



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 9, 2014 – 11:14 PM BST

PDB ID : 4U3U
Title : Crystal structure of Cycloheximide bound to the yeast 80S ribosome
Authors : Garreau de Loubresse, N.; Prokhorova, I.; Yusupova, G.; Yusupov, M.
Deposited on : 2014-07-22
Resolution : 2.90 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>

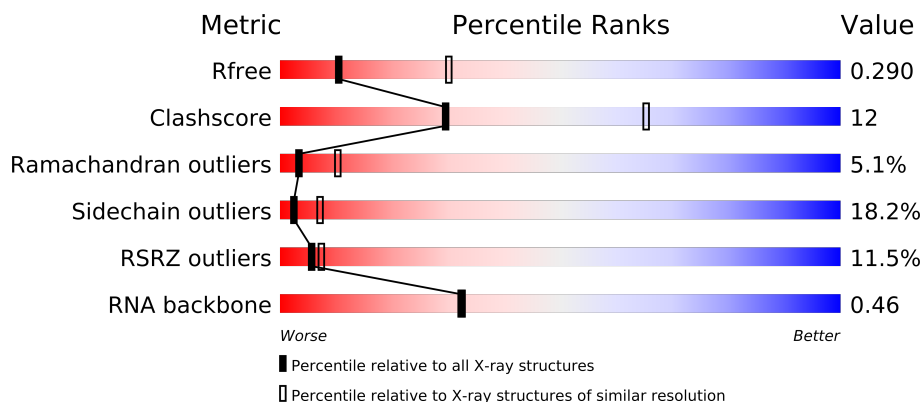
The following versions of software and data (see [references](#)) were used in the production of this report:

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 2.90 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	1053 (2.90-2.90)
Clashscore	79885	1326 (2.90-2.90)
Ramachandran outliers	78287	1290 (2.90-2.90)
Sidechain outliers	78261	1292 (2.90-2.90)
RSRZ outliers	66119	1054 (2.90-2.90)
RNA backbone	1838	1055 (3.40-2.40)

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	
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	

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Mol	Chain	Length	Quality of chain
28	D6	97	
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	

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Mol	Chain	Length	Quality of chain
50	M4	137	
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	

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Mol	Chain	Length	Quality of chain
71	O5	119	
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	e0	62	
81	e1	76	
82	m2	160	
83	p0	311	
84	p1	47	
85	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
86	MG	1	3401	-	X
86	MG	1	3402	-	X
86	MG	1	3404	-	X
86	MG	1	3405	-	X
86	MG	1	3408	-	X
86	MG	1	3409	-	X
86	MG	1	3410	-	X
86	MG	1	3412	-	X
86	MG	1	3413	-	X
86	MG	1	3414	-	X
86	MG	1	3417	-	X
86	MG	1	3418	-	X
86	MG	1	3419	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	1	3420	-	X
86	MG	1	3421	-	X
86	MG	1	3423	-	X
86	MG	1	3426	-	X
86	MG	1	3429	-	X
86	MG	1	3430	-	X
86	MG	1	3431	-	X
86	MG	1	3432	-	X
86	MG	1	3435	-	X
86	MG	1	3436	-	X
86	MG	1	3437	-	X
86	MG	1	3438	-	X
86	MG	1	3439	-	X
86	MG	1	3442	-	X
86	MG	1	3443	-	X
86	MG	1	3444	-	X
86	MG	1	3446	-	X
86	MG	1	3447	-	X
86	MG	1	3449	-	X
86	MG	1	3450	-	X
86	MG	1	3451	-	X
86	MG	1	3452	-	X
86	MG	1	3453	-	X
86	MG	1	3455	-	X
86	MG	1	3456	-	X
86	MG	1	3457	-	X
86	MG	1	3458	-	X
86	MG	1	3459	-	X
86	MG	1	3460	-	X
86	MG	1	3461	-	X
86	MG	1	3462	-	X
86	MG	1	3463	-	X
86	MG	1	3464	-	X
86	MG	1	3465	-	X
86	MG	1	3466	-	X
86	MG	1	3468	-	X
86	MG	1	3473	-	X
86	MG	1	3474	-	X
86	MG	1	3477	-	X
86	MG	1	3478	-	X
86	MG	1	3479	-	X
86	MG	1	3480	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	1	3481	-	X
86	MG	1	3483	-	X
86	MG	1	3484	-	X
86	MG	1	3485	-	X
86	MG	1	3486	-	X
86	MG	1	3487	-	X
86	MG	1	3491	-	X
86	MG	1	3492	-	X
86	MG	1	3493	-	X
86	MG	1	3496	-	X
