	1	3858	1/1	0.61	17.08	61,61,61,61	0
87	MG	3	212	1/1	0.37	17.04	87,87,87,87	0
87	MG	5	3560	1/1	0.39	16.88	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3593	1/1	0.53	16.86	21,21,21,21	0
87	MG	5	3543	1/1	0.28	16.83	0,0,0,0	0
87	MG	1	3627	1/1	0.39	16.77	30,30,30,30	0
87	MG	1	3589	1/1	0.67	16.76	28,28,28,28	0
87	MG	5	3841	1/1	0.46	16.74	26,26,26,26	0
87	MG	1	3494	1/1	0.39	16.73	44,44,44,44	0
87	MG	5	3644	1/1	0.31	16.65	51,51,51,51	0
87	MG	1	3870	1/1	0.35	16.65	43,43,43,43	0
87	MG	o3	201	1/1	0.55	16.64	61,61,61,61	0
87	MG	1	3761	1/1	0.35	16.64	33,33,33,33	0
87	MG	1	3687	1/1	0.30	16.60	28,28,28,28	0
87	MG	1	3717	1/1	0.26	16.56	42,42,42,42	0
87	MG	1	3646	1/1	0.39	16.53	44,44,44,44	0
87	MG	1	3871	1/1	0.31	16.50	62,62,62,62	0
87	MG	5	3808	1/1	0.38	16.48	40,40,40,40	0
87	MG	1	3812	1/1	0.39	16.43	43,43,43,43	0
87	MG	1	3657	1/1	0.39	16.36	44,44,44,44	0
87	MG	5	3544	1/1	0.35	16.31	14,14,14,14	0
87	MG	5	3422	1/1	0.34	16.31	10,10,10,10	0
88	OHX	5	4236	7/7	0.23	16.30	262,262,262,262	0
87	MG	6	1950	1/1	0.26	16.25	14,14,14,14	0
87	MG	5	3771	1/1	0.39	16.24	24,24,24,24	0
87	MG	1	3579	1/1	0.53	16.18	16,16,16,16	0
87	MG	8	203	1/1	0.42	16.12	50,50,50,50	0
87	MG	5	3862	1/1	0.24	16.08	33,33,33,33	0
87	MG	2	1946	1/1	0.34	16.07	31,31,31,31	0
87	MG	1	3458	1/1	0.31	16.05	3,3,3,3	0
87	MG	7	209	1/1	0.43	16.01	10,10,10,10	0
87	MG	6	1955	1/1	0.45	16.01	8,8,8,8	0
87	MG	1	3708	1/1	0.60	15.99	30,30,30,30	0
87	MG	5	3879	1/1	0.41	15.96	25,25,25,25	0
87	MG	1	3576	1/1	0.37	15.92	0,0,0,0	0
87	MG	5	3517	1/1	0.44	15.91	17,17,17,17	0
87	MG	2	1903	1/1	0.38	15.82	24,24,24,24	0
87	MG	6	1917	1/1	0.35	15.74	31,31,31,31	0
87	MG	1	3652	1/1	0.36	15.73	44,44,44,44	0
88	OHX	1	4203	7/7	0.43	15.67	364,364,364,364	0
87	MG	5	3845	1/1	0.49	15.67	53,53,53,53	0
87	MG	5	3584	1/1	0.34	15.64	17,17,17,17	0
87	MG	5	3639	1/1	0.37	15.59	40,40,40,40	0
87	MG	1	3451	1/1	0.37	15.53	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	2	1938	1/1	0.50	15.52	31,31,31,31	0
87	MG	l3	402	1/1	0.38	15.31	69,69,69,69	0
87	MG	1	3542	1/1	0.41	15.31	15,15,15,15	0
87	MG	1	3791	1/1	0.34	15.24	31,31,31,31	0
87	MG	5	3556	1/1	0.52	15.15	27,27,27,27	0
87	MG	1	3441	1/1	0.41	15.12	30,30,30,30	0
87	MG	1	3440	1/1	0.71	15.06	27,27,27,27	0
87	MG	2	2013	1/1	0.29	15.00	47,47,47,47	0
87	MG	7	205	1/1	0.38	14.97	11,11,11,11	0
88	OHX	4	230	7/7	0.30	14.95	283,283,283,283	0
87	MG	1	3410	1/1	0.29	14.94	10,10,10,10	0
87	MG	N3	201	1/1	0.35	14.90	10,10,10,10	0
87	MG	6	1974	1/1	0.29	14.90	54,54,54,54	0
87	MG	1	3499	1/1	0.39	14.87	18,18,18,18	0
88	OHX	1	4219	7/7	0.32	14.85	225,225,225,225	0
87	MG	1	3461	1/1	0.33	14.85	6,6,6,6	0
87	MG	8	209	1/1	0.34	14.82	63,63,63,63	0
87	MG	5	3563	1/1	0.48	14.79	28,28,28,28	0
87	MG	5	3742	1/1	0.42	14.76	40,40,40,40	0
87	MG	l2	301	1/1	0.50	14.74	30,30,30,30	0
87	MG	1	3419	1/1	0.64	14.72	36,36,36,36	0
87	MG	1	3402	1/1	0.41	14.71	23,23,23,23	0
87	MG	5	3633	1/1	0.30	14.67	20,20,20,20	0
87	MG	5	3514	1/1	0.46	14.66	9,9,9,9	0
87	MG	5	3512	1/1	0.41	14.64	24,24,24,24	0
87	MG	2	1937	1/1	0.37	14.63	23,23,23,23	0
87	MG	1	3536	1/1	0.27	14.63	36,36,36,36	0
88	OHX	1	4202	7/7	0.34	14.60	269,269,269,269	0
87	MG	6	1901	1/1	0.32	14.50	18,18,18,18	0
87	MG	1	3546	1/1	0.36	14.49	15,15,15,15	0
87	MG	2	1913	1/1	0.61	14.48	29,29,29,29	0
87	MG	1	3701	1/1	0.20	14.48	42,42,42,42	0
87	MG	1	3548	1/1	0.36	14.45	43,43,43,43	0
87	MG	2	2010	1/1	0.53	14.40	46,46,46,46	0
87	MG	M5	301	1/1	0.52	14.38	39,39,39,39	0
87	MG	7	202	1/1	0.32	14.34	9,9,9,9	0
87	MG	6	1943	1/1	0.33	14.33	17,17,17,17	0
87	MG	5	3649	1/1	0.39	14.32	10,10,10,10	0
87	MG	2	2004	1/1	0.41	14.29	59,59,59,59	0
87	MG	5	3700	1/1	0.44	14.19	51,51,51,51	0
87	MG	N3	202	1/1	0.23	14.19	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3739	1/1	0.42	14.12	42,42,42,42	0
87	MG	1	3732	1/1	0.27	14.05	41,41,41,41	0
87	MG	1	3606	1/1	0.37	14.04	16,16,16,16	0
87	MG	5	3619	1/1	0.33	14.04	39,39,39,39	0
87	MG	1	3459	1/1	0.31	14.02	24,24,24,24	0
87	MG	1	3845	1/1	0.37	14.01	11,11,11,11	0
87	MG	5	3427	1/1	0.31	14.01	16,16,16,16	0
87	MG	6	1913	1/1	0.47	13.99	24,24,24,24	0
87	MG	5	3606	1/1	0.45	13.94	25,25,25,25	0
87	MG	5	3404	1/1	0.67	13.80	47,47,47,47	0
87	MG	5	3875	1/1	0.36	13.76	18,18,18,18	0
87	MG	2	1917	1/1	0.44	13.60	25,25,25,25	0
87	MG	4	206	1/1	0.38	13.59	19,19,19,19	0
87	MG	3	214	1/1	0.28	13.56	43,43,43,43	0
87	MG	5	3650	1/1	0.39	13.52	32,32,32,32	0
87	MG	5	3434	1/1	0.43	13.52	27,27,27,27	0
87	MG	3	213	1/1	0.47	13.44	25,25,25,25	0
87	MG	5	3763	1/1	0.34	13.42	31,31,31,31	0
87	MG	5	3557	1/1	0.33	13.41	10,10,10,10	0
87	MG	5	3782	1/1	0.72	13.38	45,45,45,45	0
87	MG	1	3872	1/1	0.37	13.37	28,28,28,28	0
87	MG	2	1939	1/1	0.40	13.33	29,29,29,29	0
87	MG	1	3660	1/1	0.48	13.32	29,29,29,29	0
87	MG	1	3647	1/1	0.29	13.29	35,35,35,35	0
87	MG	1	3689	1/1	0.44	13.29	47,47,47,47	0
88	OHX	5	4146	7/7	0.30	13.27	243,243,243,243	0
87	MG	5	3641	1/1	0.32	13.24	35,35,35,35	0
87	MG	1	3588	1/1	0.56	13.21	26,26,26,26	0
87	MG	1	3541	1/1	0.30	13.21	35,35,35,35	0
87	MG	6	2028	1/1	0.42	13.20	57,57,57,57	0
87	MG	6	1931	1/1	0.30	13.14	29,29,29,29	0
87	MG	5	3738	1/1	0.46	13.12	47,47,47,47	0
87	MG	1	3430	1/1	0.43	13.08	39,39,39,39	0
87	MG	1	3856	1/1	0.36	12.96	42,42,42,42	0
87	MG	4	211	1/1	0.40	12.94	34,34,34,34	0
87	MG	5	3712	1/1	0.24	12.86	43,43,43,43	0
87	MG	6	1947	1/1	0.32	12.85	28,28,28,28	0
87	MG	6	1911	1/1	0.41	12.81	26,26,26,26	0
87	MG	1	3806	1/1	0.30	12.81	59,59,59,59	0
87	MG	c7	201	1/1	0.64	12.79	64,64,64,64	0
87	MG	5	3865	1/1	0.34	12.75	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	2	1909	1/1	0.42	12.75	43,43,43,43	0
87	MG	2	1975	1/1	0.41	12.74	66,66,66,66	0
87	MG	2	1924	1/1	0.36	12.73	50,50,50,50	0
87	MG	6	1906	1/1	0.37	12.70	27,27,27,27	0
87	MG	1	3587	1/1	0.45	12.68	28,28,28,28	0
87	MG	1	3848	1/1	0.37	12.67	10,10,10,10	0
88	OHX	1	4218	7/7	0.23	12.65	259,259,259,259	0
87	MG	5	3554	1/1	0.29	12.60	12,12,12,12	0
87	MG	2	1902	1/1	0.32	12.60	16,16,16,16	0
87	MG	1	3412	1/1	0.24	12.49	19,19,19,19	0
87	MG	5	3522	1/1	0.37	12.49	1,1,1,1	0
87	MG	1	3449	1/1	0.31	12.48	33,33,33,33	0
87	MG	1	3669	1/1	0.44	12.48	37,37,37,37	0
87	MG	5	3762	1/1	0.22	12.47	51,51,51,51	0
87	MG	5	3802	1/1	0.28	12.45	56,56,56,56	0
87	MG	1	4232	1/1	0.41	12.43	83,83,83,83	0
87	MG	5	3553	1/1	0.53	12.27	25,25,25,25	0
87	MG	5	3538	1/1	0.41	12.26	20,20,20,20	0
87	MG	1	3569	1/1	0.33	12.23	8,8,8,8	0
88	OHX	1	4217	7/7	0.28	12.23	287,287,287,287	0
87	MG	5	3523	1/1	0.20	12.22	6,6,6,6	0
87	MG	1	3506	1/1	0.36	12.21	23,23,23,23	0
87	MG	5	3511	1/1	0.34	12.19	2,2,2,2	0
87	MG	m5	305	1/1	0.41	12.14	39,39,39,39	0
87	MG	2	2008	1/1	0.69	12.13	33,33,33,33	0
87	MG	5	3884	1/1	0.25	12.11	34,34,34,34	0
87	MG	1	3597	1/1	0.37	12.04	1,1,1,1	0
87	MG	1	3755	1/1	0.33	12.02	40,40,40,40	0
87	MG	1	3839	1/1	0.31	12.00	22,22,22,22	0
87	MG	1	3464	1/1	0.29	11.95	10,10,10,10	0
87	MG	2	1918	1/1	0.48	11.95	26,26,26,26	0
87	MG	5	3881	1/1	0.25	11.91	7,7,7,7	0
87	MG	1	3513	1/1	0.35	11.91	19,19,19,19	0
88	OHX	1	4196	7/7	0.34	11.90	262,262,262,262	0
87	MG	1	3583	1/1	0.34	11.85	13,13,13,13	0
87	MG	1	3581	1/1	0.41	11.77	13,13,13,13	0
87	MG	5	3533	1/1	0.29	11.76	10,10,10,10	0
87	MG	5	3593	1/1	0.34	11.74	11,11,11,11	0
87	MG	2	1914	1/1	0.41	11.74	33,33,33,33	0
88	OHX	1	4074	7/7	0.32	11.73	255,255,255,255	0
87	MG	S4	302	1/1	0.65	11.70	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3732	1/1	0.35	11.68	15,15,15,15	0
87	MG	2	1919	1/1	0.34	11.65	25,25,25,25	0
87	MG	6	2007	1/1	0.29	11.64	32,32,32,32	0
87	MG	1	3524	1/1	0.39	11.61	5,5,5,5	0
87	MG	1	3463	1/1	0.30	11.58	12,12,12,12	0
87	MG	1	3528	1/1	0.28	11.57	15,15,15,15	0
87	MG	5	3469	1/1	0.20	11.57	12,12,12,12	0
87	MG	5	3575	1/1	0.38	11.56	21,21,21,21	0
87	MG	2	1960	1/1	0.38	11.56	54,54,54,54	0
87	MG	1	3612	1/1	0.56	11.50	46,46,46,46	0
87	MG	1	3521	1/1	0.44	11.46	30,30,30,30	0
87	MG	5	3476	1/1	0.24	11.42	26,26,26,26	0
87	MG	6	1929	1/1	0.22	11.39	27,27,27,27	0
88	OHX	5	4237	7/7	0.32	11.36	259,259,259,259	0
87	MG	1	3519	1/1	0.34	11.31	11,11,11,11	0
87	MG	5	3761	1/1	0.22	11.29	42,42,42,42	0
87	MG	5	3567	1/1	0.41	11.28	6,6,6,6	0
87	MG	1	3529	1/1	0.28	11.22	3,3,3,3	0
87	MG	1	3686	1/1	0.26	11.20	37,37,37,37	0
87	MG	5	3893	1/1	0.27	11.13	17,17,17,17	0
88	OHX	5	4180	7/7	0.31	11.10	273,273,273,273	0
87	MG	5	3717	1/1	0.23	11.10	38,38,38,38	0
87	MG	6	1985	1/1	0.31	11.07	47,47,47,47	0
88	OHX	1	4176	7/7	0.33	11.07	247,247,247,247	0
87	MG	5	3726	1/1	0.25	11.03	24,24,24,24	0
87	MG	1	3794	1/1	0.30	10.97	51,51,51,51	0
87	MG	1	3704	1/1	0.29	10.94	40,40,40,40	0
87	MG	5	3583	1/1	0.43	10.92	26,26,26,26	0
87	MG	6	2016	1/1	0.30	10.90	52,52,52,52	0
87	MG	5	3694	1/1	0.36	10.89	34,34,34,34	0
88	OHX	1	4215	7/7	0.26	10.83	272,272,272,272	0
87	MG	1	3624	1/1	0.31	10.79	34,34,34,34	0
87	MG	2	2021	1/1	0.37	10.78	127,127,127,127	0
88	OHX	5	4242	7/7	0.29	10.69	365,365,365,365	0
87	MG	5	3500	1/1	0.34	10.64	18,18,18,18	0
87	MG	N8	201	1/1	0.37	10.61	30,30,30,30	0
87	MG	1	3853	1/1	0.39	10.59	45,45,45,45	0
87	MG	2	1958	1/1	0.33	10.56	30,30,30,30	0
87	MG	3	206	1/1	0.33	10.48	11,11,11,11	0
87	MG	5	3678	1/1	0.23	10.47	33,33,33,33	0
87	MG	5	3551	1/1	0.35	10.39	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	1	3804	1/1	0.28	10.39	59,59,59,59	0
88	OHX	5	4074	7/7	0.17	10.39	183,183,183,183	0
87	MG	2	1934	1/1	0.47	10.39	61,61,61,61	0
88	OHX	6	2168	7/7	0.48	10.36	346,346,346,346	0
87	MG	1	3788	1/1	0.34	10.35	25,25,25,25	0
87	MG	6	1960	1/1	0.43	10.34	11,11,11,11	0
87	MG	5	3688	1/1	0.46	10.34	48,48,48,48	0
88	OHX	5	4226	7/7	0.24	10.33	297,297,297,297	0
87	MG	5	3568	1/1	0.23	10.27	9,9,9,9	0
87	MG	2	1921	1/1	0.32	10.27	26,26,26,26	0
88	OHX	2	2146	7/7	0.57	10.27	358,358,358,358	0
87	MG	2	1926	1/1	0.33	10.21	46,46,46,46	0
87	MG	5	3461	1/1	0.26	10.20	15,15,15,15	0
87	MG	1	3428	1/1	0.36	10.16	18,18,18,18	0
87	MG	2	1962	1/1	0.26	10.16	21,21,21,21	0
87	MG	5	3803	1/1	0.50	10.15	43,43,43,43	0
87	MG	5	3765	1/1	0.34	10.15	49,49,49,49	0
87	MG	2	1972	1/1	0.23	10.13	36,36,36,36	0
87	MG	5	3491	1/1	0.43	10.12	1,1,1,1	0
87	MG	2	1968	1/1	0.49	10.12	27,27,27,27	0
87	MG	5	3474	1/1	0.30	10.10	43,43,43,43	0
87	MG	5	3576	1/1	0.33	10.09	12,12,12,12	0
87	MG	1	3422	1/1	0.36	10.09	25,25,25,25	0
87	MG	1	3719	1/1	0.31	10.03	66,66,66,66	0
87	MG	5	3597	1/1	0.49	10.02	23,23,23,23	0
87	MG	1	3466	1/1	0.35	10.00	21,21,21,21	0
88	OHX	6	2181	7/7	0.35	9.99	247,247,247,247	0
87	MG	1	3651	1/1	0.35	9.98	33,33,33,33	0
88	OHX	M7	205	7/7	0.39	9.95	351,351,351,351	0
87	MG	5	3691	1/1	0.28	9.95	54,54,54,54	0
87	MG	1	3668	1/1	0.33	9.94	43,43,43,43	0
87	MG	5	3424	1/1	0.45	9.93	34,34,34,34	0
87	MG	5	3411	1/1	0.22	9.93	41,41,41,41	0
87	MG	2	1916	1/1	0.38	9.93	37,37,37,37	0
87	MG	5	3667	1/1	0.29	9.89	34,34,34,34	0
88	OHX	2	2159	7/7	0.28	9.85	293,293,293,293	0
88	OHX	5	4197	7/7	0.26	9.85	315,315,315,315	0
87	MG	6	1962	1/1	0.24	9.80	26,26,26,26	0
88	OHX	1	4180	7/7	0.32	9.78	315,315,315,315	0
87	MG	1	3838	1/1	0.29	9.76	28,28,28,28	0
88	OHX	1	4085	7/7	0.27	9.74	241,241,241,241	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3681	1/1	0.29	9.66	36,36,36,36	0
87	MG	5	3609	1/1	0.21	9.63	22,22,22,22	0
87	MG	6	1961	1/1	0.33	9.54	35,35,35,35	0
88	OHX	15	306	7/7	0.69	9.52	382,382,382,382	0
87	MG	5	3752	1/1	0.28	9.51	4,4,4,4	0
87	MG	1	3608	1/1	0.30	9.51	27,27,27,27	0
87	MG	5	3539	1/1	0.47	9.51	22,22,22,22	0
87	MG	5	3798	1/1	0.35	9.48	30,30,30,30	0
87	MG	6	1952	1/1	0.45	9.47	29,29,29,29	0
87	MG	5	3657	1/1	0.25	9.47	39,39,39,39	0
88	OHX	5	4244	7/7	0.30	9.46	280,280,280,280	0
87	MG	5	3795	1/1	0.29	9.45	42,42,42,42	0
88	OHX	1	4090	7/7	0.37	9.41	220,220,220,220	0
87	MG	n0	203	1/1	0.31	9.39	41,41,41,41	0
87	MG	5	3734	1/1	0.26	9.39	33,33,33,33	0
88	OHX	5	4183	7/7	0.34	9.37	224,224,224,224	0
87	MG	5	3788	1/1	0.18	9.34	50,50,50,50	0
87	MG	1	3574	1/1	0.31	9.31	20,20,20,20	0
87	MG	2	1915	1/1	0.35	9.30	36,36,36,36	0
87	MG	1	3545	1/1	0.33	9.29	17,17,17,17	0
87	MG	1	3538	1/1	0.38	9.21	40,40,40,40	0
88	OHX	1	4160	7/7	0.26	9.20	288,288,288,288	0
87	MG	1	3643	1/1	0.28	9.18	44,44,44,44	0
87	MG	6	1919	1/1	0.35	9.17	21,21,21,21	0
87	MG	5	3484	1/1	0.36	9.14	21,21,21,21	0
87	MG	1	3488	1/1	0.29	9.14	32,32,32,32	0
87	MG	n8	202	1/1	0.41	9.11	38,38,38,38	0
87	MG	O2	201	1/1	0.26	9.10	33,33,33,33	0
87	MG	1	3832	1/1	0.31	9.10	41,41,41,41	0
87	MG	1	3671	1/1	0.28	9.08	45,45,45,45	0
87	MG	1	3493	1/1	0.31	9.07	16,16,16,16	0
88	OHX	5	4204	7/7	0.19	9.07	227,227,227,227	0
88	OHX	4	229	7/7	0.27	8.99	206,206,206,206	0
87	MG	1	3728	1/1	0.26	8.99	33,33,33,33	0
87	MG	1	3562	1/1	0.24	8.98	11,11,11,11	0
87	MG	5	3562	1/1	0.36	8.97	5,5,5,5	0
87	MG	5	3831	1/1	0.25	8.97	10,10,10,10	0
87	MG	2	1936	1/1	0.36	8.93	21,21,21,21	0
87	MG	6	1957	1/1	0.58	8.92	17,17,17,17	0
87	MG	1	3787	1/1	0.34	8.92	27,27,27,27	0
88	OHX	5	4229	7/7	0.45	8.91	370,370,370,370	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3827	1/1	0.28	8.88	49,49,49,49	0
87	MG	2	1973	1/1	0.29	8.83	47,47,47,47	0
87	MG	5	3669	1/1	0.38	8.83	30,30,30,30	0
87	MG	5	3571	1/1	0.22	8.80	0,0,0,0	0
87	MG	8	211	1/1	0.29	8.77	37,37,37,37	0
88	OHX	1	4057	7/7	0.23	8.76	193,193,193,193	0
87	MG	1	3786	1/1	0.19	8.75	39,39,39,39	0
88	OHX	5	4209	7/7	0.33	8.75	258,258,258,258	0
88	OHX	1	4190	7/7	0.22	8.72	270,270,270,270	0
87	MG	5	3518	1/1	0.28	8.69	11,11,11,11	0
87	MG	N0	201	1/1	0.34	8.68	35,35,35,35	0
87	MG	5	3460	1/1	0.21	8.62	97,97,97,97	0
87	MG	5	3585	1/1	0.44	8.61	17,17,17,17	0
87	MG	L7	302	1/1	0.30	8.57	49,49,49,49	0
87	MG	5	3496	1/1	0.37	8.55	26,26,26,26	0
88	OHX	1	4125	7/7	0.28	8.51	244,244,244,244	0
87	MG	M7	202	1/1	0.36	8.51	34,34,34,34	0
87	MG	o1	201	1/1	1.00	8.43	87,87,87,87	0
87	MG	5	3595	1/1	0.34	8.43	2,2,2,2	0
87	MG	1	3534	1/1	0.28	8.42	13,13,13,13	0
87	MG	5	3900	1/1	0.24	8.42	26,26,26,26	0
87	MG	1	3415	1/1	0.33	8.40	11,11,11,11	0
88	OHX	2	2173	7/7	0.27	8.39	237,237,237,237	0
87	MG	5	3431	1/1	0.34	8.36	53,53,53,53	0
88	OHX	1	4127	7/7	0.25	8.28	208,208,208,208	0
87	MG	1	3749	1/1	0.25	8.26	4,4,4,4	0
87	MG	5	3592	1/1	0.30	8.24	2,2,2,2	0
87	MG	5	3661	1/1	0.33	8.23	41,41,41,41	0
87	MG	5	3535	1/1	0.36	8.22	27,27,27,27	0
87	MG	1	3571	1/1	0.29	8.20	14,14,14,14	0
87	MG	6	1989	1/1	0.25	8.20	37,37,37,37	0
87	MG	1	3656	1/1	0.28	8.19	59,59,59,59	0
87	MG	5	3889	1/1	0.38	8.18	37,37,37,37	0
88	OHX	1	4058	7/7	0.22	8.16	174,174,174,174	0
88	OHX	2	2171	7/7	0.28	8.15	254,254,254,254	0
87	MG	1	3682	1/1	0.23	8.15	46,46,46,46	0
88	OHX	5	4207	7/7	0.26	8.11	273,273,273,273	0
87	MG	O5	201	1/1	0.28	8.10	48,48,48,48	0
88	OHX	5	4158	7/7	0.27	8.07	253,253,253,253	0
87	MG	1	3696	1/1	0.41	8.05	26,26,26,26	0
87	MG	5	3414	1/1	0.44	8.02	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3482	1/1	0.19	7.96	23,23,23,23	0
87	MG	m6	202	1/1	0.34	7.94	48,48,48,48	0
87	MG	m5	303	1/1	0.35	7.92	51,51,51,51	0
87	MG	1	3744	1/1	0.36	7.90	45,45,45,45	0
88	OHX	2	2131	7/7	0.35	7.86	317,317,317,317	0
87	MG	1	3753	1/1	0.28	7.85	54,54,54,54	0
87	MG	1	3418	1/1	0.26	7.84	4,4,4,4	0
87	MG	1	3797	1/1	0.24	7.77	75,75,75,75	0
87	MG	7	203	1/1	0.25	7.77	48,48,48,48	0
87	MG	1	3705	1/1	0.31	7.77	55,55,55,55	0
87	MG	1	3855	1/1	0.30	7.74	33,33,33,33	0
88	OHX	1	4198	7/7	0.27	7.73	275,275,275,275	0
87	MG	6	1987	1/1	0.26	7.71	43,43,43,43	0
87	MG	1	3431	1/1	0.41	7.70	23,23,23,23	0
87	MG	1	3480	1/1	0.27	7.69	30,30,30,30	0
87	MG	1	3677	1/1	0.33	7.67	32,32,32,32	0
87	MG	1	3613	1/1	0.43	7.61	36,36,36,36	0
87	MG	5	3821	1/1	0.22	7.60	40,40,40,40	0
87	MG	5	3692	1/1	0.37	7.59	42,42,42,42	0
88	OHX	1	4152	7/7	0.37	7.59	276,276,276,276	0
87	MG	1	3637	1/1	0.31	7.59	30,30,30,30	0
87	MG	6	1935	1/1	0.74	7.58	41,41,41,41	0
88	OHX	5	4150	7/7	0.24	7.56	216,216,216,216	0
87	MG	5	3640	1/1	0.18	7.55	38,38,38,38	0
87	MG	5	3874	1/1	0.39	7.51	15,15,15,15	0
87	MG	4	210	1/1	0.25	7.50	30,30,30,30	0
87	MG	5	3898	1/1	0.23	7.50	32,32,32,32	0
87	MG	1	3863	1/1	0.21	7.49	73,73,73,73	0
87	MG	3	201	1/1	0.22	7.48	30,30,30,30	0
87	MG	6	2008	1/1	0.32	7.47	56,56,56,56	0
87	MG	1	3575	1/1	0.34	7.45	7,7,7,7	0
87	MG	5	3895	1/1	0.23	7.43	41,41,41,41	0
87	MG	1	3823	1/1	0.43	7.41	44,44,44,44	0
87	MG	6	2043	1/1	0.27	7.37	35,35,35,35	0
88	OHX	5	4163	7/7	0.20	7.36	236,236,236,236	0
88	OHX	2	2162	7/7	0.28	7.35	256,256,256,256	0
87	MG	2	1935	1/1	0.35	7.35	27,27,27,27	0
87	MG	2	1925	1/1	0.53	7.34	41,41,41,41	0
87	MG	6	1992	1/1	0.27	7.33	57,57,57,57	0
88	OHX	6	2188	7/7	0.29	7.32	265,265,265,265	0
87	MG	1	3570	1/1	0.45	7.31	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3662	1/1	0.22	7.29	10,10,10,10	0
87	MG	1	3568	1/1	0.34	7.23	25,25,25,25	0
87	MG	5	3837	1/1	0.25	7.22	58,58,58,58	0
87	MG	5	3843	1/1	0.23	7.22	93,93,93,93	0
88	OHX	5	4224	7/7	0.26	7.18	288,288,288,288	0
87	MG	5	3591	1/1	0.31	7.18	23,23,23,23	0
87	MG	5	3664	1/1	0.24	7.18	15,15,15,15	0
87	MG	5	3611	1/1	0.25	7.16	2,2,2,2	0
87	MG	1	3675	1/1	0.34	7.13	48,48,48,48	0
87	MG	5	3555	1/1	0.34	7.13	23,23,23,23	0
87	MG	5	3486	1/1	0.49	7.12	12,12,12,12	0
87	MG	6	1908	1/1	0.24	7.11	34,34,34,34	0
88	OHX	1	4155	7/7	0.32	7.11	280,280,280,280	0
87	MG	2	1910	1/1	0.37	7.09	39,39,39,39	0
88	OHX	5	4170	7/7	0.25	7.06	247,247,247,247	0
87	MG	5	3525	1/1	0.34	7.06	8,8,8,8	0
87	MG	5	3504	1/1	0.26	6.96	10,10,10,10	0
88	OHX	5	4160	7/7	0.34	6.94	231,231,231,231	0
87	MG	2	1908	1/1	0.23	6.93	40,40,40,40	0
87	MG	6	1933	1/1	0.26	6.93	35,35,35,35	0
87	MG	1	3860	1/1	0.24	6.93	101,101,101,101	0
88	OHX	1	4132	7/7	0.22	6.92	180,180,180,180	0
88	OHX	3	224	7/7	0.23	6.91	248,248,248,248	0
88	OHX	2	2143	7/7	0.38	6.91	260,260,260,260	0
87	MG	6	1937	1/1	0.25	6.89	18,18,18,18	0
87	MG	5	3656	1/1	0.26	6.87	34,34,34,34	0
87	MG	5	3789	1/1	0.28	6.87	10,10,10,10	0
88	OHX	5	4145	7/7	0.21	6.86	216,216,216,216	0
88	OHX	1	4153	7/7	0.20	6.85	244,244,244,244	0
87	MG	1	3615	1/1	0.33	6.85	51,51,51,51	0
88	OHX	5	4046	7/7	0.23	6.84	160,160,160,160	0
88	OHX	1	4140	7/7	0.37	6.82	298,298,298,298	0
87	MG	5	3836	1/1	0.23	6.78	28,28,28,28	0
87	MG	1	3641	1/1	0.30	6.77	36,36,36,36	0
87	MG	1	3723	1/1	0.42	6.71	48,48,48,48	0
87	MG	1	3729	1/1	0.33	6.70	52,52,52,52	0
87	MG	6	1978	1/1	0.26	6.70	47,47,47,47	0
87	MG	5	3799	1/1	0.27	6.69	44,44,44,44	0
87	MG	5	3503	1/1	0.33	6.69	15,15,15,15	0
87	MG	L7	301	1/1	0.25	6.68	32,32,32,32	0
88	OHX	1	4173	7/7	0.38	6.68	264,264,264,264	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	6	2004	1/1	0.53	6.66	54,54,54,54	0
88	OHX	6	2201	7/7	0.26	6.62	244,244,244,244	0
87	MG	5	3686	1/1	0.29	6.60	35,35,35,35	0
87	MG	5	3634	1/1	0.21	6.60	39,39,39,39	0
87	MG	5	3857	1/1	0.26	6.59	80,80,80,80	0
87	MG	5	3516	1/1	0.28	6.56	27,27,27,27	0
87	MG	5	3429	1/1	0.23	6.55	5,5,5,5	0
87	MG	5	3455	1/1	0.34	6.54	34,34,34,34	0
87	MG	6	1965	1/1	0.20	6.53	26,26,26,26	0
87	MG	5	3617	1/1	0.22	6.52	25,25,25,25	0
87	MG	5	3615	1/1	0.26	6.50	36,36,36,36	0
87	MG	6	2042	1/1	0.36	6.46	51,51,51,51	0
87	MG	1	3605	1/1	0.27	6.46	21,21,21,21	0
87	MG	1	3531	1/1	0.21	6.46	11,11,11,11	0
87	MG	6	1999	1/1	0.36	6.46	46,46,46,46	0
87	MG	5	3756	1/1	0.21	6.44	38,38,38,38	0
87	MG	1	3487	1/1	0.26	6.43	26,26,26,26	0
88	OHX	1	4206	7/7	0.34	6.42	275,275,275,275	0
87	MG	5	3462	1/1	0.30	6.42	18,18,18,18	0
88	OHX	1	3991	7/7	0.26	6.41	162,162,162,162	0
88	OHX	6	2182	7/7	0.29	6.40	264,264,264,264	0
87	MG	1	3767	1/1	0.24	6.40	53,53,53,53	0
87	MG	1	3725	1/1	0.21	6.40	21,21,21,21	0
87	MG	2	1932	1/1	0.43	6.39	33,33,33,33	0
87	MG	1	3712	1/1	0.26	6.37	41,41,41,41	0
87	MG	5	3442	1/1	0.29	6.36	1,1,1,1	0
88	OHX	1	4183	7/7	0.28	6.35	350,350,350,350	0
88	OHX	6	2161	7/7	0.24	6.32	251,251,251,251	0
88	OHX	1	4156	7/7	0.26	6.29	234,234,234,234	0
88	OHX	1	3989	7/7	0.27	6.28	147,147,147,147	0
87	MG	2	2012	1/1	0.36	6.28	40,40,40,40	0
87	MG	6	1984	1/1	0.33	6.24	56,56,56,56	0
88	OHX	5	4166	7/7	0.33	6.24	204,204,204,204	0
87	MG	1	3433	1/1	0.33	6.22	17,17,17,17	0
87	MG	5	3464	1/1	0.36	6.21	6,6,6,6	0
87	MG	1	3836	1/1	0.43	6.17	46,46,46,46	0
87	MG	q3	502	1/1	0.25	6.15	48,48,48,48	0
88	OHX	6	2123	7/7	0.19	6.13	188,188,188,188	0
87	MG	5	3520	1/1	0.22	6.13	13,13,13,13	0
87	MG	6	1902	1/1	0.35	6.12	44,44,44,44	0
87	MG	6	2012	1/1	0.31	6.11	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3799	1/1	0.27	6.10	45,45,45,45	0
87	MG	1	3766	1/1	0.24	6.10	40,40,40,40	0
87	MG	l3	401	1/1	0.41	6.09	4,4,4,4	0
87	MG	5	3479	1/1	0.29	6.09	9,9,9,9	0
87	MG	6	1904	1/1	0.38	6.08	27,27,27,27	0
87	MG	4	209	1/1	0.20	6.07	51,51,51,51	0
88	OHX	5	4221	7/7	0.26	6.05	256,256,256,256	0
87	MG	5	3594	1/1	0.24	6.05	19,19,19,19	0
87	MG	6	1953	1/1	0.31	6.01	27,27,27,27	0
87	MG	2	1955	1/1	0.34	6.01	66,66,66,66	0
87	MG	1	3411	1/1	0.28	6.00	20,20,20,20	0
87	MG	m1	202	1/1	0.18	5.98	41,41,41,41	0
87	MG	6	1968	1/1	0.21	5.98	28,28,28,28	0
87	MG	1	3409	1/1	0.26	5.97	7,7,7,7	0
87	MG	L7	303	1/1	0.26	5.97	56,56,56,56	0
87	MG	2	2007	1/1	0.35	5.96	30,30,30,30	0
87	MG	6	1932	1/1	0.28	5.96	29,29,29,29	0
87	MG	1	3512	1/1	0.32	5.95	13,13,13,13	0
87	MG	2	1929	1/1	0.32	5.93	19,19,19,19	0
87	MG	2	1984	1/1	0.24	5.92	37,37,37,37	0
87	MG	1	3477	1/1	0.26	5.91	21,21,21,21	0
87	MG	5	3508	1/1	0.26	5.90	29,29,29,29	0
87	MG	5	3849	1/1	0.31	5.89	30,30,30,30	0
88	OHX	5	4211	7/7	0.33	5.89	277,277,277,277	0
88	OHX	1	4220	7/7	0.34	5.89	239,239,239,239	0
87	MG	6	1942	1/1	0.19	5.84	10,10,10,10	0
87	MG	2	1963	1/1	0.30	5.82	46,46,46,46	0
88	OHX	1	4080	7/7	0.20	5.82	216,216,216,216	0
87	MG	6	1927	1/1	0.30	5.81	23,23,23,23	0
88	OHX	1	4223	7/7	0.26	5.81	222,222,222,222	0
87	MG	5	3897	1/1	0.22	5.81	22,22,22,22	0
87	MG	5	3878	1/1	0.35	5.78	16,16,16,16	0
87	MG	1	3673	1/1	0.16	5.71	61,61,61,61	0
88	OHX	5	4212	7/7	0.31	5.70	270,270,270,270	0
87	MG	c1	201	1/1	0.26	5.68	31,31,31,31	0
87	MG	1	3792	1/1	0.49	5.64	53,53,53,53	0
87	MG	5	3768	1/1	0.19	5.63	49,49,49,49	0
87	MG	5	3519	1/1	0.22	5.61	6,6,6,6	0
88	OHX	2	2164	7/7	0.28	5.61	306,306,306,306	0
88	OHX	5	4186	7/7	0.23	5.61	242,242,242,242	0
87	MG	5	3896	1/1	0.18	5.57	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	6	1939	1/1	0.24	5.53	20,20,20,20	0
87	MG	7	206	1/1	0.18	5.51	31,31,31,31	0
88	OHX	5	4216	7/7	0.27	5.50	253,253,253,253	0
88	OHX	1	3919	7/7	0.26	5.50	100,100,100,100	0
87	MG	1	3438	1/1	0.26	5.50	20,20,20,20	0
87	MG	1	3553	1/1	0.32	5.49	17,17,17,17	0
87	MG	m5	302	1/1	0.36	5.48	49,49,49,49	0
87	MG	5	3548	1/1	0.25	5.48	11,11,11,11	0
88	OHX	5	4206	7/7	0.25	5.47	224,224,224,224	0
87	MG	5	3614	1/1	0.23	5.47	21,21,21,21	0
87	MG	5	3506	1/1	0.27	5.46	19,19,19,19	0
88	OHX	1	4149	7/7	0.20	5.44	144,144,144,144	0
88	OHX	1	4015	7/7	0.20	5.42	202,202,202,202	0
87	MG	6	2032	1/1	0.29	5.41	50,50,50,50	0
88	OHX	5	4245	7/7	0.21	5.36	275,275,275,275	0
88	OHX	5	4227	7/7	0.26	5.36	277,277,277,277	0
87	MG	2	2006	1/1	0.27	5.34	41,41,41,41	0
87	MG	5	3509	1/1	0.32	5.34	15,15,15,15	0
87	MG	2	1952	1/1	0.37	5.32	50,50,50,50	0
87	MG	5	3622	1/1	0.37	5.31	45,45,45,45	0
88	OHX	6	2171	7/7	0.25	5.28	274,274,274,274	0
87	MG	6	1909	1/1	0.31	5.28	41,41,41,41	0
88	OHX	7	226	7/7	0.22	5.26	254,254,254,254	0
87	MG	5	3654	1/1	0.29	5.26	47,47,47,47	0
87	MG	6	1915	1/1	0.50	5.26	56,56,56,56	0
87	MG	1	3618	1/1	0.24	5.23	17,17,17,17	0
88	OHX	5	4029	7/7	0.18	5.17	179,179,179,179	0
87	MG	5	3439	1/1	0.22	5.17	25,25,25,25	0
88	OHX	2	2157	7/7	0.28	5.17	251,251,251,251	0
88	OHX	5	4164	7/7	0.19	5.17	233,233,233,233	0
87	MG	2	1922	1/1	0.28	5.16	31,31,31,31	0
87	MG	1	3439	1/1	0.31	5.16	34,34,34,34	0
87	MG	o4	201	1/1	0.66	5.14	48,48,48,48	0
87	MG	1	3742	1/1	0.21	5.13	49,49,49,49	0
88	OHX	1	4177	7/7	0.28	5.08	322,322,322,322	0
87	MG	1	3811	1/1	0.33	5.08	55,55,55,55	0
87	MG	2	1980	1/1	0.32	5.07	24,24,24,24	0
87	MG	6	1910	1/1	0.26	5.07	44,44,44,44	0
88	OHX	1	4204	7/7	0.23	5.07	246,246,246,246	0
87	MG	1	3550	1/1	0.26	5.06	44,44,44,44	0
87	MG	4	207	1/1	0.25	5.05	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	1	3816	1/1	0.22	5.03	19,19,19,19	0
88	OHX	5	4232	7/7	0.22	5.03	234,234,234,234	0
87	MG	1	3566	1/1	0.23	5.01	29,29,29,29	0
87	MG	5	3781	1/1	0.17	4.99	39,39,39,39	0
88	OHX	1	4186	7/7	0.20	4.98	171,171,171,171	0
87	MG	5	3473	1/1	0.28	4.95	7,7,7,7	0
87	MG	q1	101	1/1	0.36	4.95	30,30,30,30	0
88	OHX	5	4174	7/7	0.20	4.89	228,228,228,228	0
88	OHX	5	4157	7/7	0.22	4.88	207,207,207,207	0
87	MG	1	3862	1/1	0.25	4.88	20,20,20,20	0
87	MG	5	3748	1/1	0.22	4.88	17,17,17,17	0
87	MG	5	3828	1/1	0.28	4.84	39,39,39,39	0
87	MG	1	3795	1/1	0.40	4.82	65,65,65,65	0
87	MG	5	3417	1/1	0.28	4.82	31,31,31,31	0
88	OHX	6	2184	7/7	0.21	4.82	259,259,259,259	0
87	MG	1	3779	1/1	0.23	4.75	40,40,40,40	0
87	MG	5	3658	1/1	0.23	4.74	42,42,42,42	0
87	MG	2	1901	1/1	0.52	4.73	39,39,39,39	0
87	MG	2	1907	1/1	0.41	4.69	26,26,26,26	0
88	OHX	4	231	7/7	0.21	4.69	237,237,237,237	0
88	OHX	5	4075	7/7	0.20	4.69	171,171,171,171	0
87	MG	1	3472	1/1	0.20	4.69	28,28,28,28	0
87	MG	5	3636	1/1	0.21	4.69	26,26,26,26	0
87	MG	5	3582	1/1	0.29	4.66	8,8,8,8	0
87	MG	2	2015	1/1	0.63	4.64	57,57,57,57	0
87	MG	5	4260	1/1	0.26	4.64	37,37,37,37	0
88	OHX	2	2120	7/7	0.23	4.63	230,230,230,230	0
88	OHX	5	4255	7/7	0.21	4.60	249,249,249,249	0
88	OHX	1	4123	7/7	0.27	4.60	224,224,224,224	0