86	MG	1	3497	-	X
86	MG	1	3498	-	X
86	MG	1	3499	-	X
86	MG	1	3501	-	X
86	MG	1	3502	-	X
86	MG	1	3503	-	X
86	MG	1	3504	-	X
86	MG	1	3505	-	X
86	MG	1	3506	-	X
86	MG	1	3507	-	X
86	MG	1	3508	-	X
86	MG	1	3509	-	X
86	MG	1	3510	-	X
86	MG	1	3511	-	X
86	MG	1	3512	-	X
86	MG	1	3513	-	X
86	MG	1	3514	-	X
86	MG	1	3515	-	X
86	MG	1	3516	-	X
86	MG	1	3517	-	X
86	MG	1	3518	-	X
86	MG	1	3519	-	X
86	MG	1	3520	-	X
86	MG	1	3521	-	X
86	MG	1	3522	-	X
86	MG	1	3524	-	X
86	MG	1	3526	-	X
86	MG	1	3527	-	X
86	MG	1	3528	-	X
86	MG	1	3529	-	X
86	MG	1	3530	-	X
86	MG	1	3531	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	1	3532	-	X
86	MG	1	3533	-	X
86	MG	1	3535	-	X
86	MG	1	3536	-	X
86	MG	1	3537	-	X
86	MG	1	3538	-	X
86	MG	1	3539	-	X
86	MG	1	3540	-	X
86	MG	1	3541	-	X
86	MG	1	3542	-	X
86	MG	1	3543	-	X
86	MG	1	3544	-	X
86	MG	1	3545	-	X
86	MG	1	3547	-	X
86	MG	1	3549	-	X
86	MG	1	3550	-	X
86	MG	1	3551	-	X
86	MG	1	3552	-	X
86	MG	1	3553	-	X
86	MG	1	3554	-	X
86	MG	1	3555	-	X
86	MG	1	3556	-	X
86	MG	1	3557	-	X
86	MG	1	3559	-	X
86	MG	1	3560	-	X
86	MG	1	3561	-	X
86	MG	1	3562	-	X
86	MG	1	3563	-	X
86	MG	1	3564	-	X
86	MG	1	3565	-	X
86	MG	1	3566	-	X
86	MG	1	3567	-	X
86	MG	1	3568	-	X
86	MG	1	3569	-	X
86	MG	1	3570	-	X
86	MG	1	3571	-	X
86	MG	1	3572	-	X
86	MG	1	3573	-	X
86	MG	1	3574	-	X
86	MG	1	3575	-	X
86	MG	1	3576	-	X
86	MG	1	3577	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	1	3579	-	X
86	MG	1	3580	-	X
86	MG	1	3581	-	X
86	MG	1	3584	-	X
86	MG	1	3585	-	X
86	MG	1	3586	-	X
86	MG	1	3587	-	X
86	MG	1	3588	-	X
86	MG	1	3589	-	X
86	MG	1	3590	-	X
86	MG	1	3591	-	X
86	MG	1	3592	-	X
86	MG	1	3593	-	X
86	MG	1	3594	-	X
86	MG	1	3595	-	X
86	MG	1	3596	-	X
86	MG	1	3597	-	X
86	MG	1	3598	-	X
86	MG	1	3599	-	X
86	MG	1	3600	-	X
86	MG	1	3601	-	X
86	MG	1	3603	-	X
86	MG	1	3605	-	X
86	MG	1	3606	-	X
86	MG	1	3608	-	X
86	MG	1	3609	-	X
86	MG	1	3611	-	X
86	MG	1	3613	-	X
86	MG	1	3614	-	X
86	MG	1	3615	-	X
86	MG	1	3616	-	X
86	MG	1	3618	-	X
86	MG	1	3619	-	X
86	MG	1	3620	-	X
86	MG	1	3621	-	X
86	MG	1	3623	-	X
86	MG	1	3624	-	X
86	MG	1	3625	-	X
86	MG	1	3626	-	X
86	MG	1	3630	-	X
86	MG	1	3632	-	X
86	MG	1	3633	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	1	3635	-	X
86	MG	1	3638	-	X
86	MG	1	3642	-	X
86	MG	1	3645	-	X
86	MG	1	3647	-	X
86	MG	1	3648	-	X
86	MG	1	3649	-	X
86	MG	1	3650	-	X
86	MG	1	3651	-	X
86	MG	1	3652	-	X
86	MG	1	3656	-	X
86	MG	1	3657	-	X
86	MG	1	3658	-	X
86	MG	1	3660	-	X
86	MG	1	3664	-	X
86	MG	1	3667	-	X
86	MG	1	3669	-	X
86	MG	1	3673	-	X
86	MG	1	3674	-	X
86	MG	1	3675	-	X
86	MG	1	3677	-	X
86	MG	1	3679	-	X
86	MG	1	3682	-	X
86	MG	1	3684	-	X
86	MG	1	3685	-	X
86	MG	1	3686	-	X
86	MG	1	3687	-	X
86	MG	1	3690	-	X
86	MG	1	3693	-	X
86	MG	1	3694	-	X
86	MG	1	3696	-	X
86	MG	1	3697	-	X
86	MG	1	3699	-	X
86	MG	1	3700	-	X
86	MG	1	3701	-	X