87	MG	6	2203	1/1	0.30	4.59	46,46,46,46	0
87	MG	1	3763	1/1	0.19	4.58	29,29,29,29	0
87	MG	1	3662	1/1	0.34	4.56	24,24,24,24	0
87	MG	1	3634	1/1	0.25	4.56	21,21,21,21	0
87	MG	1	3782	1/1	0.23	4.52	36,36,36,36	0
87	MG	1	4229	1/1	0.25	4.51	20,20,20,20	0
87	MG	1	3685	1/1	0.26	4.51	49,49,49,49	0
88	OHX	1	4209	7/7	0.33	4.50	272,272,272,272	0
87	MG	N8	202	1/1	0.23	4.48	16,16,16,16	0
88	OHX	5	4165	7/7	0.23	4.48	236,236,236,236	0
88	OHX	5	4085	7/7	0.18	4.47	173,173,173,173	0
87	MG	1	3507	1/1	0.24	4.47	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	2	1945	1/1	0.20	4.47	36,36,36,36	0
87	MG	6	2039	1/1	0.42	4.44	47,47,47,47	0
87	MG	5	3532	1/1	0.20	4.44	16,16,16,16	0
87	MG	5	3502	1/1	0.23	4.43	19,19,19,19	0
87	MG	2	1949	1/1	0.30	4.43	57,57,57,57	0
88	OHX	5	4200	7/7	0.27	4.40	263,263,263,263	0
87	MG	1	3448	1/1	0.28	4.39	23,23,23,23	0
87	MG	2	1948	1/1	0.45	4.39	31,31,31,31	0
87	MG	1	3676	1/1	0.37	4.34	53,53,53,53	0
87	MG	1	3601	1/1	0.29	4.33	1,1,1,1	0
87	MG	s8	303	1/1	0.29	4.33	34,34,34,34	0
87	MG	6	1930	1/1	0.22	4.33	35,35,35,35	0
87	MG	6	2037	1/1	0.37	4.31	52,52,52,52	0
88	OHX	1	4146	7/7	0.25	4.30	302,302,302,302	0
87	MG	c8	201	1/1	0.32	4.29	41,41,41,41	0
88	OHX	5	4219	7/7	0.20	4.26	289,289,289,289	0
87	MG	1	3620	1/1	0.24	4.26	42,42,42,42	0
88	OHX	1	4124	7/7	0.25	4.25	277,277,277,277	0
87	MG	1	3868	1/1	0.37	4.25	46,46,46,46	0
87	MG	2	1983	1/1	0.36	4.25	58,58,58,58	0
87	MG	1	3702	1/1	0.27	4.23	32,32,32,32	0
88	OHX	5	4189	7/7	0.22	4.22	222,222,222,222	0
87	MG	2	1981	1/1	0.24	4.20	39,39,39,39	0
87	MG	1	3829	1/1	0.18	4.19	37,37,37,37	0
88	OHX	1	4184	7/7	0.21	4.18	238,238,238,238	0
88	OHX	14	404	7/7	0.35	4.18	286,286,286,286	0
88	OHX	1	4216	7/7	0.45	4.17	285,285,285,285	0
87	MG	N8	205	1/1	0.30	4.16	45,45,45,45	0
87	MG	1	3510	1/1	0.31	4.16	5,5,5,5	0
87	MG	1	3417	1/1	0.28	4.14	32,32,32,32	0
87	MG	6	1980	1/1	0.24	4.13	61,61,61,61	0
87	MG	1	3455	1/1	0.26	4.12	17,17,17,17	0
88	OHX	1	4159	7/7	0.21	4.11	233,233,233,233	0
87	MG	1	3638	1/1	0.33	4.09	40,40,40,40	0
87	MG	5	3750	1/1	0.29	4.07	8,8,8,8	0
88	OHX	5	4208	7/7	0.32	4.06	304,304,304,304	0
87	MG	1	3445	1/1	0.20	4.06	53,53,53,53	0
88	OHX	1	4221	7/7	0.25	4.06	266,266,266,266	0
87	MG	6	1964	1/1	0.21	4.04	34,34,34,34	0
88	OHX	1	4210	7/7	0.20	4.02	277,277,277,277	0
87	MG	1	3661	1/1	0.32	4.01	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	4261	1/1	0.26	4.00	37,37,37,37	0
88	OHX	1	4211	7/7	0.27	4.00	276,276,276,276	0
88	OHX	1	3963	7/7	0.20	3.99	137,137,137,137	0
87	MG	2	1933	1/1	0.23	3.98	39,39,39,39	0
88	OHX	1	4188	7/7	0.23	3.97	258,258,258,258	0
88	OHX	5	4130	7/7	0.21	3.97	209,209,209,209	0
88	OHX	6	2122	7/7	0.27	3.96	209,209,209,209	0
87	MG	5	3477	1/1	0.44	3.94	36,36,36,36	0
87	MG	1	3751	1/1	0.27	3.94	33,33,33,33	0
88	OHX	6	2156	7/7	0.30	3.93	235,235,235,235	0
87	MG	N8	203	1/1	0.19	3.92	66,66,66,66	0
88	OHX	2	2153	7/7	0.21	3.91	256,256,256,256	0
88	OHX	1	4225	7/7	0.27	3.90	304,304,304,304	0
87	MG	1	3735	1/1	0.19	3.88	92,92,92,92	0
87	MG	1	3625	1/1	0.23	3.88	60,60,60,60	0
87	MG	l4	402	1/1	0.26	3.86	41,41,41,41	0
87	MG	5	3529	1/1	0.20	3.84	28,28,28,28	0
87	MG	n6	202	1/1	0.34	3.82	26,26,26,26	0
87	MG	5	3547	1/1	0.32	3.81	36,36,36,36	0
87	MG	3	210	1/1	0.28	3.81	48,48,48,48	0
87	MG	1	3446	1/1	0.42	3.80	27,27,27,27	0
88	OHX	1	4213	7/7	0.18	3.79	202,202,202,202	0
87	MG	6	1934	1/1	0.41	3.77	60,60,60,60	0
87	MG	2	1912	1/1	0.21	3.76	24,24,24,24	0
87	MG	l3	403	1/1	0.23	3.75	59,59,59,59	0
88	OHX	2	2127	7/7	0.21	3.74	239,239,239,239	0
87	MG	m7	201	1/1	0.32	3.73	9,9,9,9	0
87	MG	5	3806	1/1	0.22	3.72	34,34,34,34	0
88	OHX	7	224	7/7	0.20	3.71	201,201,201,201	0
87	MG	5	3839	1/1	0.17	3.68	68,68,68,68	0
87	MG	5	3777	1/1	0.23	3.68	22,22,22,22	0
87	MG	1	3483	1/1	0.30	3.65	20,20,20,20	0
88	OHX	1	4082	7/7	0.21	3.65	213,213,213,213	0
88	OHX	5	4239	7/7	0.55	3.65	313,313,313,313	0
87	MG	d3	201	1/1	0.45	3.64	60,60,60,60	0
87	MG	2	1930	1/1	0.24	3.59	41,41,41,41	0
87	MG	1	3822	1/1	0.17	3.59	21,21,21,21	0
87	MG	1	3595	1/1	0.23	3.55	28,28,28,28	0
87	MG	1	3476	1/1	0.20	3.53	43,43,43,43	0
87	MG	L4	401	1/1	0.25	3.52	35,35,35,35	0
87	MG	1	3557	1/1	0.21	3.51	13,13,13,13	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	L3	401	1/1	0.26	3.51	11,11,11,11	0
87	MG	1	3849	1/1	0.19	3.50	20,20,20,20	0
87	MG	1	3623	1/1	0.38	3.49	30,30,30,30	0
88	OHX	1	4059	7/7	0.22	3.45	164,164,164,164	0
87	MG	2	1978	1/1	0.20	3.44	44,44,44,44	0
87	MG	5	3894	1/1	0.26	3.42	87,87,87,87	0
87	MG	5	3689	1/1	0.23	3.42	43,43,43,43	0
87	MG	5	3819	1/1	0.23	3.41	53,53,53,53	0
88	OHX	5	4056	7/7	0.20	3.40	166,166,166,166	0
87	MG	6	1936	1/1	0.21	3.38	35,35,35,35	0
88	OHX	5	4177	7/7	0.23	3.38	273,273,273,273	0
87	MG	1	3509	1/1	0.26	3.37	6,6,6,6	0
87	MG	1	3556	1/1	0.32	3.36	45,45,45,45	0
88	OHX	6	2107	7/7	0.15	3.35	143,143,143,143	0
88	OHX	7	225	7/7	0.21	3.35	270,270,270,270	0
87	MG	14	401	1/1	0.28	3.34	40,40,40,40	0
88	OHX	2	2172	7/7	0.36	3.33	331,331,331,331	0
88	OHX	1	4166	7/7	0.16	3.32	234,234,234,234	0
87	MG	1	3456	1/1	0.34	3.31	33,33,33,33	0
88	OHX	6	2196	7/7	0.23	3.31	293,293,293,293	0
87	MG	1	3592	1/1	0.24	3.31	5,5,5,5	0
87	MG	5	3892	1/1	0.24	3.29	24,24,24,24	0
88	OHX	5	4076	7/7	0.17	3.29	167,167,167,167	0
87	MG	6	2033	1/1	0.45	3.29	46,46,46,46	0
88	OHX	5	3917	7/7	0.17	3.28	67,67,67,67	0
87	MG	1	3404	1/1	0.21	3.27	30,30,30,30	0
88	OHX	5	4169	7/7	0.22	3.21	244,244,244,244	0
87	MG	s6	301	1/1	0.33	3.21	73,73,73,73	0
87	MG	1	3631	1/1	0.17	3.20	26,26,26,26	0
87	MG	6	1982	1/1	0.28	3.19	46,46,46,46	0
87	MG	1	3489	1/1	0.24	3.17	26,26,26,26	0
88	OHX	5	4188	7/7	0.27	3.17	244,244,244,244	0
87	MG	1	3649	1/1	0.17	3.16	38,38,38,38	0
87	MG	5	3613	1/1	0.22	3.15	18,18,18,18	0
88	OHX	2	2163	7/7	0.21	3.12	279,279,279,279	0
88	OHX	2	2176	7/7	0.25	3.12	252,252,252,252	0
87	MG	1	3688	1/1	0.17	3.11	32,32,32,32	0
87	MG	5	3643	1/1	0.16	3.11	25,25,25,25	0
87	MG	1	3759	1/1	0.20	3.09	9,9,9,9	0
88	OHX	5	4252	7/7	0.17	3.08	237,237,237,237	0
88	OHX	5	4254	7/7	0.22	3.06	269,269,269,269	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	5	3847	1/1	0.28	3.05	39,39,39,39	0
87	MG	S8	301	1/1	0.20	3.04	47,47,47,47	0
87	MG	1	3659	1/1	0.16	3.01	5,5,5,5	0
87	MG	5	3697	1/1	0.16	3.01	55,55,55,55	0
87	MG	2	1990	1/1	0.13	3.00	49,49,49,49	0
88	OHX	2	2179	7/7	0.23	2.99	267,267,267,267	0
87	MG	n0	202	1/1	0.26	2.99	42,42,42,42	0
87	MG	5	3767	1/1	0.23	2.98	15,15,15,15	0
87	MG	5	3733	1/1	0.40	2.97	43,43,43,43	0
88	OHX	8	227	7/7	0.22	2.96	233,233,233,233	0
87	MG	1	3785	1/1	0.26	2.96	43,43,43,43	0
87	MG	5	3403	1/1	0.20	2.94	3,3,3,3	0
88	OHX	5	4141	7/7	0.31	2.94	227,227,227,227	0
87	MG	8	208	1/1	0.17	2.94	42,42,42,42	0
87	MG	5	3441	1/1	0.37	2.91	28,28,28,28	0
87	MG	1	3752	1/1	0.34	2.87	46,46,46,46	0
88	OHX	6	2074	7/7	0.20	2.86	123,123,123,123	0
87	MG	1	3653	1/1	0.20	2.85	30,30,30,30	0
88	OHX	5	4096	7/7	0.20	2.85	181,181,181,181	0
87	MG	2	2005	1/1	0.29	2.84	44,44,44,44	0
87	MG	6	1993	1/1	0.27	2.84	56,56,56,56	0
87	MG	5	3463	1/1	0.22	2.83	26,26,26,26	0
87	MG	5	3596	1/1	0.22	2.80	3,3,3,3	0
88	OHX	5	4253	7/7	0.22	2.79	256,256,256,256	0
88	OHX	5	4152	7/7	0.19	2.78	260,260,260,260	0
88	OHX	5	4223	7/7	0.17	2.77	256,256,256,256	0
88	OHX	1	4142	7/7	0.18	2.77	250,250,250,250	0
87	MG	1	4231	1/1	0.27	2.74	15,15,15,15	0
87	MG	5	3723	1/1	0.20	2.74	69,69,69,69	0
88	OHX	5	3958	7/7	0.25	2.74	100,100,100,100	0
88	OHX	2	2169	7/7	0.20	2.72	221,221,221,221	0
88	OHX	6	2143	7/7	0.20	2.71	233,233,233,233	0
88	OHX	1	4193	7/7	0.42	2.71	290,290,290,290	0
87	MG	5	3537	1/1	0.20	2.70	40,40,40,40	0
88	OHX	5	4215	7/7	0.18	2.70	220,220,220,220	0
88	OHX	1	3943	7/7	0.19	2.69	173,173,173,173	0
88	OHX	6	2176	7/7	0.23	2.67	277,277,277,277	0
87	MG	7	210	1/1	0.20	2.67	66,66,66,66	0
88	OHX	5	4143	7/7	0.28	2.67	243,243,243,243	0
87	MG	1	3452	1/1	0.31	2.67	27,27,27,27	0
87	MG	1	3648	1/1	0.25	2.66	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	5	4190	7/7	0.19	2.66	208,208,208,208	0
87	MG	2	1993	1/1	0.25	2.65	64,64,64,64	0
88	OHX	1	4138	7/7	0.20	2.64	223,223,223,223	0
87	MG	2	1974	1/1	0.20	2.61	55,55,55,55	0
87	MG	6	1973	1/1	0.20	2.59	33,33,33,33	0
88	OHX	5	4218	7/7	0.16	2.59	255,255,255,255	0
88	OHX	5	4065	7/7	0.18	2.56	167,167,167,167	0
87	MG	2	1986	1/1	0.21	2.56	43,43,43,43	0
87	MG	2	1931	1/1	0.38	2.55	51,51,51,51	0
88	OHX	2	2136	7/7	0.28	2.53	238,238,238,238	0
87	MG	6	1918	1/1	0.26	2.53	41,41,41,41	0
88	OHX	5	4086	7/7	0.18	2.52	145,145,145,145	0
87	MG	1	3533	1/1	0.29	2.50	28,28,28,28	0
87	MG	M6	201	1/1	0.31	2.48	43,43,43,43	0
88	OHX	6	2045	7/7	0.18	2.47	67,67,67,67	0
87	MG	1	3636	1/1	0.34	2.46	49,49,49,49	0
87	MG	2	1965	1/1	0.20	2.46	42,42,42,42	0
88	OHX	6	2144	7/7	0.22	2.46	243,243,243,243	0
88	OHX	5	4079	7/7	0.22	2.45	194,194,194,194	0
87	MG	6	1990	1/1	0.21	2.40	35,35,35,35	0
88	OHX	5	4201	7/7	0.18	2.40	232,232,232,232	0
87	MG	1	3437	1/1	0.24	2.40	26,26,26,26	0
88	OHX	6	2202	7/7	0.20	2.39	266,266,266,266	0
88	OHX	1	4133	7/7	0.17	2.38	208,208,208,208	0
88	OHX	6	2174	7/7	0.21	2.38	223,223,223,223	0
87	MG	2	1942	1/1	0.24	2.37	39,39,39,39	0
88	OHX	1	3973	7/7	0.18	2.37	129,129,129,129	0
87	MG	6	2003	1/1	0.16	2.37	55,55,55,55	0
88	OHX	6	2117	7/7	0.23	2.37	186,186,186,186	0
87	MG	5	3635	1/1	0.18	2.36	26,26,26,26	0
87	MG	6	1954	1/1	0.21	2.36	11,11,11,11	0
87	MG	1	3781	1/1	0.17	2.35	37,37,37,37	0
88	OHX	5	4104	7/7	0.21	2.35	197,197,197,197	0
87	MG	4	205	1/1	0.27	2.34	19,19,19,19	0
87	MG	5	3627	1/1	0.24	2.34	15,15,15,15	0
88	OHX	5	4006	7/7	0.16	2.33	145,145,145,145	0
87	MG	2	1970	1/1	0.18	2.33	65,65,65,65	0
88	OHX	5	4094	7/7	0.24	2.32	227,227,227,227	0
87	MG	6	1912	1/1	0.22	2.32	44,44,44,44	0
88	OHX	5	4155	7/7	0.21	2.31	220,220,220,220	0
87	MG	5	3813	1/1	0.20	2.30	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
88	OHX	1	4191	7/7	0.19	2.27	245,245,245,245	0
88	OHX	5	4047	7/7	0.17	2.27	163,163,163,163	0
88	OHX	2	2119	7/7	0.16	2.26	205,205,205,205	0
88	OHX	2	2128	7/7	0.21	2.26	221,221,221,221	0
88	OHX	5	4142	7/7	0.20	2.25	223,223,223,223	0
88	OHX	1	4099	7/7	0.18	2.25	193,193,193,193	0
87	MG	O7	102	1/1	0.27	2.24	30,30,30,30	0
87	MG	n3	202	1/1	0.31	2.23	60,60,60,60	0
87	MG	5	3451	1/1	0.20	2.22	7,7,7,7	0
87	MG	5	3468	1/1	0.25	2.21	46,46,46,46	0
87	MG	1	3843	1/1	0.32	2.21	50,50,50,50	0
87	MG	5	3866	1/1	0.18	2.20	35,35,35,35	0
87	MG	5	3498	1/1	0.23	2.19	8,8,8,8	0
87	MG	1	3760	1/1	0.17	2.18	54,54,54,54	0
88	OHX	6	2189	7/7	0.21	2.17	266,266,266,266	0
88	OHX	1	4139	7/7	0.17	2.16	213,213,213,213	0
88	OHX	M7	206	7/7	0.27	2.16	282,282,282,282	0
87	MG	1	3658	1/1	0.22	2.16	27,27,27,27	0
87	MG	5	3745	1/1	0.23	2.15	39,39,39,39	0
87	MG	1	3425	1/1	0.21	2.14	30,30,30,30	0
87	MG	1	3733	1/1	0.25	2.14	15,15,15,15	0
87	MG	5	3830	1/1	0.27	2.14	32,32,32,32	0
88	OHX	1	4148	7/7	0.19	2.14	209,209,209,209	0
88	OHX	5	4054	7/7	0.17	2.11	156,156,156,156	0
87	MG	5	3885	1/1	0.16	2.10	38,38,38,38	0
88	OHX	1	4185	7/7	0.20	2.10	302,302,302,302	0
88	OHX	2	2160	7/7	0.32	2.09	246,246,246,246	0
88	OHX	5	4162	7/7	0.17	2.08	208,208,208,208	0
88	OHX	8	229	7/7	0.20	2.08	219,219,219,219	0
87	MG	1	3737	1/1	0.25	2.08	49,49,49,49	0
88	OHX	5	4240	7/7	0.26	2.08	306,306,306,306	0
87	MG	1	3604	1/1	0.19	2.05	14,14,14,14	0
88	OHX	6	2187	7/7	0.26	2.05	317,317,317,317	0
87	MG	5	3527	1/1	0.21	2.02	5,5,5,5	0
87	MG	M0	301	1/1	0.22	2.01	30,30,30,30	0
87	MG	5	3859	1/1	0.30	2.01	38,38,38,38	0
88	OHX	5	4228	7/7	0.27	2.00	251,251,251,251	0
88	OHX	6	2114	7/7	0.21	2.00	209,209,209,209	0
87	MG	5	3569	1/1	0.29	2.00	18,18,18,18	0
87	MG	m7	204	1/1	0.25	2.00	33,33,33,33	0
87	MG	1	3678	1/1	0.19	1.99	5,5,5,5	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	5	4097	7/7	0.19	1.99	175,175,175,175	0
87	MG	m1	201	1/1	0.24	1.98	51,51,51,51	0
88	OHX	6	2197	7/7	0.21	1.98	220,220,220,220	0
87	MG	4	208	1/1	0.16	1.96	44,44,44,44	0
87	MG	1	3768	1/1	0.21	1.96	46,46,46,46	0
87	MG	s8	302	1/1	0.24	1.95	38,38,38,38	0
87	MG	5	3628	1/1	0.19	1.95	35,35,35,35	0
88	OHX	1	4182	7/7	0.17	1.94	253,253,253,253	0
87	MG	5	3655	1/1	0.18	1.92	11,11,11,11	0
87	MG	1	3666	1/1	0.36	1.91	60,60,60,60	0
87	MG	1	3616	1/1	0.14	1.91	36,36,36,36	0
88	OHX	6	2165	7/7	0.21	1.91	226,226,226,226	0
87	MG	5	3629	1/1	0.19	1.88	12,12,12,12	0
88	OHX	2	2137	7/7	0.20	1.85	271,271,271,271	0
88	OHX	5	4139	7/7	0.23	1.83	198,198,198,198	0
87	MG	5	3818	1/1	0.19	1.82	42,42,42,42	0
87	MG	2	1956	1/1	0.20	1.81	33,33,33,33	0
87	MG	5	3711	1/1	0.17	1.79	29,29,29,29	0
88	OHX	5	4092	7/7	0.19	1.79	211,211,211,211	0
87	MG	2	1969	1/1	0.44	1.77	61,61,61,61	0