86	MG	1	3702	-	X
86	MG	1	3703	-	X
86	MG	1	3704	-	X
86	MG	1	3705	-	X
86	MG	1	3709	-	X
86	MG	1	3711	-	X
86	MG	1	3712	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	1	3713	-	X
86	MG	1	3718	-	X
86	MG	1	3720	-	X
86	MG	1	3721	-	X
86	MG	1	3725	-	X
86	MG	1	3729	-	X
86	MG	1	3730	-	X
86	MG	1	3732	-	X
86	MG	1	3733	-	X
86	MG	1	3734	-	X
86	MG	1	3737	-	X
86	MG	1	3739	-	X
86	MG	1	3740	-	X
86	MG	1	3741	-	X
86	MG	1	3745	-	X
86	MG	1	3746	-	X
86	MG	1	3747	-	X
86	MG	1	3750	-	X
86	MG	1	3752	-	X
86	MG	1	3754	-	X
86	MG	1	3759	-	X
86	MG	1	3761	-	X
86	MG	1	3762	-	X
86	MG	1	3763	-	X
86	MG	1	3764	-	X
86	MG	1	3765	-	X
86	MG	1	3769	-	X
86	MG	1	3775	-	X
86	MG	1	3778	-	X
86	MG	1	3783	-	X
86	MG	1	3785	-	X
86	MG	1	3787	-	X
86	MG	1	3792	-	X
86	MG	1	3793	-	X
86	MG	1	3795	-	X
86	MG	1	3797	-	X
86	MG	1	3803	-	X
86	MG	1	3804	-	X
86	MG	1	3805	-	X
86	MG	1	3807	-	X
86	MG	1	3808	-	X
86	MG	1	3812	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	1	3813	-	X
86	MG	1	3814	-	X
86	MG	1	3815	-	X
86	MG	1	3816	-	X
86	MG	1	3817	-	X
86	MG	1	3821	-	X
86	MG	1	3826	-	X
86	MG	1	3829	-	X
86	MG	1	3830	-	X
86	MG	1	3832	-	X
86	MG	1	3834	-	X
86	MG	1	3835	-	X
86	MG	1	3836	-	X
86	MG	1	3838	-	X
86	MG	1	3840	-	X
86	MG	1	3843	-	X
86	MG	1	3844	-	X
86	MG	1	3845	-	X
86	MG	1	3846	-	X
86	MG	1	3849	-	X
86	MG	1	3850	-	X
86	MG	1	3851	-	X
86	MG	1	3853	-	X
86	MG	1	3854	-	X
86	MG	1	3855	-	X
86	MG	1	3856	-	X
86	MG	1	3859	-	X
86	MG	1	3860	-	X
86	MG	1	3861	-	X
86	MG	1	4218	-	X
86	MG	1	4222	-	X
86	MG	1	4223	-	X
86	MG	2	1902	-	X
86	MG	2	1903	-	X
86	MG	2	1904	-	X
86	MG	2	1905	-	X
86	MG	2	1906	-	X
86	MG	2	1907	-	X
86	MG	2	1908	-	X
86	MG	2	1909	-	X
86	MG	2	1910	-	X
86	MG	2	1912	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	2	1913	-	X
86	MG	2	1914	-	X
86	MG	2	1915	-	X
86	MG	2	1917	-	X
86	MG	2	1918	-	X
86	MG	2	1919	-	X
86	MG	2	1921	-	X
86	MG	2	1922	-	X
86	MG	2	1923	-	X
86	MG	2	1924	-	X
86	MG	2	1925	-	X
86	MG	2	1926	-	X
86	MG	2	1927	-	X
86	MG	2	1928	-	X
86	MG	2	1929	-	X
86	MG	2	1930	-	X
86	MG	2	1931	-	X
86	MG	2	1932	-	X
86	MG	2	1933	-	X
86	MG	2	1934	-	X
86	MG	2	1935	-	X
86	MG	2	1936	-	X
86	MG	2	1937	-	X
86	MG	2	1938	-	X
86	MG	2	1940	-	X
86	MG	2	1941	-	X
86	MG	2	1942	-	X
86	MG	2	1945	-	X
86	MG	2	1947	-	X
86	MG	2	1949	-	X
86	MG	2	1951	-	X
86	MG	2	1953	-	X
86	MG	2	1954	-	X
86	MG	2	1955	-	X
86	MG	2	1956	-	X
86	MG	2	1957	-	X
86	MG	2	1958	-	X
86	MG	2	1959	-	X
86	MG	2	1960	-	X
86	MG	2	1961	-	X
86	MG	2	1962	-	X
86	MG	2	1963	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	2	1964	-	X
86	MG	2	1967	-	X
86	MG	2	1971	-	X
86	MG	2	1972	-	X
86	MG	2	1973	-	X
86	MG	2	1974	-	X
86	MG	2	1975	-	X
86	MG	2	1976	-	X
86	MG	2	1977	-	X
86	MG	2	1978	-	X
86	MG	2	1980	-	X
86	MG	2	1981	-	X
86	MG	2	1985	-	X
86	MG	2	1987	-	X
86	MG	2	1988	-	X
86	MG	2	1991	-	X
86	MG	2	1993	-	X
86	MG	2	1995	-	X
86	MG	2	1999	-	X
86	MG	2	2000	-	X
86	MG	2	2001	-	X
86	MG	2	2002	-	X
86	MG	2	2005	-	X
86	MG	2	2006	-	X
86	MG	2	2007	-	X
86	MG	2	2008	-	X
86	MG	2	2009	-	X
86	MG	2	2010	-	X
86	MG	2	2011	-	X
86	MG	2	2012	-	X
86	MG	2	2013	-	X
86	MG	2	2015	-	X
86	MG	2	2016	-	X
86	MG	2	2017	-	X
86	MG	2	2018	-	X
86	MG	3	201	-	X
86	MG	3	202	-	X
86	MG	3	204	-	X
86	MG	3	205	-	X
86	MG	3	206	-	X
86	MG	3	207	-	X
86	MG	3	209	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	3	212	-	X
86	MG	3	213	-	X
86	MG	3	214	-	X
86	MG	4	203	-	X
86	MG	4	204	-	X
86	MG	4	206	-	X
86	MG	4	207	-	X
86	MG	4	211	-	X
86	MG	4	215	-	X
86	MG	4	221	-	X
86	MG	4	222	-	X
86	MG	5	3401	-	X
86	MG	5	3402	-	X
86	MG	5	3403	-	X
86	MG	5	3405	-	X
86	MG	5	3406	-	X
86	MG	5	3409	-	X
86	MG	5	3410	-	X
86	MG	5	3411	-	X
86	MG	5	3413	-	X
86	MG	5	3414	-	X
86	MG	5	3416	-	X
86	MG	5	3417	-	X
86	MG	5	3418	-	X
86	MG	5	3420	-	X
86	MG	5	3421	-	X
86	MG	5	3422	-	X
86	MG	5	3424	-	X
86	MG	5	3425	-	X
86	MG	5	3426	-	X
86	MG	5	3428	-	X
86	MG	5	3429	-	X
86	MG	5	3431	-	X
86	MG	5	3433	-	X
86	MG	5	3434	-	X
86	MG	5	3435	-	X
86	MG	5	3438	-	X
86	MG	5	3439	-	X
86	MG	5	3440	-	X
86	MG	5	3441	-	X
86	MG	5	3443	-	X
86	MG	5	3444	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	5	3445	-	X
86	MG	5	3447	-	X
86	MG	5	3448	-	X
86	MG	5	3450	-	X
86	MG	5	3451	-	X
86	MG	5	3452	-	X
86	MG	5	3455	-	X
86	MG	5	3456	-	X
86	MG	5	3458	-	X
86	MG	5	3459	-	X
86	MG	5	3462	-	X
86	MG	5	3464	-	X
86	MG	5	3465	-	X
86	MG	5	3467	-	X
86	MG	5	3468	-	X
86	MG	5	3469	-	X
86	MG	5	3471	-	X
86	MG	5	3472	-	X
86	MG	5	3473	-	X
86	MG	5	3475	-	X
86	MG	5	3477	-	X
86	MG	5	3478	-	X
86	MG	5	3479	-	X
86	MG	5	3480	-	X
86	MG	5	3481	-	X
86	MG	5	3482	-	X
86	MG	5	3484	-	X
86	MG	5	3485	-	X
86	MG	5	3487	-	X
86	MG	5	3489	-	X
86	MG	5	3491	-	X
86	MG	5	3493	-	X
86	MG	5	3494	-	X
86	MG	5	3496	-	X
86	MG	5	3498	-	X
86	MG	5	3499	-	X
86	MG	5	3500	-	X
86	MG	5	3501	-	X
86	MG	5	3502	-	X
86	MG	5	3504	-	X
86	MG	5	3505	-	X
86	MG	5	3506	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	5	3507	-	X
86	MG	5	3508	-	X
86	MG	5	3509	-	X
86	MG	5	3510	-	X
86	MG	5	3511	-	X
86	MG	5	3512	-	X
86	MG	5	3514	-	X
86	MG	5	3515	-	X
86	MG	5	3516	-	X
86	MG	5	3517	-	X
86	MG	5	3518	-	X
86	MG	5	3519	-	X
86	MG	5	3520	-	X
86	MG	5	3521	-	X
86	MG	5	3522	-	X
86	MG	5	3523	-	X
86	MG	5	3524	-	X
86	MG	5	3525	-	X
86	MG	5	3526	-	X
86	MG	5	3527	-	X
86	MG	5	3528	-	X
86	MG	5	3530	-	X
86	MG	5	3531	-	X
86	MG	5	3532	-	X
86	MG	5	3533	-	X
86	MG	5	3534	-	X
86	MG	5	3536	-	X
86	MG	5	3537	-	X
86	MG	5	3538	-	X
86	MG	5	3539	-	X
86	MG	5	3540	-	X
86	MG	5	3541	-	X
86	MG	5	3542	-	X
86	MG	5	3543	-	X
86	MG	5	3544	-	X
86	MG	5	3545	-	X
86	MG	5	3546	-	X
86	MG	5	3547	-	X
86	MG	5	3549	-	X
86	MG	5	3550	-	X
86	MG	5	3551	-	X