87	MG	2	2016	1/1	0.26	1.77	37,37,37,37	0
88	OHX	6	2179	7/7	0.20	1.76	254,254,254,254	0
88	OHX	5	4178	7/7	0.22	1.74	194,194,194,194	0
88	OHX	1	4070	7/7	0.21	1.73	216,216,216,216	0
88	OHX	6	2159	7/7	0.16	1.73	215,215,215,215	0
87	MG	2	1943	1/1	0.18	1.72	33,33,33,33	0
88	OHX	1	4076	7/7	0.20	1.71	226,226,226,226	0
87	MG	3	207	1/1	0.20	1.71	33,33,33,33	0
87	MG	m5	301	1/1	0.23	1.71	24,24,24,24	0
88	OHX	l5	305	7/7	0.31	1.68	286,286,286,286	0
88	OHX	1	4094	7/7	0.18	1.67	212,212,212,212	0
88	OHX	2	2175	7/7	0.19	1.63	250,250,250,250	0
88	OHX	5	4117	7/7	0.19	1.62	172,172,172,172	0
88	OHX	5	4151	7/7	0.19	1.60	215,215,215,215	0
88	OHX	1	4172	7/7	0.17	1.60	232,232,232,232	0
87	MG	2	1927	1/1	0.36	1.59	19,19,19,19	0
87	MG	7	212	1/1	0.18	1.57	41,41,41,41	0
88	OHX	2	2116	7/7	0.27	1.56	280,280,280,280	0
87	MG	M7	201	1/1	0.40	1.56	35,35,35,35	0
87	MG	5	3488	1/1	0.19	1.56	49,49,49,49	0
87	MG	5	3492	1/1	0.18	1.56	12,12,12,12	0
87	MG	1	3852	1/1	0.24	1.56	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	1	4075	7/7	0.17	1.56	235,235,235,235	0
87	MG	M3	201	1/1	0.19	1.55	36,36,36,36	0
87	MG	c7	202	1/1	0.23	1.55	35,35,35,35	0
87	MG	5	3790	1/1	0.17	1.55	26,26,26,26	0
87	MG	5	3416	1/1	0.19	1.55	24,24,24,24	0
88	OHX	1	4088	7/7	0.19	1.55	187,187,187,187	0
88	OHX	5	3998	7/7	0.17	1.53	130,130,130,130	0
87	MG	1	3665	1/1	0.21	1.52	34,34,34,34	0
88	OHX	5	4241	7/7	0.17	1.52	258,258,258,258	0
87	MG	5	3690	1/1	0.16	1.51	31,31,31,31	0
88	OHX	2	2079	7/7	0.18	1.51	194,194,194,194	0
88	OHX	4	233	7/7	0.18	1.51	275,275,275,275	0
87	MG	1	3442	1/1	0.19	1.51	33,33,33,33	0
88	OHX	5	3912	7/7	0.17	1.49	64,64,64,64	0
88	OHX	2	2113	7/7	0.20	1.49	194,194,194,194	0
88	OHX	6	2140	7/7	0.19	1.49	205,205,205,205	0
88	OHX	1	4117	7/7	0.19	1.49	213,213,213,213	0
87	MG	6	1923	1/1	0.22	1.48	39,39,39,39	0
88	OHX	1	4048	7/7	0.20	1.45	216,216,216,216	0
87	MG	5	3807	1/1	0.14	1.45	35,35,35,35	0
88	OHX	6	2186	7/7	0.28	1.44	295,295,295,295	0
87	MG	1	3642	1/1	0.18	1.43	42,42,42,42	0
88	OHX	5	4168	7/7	0.16	1.41	229,229,229,229	0
87	MG	1	3596	1/1	0.16	1.41	25,25,25,25	0
88	OHX	2	2135	7/7	0.20	1.40	215,215,215,215	0
87	MG	1	3813	1/1	0.17	1.39	23,23,23,23	0
87	MG	5	3631	1/1	0.19	1.39	45,45,45,45	0
88	OHX	6	2157	7/7	0.18	1.39	197,197,197,197	0
88	OHX	5	4115	7/7	0.20	1.38	204,204,204,204	0
88	OHX	6	2130	7/7	0.17	1.38	179,179,179,179	0
87	MG	5	3608	1/1	0.23	1.38	21,21,21,21	0
87	MG	8	210	1/1	0.18	1.37	12,12,12,12	0
87	MG	1	3758	1/1	0.17	1.36	36,36,36,36	0
87	MG	6	1976	1/1	0.20	1.35	28,28,28,28	0
88	OHX	1	3879	7/7	0.15	1.35	59,59,59,59	0
88	OHX	1	4181	7/7	0.17	1.34	252,252,252,252	0
87	MG	S4	301	1/1	0.18	1.33	41,41,41,41	0
87	MG	M7	203	1/1	0.19	1.33	16,16,16,16	0
87	MG	6	1981	1/1	0.19	1.33	29,29,29,29	0
88	OHX	2	2103	7/7	0.15	1.33	215,215,215,215	0
88	OHX	5	4153	7/7	0.19	1.33	217,217,217,217	0
87	MG	2	1944	1/1	0.24	1.33	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	1	4107	7/7	0.16	1.32	228,228,228,228	0
87	MG	2	2022	1/1	0.22	1.32	69,69,69,69	0
87	MG	6	1977	1/1	0.20	1.32	17,17,17,17	0
88	OHX	2	2099	7/7	0.17	1.31	208,208,208,208	0
88	OHX	2	2086	7/7	0.17	1.31	207,207,207,207	0
87	MG	6	2019	1/1	0.20	1.30	39,39,39,39	0
88	OHX	1	4131	7/7	0.21	1.30	227,227,227,227	0
87	MG	2	1998	1/1	0.18	1.29	40,40,40,40	0
88	OHX	1	4178	7/7	0.22	1.29	276,276,276,276	0
87	MG	1	3630	1/1	0.18	1.28	9,9,9,9	0
88	OHX	5	3915	7/7	0.13	1.28	58,58,58,58	0
88	OHX	5	4042	7/7	0.19	1.27	135,135,135,135	0
88	OHX	1	3996	7/7	0.17	1.26	143,143,143,143	0
88	OHX	1	4214	7/7	0.18	1.26	241,241,241,241	0
87	MG	5	3450	1/1	0.17	1.24	31,31,31,31	0
88	OHX	6	2173	7/7	0.21	1.24	193,193,193,193	0
87	MG	1	3584	1/1	0.25	1.24	29,29,29,29	0
88	OHX	2	2025	7/7	0.19	1.22	82,82,82,82	0
88	OHX	1	4079	7/7	0.20	1.22	183,183,183,183	0
87	MG	1	3773	1/1	0.21	1.22	35,35,35,35	0
87	MG	1	3486	1/1	0.20	1.22	37,37,37,37	0
88	OHX	1	4208	7/7	0.27	1.20	288,288,288,288	0
87	MG	4	214	1/1	0.23	1.20	46,46,46,46	0
88	OHX	1	4222	7/7	0.25	1.20	268,268,268,268	0
88	OHX	1	4199	7/7	0.20	1.20	242,242,242,242	0
87	MG	5	3872	1/1	0.29	1.19	29,29,29,29	0
88	OHX	5	4205	7/7	0.22	1.19	185,185,185,185	0
87	MG	1	3825	1/1	0.16	1.19	32,32,32,32	0
88	OHX	1	3883	7/7	0.16	1.18	62,62,62,62	0
88	OHX	1	4121	7/7	0.14	1.16	190,190,190,190	0
88	OHX	5	4112	7/7	0.21	1.15	225,225,225,225	0
88	OHX	5	3929	7/7	0.18	1.15	77,77,77,77	0
88	OHX	2	2148	7/7	0.18	1.14	225,225,225,225	0
87	MG	q0	202	1/1	0.21	1.13	38,38,38,38	0
88	OHX	1	3908	7/7	0.18	1.13	83,83,83,83	0
88	OHX	1	4187	7/7	0.25	1.12	250,250,250,250	0
88	OHX	2	2152	7/7	0.20	1.11	239,239,239,239	0
88	OHX	6	2170	7/7	0.21	1.11	255,255,255,255	0
88	OHX	5	4235	7/7	0.22	1.11	249,249,249,249	0
88	OHX	5	4055	7/7	0.15	1.10	151,151,151,151	0
87	MG	5	3850	1/1	0.33	1.09	50,50,50,50	0
87	MG	5	3823	1/1	0.17	1.07	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3523	1/1	0.18	1.07	45,45,45,45	0
88	OHX	5	4176	7/7	0.21	1.07	250,250,250,250	0
88	OHX	1	4147	7/7	0.20	1.07	166,166,166,166	0
87	MG	1	3497	1/1	0.19	1.07	41,41,41,41	0
87	MG	5	3747	1/1	0.15	1.06	29,29,29,29	0
88	OHX	1	3905	7/7	0.18	1.06	84,84,84,84	0
88	OHX	5	4109	7/7	0.20	1.05	167,167,167,167	0
88	OHX	5	4167	7/7	0.16	1.05	189,189,189,189	0
87	MG	6	2001	1/1	0.20	1.04	54,54,54,54	0
88	OHX	4	232	7/7	0.18	1.04	249,249,249,249	0
88	OHX	5	4149	7/7	0.21	1.03	210,210,210,210	0
88	OHX	5	4203	7/7	0.19	1.02	143,143,143,143	0
88	OHX	1	4110	7/7	0.19	1.02	233,233,233,233	0
88	OHX	6	2129	7/7	0.18	1.01	191,191,191,191	0
88	OHX	5	3946	7/7	0.16	1.01	88,88,88,88	0
87	MG	5	3409	1/1	0.19	1.01	32,32,32,32	0
88	OHX	5	4124	7/7	0.18	1.01	185,185,185,185	0
88	OHX	2	2142	7/7	0.18	1.01	172,172,172,172	0
88	OHX	5	4258	7/7	0.24	1.00	245,245,245,245	0
88	OHX	1	4025	7/7	0.17	1.00	160,160,160,160	0
88	OHX	5	4118	7/7	0.20	0.98	193,193,193,193	0
88	OHX	1	4168	7/7	0.20	0.95	257,257,257,257	0
87	MG	5	3444	1/1	0.16	0.94	7,7,7,7	0
88	OHX	5	4091	7/7	0.19	0.93	188,188,188,188	0
87	MG	1	3810	1/1	0.31	0.93	52,52,52,52	0
88	OHX	5	4194	7/7	0.24	0.92	227,227,227,227	0
88	OHX	N9	101	7/7	0.15	0.92	67,67,67,67	0
87	MG	M1	201	1/1	0.19	0.91	64,64,64,64	0
88	OHX	5	4210	7/7	0.32	0.90	304,304,304,304	0
87	MG	n8	203	1/1	0.18	0.90	23,23,23,23	0
88	OHX	6	2109	7/7	0.17	0.89	166,166,166,166	0
88	OHX	6	2185	7/7	0.16	0.88	244,244,244,244	0
87	MG	1	3684	1/1	0.23	0.88	27,27,27,27	0
87	MG	1	3683	1/1	0.15	0.87	21,21,21,21	0
88	OHX	1	4095	7/7	0.17	0.87	207,207,207,207	0
88	OHX	1	3915	7/7	0.18	0.86	98,98,98,98	0
87	MG	n6	201	1/1	0.24	0.86	25,25,25,25	0
87	MG	6	2005	1/1	0.15	0.86	41,41,41,41	0
87	MG	5	3840	1/1	0.17	0.86	12,12,12,12	0
87	MG	8	212	1/1	0.20	0.85	65,65,65,65	0
88	OHX	6	2175	7/7	0.25	0.84	241,241,241,241	0
88	OHX	1	4151	7/7	0.18	0.84	259,259,259,259	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	D9	102	7/7	0.19	0.84	234,234,234,234	0
88	OHX	1	3891	7/7	0.16	0.84	71,71,71,71	0
87	MG	5	3675	1/1	0.19	0.84	15,15,15,15	0
87	MG	1	3436	1/1	0.16	0.83	33,33,33,33	0
87	MG	1	3762	1/1	0.23	0.83	28,28,28,28	0
88	OHX	1	4115	7/7	0.15	0.81	215,215,215,215	0
87	MG	5	3435	1/1	0.16	0.81	62,62,62,62	0
88	OHX	5	4071	7/7	0.17	0.80	151,151,151,151	0
88	OHX	6	2132	7/7	0.18	0.79	196,196,196,196	0
87	MG	5	3573	1/1	0.21	0.79	6,6,6,6	0
88	OHX	5	4030	7/7	0.17	0.78	142,142,142,142	0
87	MG	6	2024	1/1	0.17	0.78	40,40,40,40	0
88	OHX	1	4145	7/7	0.19	0.78	256,256,256,256	0
88	OHX	1	4010	7/7	0.15	0.77	161,161,161,161	0
87	MG	2	1953	1/1	0.22	0.77	70,70,70,70	0
87	MG	5	3648	1/1	0.19	0.77	58,58,58,58	0
88	OHX	1	3929	7/7	0.17	0.76	117,117,117,117	0
87	MG	5	3834	1/1	0.17	0.76	37,37,37,37	0
88	OHX	5	4148	7/7	0.15	0.75	208,208,208,208	0
87	MG	2	1992	1/1	0.28	0.75	53,53,53,53	0
87	MG	2	1920	1/1	0.22	0.74	23,23,23,23	0
88	OHX	6	2152	7/7	0.23	0.73	257,257,257,257	0
88	OHX	1	4150	7/7	0.16	0.73	205,205,205,205	0
88	OHX	5	4066	7/7	0.18	0.73	178,178,178,178	0
87	MG	5	3637	1/1	0.19	0.71	36,36,36,36	0
88	OHX	1	4135	7/7	0.17	0.71	232,232,232,232	0
88	OHX	1	4039	7/7	0.15	0.71	226,226,226,226	0
87	MG	5	3676	1/1	0.13	0.71	38,38,38,38	0
87	MG	1	3560	1/1	0.15	0.71	55,55,55,55	0
87	MG	1	3453	1/1	0.16	0.70	22,22,22,22	0
88	OHX	1	4091	7/7	0.13	0.70	167,167,167,167	0
87	MG	1	3828	1/1	0.19	0.69	40,40,40,40	0
88	OHX	1	4136	7/7	0.17	0.69	209,209,209,209	0
87	MG	6	2027	1/1	0.18	0.69	45,45,45,45	0
88	OHX	5	4217	7/7	0.20	0.69	217,217,217,217	0
88	OHX	1	4170	7/7	0.18	0.68	188,188,188,188	0
88	OHX	2	2134	7/7	0.18	0.68	213,213,213,213	0
87	MG	2	1961	1/1	0.21	0.68	38,38,38,38	0
87	MG	m6	201	1/1	0.21	0.67	36,36,36,36	0
88	OHX	2	2105	7/7	0.17	0.66	193,193,193,193	0
88	OHX	5	4035	7/7	0.16	0.65	139,139,139,139	0
88	OHX	5	4113	7/7	0.17	0.64	242,242,242,242	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	s8	301	1/1	0.26	0.63	38,38,38,38	0
87	MG	1	3741	1/1	0.16	0.63	53,53,53,53	0
88	OHX	6	2128	7/7	0.20	0.63	183,183,183,183	0
88	OHX	1	4174	7/7	0.24	0.62	279,279,279,279	0
88	OHX	6	2108	7/7	0.16	0.62	158,158,158,158	0
87	MG	5	3797	1/1	0.18	0.62	41,41,41,41	0
88	OHX	6	2118	7/7	0.14	0.61	181,181,181,181	0
87	MG	5	3758	1/1	0.23	0.61	55,55,55,55	0
88	OHX	5	4147	7/7	0.18	0.61	225,225,225,225	0
88	OHX	2	2117	7/7	0.19	0.61	205,205,205,205	0
88	OHX	2	2139	7/7	0.20	0.61	238,238,238,238	0
88	OHX	5	4009	7/7	0.18	0.59	141,141,141,141	0
87	MG	l5	302	1/1	0.17	0.59	49,49,49,49	0
87	MG	d4	201	1/1	0.21	0.58	43,43,43,43	0
88	OHX	5	4173	7/7	0.21	0.55	260,260,260,260	0
88	OHX	5	4154	7/7	0.23	0.55	245,245,245,245	0
87	MG	O4	201	1/1	0.21	0.55	42,42,42,42	0
88	OHX	5	4119	7/7	0.15	0.53	167,167,167,167	0
88	OHX	6	2050	7/7	0.15	0.52	70,70,70,70	0
87	MG	2	1988	1/1	0.19	0.51	60,60,60,60	0
88	OHX	1	3906	7/7	0.14	0.51	81,81,81,81	0
87	MG	1	3496	1/1	0.16	0.51	33,33,33,33	0
88	OHX	1	3946	7/7	0.17	0.50	112,112,112,112	0
88	OHX	8	230	7/7	0.17	0.50	267,267,267,267	0
88	OHX	6	2146	7/7	0.17	0.49	219,219,219,219	0
88	OHX	1	3877	7/7	0.18	0.49	55,55,55,55	0
87	MG	1	3423	1/1	0.14	0.48	35,35,35,35	0
88	OHX	1	3909	7/7	0.13	0.47	97,97,97,97	0
88	OHX	6	2193	7/7	0.21	0.47	244,244,244,244	0
87	MG	5	3860	1/1	0.18	0.47	33,33,33,33	0
87	MG	1	3525	1/1	0.23	0.45	42,42,42,42	0
87	MG	1	3491	1/1	0.23	0.45	25,25,25,25	0
87	MG	6	2030	1/1	0.19	0.44	24,24,24,24	0
87	MG	1	3485	1/1	0.18	0.43	24,24,24,24	0
88	OHX	3	222	7/7	0.16	0.43	228,228,228,228	0
91	C	q2	502	20/21	0.31	0.43	84,141,144,144	0
87	MG	1	3789	1/1	0.15	0.42	50,50,50,50	0
88	OHX	2	2024	7/7	0.15	0.42	81,81,81,81	0
91	C	Q2	503	20/21	0.20	0.42	15,72,75,75	0
88	OHX	5	4198	7/7	0.17	0.42	241,241,241,241	0
88	OHX	1	4036	7/7	0.15	0.41	161,161,161,161	0
88	OHX	7	217	7/7	0.14	0.41	128,128,128,128	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	5	3961	7/7	0.14	0.41	109,109,109,109	0
88	OHX	1	4109	7/7	0.13	0.41	219,219,219,219	0
87	MG	5	3753	1/1	0.18	0.41	41,41,41,41	0
88	OHX	5	4171	7/7	0.14	0.41	208,208,208,208	0
88	OHX	5	4196	7/7	0.16	0.40	208,208,208,208	0
87	MG	6	2010	1/1	0.17	0.39	45,45,45,45	0
87	MG	1	3808	1/1	0.20	0.37	70,70,70,70	0
88	OHX	4	220	7/7	0.16	0.37	62,62,62,62	0
88	OHX	1	3873	7/7	0.17	0.36	43,43,43,43	0
88	OHX	8	217	7/7	0.16	0.36	59,59,59,59	0
88	OHX	1	4226	7/7	0.17	0.36	250,250,250,250	0
87	MG	1	3585	1/1	0.29	0.36	7,7,7,7	0
87	MG	5	3436	1/1	0.17	0.36	9,9,9,9	0
87	MG	5	3787	1/1	0.21	0.36	57,57,57,57	0
88	OHX	6	2102	7/7	0.16	0.34	166,166,166,166	0
88	OHX	1	3937	7/7	0.16	0.34	107,107,107,107	0
88	OHX	1	4164	7/7	0.16	0.33	201,201,201,201	0
87	MG	8	214	1/1	0.15	0.32	50,50,50,50	0
88	OHX	5	4045	7/7	0.16	0.31	166,166,166,166	0
88	OHX	5	4103	7/7	0.17	0.31	191,191,191,191	0
88	OHX	5	4233	7/7	0.23	0.31	270,270,270,270	0
88	OHX	2	2174	7/7	0.18	0.30	232,232,232,232	0
87	MG	1	3727	1/1	0.15	0.29	42,42,42,42	0
87	MG	L8	301	1/1	0.25	0.29	47,47,47,47	0
88	OHX	5	4032	7/7	0.17	0.29	140,140,140,140	0
91	C	Q2	502	20/21	0.23	0.29	79,136,138,139	0
88	OHX	6	2151	7/7	0.15	0.28	181,181,181,181	0
87	MG	1	3697	1/1	0.21	0.27	52,52,52,52	0
88	OHX	1	4049	7/7	0.14	0.27	174,174,174,174	0
88	OHX	6	2178	7/7	0.18	0.27	262,262,262,262	0
88	OHX	5	4121	7/7	0.22	0.26	187,187,187,187	0
87	MG	1	3784	1/1	0.12	0.25	42,42,42,42	0
88	OHX	5	3926	7/7	0.16	0.25	70,70,70,70	0
88	OHX	6	2120	7/7	0.15	0.23	148,148,148,148	0
88	OHX	1	4055	7/7	0.15	0.22	157,157,157,157	0
88	OHX	n9	101	7/7	0.15	0.21	70,70,70,70	0
87	MG	5	3817	1/1	0.20	0.21	48,48,48,48	0
90	A	1	3401	22/23	0.19	0.21	10,41,44,44	0
87	MG	1	3818	1/1	0.18	0.21	38,38,38,38	0
88	OHX	5	4062	7/7	0.14	0.21	151,151,151,151	0
87	MG	1	3690	1/1	0.15	0.20	29,29,29,29	0
88	OHX	1	3924	7/7	0.15	0.20	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	1	4017	7/7	0.15	0.20	152,152,152,152	0
88	OHX	2	2040	7/7	0.16	0.20	108,108,108,108	0
88	OHX	5	4161	7/7	0.16	0.20	231,231,231,231	0
88	OHX	5	4120	7/7	0.13	0.20	199,199,199,199	0
88	OHX	6	2177	7/7	0.15	0.18	227,227,227,227	0
87	MG	1	3655	1/1	0.25	0.18	56,56,56,56	0
88	OHX	1	3896	7/7	0.14	0.18	74,74,74,74	0
88	OHX	1	3888	7/7	0.15	0.18	63,63,63,63	0
88	OHX	m4	201	7/7	0.23	0.17	290,290,290,290	0
88	OHX	5	3959	7/7	0.15	0.16	94,94,94,94	0
87	MG	4	203	1/1	0.23	0.16	33,33,33,33	0
87	MG	m7	205	1/1	0.22	0.15	45,45,45,45	0
88	OHX	5	3943	7/7	0.14	0.15	96,96,96,96	0
87	MG	7	211	1/1	0.15	0.15	55,55,55,55	0
88	OHX	5	4083	7/7	0.14	0.15	159,159,159,159	0
88	OHX	1	4050	7/7	0.16	0.15	140,140,140,140	0
88	OHX	1	4111	7/7	0.21	0.14	189,189,189,189	0
88	OHX	5	4088	7/7	0.16	0.13	178,178,178,178	0
88	OHX	5	3949	7/7	0.13	0.12	85,85,85,85	0
87	MG	1	3468	1/1	0.15	0.12	40,40,40,40	0
88	OHX	5	4256	7/7	0.19	0.12	254,254,254,254	0
88	OHX	2	2132	7/7	0.14	0.10	211,211,211,211	0
88	OHX	6	2052	7/7	0.15	0.09	83,83,83,83	0
88	OHX	6	2149	7/7	0.16	0.09	207,207,207,207	0
88	OHX	2	2078	7/7	0.16	0.08	189,189,189,189	0
88	OHX	5	4222	7/7	0.15	0.08	181,181,181,181	0
88	OHX	5	3996	7/7	0.15	0.08	122,122,122,122	0
91	C	q2	503	20/21	0.22	0.07	15,72,74,74	0
87	MG	8	207	1/1	0.18	0.06	41,41,41,41	0
88	OHX	2	2038	7/7	0.15	0.06	113,113,113,113	0
88	OHX	1	3941	7/7	0.15	0.06	107,107,107,107	0
88	OHX	5	4135	7/7	0.13	0.06	167,167,167,167	0
88	OHX	1	4032	7/7	0.17	0.05	163,163,163,163	0
88	OHX	6	2046	7/7	0.14	0.05	60,60,60,60	0
88	OHX	1	4137	7/7	0.17	0.05	207,207,207,207	0
87	MG	5	3605	1/1	0.15	0.04	48,48,48,48	0
88	OHX	1	3882	7/7	0.15	0.03	59,59,59,59	0
88	OHX	5	4059	7/7	0.15	0.02	158,158,158,158	0
88	OHX	3	225	7/7	0.14	0.02	271,271,271,271	0
88	OHX	5	3916	7/7	0.14	0.02	62,62,62,62	0
87	MG	5	3546	1/1	0.16	0.01	1,1,1,1	0
88	OHX	2	2091	7/7	0.14	0.00	192,192,192,192	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	5	3561	1/1	0.15	0.00	27,27,27,27	0
88	OHX	2	2081	7/7	0.17	0.00	191,191,191,191	0
88	OHX	6	2048	7/7	0.15	0.00	70,70,70,70	0
87	MG	5	3827	1/1	0.13	0.00	5,5,5,5	0
88	OHX	6	2180	7/7	0.28	-0.00	279,279,279,279	0
88	OHX	1	3944	7/7	0.15	-0.01	125,125,125,125	0
87	MG	N8	204	1/1	0.18	-0.01	43,43,43,43	0
88	OHX	2	2093	7/7	0.18	-0.01	196,196,196,196	0
88	OHX	O3	201	7/7	0.18	-0.01	178,178,178,178	0
87	MG	5	3430	1/1	0.17	-0.01	22,22,22,22	0
87	MG	5	3804	1/1	0.16	-0.01	64,64,64,64	0
87	MG	1	3844	1/1	0.18	-0.02	7,7,7,7	0
88	OHX	5	4126	7/7	0.16	-0.02	228,228,228,228	0
88	OHX	5	3908	7/7	0.16	-0.03	64,64,64,64	0
88	OHX	6	2195	7/7	0.16	-0.04	231,231,231,231	0
87	MG	6	2021	1/1	0.18	-0.04	31,31,31,31	0
89	ZN	D7	101	1/1	0.32	-0.05	328,328,328,328	0
88	OHX	5	3978	7/7	0.15	-0.05	102,102,102,102	0
88	OHX	1	4000	7/7	0.14	-0.05	143,143,143,143	0
88	OHX	5	4106	7/7	0.16	-0.05	180,180,180,180	0
88	OHX	6	2198	7/7	0.17	-0.05	241,241,241,241	0
88	OHX	5	3972	7/7	0.13	-0.06	101,101,101,101	0
87	MG	5	3673	1/1	0.15	-0.06	25,25,25,25	0
87	MG	1	3770	1/1	0.15	-0.06	41,41,41,41	0
88	OHX	5	4110	7/7	0.15	-0.06	184,184,184,184	0
88	OHX	6	2049	7/7	0.15	-0.07	74,74,74,74	0
88	OHX	1	4002	7/7	0.15	-0.07	143,143,143,143	0
88	OHX	1	4205	7/7	0.15	-0.07	220,220,220,220	0
90	A	5	3401	22/23	0.17	-0.07	14,45,48,49	0
87	MG	m7	203	1/1	0.19	-0.08	50,50,50,50	0
88	OHX	6	2145	7/7	0.18	-0.08	176,176,176,176	0
88	OHX	5	4181	7/7	0.16	-0.08	219,219,219,219	0
88	OHX	6	2199	7/7	0.23	-0.08	255,255,255,255	0
87	MG	1	3467	1/1	0.19	-0.08	34,34,34,34	0
88	OHX	1	4069	7/7	0.15	-0.08	169,169,169,169	0
87	MG	1	3757	1/1	0.18	-0.09	41,41,41,41	0
88	OHX	6	2153	7/7	0.17	-0.09	241,241,241,241	0
88	OHX	2	2033	7/7	0.17	-0.10	109,109,109,109	0
88	OHX	1	4012	7/7	0.16	-0.10	172,172,172,172	0
88	OHX	1	4018	7/7	0.15	-0.11	162,162,162,162	0
88	OHX	5	4095	7/7	0.17	-0.11	177,177,177,177	0
87	MG	5	3681	1/1	0.18	-0.11	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
88	OHX	2	2077	7/7	0.15	-0.12	148,148,148,148	0
87	MG	5	4259	1/1	0.16	-0.12	20,20,20,20	0
88	OHX	1	4030	7/7	0.15	-0.14	164,164,164,164	0
88	OHX	1	4113	7/7	0.21	-0.14	243,243,243,243	0
88	OHX	1	4081	7/7	0.15	-0.15	187,187,187,187	0
88	OHX	5	3906	7/7	0.15	-0.15	51,51,51,51	0
88	OHX	s1	303	7/7	0.23	-0.15	259,259,259,259	0
88	OHX	1	4042	7/7	0.17	-0.16	160,160,160,160	0
88	OHX	5	4023	7/7	0.16	-0.16	177,177,177,177	0
88	OHX	1	4162	7/7	0.17	-0.16	224,224,224,224	0
87	MG	1	3745	1/1	0.17	-0.16	34,34,34,34	0
88	OHX	5	3909	7/7	0.16	-0.17	61,61,61,61	0
88	OHX	5	3947	7/7	0.12	-0.17	89,89,89,89	0
88	OHX	2	2100	7/7	0.20	-0.17	241,241,241,241	0
88	OHX	1	3956	7/7	0.14	-0.18	121,121,121,121	0
88	OHX	6	2111	7/7	0.16	-0.18	163,163,163,163	0
88	OHX	5	3992	7/7	0.14	-0.18	156,156,156,156	0
87	MG	5	3687	1/1	0.15	-0.18	37,37,37,37	0
88	OHX	8	228	7/7	0.17	-0.18	204,204,204,204	0
88	OHX	2	2085	7/7	0.15	-0.19	198,198,198,198	0
87	MG	2	2182	1/1	0.21	-0.19	86,86,86,86	0
88	OHX	1	4134	7/7	0.16	-0.19	231,231,231,231	0
87	MG	6	2014	1/1	0.19	-0.19	34,34,34,34	0
87	MG	5	3773	1/1	0.17	-0.19	71,71,71,71	0
87	MG	1	3490	1/1	0.15	-0.20	5,5,5,5	0
88	OHX	6	2133	7/7	0.22	-0.20	194,194,194,194	0
88	OHX	2	2109	7/7	0.16	-0.20	213,213,213,213	0
87	MG	6	1941	1/1	0.17	-0.21	25,25,25,25	0
87	MG	5	3864	1/1	0.14	-0.21	37,37,37,37	0
87	MG	5	3478	1/1	0.14	-0.22	39,39,39,39	0
88	OHX	5	3910	7/7	0.14	-0.23	54,54,54,54	0
88	OHX	5	4084	7/7	0.16	-0.23	150,150,150,150	0
88	OHX	5	4072	7/7	0.12	-0.23	182,182,182,182	0
88	OHX	1	4116	7/7	0.16	-0.24	209,209,209,209	0
88	OHX	M8	201	7/7	0.16	-0.24	164,164,164,164	0
88	OHX	1	3899	7/7	0.14	-0.25	73,73,73,73	0
88	OHX	6	2068	7/7	0.13	-0.25	119,119,119,119	0
88	OHX	1	3962	7/7	0.16	-0.26	130,130,130,130	0
88	OHX	5	4048	7/7	0.14	-0.26	147,147,147,147	0
87	MG	1	3429	1/1	0.23	-0.26	41,41,41,41	0
88	OHX	1	3887	7/7	0.12	-0.26	66,66,66,66	0
88	OHX	5	4248	7/7	0.31	-0.26	238,238,238,238	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	5	3645	1/1	0.19	-0.27	30,30,30,30	0
88	OHX	6	2055	7/7	0.16	-0.28	92,92,92,92	0
88	OHX	5	3980	7/7	0.15	-0.28	114,114,114,114	0
88	OHX	5	4100	7/7	0.13	-0.28	210,210,210,210	0
88	OHX	6	2051	7/7	0.17	-0.28	79,79,79,79	0
88	OHX	1	4105	7/7	0.12	-0.28	221,221,221,221	0
88	OHX	2	2084	7/7	0.15	-0.29	208,208,208,208	0
88	OHX	n3	204	7/7	0.12	-0.29	168,168,168,168	0
87	MG	2	1977	1/1	0.17	-0.29	44,44,44,44	0
88	OHX	1	4027	7/7	0.14	-0.30	159,159,159,159	0
88	OHX	1	3994	7/7	0.14	-0.30	134,134,134,134	0
87	MG	1	3573	1/1	0.15	-0.31	3,3,3,3	0
88	OHX	5	4002	7/7	0.12	-0.31	123,123,123,123	0
88	OHX	1	4201	7/7	0.18	-0.31	282,282,282,282	0
87	MG	5	3721	1/1	0.19	-0.32	37,37,37,37	0
87	MG	N3	203	1/1	0.16	-0.32	34,34,34,34	0
88	OHX	5	4125	7/7	0.14	-0.32	193,193,193,193	0
88	OHX	5	3973	7/7	0.13	-0.32	103,103,103,103	0
88	OHX	6	2062	7/7	0.13	-0.33	106,106,106,106	0
88	OHX	5	4008	7/7	0.15	-0.33	138,138,138,138	0
88	OHX	1	4175	7/7	0.17	-0.33	210,210,210,210	0
88	OHX	2	2170	7/7	0.17	-0.33	196,196,196,196	0
88	OHX	5	3995	7/7	0.13	-0.35	115,115,115,115	0
88	OHX	5	4225	7/7	0.20	-0.35	269,269,269,269	0
88	OHX	5	4247	7/7	0.15	-0.35	172,172,172,172	0
88	OHX	4	228	7/7	0.15	-0.35	188,188,188,188	0
88	OHX	2	2058	7/7	0.12	-0.35	137,137,137,137	0
87	MG	6	1991	1/1	0.16	-0.36	35,35,35,35	0
87	MG	2	1995	1/1	0.17	-0.36	38,38,38,38	0
88	OHX	2	2108	7/7	0.14	-0.36	199,199,199,199	0
88	OHX	5	4128	7/7	0.14	-0.36	206,206,206,206	0
88	OHX	1	4093	7/7	0.17	-0.36	227,227,227,227	0
87	MG	5	3426	1/1	0.16	-0.36	4,4,4,4	0
88	OHX	5	3977	7/7	0.14	-0.37	114,114,114,114	0
88	OHX	5	4123	7/7	0.15	-0.37	192,192,192,192	0
88	OHX	5	4078	7/7	0.16	-0.37	167,167,167,167	0
88	OHX	1	3928	7/7	0.15	-0.37	96,96,96,96	0
87	MG	5	3670	1/1	0.15	-0.37	12,12,12,12	0
87	MG	2	1987	1/1	0.15	-0.38	40,40,40,40	0
88	OHX	5	3905	7/7	0.16	-0.38	50,50,50,50	0
87	MG	1	3783	1/1	0.16	-0.38	15,15,15,15	0
88	OHX	5	4040	7/7	0.14	-0.39	163,163,163,163	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	2	2161	7/7	0.23	-0.39	312,312,312,312	0
87	MG	6	1969	1/1	0.14	-0.39	35,35,35,35	0
88	OHX	1	4060	7/7	0.13	-0.40	188,188,188,188	0
88	OHX	5	4257	7/7	0.21	-0.40	289,289,289,289	0
88	OHX	5	4251	7/7	0.15	-0.40	243,243,243,243	0
88	OHX	5	4102	7/7	0.14	-0.40	191,191,191,191	0
88	OHX	1	3894	7/7	0.14	-0.40	72,72,72,72	0
88	OHX	1	3976	7/7	0.13	-0.40	144,144,144,144	0
88	OHX	d4	202	7/7	0.18	-0.40	213,213,213,213	0
88	OHX	2	2076	7/7	0.15	-0.41	193,193,193,193	0
88	OHX	5	4049	7/7	0.16	-0.41	156,156,156,156	0
88	OHX	6	2162	7/7	0.15	-0.41	210,210,210,210	0
88	OHX	5	3903	7/7	0.14	-0.41	43,43,43,43	0
88	OHX	L3	406	7/7	0.29	-0.41	237,237,237,237	0
87	MG	7	207	1/1	0.13	-0.41	54,54,54,54	0
87	MG	5	3846	1/1	0.17	-0.41	18,18,18,18	0
88	OHX	1	4163	7/7	0.21	-0.41	255,255,255,255	0
87	MG	5	3531	1/1	0.17	-0.42	21,21,21,21	0
88	OHX	6	2139	7/7	0.14	-0.42	242,242,242,242	0
87	MG	1	3522	1/1	0.15	-0.42	21,21,21,21	0
88	OHX	6	2044	7/7	0.14	-0.42	55,55,55,55	0
87	MG	1	3775	1/1	0.15	-0.42	34,34,34,34	0
88	OHX	6	2104	7/7	0.15	-0.42	184,184,184,184	0
88	OHX	5	4039	7/7	0.14	-0.43	155,155,155,155	0
87	MG	L5	301	1/1	0.23	-0.45	32,32,32,32	0
88	OHX	1	3960	7/7	0.12	-0.45	118,118,118,118	0
87	MG	6	1988	1/1	0.14	-0.45	47,47,47,47	0
88	OHX	5	4122	7/7	0.14	-0.46	150,150,150,150	0
88	OHX	8	225	7/7	0.23	-0.46	222,222,222,222	0
88	OHX	2	2027	7/7	0.13	-0.46	81,81,81,81	0
87	MG	6	1983	1/1	0.14	-0.47	42,42,42,42	0
87	MG	2	1997	1/1	0.13	-0.47	33,33,33,33	0
87	MG	2	1947	1/1	0.13	-0.48	30,30,30,30	0
87	MG	5	3835	1/1	0.15	-0.48	60,60,60,60	0
88	OHX	2	2075	7/7	0.17	-0.48	209,209,209,209	0
87	MG	5	3457	1/1	0.16	-0.48	44,44,44,44	0
87	MG	1	3718	1/1	0.16	-0.48	27,27,27,27	0
88	OHX	5	4101	7/7	0.14	-0.49	197,197,197,197	0
88	OHX	5	3976	7/7	0.13	-0.49	110,110,110,110	0
88	OHX	7	216	7/7	0.14	-0.49	103,103,103,103	0
87	MG	2	2000	1/1	0.15	-0.49	31,31,31,31	0
88	OHX	3	223	7/7	0.14	-0.49	235,235,235,235	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
88	OHX	6	2158	7/7	0.15	-0.49	193,193,193,193	0
88	OHX	1	4119	7/7	0.15	-0.49	190,190,190,190	0
88	OHX	6	2124	7/7	0.14	-0.50	218,218,218,218	0
88	OHX	2	2110	7/7	0.14	-0.50	203,203,203,203	0
87	MG	2	1940	1/1	0.17	-0.50	39,39,39,39	0
88	OHX	1	4023	7/7	0.14	-0.50	155,155,155,155	0
87	MG	2	1989	1/1	0.23	-0.51	30,30,30,30	0
87	MG	5	3421	1/1	0.13	-0.51	34,34,34,34	0
88	OHX	1	4120	7/7	0.13	-0.51	230,230,230,230	0
87	MG	6	1995	1/1	0.16	-0.51	47,47,47,47	0
87	MG	1	3635	1/1	0.14	-0.52	48,48,48,48	0
88	OHX	5	4231	7/7	0.16	-0.53	285,285,285,285	0
88	OHX	5	4250	7/7	0.15	-0.53	233,233,233,233	0
88	OHX	6	2100	7/7	0.14	-0.53	170,170,170,170	0
87	MG	q3	503	1/1	0.24	-0.53	66,66,66,66	0
88	OHX	1	3933	7/7	0.12	-0.54	93,93,93,93	0
87	MG	1	3769	1/1	0.16	-0.55	38,38,38,38	0
88	OHX	1	4047	7/7	0.15	-0.55	143,143,143,143	0
88	OHX	5	4017	7/7	0.14	-0.55	136,136,136,136	0
88	OHX	2	2035	7/7	0.18	-0.56	111,111,111,111	0
88	OHX	1	4104	7/7	0.13	-0.56	194,194,194,194	0
88	OHX	2	2177	7/7	0.15	-0.56	275,275,275,275	0
87	MG	L3	402	1/1	0.15	-0.57	53,53,53,53	0
87	MG	n8	201	1/1	0.15	-0.57	21,21,21,21	0
87	MG	5	3754	1/1	0.16	-0.57	54,54,54,54	0
88	OHX	2	2043	7/7	0.13	-0.57	132,132,132,132	0
88	OHX	6	2105	7/7	0.17	-0.57	196,196,196,196	0
88	OHX	5	3986	7/7	0.13	-0.57	120,120,120,120	0
88	OHX	1	4114	7/7	0.15	-0.58	205,205,205,205	0
88	OHX	5	4014	7/7	0.16	-0.58	142,142,142,142	0
88	OHX	2	2064	7/7	0.14	-0.58	146,146,146,146	0
88	OHX	5	3990	7/7	0.12	-0.58	119,119,119,119	0
88	OHX	5	4179	7/7	0.16	-0.59	218,218,218,218	0
88	OHX	1	4063	7/7	0.15	-0.59	158,158,158,158	0
88	OHX	6	2056	7/7	0.13	-0.59	94,94,94,94	0
88	OHX	1	3876	7/7	0.14	-0.60	52,52,52,52	0
88	OHX	5	4038	7/7	0.13	-0.60	153,153,153,153	0
88	OHX	6	2121	7/7	0.15	-0.60	213,213,213,213	0
88	OHX	1	4171	7/7	0.15	-0.60	247,247,247,247	0
88	OHX	1	3889	7/7	0.14	-0.60	77,77,77,77	0
88	OHX	1	3945	7/7	0.14	-0.60	109,109,109,109	0
88	OHX	5	4098	7/7	0.14	-0.61	178,178,178,178	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	5	3759	1/1	0.15	-0.61	41,41,41,41	0
88	OHX	1	4128	7/7	0.13	-0.61	222,222,222,222	0
87	MG	5	3826	1/1	0.20	-0.62	33,33,33,33	0
89	ZN	d7	101	1/1	0.25	-0.62	285,285,285,285	0
88	OHX	D3	202	7/7	0.17	-0.62	201,201,201,201	0
87	MG	5	3776	1/1	0.21	-0.62	50,50,50,50	0
88	OHX	1	3932	7/7	0.14	-0.63	102,102,102,102	0
87	MG	1	3667	1/1	0.16	-0.63	51,51,51,51	0
88	OHX	5	3968	7/7	0.11	-0.63	98,98,98,98	0
88	OHX	7	215	7/7	0.13	-0.63	89,89,89,89	0
88	OHX	5	3941	7/7	0.13	-0.63	81,81,81,81	0