86	MG	5	3552	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	5	3553	-	X
86	MG	5	3554	-	X
86	MG	5	3555	-	X
86	MG	5	3556	-	X
86	MG	5	3557	-	X
86	MG	5	3558	-	X
86	MG	5	3560	-	X
86	MG	5	3561	-	X
86	MG	5	3562	-	X
86	MG	5	3563	-	X
86	MG	5	3564	-	X
86	MG	5	3565	-	X
86	MG	5	3566	-	X
86	MG	5	3567	-	X
86	MG	5	3568	-	X
86	MG	5	3569	-	X
86	MG	5	3570	-	X
86	MG	5	3571	-	X
86	MG	5	3572	-	X
86	MG	5	3573	-	X
86	MG	5	3574	-	X
86	MG	5	3575	-	X
86	MG	5	3576	-	X
86	MG	5	3577	-	X
86	MG	5	3578	-	X
86	MG	5	3579	-	X
86	MG	5	3580	-	X
86	MG	5	3581	-	X
86	MG	5	3582	-	X
86	MG	5	3583	-	X
86	MG	5	3584	-	X
86	MG	5	3585	-	X
86	MG	5	3586	-	X
86	MG	5	3587	-	X
86	MG	5	3588	-	X
86	MG	5	3589	-	X
86	MG	5	3590	-	X
86	MG	5	3591	-	X
86	MG	5	3592	-	X
86	MG	5	3593	-	X
86	MG	5	3594	-	X
86	MG	5	3595	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	5	3596	-	X
86	MG	5	3597	-	X
86	MG	5	3598	-	X
86	MG	5	3599	-	X
86	MG	5	3601	-	X
86	MG	5	3609	-	X
86	MG	5	3610	-	X
86	MG	5	3611	-	X
86	MG	5	3612	-	X
86	MG	5	3614	-	X
86	MG	5	3616	-	X
86	MG	5	3617	-	X
86	MG	5	3620	-	X
86	MG	5	3622	-	X
86	MG	5	3623	-	X
86	MG	5	3624	-	X
86	MG	5	3626	-	X
86	MG	5	3627	-	X
86	MG	5	3628	-	X
86	MG	5	3629	-	X
86	MG	5	3630	-	X
86	MG	5	3631	-	X
86	MG	5	3632	-	X
86	MG	5	3634	-	X
86	MG	5	3636	-	X
86	MG	5	3637	-	X
86	MG	5	3638	-	X
86	MG	5	3639	-	X
86	MG	5	3641	-	X
86	MG	5	3644	-	X
86	MG	5	3647	-	X
86	MG	5	3648	-	X
86	MG	5	3649	-	X
86	MG	5	3650	-	X
86	MG	5	3651	-	X
86	MG	5	3652	-	X
86	MG	5	3653	-	X
86	MG	5	3655	-	X
86	MG	5	3657	-	X
86	MG	5	3658	-	X
86	MG	5	3659	-	X
86	MG	5	3660	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	5	3662	-	X
86	MG	5	3664	-	X
86	MG	5	3665	-	X
86	MG	5	3667	-	X
86	MG	5	3668	-	X
86	MG	5	3670	-	X
86	MG	5	3673	-	X
86	MG	5	3675	-	X
86	MG	5	3676	-	X
86	MG	5	3680	-	X
86	MG	5	3681	-	X
86	MG	5	3683	-	X
86	MG	5	3687	-	X
86	MG	5	3689	-	X
86	MG	5	3692	-	X
86	MG	5	3694	-	X
86	MG	5	3697	-	X
86	MG	5	3699	-	X
86	MG	5	3701	-	X
86	MG	5	3704	-	X
86	MG	5	3705	-	X
86	MG	5	3709	-	X
86	MG	5	3710	-	X
86	MG	5	3711	-	X
86	MG	5	3717	-	X
86	MG	5	3719	-	X
86	MG	5	3720	-	X
86	MG	5	3721	-	X
86	MG	5	3725	-	X
86	MG	5	3726	-	X
86	MG	5	3729	-	X
86	MG	5	3730	-	X
86	MG	5	3731	-	X
86	MG	5	3732	-	X
86	MG	5	3734	-	X
86	MG	5	3736	-	X
86	MG	5	3737	-	X
86	MG	5	3738	-	X
86	MG	5	3739	-	X
86	MG	5	3740	-	X
86	MG	5	3742	-	X
86	MG	5	3744	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	5	3747	-	X
86	MG	5	3749	-	X
86	MG	5	3753	-	X
86	MG	5	3754	-	X
86	MG	5	3757	-	X
86	MG	5	3759	-	X
86	MG	5	3760	-	X
86	MG	5	3763	-	X
86	MG	5	3764	-	X
86	MG	5	3765	-	X
86	MG	5	3766	-	X
86	MG	5	3770	-	X
86	MG	5	3772	-	X
86	MG	5	3774	-	X
86	MG	5	3775	-	X
86	MG	5	3778	-	X
86	MG	5	3780	-	X
86	MG	5	3781	-	X
86	MG	5	3782	-	X
86	MG	5	3783	-	X
86	MG	5	3785	-	X