88	OHX	6	2126	7/7	0.14	-0.63	177,177,177,177	0
88	OHX	1	3947	7/7	0.15	-0.63	115,115,115,115	0
88	OHX	5	4193	7/7	0.15	-0.64	264,264,264,264	0
88	OHX	1	4194	7/7	0.16	-0.64	293,293,293,293	0
87	MG	1	3640	1/1	0.18	-0.64	49,49,49,49	0
88	OHX	6	2103	7/7	0.15	-0.64	146,146,146,146	0
88	OHX	c1	202	7/7	0.14	-0.65	216,216,216,216	0
88	OHX	1	4077	7/7	0.15	-0.65	172,172,172,172	0
88	OHX	1	4019	7/7	0.12	-0.65	149,149,149,149	0
88	OHX	1	3912	7/7	0.14	-0.66	82,82,82,82	0
88	OHX	5	4137	7/7	0.14	-0.66	171,171,171,171	0
88	OHX	d9	102	7/7	0.14	-0.66	235,235,235,235	0
88	OHX	1	4065	7/7	0.14	-0.66	180,180,180,180	0
88	OHX	5	4057	7/7	0.15	-0.66	144,144,144,144	0
87	MG	1	3614	1/1	0.12	-0.67	30,30,30,30	0
88	OHX	5	3901	7/7	0.16	-0.67	43,43,43,43	0
88	OHX	1	3982	7/7	0.14	-0.67	155,155,155,155	0
87	MG	1	3869	1/1	0.13	-0.67	158,158,158,158	0
87	MG	5	3408	1/1	0.11	-0.67	30,30,30,30	0
88	OHX	2	2092	7/7	0.14	-0.67	206,206,206,206	0
88	OHX	2	2178	7/7	0.12	-0.68	277,277,277,277	0
87	MG	1	3416	1/1	0.12	-0.68	20,20,20,20	0
87	MG	5	3793	1/1	0.16	-0.68	17,17,17,17	0
88	OHX	5	4089	7/7	0.12	-0.68	177,177,177,177	0
88	OHX	6	2163	7/7	0.17	-0.69	239,239,239,239	0
88	OHX	4	226	7/7	0.13	-0.69	150,150,150,150	0
88	OHX	7	223	7/7	0.14	-0.70	204,204,204,204	0
88	OHX	1	3988	7/7	0.14	-0.70	130,130,130,130	0
87	MG	M9	201	1/1	0.20	-0.70	58,58,58,58	0
88	OHX	5	4064	7/7	0.14	-0.70	157,157,157,157	0
88	OHX	5	4111	7/7	0.13	-0.71	168,168,168,168	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	l5	304	7/7	0.13	-0.72	239,239,239,239	0
88	OHX	1	4083	7/7	0.14	-0.73	183,183,183,183	0
88	OHX	1	4087	7/7	0.12	-0.73	188,188,188,188	0
88	OHX	2	2067	7/7	0.13	-0.73	171,171,171,171	0
88	OHX	6	2081	7/7	0.13	-0.74	142,142,142,142	0
88	OHX	2	2046	7/7	0.13	-0.74	131,131,131,131	0
88	OHX	1	3948	7/7	0.12	-0.74	122,122,122,122	0
88	OHX	1	4100	7/7	0.17	-0.74	204,204,204,204	0
87	MG	1	3726	1/1	0.15	-0.74	60,60,60,60	0
87	MG	1	3738	1/1	0.14	-0.75	16,16,16,16	0
87	MG	5	3792	1/1	0.13	-0.75	40,40,40,40	0
88	OHX	2	2095	7/7	0.15	-0.75	183,183,183,183	0
88	OHX	5	4027	7/7	0.13	-0.76	132,132,132,132	0
88	OHX	7	220	7/7	0.11	-0.76	128,128,128,128	0
88	OHX	5	4131	7/7	0.12	-0.77	193,193,193,193	0
88	OHX	1	4089	7/7	0.11	-0.78	187,187,187,187	0
88	OHX	m1	203	7/7	0.17	-0.78	259,259,259,259	0
88	OHX	2	2147	7/7	0.14	-0.78	238,238,238,238	0
88	OHX	1	4101	7/7	0.15	-0.78	136,136,136,136	0
88	OHX	1	3916	7/7	0.13	-0.79	88,88,88,88	0
88	OHX	2	2130	7/7	0.16	-0.79	188,188,188,188	0
88	OHX	5	4028	7/7	0.13	-0.79	143,143,143,143	0
88	OHX	6	2082	7/7	0.14	-0.79	136,136,136,136	0
88	OHX	5	4019	7/7	0.13	-0.80	138,138,138,138	0
87	MG	1	3450	1/1	0.12	-0.80	32,32,32,32	0
87	MG	m5	304	1/1	0.15	-0.81	26,26,26,26	0
88	OHX	2	2115	7/7	0.15	-0.81	184,184,184,184	0
88	OHX	2	2055	7/7	0.13	-0.81	150,150,150,150	0
87	MG	5	3679	1/1	0.15	-0.81	38,38,38,38	0
88	OHX	1	3979	7/7	0.12	-0.81	129,129,129,129	0
87	MG	6	1997	1/1	0.15	-0.81	30,30,30,30	0
88	OHX	5	3966	7/7	0.15	-0.81	108,108,108,108	0
88	OHX	6	2115	7/7	0.13	-0.82	152,152,152,152	0
88	OHX	6	2155	7/7	0.16	-0.82	215,215,215,215	0
88	OHX	1	4051	7/7	0.11	-0.82	184,184,184,184	0
87	MG	1	3721	1/1	0.12	-0.82	51,51,51,51	0
87	MG	1	3815	1/1	0.16	-0.82	59,59,59,59	0
88	OHX	1	3985	7/7	0.15	-0.83	149,149,149,149	0
88	OHX	1	3953	7/7	0.11	-0.83	114,114,114,114	0
88	OHX	2	2149	7/7	0.12	-0.83	256,256,256,256	0
87	MG	5	3604	1/1	0.13	-0.84	19,19,19,19	0
87	MG	d6	102	1/1	0.18	-0.84	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	2	2129	7/7	0.19	-0.84	299,299,299,299	0
87	MG	5	3708	1/1	0.13	-0.84	44,44,44,44	0
88	OHX	2	2125	7/7	0.13	-0.85	212,212,212,212	0
88	OHX	3	218	7/7	0.09	-0.85	147,147,147,147	0
88	OHX	5	4051	7/7	0.12	-0.85	150,150,150,150	0
88	OHX	6	2125	7/7	0.12	-0.85	177,177,177,177	0
88	OHX	2	2140	7/7	0.15	-0.85	273,273,273,273	0
88	OHX	5	4114	7/7	0.15	-0.85	132,132,132,132	0
88	OHX	6	2116	7/7	0.13	-0.85	146,146,146,146	0
87	MG	1	4227	1/1	0.15	-0.86	5,5,5,5	0
88	OHX	5	4031	7/7	0.15	-0.86	125,125,125,125	0
88	OHX	5	4238	7/7	0.13	-0.87	228,228,228,228	0
88	OHX	2	2124	7/7	0.15	-0.87	213,213,213,213	0
88	OHX	O7	103	7/7	0.13	-0.87	125,125,125,125	0
87	MG	1	3427	1/1	0.13	-0.88	54,54,54,54	0
87	MG	m7	202	1/1	0.14	-0.88	14,14,14,14	0
87	MG	5	3815	1/1	0.12	-0.88	36,36,36,36	0
88	OHX	6	2127	7/7	0.13	-0.88	190,190,190,190	0
88	OHX	1	3993	7/7	0.15	-0.89	141,141,141,141	0
88	OHX	2	2026	7/7	0.13	-0.89	89,89,89,89	0
88	OHX	5	4043	7/7	0.13	-0.89	163,163,163,163	0
88	OHX	1	3995	7/7	0.14	-0.89	140,140,140,140	0
88	OHX	2	2121	7/7	0.09	-0.89	237,237,237,237	0
88	OHX	2	2032	7/7	0.13	-0.90	106,106,106,106	0
88	OHX	l9	600	7/7	0.13	-0.90	219,219,219,219	0
88	OHX	o7	502	7/7	0.10	-0.90	123,123,123,123	0
88	OHX	8	218	7/7	0.10	-0.90	135,135,135,135	0
87	MG	2	1950	1/1	0.14	-0.90	29,29,29,29	0
88	OHX	7	221	7/7	0.10	-0.91	135,135,135,135	0
88	OHX	1	3967	7/7	0.13	-0.91	124,124,124,124	0
88	OHX	l3	406	7/7	0.17	-0.92	200,200,200,200	0
88	OHX	2	2123	7/7	0.12	-0.92	212,212,212,212	0
88	OHX	m0	302	7/7	0.13	-0.92	232,232,232,232	0
88	OHX	1	3954	7/7	0.11	-0.92	112,112,112,112	0
88	OHX	2	2180	7/7	0.15	-0.92	300,300,300,300	0
88	OHX	7	222	7/7	0.11	-0.92	170,170,170,170	0
88	OHX	6	2078	7/7	0.13	-0.93	116,116,116,116	0
88	OHX	2	2069	7/7	0.12	-0.94	154,154,154,154	0
88	OHX	5	4093	7/7	0.13	-0.94	154,154,154,154	0
88	OHX	2	2114	7/7	0.13	-0.94	208,208,208,208	0
87	MG	2	2181	1/1	0.13	-0.94	58,58,58,58	0
87	MG	1	3626	1/1	0.15	-0.94	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	5	3774	1/1	0.22	-0.95	56,56,56,56	0
88	OHX	1	4224	7/7	0.12	-0.95	281,281,281,281	0
88	OHX	6	2072	7/7	0.12	-0.96	108,108,108,108	0
88	OHX	q2	504	7/7	0.13	-0.97	138,138,138,138	0
87	MG	1	3720	1/1	0.11	-0.98	21,21,21,21	0
88	OHX	1	4037	7/7	0.12	-0.98	161,161,161,161	0
89	ZN	Q0	500	1/1	0.12	-0.99	44,44,44,44	0
87	MG	c9	201	1/1	0.17	-0.99	44,44,44,44	0
87	MG	5	3725	1/1	0.13	-1.00	37,37,37,37	0
87	MG	sM	401	1/1	0.16	-1.00	28,28,28,28	0
88	OHX	6	2065	7/7	0.12	-1.01	104,104,104,104	0
88	OHX	2	2057	7/7	0.11	-1.02	171,171,171,171	0
88	OHX	5	4133	7/7	0.14	-1.02	196,196,196,196	0
88	OHX	2	2141	7/7	0.13	-1.02	222,222,222,222	0
88	OHX	1	3950	7/7	0.13	-1.02	111,111,111,111	0
88	OHX	1	3895	7/7	0.15	-1.02	76,76,76,76	0
88	OHX	5	4144	7/7	0.10	-1.04	222,222,222,222	0
87	MG	l5	301	1/1	0.11	-1.04	56,56,56,56	0
88	OHX	5	3988	7/7	0.12	-1.04	123,123,123,123	0
88	OHX	2	2138	7/7	0.13	-1.04	203,203,203,203	0
88	OHX	1	4043	7/7	0.14	-1.04	170,170,170,170	0
88	OHX	1	4016	7/7	0.12	-1.04	175,175,175,175	0
88	OHX	1	4092	7/7	0.14	-1.05	205,205,205,205	0
87	MG	1	3421	1/1	0.17	-1.05	43,43,43,43	0
88	OHX	1	4045	7/7	0.14	-1.05	157,157,157,157	0
88	OHX	1	4024	7/7	0.12	-1.06	166,166,166,166	0
88	OHX	5	4004	7/7	0.12	-1.06	129,129,129,129	0
87	MG	5	3705	1/1	0.13	-1.06	50,50,50,50	0
88	OHX	6	2083	7/7	0.13	-1.06	118,118,118,118	0
87	MG	D3	201	1/1	0.11	-1.06	36,36,36,36	0
88	OHX	6	2061	7/7	0.13	-1.06	110,110,110,110	0
87	MG	1	3598	1/1	0.12	-1.06	15,15,15,15	0
88	OHX	6	2191	7/7	0.12	-1.07	282,282,282,282	0
88	OHX	2	2030	7/7	0.14	-1.07	97,97,97,97	0
88	OHX	c8	202	7/7	0.11	-1.07	186,186,186,186	0
88	OHX	2	2089	7/7	0.09	-1.07	168,168,168,168	0
88	OHX	1	3927	7/7	0.11	-1.07	95,95,95,95	0
88	OHX	6	2053	7/7	0.13	-1.08	73,73,73,73	0
87	MG	n0	201	1/1	0.10	-1.08	48,48,48,48	0
88	OHX	2	2122	7/7	0.11	-1.09	222,222,222,222	0
88	OHX	5	3969	7/7	0.12	-1.09	102,102,102,102	0
88	OHX	1	4167	7/7	0.14	-1.09	221,221,221,221	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	1	4144	7/7	0.16	-1.09	273,273,273,273	0
88	OHX	1	4158	7/7	0.10	-1.09	257,257,257,257	0
87	MG	5	3727	1/1	0.12	-1.10	18,18,18,18	0
88	OHX	1	4031	7/7	0.14	-1.10	176,176,176,176	0
87	MG	6	1940	1/1	0.13	-1.11	17,17,17,17	0
88	OHX	2	2096	7/7	0.12	-1.11	185,185,185,185	0
88	OHX	5	3987	7/7	0.13	-1.12	113,113,113,113	0
88	OHX	1	4096	7/7	0.12	-1.12	191,191,191,191	0
88	OHX	6	2172	7/7	0.13	-1.13	240,240,240,240	0
88	OHX	5	4116	7/7	0.14	-1.13	164,164,164,164	0
87	MG	1	3406	1/1	0.24	-1.13	38,38,38,38	0
88	OHX	2	2150	7/7	0.16	-1.13	273,273,273,273	0
88	OHX	5	4195	7/7	0.15	-1.14	230,230,230,230	0
88	OHX	5	3913	7/7	0.13	-1.14	64,64,64,64	0
88	OHX	1	3931	7/7	0.10	-1.15	96,96,96,96	0
87	MG	1	3716	1/1	0.17	-1.15	41,41,41,41	0
88	OHX	1	4011	7/7	0.14	-1.15	126,126,126,126	0
88	OHX	5	4105	7/7	0.17	-1.15	188,188,188,188	0
88	OHX	6	2190	7/7	0.12	-1.15	304,304,304,304	0
87	MG	5	3731	1/1	0.12	-1.16	37,37,37,37	0
87	MG	5	3822	1/1	0.14	-1.16	58,58,58,58	0
88	OHX	6	2110	7/7	0.12	-1.16	134,134,134,134	0
89	ZN	d9	101	1/1	0.11	-1.17	61,61,61,61	0
88	OHX	1	4014	7/7	0.12	-1.17	166,166,166,166	0
88	OHX	1	3875	7/7	0.13	-1.17	45,45,45,45	0
89	ZN	q3	501	1/1	0.08	-1.17	65,65,65,65	0
88	OHX	5	4214	7/7	0.13	-1.17	281,281,281,281	0
88	OHX	1	3968	7/7	0.13	-1.18	110,110,110,110	0
88	OHX	L4	402	7/7	0.15	-1.18	252,252,252,252	0
88	OHX	1	3942	7/7	0.09	-1.19	107,107,107,107	0
88	OHX	1	3977	7/7	0.13	-1.19	133,133,133,133	0
88	OHX	5	4159	7/7	0.13	-1.19	178,178,178,178	0
88	OHX	6	2200	7/7	0.15	-1.20	237,237,237,237	0
88	OHX	5	3904	7/7	0.13	-1.20	50,50,50,50	0
88	OHX	5	3963	7/7	0.12	-1.20	94,94,94,94	0
87	MG	2	1999	1/1	0.11	-1.20	85,85,85,85	0
89	ZN	D9	101	1/1	0.10	-1.20	66,66,66,66	0
87	MG	1	3426	1/1	0.14	-1.20	14,14,14,14	0
88	OHX	6	2141	7/7	0.12	-1.21	181,181,181,181	0
88	OHX	2	2036	7/7	0.11	-1.21	105,105,105,105	0
88	OHX	1	4141	7/7	0.10	-1.21	229,229,229,229	0
87	MG	5	3785	1/1	0.14	-1.21	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	1	4044	7/7	0.12	-1.21	148,148,148,148	0
87	MG	1	3817	1/1	0.14	-1.21	37,37,37,37	0
88	OHX	1	4035	7/7	0.09	-1.22	189,189,189,189	0
88	OHX	2	2107	7/7	0.11	-1.22	174,174,174,174	0
88	OHX	6	2066	7/7	0.12	-1.23	111,111,111,111	0
88	OHX	5	4140	7/7	0.12	-1.23	179,179,179,179	0
88	OHX	2	2106	7/7	0.14	-1.23	196,196,196,196	0
88	OHX	1	3925	7/7	0.12	-1.24	102,102,102,102	0
88	OHX	5	3982	7/7	0.14	-1.24	105,105,105,105	0
88	OHX	14	403	7/7	0.12	-1.24	317,317,317,317	0
88	OHX	8	219	7/7	0.14	-1.24	128,128,128,128	0
87	MG	2	1971	1/1	0.14	-1.24	26,26,26,26	0
88	OHX	4	224	7/7	0.07	-1.24	166,166,166,166	0
88	OHX	1	3981	7/7	0.12	-1.25	166,166,166,166	0
88	OHX	3	216	7/7	0.13	-1.25	148,148,148,148	0
88	OHX	2	2056	7/7	0.12	-1.25	149,149,149,149	0
88	OHX	1	4129	7/7	0.13	-1.25	194,194,194,194	0
88	OHX	5	4187	7/7	0.17	-1.25	237,237,237,237	0
88	OHX	2	2101	7/7	0.11	-1.25	199,199,199,199	0
88	OHX	2	2042	7/7	0.13	-1.26	108,108,108,108	0
88	OHX	1	3990	7/7	0.11	-1.26	132,132,132,132	0
88	OHX	1	4056	7/7	0.13	-1.26	175,175,175,175	0
87	MG	2	1994	1/1	0.14	-1.26	51,51,51,51	0
88	OHX	5	3936	7/7	0.12	-1.27	82,82,82,82	0
88	OHX	2	2165	7/7	0.14	-1.27	306,306,306,306	0
88	OHX	2	2023	7/7	0.13	-1.27	75,75,75,75	0
88	OHX	5	4052	7/7	0.14	-1.27	155,155,155,155	0
88	OHX	1	3898	7/7	0.13	-1.28	74,74,74,74	0
88	OHX	2	2049	7/7	0.13	-1.28	135,135,135,135	0
88	OHX	1	3959	7/7	0.12	-1.28	132,132,132,132	0
87	MG	5	3829	1/1	0.14	-1.28	33,33,33,33	0
88	OHX	5	3933	7/7	0.14	-1.28	71,71,71,71	0
88	OHX	m0	301	7/7	0.12	-1.28	148,148,148,148	0
88	OHX	8	223	7/7	0.11	-1.28	162,162,162,162	0
88	OHX	L3	405	7/7	0.12	-1.29	157,157,157,157	0
88	OHX	6	2136	7/7	0.12	-1.29	206,206,206,206	0
88	OHX	1	4197	7/7	0.14	-1.30	233,233,233,233	0
88	OHX	5	4005	7/7	0.14	-1.30	114,114,114,114	0
88	OHX	1	4106	7/7	0.12	-1.30	179,179,179,179	0
87	MG	M0	302	1/1	0.17	-1.31	24,24,24,24	0
87	MG	6	1971	1/1	0.14	-1.31	22,22,22,22	0
88	OHX	1	3987	7/7	0.14	-1.32	149,149,149,149	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	6	2166	7/7	0.13	-1.32	235,235,235,235	0
87	MG	5	3716	1/1	0.08	-1.33	67,67,67,67	0
88	OHX	2	2126	7/7	0.14	-1.34	205,205,205,205	0
88	OHX	5	4230	7/7	0.13	-1.35	270,270,270,270	0
87	MG	1	3444	1/1	0.11	-1.35	42,42,42,42	0
88	OHX	5	3935	7/7	0.13	-1.36	83,83,83,83	0
88	OHX	c3	201	7/7	0.16	-1.36	248,248,248,248	0
88	OHX	1	3966	7/7	0.11	-1.36	108,108,108,108	0
88	OHX	6	2091	7/7	0.09	-1.36	139,139,139,139	0
87	MG	8	206	1/1	0.13	-1.37	39,39,39,39	0
87	MG	6	1966	1/1	0.14	-1.38	39,39,39,39	0
88	OHX	5	3902	7/7	0.14	-1.38	41,41,41,41	0
88	OHX	2	2051	7/7	0.11	-1.39	123,123,123,123	0
88	OHX	1	3958	7/7	0.11	-1.39	127,127,127,127	0
88	OHX	6	2106	7/7	0.10	-1.39	158,158,158,158	0
88	OHX	6	2160	7/7	0.16	-1.40	233,233,233,233	0
88	OHX	1	3984	7/7	0.09	-1.40	136,136,136,136	0
88	OHX	1	4073	7/7	0.11	-1.40	181,181,181,181	0
87	MG	1	3703	1/1	0.12	-1.40	12,12,12,12	0
88	OHX	5	3939	7/7	0.10	-1.40	83,83,83,83	0
88	OHX	2	2060	7/7	0.12	-1.41	151,151,151,151	0
88	OHX	2	2102	7/7	0.13	-1.42	174,174,174,174	0
88	OHX	1	3957	7/7	0.12	-1.42	124,124,124,124	0
88	OHX	1	3920	7/7	0.12	-1.42	98,98,98,98	0
88	OHX	6	2064	7/7	0.10	-1.43	127,127,127,127	0
88	OHX	6	2088	7/7	0.13	-1.43	176,176,176,176	0
88	OHX	6	2169	7/7	0.14	-1.43	219,219,219,219	0
88	OHX	5	3922	7/7	0.13	-1.44	68,68,68,68	0
88	OHX	2	2072	7/7	0.10	-1.44	158,158,158,158	0
88	OHX	2	2158	7/7	0.14	-1.44	307,307,307,307	0
88	OHX	2	2034	7/7	0.12	-1.44	99,99,99,99	0
87	MG	5	3448	1/1	0.12	-1.44	29,29,29,29	0
88	OHX	5	3981	7/7	0.14	-1.45	110,110,110,110	0
88	OHX	6	2092	7/7	0.11	-1.45	166,166,166,166	0
87	MG	1	3622	1/1	0.08	-1.46	36,36,36,36	0
88	OHX	5	4061	7/7	0.12	-1.46	169,169,169,169	0
88	OHX	5	3954	7/7	0.14	-1.46	99,99,99,99	0
88	OHX	5	3983	7/7	0.13	-1.47	121,121,121,121	0
87	MG	5	3702	1/1	0.14	-1.47	32,32,32,32	0
87	MG	5	3744	1/1	0.12	-1.47	29,29,29,29	0
87	MG	6	1967	1/1	0.12	-1.47	29,29,29,29	0
88	OHX	1	3980	7/7	0.10	-1.48	118,118,118,118	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	MG	5	3760	1/1	0.12	-1.48	34,34,34,34	0
88	OHX	1	4041	7/7	0.12	-1.48	169,169,169,169	0
88	OHX	5	4077	7/7	0.14	-1.48	184,184,184,184	0
87	MG	6	2023	1/1	0.09	-1.49	61,61,61,61	0
88	OHX	O7	104	7/7	0.12	-1.50	126,126,126,126	0
87	MG	5	3603	1/1	0.10	-1.50	21,21,21,21	0
88	OHX	1	4195	7/7	0.16	-1.50	259,259,259,259	0
88	OHX	1	4005	7/7	0.13	-1.50	162,162,162,162	0
88	OHX	5	3918	7/7	0.12	-1.50	70,70,70,70	0
88	OHX	5	4220	7/7	0.11	-1.51	248,248,248,248	0
88	OHX	5	3944	7/7	0.12	-1.51	97,97,97,97	0
89	ZN	e1	501	1/1	0.10	-1.52	160,160,160,160	0
88	OHX	5	4036	7/7	0.12	-1.52	162,162,162,162	0
88	OHX	8	226	7/7	0.13	-1.52	259,259,259,259	0
88	OHX	n3	203	7/7	0.10	-1.52	92,92,92,92	0
88	OHX	1	4038	7/7	0.14	-1.53	165,165,165,165	0
87	MG	5	3852	1/1	0.17	-1.53	47,47,47,47	0
88	OHX	6	2075	7/7	0.10	-1.53	124,124,124,124	0
88	OHX	1	4161	7/7	0.14	-1.54	216,216,216,216	0
88	OHX	3	221	7/7	0.11	-1.54	180,180,180,180	0
87	MG	5	3772	1/1	0.11	-1.54	18,18,18,18	0
88	OHX	1	4004	7/7	0.11	-1.54	160,160,160,160	0
89	ZN	Q3	501	1/1	0.06	-1.54	61,61,61,61	0
87	MG	5	3871	1/1	0.11	-1.54	18,18,18,18	0
88	OHX	2	2028	7/7	0.14	-1.55	99,99,99,99	0
88	OHX	1	3921	7/7	0.12	-1.55	93,93,93,93	0
87	MG	5	3487	1/1	0.11	-1.55	28,28,28,28	0
87	MG	5	3680	1/1	0.15	-1.56	51,51,51,51	0
89	ZN	q0	201	1/1	0.12	-1.57	41,41,41,41	0
88	OHX	5	3957	7/7	0.13	-1.57	102,102,102,102	0
89	ZN	o7	501	1/1	0.11	-1.57	40,40,40,40	0
88	OHX	5	3911	7/7	0.13	-1.57	49,49,49,49	0
88	OHX	5	4107	7/7	0.11	-1.57	187,187,187,187	0
88	OHX	2	2031	7/7	0.12	-1.58	99,99,99,99	0
88	OHX	5	4108	7/7	0.14	-1.59	182,182,182,182	0
88	OHX	1	3999	7/7	0.12	-1.59	166,166,166,166	0
88	OHX	1	3878	7/7	0.13	-1.60	52,52,52,52	0
88	OHX	2	2047	7/7	0.08	-1.61	135,135,135,135	0
89	ZN	O7	101	1/1	0.09	-1.61	33,33,33,33	0
88	OHX	1	3884	7/7	0.13	-1.61	63,63,63,63	0
88	OHX	2	2166	7/7	0.12	-1.61	273,273,273,273	0
88	OHX	6	2113	7/7	0.13	-1.61	147,147,147,147	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	2	2111	7/7	0.14	-1.62	197,197,197,197	0
88	OHX	6	2047	7/7	0.13	-1.62	66,66,66,66	0
88	OHX	1	3893	7/7	0.12	-1.62	74,74,74,74	0
88	OHX	5	3934	7/7	0.14	-1.62	82,82,82,82	0
88	OHX	6	2054	7/7	0.11	-1.62	80,80,80,80	0
88	OHX	1	4064	7/7	0.10	-1.63	167,167,167,167	0
88	OHX	1	4007	7/7	0.14	-1.63	159,159,159,159	0
88	OHX	5	4026	7/7	0.10	-1.64	157,157,157,157	0
88	OHX	5	4199	7/7	0.14	-1.65	244,244,244,244	0
88	OHX	2	2074	7/7	0.14	-1.65	159,159,159,159	0
88	OHX	1	3881	7/7	0.12	-1.66	63,63,63,63	0
88	OHX	2	2059	7/7	0.13	-1.67	146,146,146,146	0
88	OHX	2	2048	7/7	0.07	-1.67	125,125,125,125	0
88	OHX	2	2061	7/7	0.11	-1.67	145,145,145,145	0
88	OHX	1	4046	7/7	0.06	-1.67	172,172,172,172	0
89	ZN	Q2	501	1/1	0.10	-1.67	305,305,305,305	0
88	OHX	1	4112	7/7	0.11	-1.67	198,198,198,198	0
88	OHX	1	4103	7/7	0.18	-1.68	204,204,204,204	0
88	OHX	o3	202	7/7	0.12	-1.68	135,135,135,135	0
88	OHX	1	4013	7/7	0.15	-1.68	138,138,138,138	0
88	OHX	4	225	7/7	0.11	-1.68	159,159,159,159	0
88	OHX	5	4129	7/7	0.12	-1.68	200,200,200,200	0
88	OHX	2	2155	7/7	0.12	-1.69	229,229,229,229	0
88	OHX	1	3917	7/7	0.11	-1.69	92,92,92,92	0
88	OHX	4	227	7/7	0.10	-1.70	186,186,186,186	0
88	OHX	3	215	7/7	0.11	-1.70	114,114,114,114	0
88	OHX	SR	401	7/7	0.10	-1.71	200,200,200,200	0
88	OHX	2	2054	7/7	0.11	-1.71	156,156,156,156	0
88	OHX	6	2119	7/7	0.11	-1.71	187,187,187,187	0
88	OHX	2	2039	7/7	0.11	-1.71	112,112,112,112	0
88	OHX	5	3928	7/7	0.12	-1.71	70,70,70,70	0
88	OHX	1	3918	7/7	0.12	-1.72	80,80,80,80	0
88	OHX	l5	303	7/7	0.09	-1.72	200,200,200,200	0
88	OHX	5	4010	7/7	0.12	-1.72	145,145,145,145	0
88	OHX	6	2137	7/7	0.10	-1.72	212,212,212,212	0
88	OHX	5	3951	7/7	0.11	-1.72	105,105,105,105	0
87	MG	M3	202	1/1	0.17	-1.73	50,50,50,50	0
88	OHX	5	3955	7/7	0.12	-1.73	107,107,107,107	0
88	OHX	6	2183	7/7	0.17	-1.73	256,256,256,256	0
88	OHX	2	2154	7/7	0.14	-1.74	244,244,244,244	0
87	MG	1	3527	1/1	0.15	-1.74	22,22,22,22	0
88	OHX	6	2147	7/7	0.14	-1.74	184,184,184,184	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	2	2080	7/7	0.11	-1.75	174,174,174,174	0
88	OHX	2	2082	7/7	0.09	-1.75	195,195,195,195	0
87	MG	1	3629	1/1	0.21	-1.76	45,45,45,45	0
88	OHX	1	4067	7/7	0.13	-1.76	172,172,172,172	0
88	OHX	1	3922	7/7	0.10	-1.76	99,99,99,99	0
88	OHX	2	2098	7/7	0.10	-1.76	186,186,186,186	0
88	OHX	1	4165	7/7	0.12	-1.76	204,204,204,204	0
88	OHX	2	2144	7/7	0.14	-1.76	222,222,222,222	0
88	OHX	M9	202	7/7	0.21	-1.77	285,285,285,285	0
88	OHX	2	2145	7/7	0.11	-1.77	226,226,226,226	0
87	MG	5	3720	1/1	0.14	-1.78	36,36,36,36	0
88	OHX	6	2167	7/7	0.11	-1.78	236,236,236,236	0
88	OHX	1	4006	7/7	0.09	-1.78	160,160,160,160	0
88	OHX	2	2066	7/7	0.12	-1.79	157,157,157,157	0
88	OHX	2	2151	7/7	0.12	-1.79	262,262,262,262	0
88	OHX	1	4061	7/7	0.06	-1.79	180,180,180,180	0
88	OHX	1	4053	7/7	0.09	-1.80	173,173,173,173	0
88	OHX	5	4073	7/7	0.12	-1.81	183,183,183,183	0
88	OHX	6	2148	7/7	0.13	-1.81	212,212,212,212	0
87	MG	2	1967	1/1	0.10	-1.82	50,50,50,50	0
88	OHX	6	2086	7/7	0.09	-1.82	135,135,135,135	0
87	MG	1	3435	1/1	0.12	-1.83	23,23,23,23	0
88	OHX	1	3936	7/7	0.10	-1.84	103,103,103,103	0
88	OHX	5	4134	7/7	0.10	-1.85	185,185,185,185	0
88	OHX	L3	404	7/7	0.14	-1.86	157,157,157,157	0
88	OHX	5	3945	7/7	0.12	-1.86	93,93,93,93	0
87	MG	1	3549	1/1	0.12	-1.87	44,44,44,44	0
88	OHX	2	2094	7/7	0.07	-1.87	175,175,175,175	0
88	OHX	1	3964	7/7	0.14	-1.89	114,114,114,114	0
88	OHX	6	2154	7/7	0.11	-1.90	209,209,209,209	0
88	OHX	1	3910	7/7	0.11	-1.90	79,79,79,79	0
88	OHX	1	4022	7/7	0.13	-1.91	180,180,180,180	0
88	OHX	l3	405	7/7	0.11	-1.91	146,146,146,146	0
87	MG	4	212	1/1	0.11	-1.91	36,36,36,36	0
88	OHX	5	4060	7/7	0.10	-1.91	181,181,181,181	0
88	OHX	5	4050	7/7	0.14	-1.92	151,151,151,151	0
88	OHX	1	3890	7/7	0.12	-1.94	76,76,76,76	0
88	OHX	2	2090	7/7	0.12	-1.94	170,170,170,170	0
89	ZN	q2	501	1/1	0.08	-1.95	200,200,200,200	0
87	MG	5	3766	1/1	0.13	-1.95	21,21,21,21	0
87	MG	5	3870	1/1	0.09	-1.95	28,28,28,28	0
88	OHX	5	4090	7/7	0.10	-1.95	175,175,175,175	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
88	OHX	1	4020	7/7	0.13	-1.96	173,173,173,173	0
88	OHX	1	4097	7/7	0.12	-1.97	227,227,227,227	0
88	OHX	6	2138	7/7	0.11	-1.97	187,187,187,187	0
88	OHX	1	3972	7/7	0.09	-1.97	137,137,137,137	0
88	OHX	5	3925	7/7	0.12	-1.98	67,67,67,67	0
87	MG	5	3618	1/1	0.07	-1.98	22,22,22,22	0
87	MG	5	3714	1/1	0.12	-1.98	35,35,35,35	0
88	OHX	6	2060	7/7	0.09	-1.99	88,88,88,88	0
88	OHX	6	2073	7/7	0.12	-1.99	123,123,123,123	0
88	OHX	1	4029	7/7	0.12	-1.99	180,180,180,180	0
88	OHX	8	222	7/7	0.12	-2.00	166,166,166,166	0
88	OHX	5	3962	7/7	0.13	-2.01	78,78,78,78	0
88	OHX	M0	303	7/7	0.14	-2.01	153,153,153,153	0
87	MG	5	3710	1/1	0.08	-2.01	27,27,27,27	0
88	OHX	1	4071	7/7	0.06	-2.01	203,203,203,203	0
88	OHX	5	4063	7/7	0.11	-2.02	178,178,178,178	0
88	OHX	6	2099	7/7	0.09	-2.02	135,135,135,135	0
89	ZN	E1	501	1/1	0.04	-2.02	102,102,102,102	0
88	OHX	6	2095	7/7	0.10	-2.03	146,146,146,146	0
88	OHX	C8	201	7/7	0.09	-2.03	116,116,116,116	0
88	OHX	sR	401	7/7	0.11	-2.03	220,220,220,220	0
88	OHX	2	2053	7/7	0.10	-2.03	147,147,147,147	0
88	OHX	2	2045	7/7	0.11	-2.03	125,125,125,125	0
87	MG	5	3704	1/1	0.14	-2.04	16,16,16,16	0
89	ZN	D6	500	1/1	0.09	-2.04	77,77,77,77	0
88	OHX	1	4034	7/7	0.09	-2.05	184,184,184,184	0
88	OHX	6	2150	7/7	0.12	-2.05	206,206,206,206	0
88	OHX	5	4022	7/7	0.12	-2.06	152,152,152,152	0
88	OHX	6	2070	7/7	0.10	-2.06	126,126,126,126	0
88	OHX	6	2192	7/7	0.14	-2.07	303,303,303,303	0
88	OHX	1	3911	7/7	0.10	-2.07	83,83,83,83	0
88	OHX	5	3940	7/7	0.11	-2.07	78,78,78,78	0
88	OHX	1	4143	7/7	0.10	-2.07	239,239,239,239	0
88	OHX	5	4003	7/7	0.10	-2.08	134,134,134,134	0
88	OHX	l3	404	7/7	0.09	-2.08	126,126,126,126	0
88	OHX	1	3935	7/7	0.12	-2.09	105,105,105,105	0
88	OHX	5	3932	7/7	0.13	-2.11	98,98,98,98	0
88	OHX	5	4000	7/7	0.10	-2.12	134,134,134,134	0
88	OHX	1	3939	7/7	0.10	-2.13	108,108,108,108	0
87	MG	5	3671	1/1	0.12	-2.13	10,10,10,10	0
87	MG	1	3837	1/1	0.11	-2.14	21,21,21,21	0
88	OHX	4	222	7/7	0.12	-2.14	121,121,121,121	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3580	1/1	0.11	-2.14	10,10,10,10	0
87	MG	3	211	1/1	0.10	-2.16	47,47,47,47	0
88	OHX	5	3914	7/7	0.13	-2.16	62,62,62,62	0
88	OHX	5	3950	7/7	0.13	-2.17	97,97,97,97	0
88	OHX	2	2063	7/7	0.12	-2.17	165,165,165,165	0
88	OHX	2	2037	7/7	0.11	-2.17	114,114,114,114	0
88	OHX	6	2164	7/7	0.11	-2.17	211,211,211,211	0
88	OHX	5	3991	7/7	0.09	-2.19	127,127,127,127	0
88	OHX	s1	302	7/7	0.12	-2.19	78,78,78,78	0
88	OHX	5	4034	7/7	0.09	-2.20	140,140,140,140	0
88	OHX	1	3997	7/7	0.13	-2.22	146,146,146,146	0
88	OHX	5	3965	7/7	0.09	-2.22	100,100,100,100	0
88	OHX	5	4081	7/7	0.14	-2.23	141,141,141,141	0
87	MG	5	3706	1/1	0.09	-2.23	37,37,37,37	0
87	MG	1	4230	1/1	0.10	-2.24	14,14,14,14	0
88	OHX	1	4126	7/7	0.13	-2.25	251,251,251,251	0
88	OHX	5	4082	7/7	0.13	-2.26	194,194,194,194	0
88	OHX	1	3885	7/7	0.12	-2.26	53,53,53,53	0
88	OHX	5	3971	7/7	0.12	-2.27	97,97,97,97	0
88	OHX	5	3924	7/7	0.13	-2.28	60,60,60,60	0
88	OHX	1	3949	7/7	0.12	-2.28	111,111,111,111	0
88	OHX	1	3874	7/7	0.12	-2.28	45,45,45,45	0
87	MG	1	3567	1/1	0.13	-2.29	21,21,21,21	0
88	OHX	6	2135	7/7	0.12	-2.29	183,183,183,183	0
88	OHX	5	4243	7/7	0.17	-2.29	180,180,180,180	0
88	OHX	6	2057	7/7	0.10	-2.30	92,92,92,92	0
88	OHX	6	2076	7/7	0.10	-2.30	125,125,125,125	0
88	OHX	1	4078	7/7	0.07	-2.31	176,176,176,176	0
88	OHX	3	220	7/7	0.10	-2.31	196,196,196,196	0
88	OHX	5	4080	7/7	0.09	-2.31	165,165,165,165	0
88	OHX	5	3937	7/7	0.13	-2.31	87,87,87,87	0
88	OHX	5	4213	7/7	0.13	-2.31	215,215,215,215	0
88	OHX	1	4001	7/7	0.12	-2.32	146,146,146,146	0
88	OHX	2	2073	7/7	0.14	-2.32	169,169,169,169	0
88	OHX	5	4156	7/7	0.12	-2.32	203,203,203,203	0
87	MG	1	3481	1/1	0.07	-2.32	20,20,20,20	0
87	MG	1	3750	1/1	0.12	-2.32	32,32,32,32	0
88	OHX	5	3964	7/7	0.10	-2.33	98,98,98,98	0
88	OHX	1	3986	7/7	0.11	-2.33	155,155,155,155	0
88	OHX	2	2112	7/7	0.17	-2.33	235,235,235,235	0
87	MG	5	3623	1/1	0.13	-2.33	20,20,20,20	0
87	MG	5	3833	1/1	0.07	-2.33	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	5	3993	7/7	0.11	-2.33	133,133,133,133	0
88	OHX	1	3969	7/7	0.10	-2.35	120,120,120,120	0
88	OHX	5	4016	7/7	0.08	-2.35	153,153,153,153	0
88	OHX	c5	201	7/7	0.13	-2.36	215,215,215,215	0
88	OHX	5	4068	7/7	0.10	-2.36	160,160,160,160	0
88	OHX	6	2063	7/7	0.12	-2.37	100,100,100,100	0
88	OHX	5	4053	7/7	0.09	-2.39	159,159,159,159	0
88	OHX	6	2194	7/7	0.15	-2.41	263,263,263,263	0
88	OHX	1	4179	7/7	0.11	-2.42	283,283,283,283	0
88	OHX	5	3907	7/7	0.12	-2.42	57,57,57,57	0
88	OHX	1	3886	7/7	0.13	-2.42	65,65,65,65	0
88	OHX	5	4020	7/7	0.15	-2.43	171,171,171,171	0
87	MG	5	3791	1/1	0.10	-2.43	37,37,37,37	0
88	OHX	S8	302	7/7	0.15	-2.44	247,247,247,247	0
87	MG	1	3805	1/1	0.14	-2.45	30,30,30,30	0
88	OHX	5	4246	7/7	0.26	-2.47	318,318,318,318	0
88	OHX	2	2068	7/7	0.11	-2.48	200,200,200,200	0
88	OHX	C3	201	7/7	0.09	-2.49	238,238,238,238	0
88	OHX	m6	203	7/7	0.12	-2.50	117,117,117,117	0
88	OHX	1	3901	7/7	0.12	-2.50	75,75,75,75	0
87	MG	2	2001	1/1	0.13	-2.51	33,33,33,33	0
89	ZN	d6	101	1/1	0.08	-2.52	55,55,55,55	0
87	MG	1	3408	1/1	0.13	-2.53	17,17,17,17	0
88	OHX	5	4015	7/7	0.12	-2.53	144,144,144,144	0
88	OHX	1	4068	7/7	0.11	-2.54	205,205,205,205	0
88	OHX	5	4069	7/7	0.11	-2.54	163,163,163,163	0
88	OHX	1	4008	7/7	0.10	-2.56	168,168,168,168	0
88	OHX	6	2098	7/7	0.07	-2.57	154,154,154,154	0
88	OHX	1	4157	7/7	0.12	-2.57	213,213,213,213	0
88	OHX	2	2087	7/7	0.12	-2.57	161,161,161,161	0