86	MG	5	3786	-	X
86	MG	5	3787	-	X
86	MG	5	3792	-	X
86	MG	5	3793	-	X
86	MG	5	3802	-	X
86	MG	5	3804	-	X
86	MG	5	3805	-	X
86	MG	5	3807	-	X
86	MG	5	3809	-	X
86	MG	5	3812	-	X
86	MG	5	3814	-	X
86	MG	5	3822	-	X
86	MG	5	3823	-	X
86	MG	5	3825	-	X
86	MG	5	3826	-	X
86	MG	5	3828	-	X
86	MG	5	3829	-	X
86	MG	5	3830	-	X
86	MG	5	3834	-	X
86	MG	5	3835	-	X
86	MG	5	3836	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	5	3837	-	X
86	MG	5	3844	-	X
86	MG	5	3846	-	X
86	MG	5	3848	-	X
86	MG	5	3849	-	X
86	MG	5	3850	-	X
86	MG	5	3851	-	X
86	MG	5	3852	-	X
86	MG	5	3854	-	X
86	MG	5	3857	-	X
86	MG	5	3858	-	X
86	MG	5	3861	-	X
86	MG	5	3862	-	X
86	MG	5	3864	-	X
86	MG	5	3865	-	X
86	MG	5	3866	-	X
86	MG	5	3867	-	X
86	MG	5	3868	-	X
86	MG	5	3872	-	X
86	MG	5	3874	-	X
86	MG	5	3875	-	X
86	MG	5	3877	-	X
86	MG	5	3878	-	X
86	MG	5	3880	-	X
86	MG	5	3881	-	X
86	MG	5	3882	-	X
86	MG	5	3883	-	X
86	MG	5	3884	-	X
86	MG	5	3885	-	X
86	MG	5	3889	-	X
86	MG	5	3890	-	X
86	MG	5	3894	-	X
86	MG	5	3895	-	X
86	MG	5	3896	-	X
86	MG	5	3897	-	X
86	MG	5	3899	-	X
86	MG	5	4253	-	X
86	MG	5	4254	-	X
86	MG	5	4255	-	X
86	MG	5	4256	-	X
86	MG	5	4257	-	X
86	MG	5	4258	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	6	1901	-	X
86	MG	6	1902	-	X
86	MG	6	1903	-	X
86	MG	6	1904	-	X
86	MG	6	1906	-	X
86	MG	6	1907	-	X
86	MG	6	1908	-	X
86	MG	6	1909	-	X
86	MG	6	1911	-	X
86	MG	6	1912	-	X
86	MG	6	1914	-	X
86	MG	6	1916	-	X
86	MG	6	1917	-	X
86	MG	6	1918	-	X
86	MG	6	1919	-	X
86	MG	6	1920	-	X
86	MG	6	1921	-	X
86	MG	6	1922	-	X
86	MG	6	1923	-	X
86	MG	6	1925	-	X
86	MG	6	1926	-	X
86	MG	6	1927	-	X
86	MG	6	1928	-	X
86	MG	6	1929	-	X
86	MG	6	1930	-	X
86	MG	6	1931	-	X
86	MG	6	1932	-	X
86	MG	6	1933	-	X
86	MG	6	1934	-	X
86	MG	6	1935	-	X
86	MG	6	1936	-	X
86	MG	6	1937	-	X
86	MG	6	1938	-	X
86	MG	6	1939	-	X
86	MG	6	1940	-	X
86	MG	6	1941	-	X
86	MG	6	1942	-	X
86	MG	6	1943	-	X
86	MG	6	1944	-	X
86	MG	6	1945	-	X
86	MG	6	1946	-	X
86	MG	6	1947	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	6	1948	-	X
86	MG	6	1949	-	X
86	MG	6	1950	-	X
86	MG	6	1951	-	X
86	MG	6	1952	-	X
86	MG	6	1953	-	X
86	MG	6	1954	-	X
86	MG	6	1955	-	X
86	MG	6	1956	-	X
86	MG	6	1958	-	X
86	MG	6	1959	-	X
86	MG	6	1960	-	X
86	MG	6	1961	-	X
86	MG	6	1963	-	X
86	MG	6	1964	-	X
86	MG	6	1966	-	X
86	MG	6	1967	-	X
86	MG	6	1968	-	X
86	MG	6	1972	-	X
86	MG	6	1974	-	X
86	MG	6	1975	-	X
86	MG	6	1977	-	X
86	MG	6	1979	-	X
86	MG	6	1980	-	X
86	MG	6	1981	-	X
86	MG	6	1982	-	X
86	MG	6	1983	-	X
86	MG	6	1985	-	X
86	MG	6	1986	-	X
86	MG	6	1989	-	X
86	MG	6	1992	-	X
86	MG	6	1993	-	X
86	MG	6	2001	-	X
86	MG	6	2008	-	X
86	MG	6	2011	-	X
86	MG	6	2012	-	X
86	MG	6	2013	-	X
86	MG	6	2014	-	X
86	MG	6	2016	-	X
86	MG	6	2017	-	X
86	MG	6	2019	-	X
86	MG	6	2020	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	6	2023	-	X