88	OHX	2	2070	7/7	0.10	-2.57	155,155,155,155	0
88	OHX	2	2065	7/7	0.11	-2.57	165,165,165,165	0
88	OHX	1	4118	7/7	0.11	-2.59	179,179,179,179	0
87	MG	5	3810	1/1	0.11	-2.60	33,33,33,33	0
87	MG	s1	301	1/1	0.11	-2.60	22,22,22,22	0
88	OHX	5	4138	7/7	0.12	-2.62	180,180,180,180	0
88	OHX	s8	304	7/7	0.19	-2.62	255,255,255,255	0
88	OHX	5	4070	7/7	0.09	-2.63	166,166,166,166	0
87	MG	5	3775	1/1	0.13	-2.63	55,55,55,55	0
88	OHX	2	2097	7/7	0.10	-2.63	193,193,193,193	0
88	OHX	1	4052	7/7	0.13	-2.64	159,159,159,159	0
87	MG	1	3754	1/1	0.13	-2.66	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	5	4025	7/7	0.11	-2.67	139,139,139,139	0
87	MG	5	3471	1/1	0.10	-2.67	57,57,57,57	0
87	MG	1	3809	1/1	0.12	-2.67	65,65,65,65	0
87	MG	5	3630	1/1	0.11	-2.67	37,37,37,37	0
88	OHX	1	3938	7/7	0.12	-2.68	115,115,115,115	0
88	OHX	1	3975	7/7	0.11	-2.70	125,125,125,125	0
87	MG	5	3405	1/1	0.10	-2.71	17,17,17,17	0
88	OHX	6	2101	7/7	0.10	-2.71	151,151,151,151	0
88	OHX	1	3900	7/7	0.12	-2.72	78,78,78,78	0
88	OHX	1	4086	7/7	0.11	-2.72	168,168,168,168	0
88	OHX	5	4087	7/7	0.12	-2.74	172,172,172,172	0
88	OHX	5	3956	7/7	0.11	-2.74	95,95,95,95	0
88	OHX	2	2133	7/7	0.13	-2.75	238,238,238,238	0
88	OHX	1	3978	7/7	0.07	-2.75	139,139,139,139	0
88	OHX	5	3952	7/7	0.10	-2.75	101,101,101,101	0
88	OHX	1	3961	7/7	0.09	-2.76	112,112,112,112	0
88	OHX	5	3927	7/7	0.12	-2.76	72,72,72,72	0
88	OHX	5	4021	7/7	0.10	-2.77	126,126,126,126	0
88	OHX	5	4037	7/7	0.11	-2.77	135,135,135,135	0
88	OHX	1	3923	7/7	0.12	-2.77	97,97,97,97	0
88	OHX	5	3984	7/7	0.11	-2.79	113,113,113,113	0
88	OHX	1	3930	7/7	0.10	-2.79	95,95,95,95	0
88	OHX	5	4007	7/7	0.11	-2.82	113,113,113,113	0
88	OHX	5	3985	7/7	0.10	-2.83	96,96,96,96	0
88	OHX	6	2134	7/7	0.11	-2.83	183,183,183,183	0
88	OHX	6	2079	7/7	0.08	-2.84	112,112,112,112	0
88	OHX	1	4122	7/7	0.11	-2.84	235,235,235,235	0
88	OHX	5	4172	7/7	0.14	-2.84	236,236,236,236	0
88	OHX	1	4033	7/7	0.10	-2.85	147,147,147,147	0
88	OHX	C5	201	7/7	0.11	-2.85	254,254,254,254	0
88	OHX	1	3965	7/7	0.08	-2.88	104,104,104,104	0
88	OHX	1	4066	7/7	0.12	-2.90	195,195,195,195	0
88	OHX	1	3955	7/7	0.11	-2.91	117,117,117,117	0
88	OHX	5	4018	7/7	0.12	-2.93	143,143,143,143	0
88	OHX	5	3989	7/7	0.11	-2.95	105,105,105,105	0
88	OHX	1	4084	7/7	0.11	-2.95	231,231,231,231	0
88	OHX	2	2041	7/7	0.11	-2.95	102,102,102,102	0
88	OHX	4	221	7/7	0.11	-2.99	86,86,86,86	0
88	OHX	1	3902	7/7	0.11	-3.00	72,72,72,72	0
88	OHX	5	4249	7/7	0.12	-3.00	254,254,254,254	0
88	OHX	1	4169	7/7	0.13	-3.01	161,161,161,161	0
87	MG	5	3699	1/1	0.12	-3.02	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	1	3814	1/1	0.20	-3.03	47,47,47,47	0
87	MG	1	3484	1/1	0.08	-3.04	0,0,0,0	0
88	OHX	1	4040	7/7	0.12	-3.04	186,186,186,186	0
88	OHX	5	4044	7/7	0.08	-3.06	143,143,143,143	0
88	OHX	2	2029	7/7	0.10	-3.06	100,100,100,100	0
88	OHX	1	3880	7/7	0.12	-3.07	52,52,52,52	0
88	OHX	m5	306	7/7	0.09	-3.07	160,160,160,160	0
88	OHX	6	2080	7/7	0.09	-3.08	122,122,122,122	0
88	OHX	5	3942	7/7	0.11	-3.08	92,92,92,92	0
88	OHX	4	223	7/7	0.08	-3.08	142,142,142,142	0
88	OHX	5	4011	7/7	0.12	-3.08	88,88,88,88	0
88	OHX	5	4058	7/7	0.11	-3.09	135,135,135,135	0
87	MG	1	3835	1/1	0.12	-3.09	6,6,6,6	0
88	OHX	6	2071	7/7	0.09	-3.10	133,133,133,133	0
88	OHX	1	3904	7/7	0.13	-3.10	97,97,97,97	0
87	MG	SM	301	1/1	0.10	-3.11	32,32,32,32	0
88	OHX	5	3994	7/7	0.10	-3.15	119,119,119,119	0
87	MG	5	3824	1/1	0.10	-3.17	39,39,39,39	0
87	MG	6	2002	1/1	0.12	-3.17	21,21,21,21	0
88	OHX	5	4033	7/7	0.13	-3.18	162,162,162,162	0
88	OHX	2	2167	7/7	0.12	-3.20	254,254,254,254	0
88	OHX	6	2094	7/7	0.08	-3.20	153,153,153,153	0
88	OHX	2	2083	7/7	0.09	-3.21	188,188,188,188	0
88	OHX	1	3892	7/7	0.11	-3.21	68,68,68,68	0
88	OHX	5	3920	7/7	0.12	-3.24	65,65,65,65	0
87	MG	5	3515	1/1	0.09	-3.25	12,12,12,12	0
88	OHX	5	4041	7/7	0.08	-3.25	154,154,154,154	0
88	OHX	5	4024	7/7	0.09	-3.27	134,134,134,134	0
88	OHX	1	4098	7/7	0.10	-3.28	210,210,210,210	0
87	MG	5	3764	1/1	0.09	-3.29	20,20,20,20	0
87	MG	6	2013	1/1	0.09	-3.30	25,25,25,25	0
88	OHX	5	4185	7/7	0.16	-3.31	207,207,207,207	0
88	OHX	6	2058	7/7	0.12	-3.32	86,86,86,86	0
87	MG	5	3418	1/1	0.09	-3.33	5,5,5,5	0
88	OHX	1	3971	7/7	0.11	-3.33	128,128,128,128	0
87	MG	1	3547	1/1	0.14	-3.33	8,8,8,8	0
88	OHX	5	4013	7/7	0.09	-3.34	129,129,129,129	0
88	OHX	6	2084	7/7	0.10	-3.36	129,129,129,129	0
87	MG	1	4228	1/1	0.14	-3.36	42,42,42,42	0
88	OHX	5	4001	7/7	0.09	-3.37	121,121,121,121	0
88	OHX	5	3921	7/7	0.12	-3.37	70,70,70,70	0
88	OHX	6	2142	7/7	0.12	-3.37	185,185,185,185	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	5	3997	7/7	0.09	-3.38	146,146,146,146	0
88	OHX	6	2067	7/7	0.11	-3.38	95,95,95,95	0
88	OHX	1	3952	7/7	0.13	-3.39	124,124,124,124	0
88	OHX	6	2112	7/7	0.13	-3.40	155,155,155,155	0
88	OHX	1	4028	7/7	0.11	-3.42	177,177,177,177	0
88	OHX	2	2050	7/7	0.11	-3.44	143,143,143,143	0
88	OHX	6	2089	7/7	0.09	-3.46	128,128,128,128	0
87	MG	5	3854	1/1	0.10	-3.47	2,2,2,2	0
88	OHX	6	2097	7/7	0.12	-3.47	153,153,153,153	0
88	OHX	1	3926	7/7	0.12	-3.48	99,99,99,99	0
88	OHX	1	3974	7/7	0.11	-3.48	89,89,89,89	0
88	OHX	1	4054	7/7	0.12	-3.50	168,168,168,168	0
88	OHX	1	3951	7/7	0.09	-3.50	111,111,111,111	0
87	MG	6	1996	1/1	0.07	-3.52	24,24,24,24	0
88	OHX	7	219	7/7	0.10	-3.56	128,128,128,128	0
87	MG	1	3679	1/1	0.07	-3.58	33,33,33,33	0
88	OHX	6	2131	7/7	0.12	-3.59	202,202,202,202	0
88	OHX	3	217	7/7	0.11	-3.60	133,133,133,133	0
87	MG	5	3751	1/1	0.11	-3.61	25,25,25,25	0
87	MG	5	3844	1/1	0.11	-3.63	44,44,44,44	0
88	OHX	1	3913	7/7	0.10	-3.64	89,89,89,89	0
87	MG	1	3746	1/1	0.10	-3.65	32,32,32,32	0
88	OHX	1	4102	7/7	0.09	-3.66	213,213,213,213	0
88	OHX	5	3960	7/7	0.11	-3.66	95,95,95,95	0
87	MG	1	3610	1/1	0.10	-3.67	54,54,54,54	0
87	MG	1	3824	1/1	0.11	-3.70	58,58,58,58	0
88	OHX	5	3953	7/7	0.14	-3.70	89,89,89,89	0
88	OHX	8	220	7/7	0.11	-3.73	152,152,152,152	0
88	OHX	5	3931	7/7	0.09	-3.76	82,82,82,82	0
87	MG	2	1979	1/1	0.10	-3.77	57,57,57,57	0
87	MG	M7	204	1/1	0.10	-3.80	15,15,15,15	0
88	OHX	5	3999	7/7	0.13	-3.80	112,112,112,112	0
88	OHX	5	3930	7/7	0.10	-3.81	81,81,81,81	0
88	OHX	2	2052	7/7	0.11	-3.81	134,134,134,134	0
88	OHX	5	3975	7/7	0.12	-3.81	91,91,91,91	0
88	OHX	1	4003	7/7	0.11	-3.84	144,144,144,144	0
88	OHX	2	2168	7/7	0.10	-3.87	198,198,198,198	0
88	OHX	1	3992	7/7	0.10	-3.88	116,116,116,116	0
87	MG	1	3447	1/1	0.07	-3.89	16,16,16,16	0
87	MG	5	3842	1/1	0.10	-3.91	37,37,37,37	0
88	OHX	5	4127	7/7	0.14	-3.94	201,201,201,201	0
87	MG	6	2011	1/1	0.08	-3.95	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	2	2062	7/7	0.12	-3.96	169,169,169,169	0
87	MG	5	3703	1/1	0.10	-4.01	46,46,46,46	0
88	OHX	1	3940	7/7	0.10	-4.05	94,94,94,94	0
88	OHX	7	218	7/7	0.09	-4.07	144,144,144,144	0
87	MG	5	3746	1/1	0.12	-4.08	0,0,0,0	0
87	MG	1	3664	1/1	0.15	-4.13	19,19,19,19	0
88	OHX	8	224	7/7	0.09	-4.15	178,178,178,178	0
88	OHX	5	3938	7/7	0.11	-4.25	83,83,83,83	0
88	OHX	6	2069	7/7	0.12	-4.31	107,107,107,107	0
88	OHX	5	3970	7/7	0.09	-4.32	97,97,97,97	0
87	MG	1	3715	1/1	0.09	-4.34	49,49,49,49	0
88	OHX	2	2088	7/7	0.12	-4.35	184,184,184,184	0
87	MG	5	3858	1/1	0.08	-4.43	56,56,56,56	0
87	MG	1	3834	1/1	0.10	-4.44	20,20,20,20	0
88	OHX	5	4175	7/7	0.10	-4.45	243,243,243,243	0
88	OHX	5	4067	7/7	0.11	-4.45	181,181,181,181	0
88	OHX	1	3983	7/7	0.08	-4.47	140,140,140,140	0
88	OHX	5	4099	7/7	0.12	-4.50	172,172,172,172	0
88	OHX	2	2044	7/7	0.08	-4.50	121,121,121,121	0
87	MG	1	3700	1/1	0.10	-4.51	49,49,49,49	0
87	MG	1	3709	1/1	0.08	-4.56	36,36,36,36	0
88	OHX	1	3907	7/7	0.10	-4.56	78,78,78,78	0
88	OHX	1	3897	7/7	0.13	-4.64	75,75,75,75	0
87	MG	2	2003	1/1	0.15	-4.64	50,50,50,50	0
88	OHX	8	221	7/7	0.09	-4.71	157,157,157,157	0
87	MG	5	3638	1/1	0.10	-4.72	29,29,29,29	0
88	OHX	3	219	7/7	0.10	-4.73	158,158,158,158	0
87	MG	1	3731	1/1	0.07	-4.73	32,32,32,32	0
88	OHX	1	4062	7/7	0.14	-4.75	173,173,173,173	0
87	MG	1	3654	1/1	0.06	-4.75	29,29,29,29	0
87	MG	2	1964	1/1	0.06	-4.77	34,34,34,34	0
88	OHX	6	2090	7/7	0.10	-4.81	135,135,135,135	0
88	OHX	6	2087	7/7	0.09	-4.84	131,131,131,131	0
87	MG	5	3616	1/1	0.11	-4.84	19,19,19,19	0
88	OHX	1	4009	7/7	0.10	-4.87	178,178,178,178	0
88	OHX	6	2093	7/7	0.10	-4.98	132,132,132,132	0
88	OHX	1	4207	7/7	0.08	-4.99	191,191,191,191	0
88	OHX	5	3974	7/7	0.11	-5.03	99,99,99,99	0
88	OHX	1	3970	7/7	0.09	-5.03	140,140,140,140	0
87	MG	5	3433	1/1	0.10	-5.12	27,27,27,27	0
87	MG	N5	201	1/1	0.18	-5.12	49,49,49,49	0
88	OHX	2	2156	7/7	0.21	-5.15	290,290,290,290	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	1	3934	7/7	0.10	-5.16	92,92,92,92	0
88	OHX	5	3919	7/7	0.10	-5.20	68,68,68,68	0
87	MG	5	3729	1/1	0.05	-5.29	24,24,24,24	0
87	MG	5	3423	1/1	0.10	-5.33	25,25,25,25	0
88	OHX	1	4108	7/7	0.12	-5.43	210,210,210,210	0
88	OHX	2	2071	7/7	0.11	-5.43	168,168,168,168	0
88	OHX	1	3903	7/7	0.10	-5.48	82,82,82,82	0
88	OHX	6	2096	7/7	0.11	-5.50	164,164,164,164	0
88	OHX	6	2077	7/7	0.11	-5.54	121,121,121,121	0
88	OHX	1	4026	7/7	0.11	-5.60	157,157,157,157	0
88	OHX	5	4136	7/7	0.09	-5.61	242,242,242,242	0
88	OHX	5	4012	7/7	0.11	-5.67	122,122,122,122	0
87	MG	3	203	1/1	0.10	-5.69	55,55,55,55	0
88	OHX	1	4130	7/7	0.12	-5.73	209,209,209,209	0
88	OHX	1	4192	7/7	0.14	-5.77	270,270,270,270	0
87	MG	1	3807	1/1	0.09	-6.00	30,30,30,30	0
87	MG	1	3474	1/1	0.11	-6.01	5,5,5,5	0
88	OHX	M5	303	7/7	0.14	-6.09	146,146,146,146	0
87	MG	5	3653	1/1	0.07	-6.14	52,52,52,52	0
87	MG	5	3602	1/1	0.10	-6.17	24,24,24,24	0
87	MG	1	3747	1/1	0.08	-6.29	25,25,25,25	0
88	OHX	6	2059	7/7	0.12	-6.35	94,94,94,94	0
88	OHX	2	2118	7/7	0.07	-6.37	206,206,206,206	0
88	OHX	2	2104	7/7	0.14	-6.49	217,217,217,217	0
87	MG	5	3863	1/1	0.12	-6.50	22,22,22,22	0
88	OHX	5	3923	7/7	0.11	-6.55	63,63,63,63	0
88	OHX	1	3914	7/7	0.11	-6.76	91,91,91,91	0
88	OHX	5	4202	7/7	0.11	-7.10	220,220,220,220	0
87	MG	6	2022	1/1	0.14	-7.13	50,50,50,50	0
88	OHX	1	4021	7/7	0.12	-7.16	178,178,178,178	0
87	MG	1	3633	1/1	0.08	-7.21	32,32,32,32	0
87	MG	6	2017	1/1	0.08	-7.38	52,52,52,52	0
87	MG	5	3420	1/1	0.08	-7.63	31,31,31,31	0
87	MG	5	3784	1/1	0.12	-7.70	48,48,48,48	0
87	MG	1	3607	1/1	0.10	-8.26	15,15,15,15	0
87	MG	1	3644	1/1	0.05	-8.28	17,17,17,17	0
88	OHX	5	4182	7/7	0.10	-8.28	212,212,212,212	0
88	OHX	6	2085	7/7	0.10	-8.32	128,128,128,128	0
88	OHX	5	3967	7/7	0.10	-8.54	93,93,93,93	0
87	MG	5	3861	1/1	0.13	-8.67	53,53,53,53	0
87	MG	5	3652	1/1	0.12	-9.50	19,19,19,19	0
88	OHX	5	3948	7/7	0.09	-10.05	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
88	OHX	1	4072	7/7	0.10	-10.05	169,169,169,169	0
87	MG	4	216	1/1	0.09	-10.97	23,23,23,23	0
87	MG	1	3740	1/1	0.06	-12.57	15,15,15,15	0
87	MG	1	3774	1/1	0.09	-12.60	54,54,54,54	0
87	MG	5	3811	1/1	0.07	-14.47	48,48,48,48	0
87	MG	5	3770	1/1	0.07	-14.51	62,62,62,62	0
88	OHX	1	3998	7/7	0.11	-18.33	141,141,141,141	0
87	MG	5	3659	1/1	0.09	-21.67	29,29,29,29	0
87	MG	1	3776	1/1	0.13	-29.00	61,61,61,61	0
88	OHX	5	3979	7/7	0.09	-33.74	108,108,108,108	0
87	MG	5	3809	1/1	0.07	-50.00	70,70,70,70	0
87	MG	7	204	1/1	0.08	-75.00	46,46,46,46	0
87	MG	5	3814	1/1	0.11	-77.00	96,96,96,96	0
87	MG	6	1998	1/1	0.14	-	57,57,57,57	0
87	MG	6	1924	1/1	0.23	-	41,41,41,41	0
87	MG	6	2041	1/1	0.28	-	21,21,21,21	0
87	MG	1	3796	1/1	0.09	-	13,13,13,13	0
87	MG	2	1954	1/1	0.28	-	65,65,65,65	0
87	MG	2	2014	1/1	0.56	-	46,46,46,46	0
87	MG	5	3887	1/1	0.32	-	34,34,34,34	0
87	MG	1	3846	1/1	0.50	-	31,31,31,31	0
87	MG	1	3850	1/1	0.30	-	26,26,26,26	0
87	MG	1	3861	1/1	0.38	-	79,79,79,79	0
87	MG	2	1904	1/1	0.22	-	30,30,30,30	0
87	MG	4	218	1/1	0.39	-	36,36,36,36	0
87	MG	4	215	1/1	0.50	-	32,32,32,32	0
87	MG	5	3620	1/1	0.45	-	21,21,21,21	0
87	MG	6	2036	1/1	0.24	-	37,37,37,37	0
87	MG	7	213	1/1	0.43	-	47,47,47,47	0
87	MG	1	3866	1/1	0.41	-	34,34,34,34	0
87	MG	8	216	1/1	0.40	-	14,14,14,14	0
87	MG	1	3539	1/1	0.45	-	20,20,20,20	0
87	MG	5	3880	1/1	0.70	-	36,36,36,36	0
87	MG	1	3502	1/1	0.39	-	58,58,58,58	0
87	MG	1	3857	1/1	0.61	-	37,37,37,37	0
87	MG	5	3812	1/1	0.74	-	39,39,39,39	0
87	MG	6	1979	1/1	0.57	-	40,40,40,40	0
87	MG	5	3778	1/1	0.13	-	48,48,48,48	0
87	MG	1	3492	1/1	0.44	-	36,36,36,36	0
87	MG	1	3847	1/1	0.86	-	50,50,50,50	0
87	MG	1	3800	1/1	0.17	-	37,37,37,37	0
87	MG	5	3786	1/1	0.15	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	MG	6	2000	1/1	0.08	-	49,49,49,49	0
87	MG	5	3888	1/1	0.21	-	33,33,33,33	0
87	MG	1	3543	1/1	0.65	-	45,45,45,45	0
87	MG	5	3805	1/1	0.19	-	45,45,45,45	0
87	MG	2	1996	1/1	0.49	-	32,32,32,32	0
87	MG	1	3617	1/1	0.39	-	25,25,25,25	0

6.5 Other polymers ⓘ

There are no such residues in this entry.