86	MG	6	2027	-	X
86	MG	6	2028	-	X
86	MG	6	2029	-	X
86	MG	6	2031	-	X
86	MG	6	2034	-	X
86	MG	6	2035	-	X
86	MG	6	2037	-	X
86	MG	6	2038	-	X
86	MG	6	2039	-	X
86	MG	6	2040	-	X
86	MG	6	2042	-	X
86	MG	6	2043	-	X
86	MG	6	2046	-	X
86	MG	7	201	-	X
86	MG	7	202	-	X
86	MG	7	203	-	X
86	MG	7	204	-	X
86	MG	7	205	-	X
86	MG	7	206	-	X
86	MG	7	207	-	X
86	MG	7	209	-	X
86	MG	7	212	-	X
86	MG	7	213	-	X
86	MG	7	214	-	X
86	MG	8	201	-	X
86	MG	8	203	-	X
86	MG	8	206	-	X
86	MG	8	208	-	X
86	MG	8	212	-	X
86	MG	D0	201	-	X
86	MG	L3	401	-	X
86	MG	L5	301	-	X
86	MG	M0	301	-	X
86	MG	M1	201	-	X
86	MG	M3	203	-	X
86	MG	M7	202	-	X
86	MG	M7	203	-	X
86	MG	N3	201	-	X
86	MG	N3	202	-	X
86	MG	N3	203	-	X
86	MG	N8	202	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
86	MG	N8	204	-	X
86	MG	O1	201	-	X
86	MG	O3	201	-	X
86	MG	c7	202	-	X
86	MG	c8	201	-	X
86	MG	d3	201	-	X
86	MG	d4	201	-	X
86	MG	l2	301	-	X
86	MG	l3	401	-	X
86	MG	l5	302	-	X
86	MG	l7	301	-	X
86	MG	l8	301	-	X
86	MG	m1	201	-	X
86	MG	m7	201	-	X
86	MG	m7	202	-	X
86	MG	m7	203	-	X
86	MG	n0	201	-	X
86	MG	n3	201	-	X
86	MG	n8	202	-	X
86	MG	o1	202	-	X
86	MG	o3	201	-	X
86	MG	q0	202	-	X
86	MG	s6	301	-	X
87	OHX	1	3864	-	X
87	OHX	1	3865	-	X
87	OHX	1	3870	-	X
87	OHX	1	3872	-	X
87	OHX	1	3877	-	X
87	OHX	1	3881	-	X
87	OHX	1	3888	-	X
87	OHX	1	3903	-	X
87	OHX	1	3908	-	X
87	OHX	1	3977	-	X
87	OHX	1	4013	-	X
87	OHX	1	4033	-	X
87	OHX	1	4042	-	X
87	OHX	1	4045	-	X
87	OHX	1	4057	-	X
87	OHX	1	4061	-	X
87	OHX	1	4062	-	X
87	OHX	1	4063	-	X
87	OHX	1	4066	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	1	4067	-	X
87	OHX	1	4069	-	X
87	OHX	1	4072	-	X
87	OHX	1	4081	-	X
87	OHX	1	4094	-	X
87	OHX	1	4095	-	X
87	OHX	1	4097	-	X
87	OHX	1	4098	-	X
87	OHX	1	4100	-	X
87	OHX	1	4104	-	X
87	OHX	1	4107	-	X
87	OHX	1	4109	-	X
87	OHX	1	4110	-	X
87	OHX	1	4111	-	X
87	OHX	1	4112	-	X
87	OHX	1	4114	-	X
87	OHX	1	4115	-	X
87	OHX	1	4118	-	X
87	OHX	1	4119	-	X
87	OHX	1	4120	-	X
87	OHX	1	4121	-	X
87	OHX	1	4122	-	X
87	OHX	1	4125	-	X
87	OHX	1	4127	-	X
87	OHX	1	4128	-	X
87	OHX	1	4129	-	X
87	OHX	1	4132	-	X
87	OHX	1	4133	-	X
87	OHX	1	4135	-	X
87	OHX	1	4137	-	X
87	OHX	1	4138	-	X
87	OHX	1	4139	-	X
87	OHX	1	4141	-	X
87	OHX	1	4142	-	X
87	OHX	1	4143	-	X
87	OHX	1	4146	-	X
87	OHX	1	4147	-	X
87	OHX	1	4148	-	X
87	OHX	1	4149	-	X
87	OHX	1	4152	-	X
87	OHX	1	4153	-	X
87	OHX	1	4154	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	1	4157	-	X
87	OHX	1	4158	-	X
87	OHX	1	4159	-	X
87	OHX	1	4160	-	X
87	OHX	1	4162	-	X
87	OHX	1	4163	-	X
87	OHX	1	4164	-	X
87	OHX	1	4166	-	X
87	OHX	1	4167	-	X
87	OHX	1	4168	-	X
87	OHX	1	4169	-	X
87	OHX	1	4170	-	X
87	OHX	1	4171	-	X
87	OHX	1	4173	-	X
87	OHX	1	4174	-	X
87	OHX	1	4175	-	X
87	OHX	1	4176	-	X
87	OHX	1	4177	-	X
87	OHX	1	4179	-	X
87	OHX	1	4180	-	X
87	OHX	1	4181	-	X
87	OHX	1	4182	-	X
87	OHX	1	4184	-	X
87	OHX	1	4185	-	X
87	OHX	1	4186	-	X
87	OHX	1	4188	-	X
87	OHX	1	4189	-	X
87	OHX	1	4190	-	X
87	OHX	1	4191	-	X
87	OHX	1	4192	-	X
87	OHX	1	4195	-	X
87	OHX	1	4197	-	X
87	OHX	1	4200	-	X
87	OHX	1	4201	-	X
87	OHX	1	4202	-	X
87	OHX	1	4203	-	X
87	OHX	1	4204	-	X
87	OHX	1	4205	-	X
87	OHX	1	4207	-	X
87	OHX	1	4208	-	X
87	OHX	1	4209	-	X
87	OHX	1	4210	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	1	4211	-	X
87	OHX	1	4213	-	X
87	OHX	1	4214	-	X
87	OHX	2	2022	-	X
87	OHX	2	2024	-	X
87	OHX	2	2039	-	X
87	OHX	2	2063	-	X
87	OHX	2	2073	-	X
87	OHX	2	2074	-	X
87	OHX	2	2078	-	X
87	OHX	2	2083	-	X
87	OHX	2	2090	-	X
87	OHX	2	2098	-	X
87	OHX	2	2107	-	X
87	OHX	2	2111	-	X
87	OHX	2	2112	-	X
87	OHX	2	2115	-	X
87	OHX	2	2116	-	X
87	OHX	2	2118	-	X
87	OHX	2	2121	-	X
87	OHX	2	2122	-	X
87	OHX	2	2124	-	X
87	OHX	2	2127	-	X
87	OHX	2	2134	-	X
87	OHX	2	2135	-	X
87	OHX	2	2136	-	X
87	OHX	2	2142	-	X
87	OHX	2	2144	-	X
87	OHX	2	2145	-	X
87	OHX	2	2147	-	X
87	OHX	2	2151	-	X
87	OHX	2	2152	-	X
87	OHX	2	2153	-	X
87	OHX	2	2156	-	X
87	OHX	2	2158	-	X
87	OHX	2	2159	-	X
87	OHX	2	2161	-	X
87	OHX	2	2162	-	X
87	OHX	2	2163	-	X
87	OHX	2	2164	-	X
87	OHX	2	2168	-	X
87	OHX	2	2170	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	2	2171	-	X
87	OHX	2	2172	-	X
87	OHX	2	2174	-	X
87	OHX	2	2175	-	X
87	OHX	2	2177	-	X
87	OHX	2	2178	-	X
87	OHX	3	223	-	X
87	OHX	3	224	-	X
87	OHX	3	225	-	X
87	OHX	4	229	-	X
87	OHX	4	233	-	X
87	OHX	4	234	-	X
87	OHX	4	235	-	X
87	OHX	4	236	-	X
87	OHX	5	3901	-	X
87	OHX	5	3902	-	X
87	OHX	5	3905	-	X
87	OHX	5	3910	-	X
87	OHX	5	3913	-	X
87	OHX	5	3952	-	X
87	OHX	5	4040	-	X
87	OHX	5	4045	-	X
87	OHX	5	4054	-	X
87	OHX	5	4063	-	X
87	OHX	5	4073	-	X
87	OHX	5	4077	-	X
87	OHX	5	4083	-	X
87	OHX	5	4087	-	X
87	OHX	5	4092	-	X
87	OHX	5	4093	-	X
87	OHX	5	4100	-	X
87	OHX	5	4105	-	X
87	OHX	5	4111	-	X
87	OHX	5	4113	-	X
87	OHX	5	4115	-	X
87	OHX	5	4124	-	X
87	OHX	5	4126	-	X
87	OHX	5	4128	-	X
87	OHX	5	4133	-	X
87	OHX	5	4135	-	X
87	OHX	5	4138	-	X
87	OHX	5	4139	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	5	4141	-	X
87	OHX	5	4142	-	X
87	OHX	5	4144	-	X
87	OHX	5	4146	-	X
87	OHX	5	4147	-	X
87	OHX	5	4148	-	X
87	OHX	5	4149	-	X
87	OHX	5	4150	-	X
87	OHX	5	4151	-	X
87	OHX	5	4152	-	X
87	OHX	5	4153	-	X
87	OHX	5	4154	-	X
87	OHX	5	4156	-	X
87	OHX	5	4158	-	X
87	OHX	5	4159	-	X
87	OHX	5	4160	-	X
87	OHX	5	4161	-	X
87	OHX	5	4162	-	X
87	OHX	5	4166	-	X
87	OHX	5	4172	-	X
87	OHX	5	4173	-	X
87	OHX	5	4174	-	X
87	OHX	5	4175	-	X
87	OHX	5	4176	-	X
87	OHX	5	4177	-	X
87	OHX	5	4178	-	X
87	OHX	5	4179	-	X
87	OHX	5	4181	-	X
87	OHX	5	4183	-	X
87	OHX	5	4184	-	X
87	OHX	5	4185	-	X
87	OHX	5	4186	-	X
87	OHX	5	4187	-	X
87	OHX	5	4188	-	X
87	OHX	5	4190	-	X
87	OHX	5	4191	-	X
87	OHX	5	4192	-	X
87	OHX	5	4193	-	X
87	OHX	5	4195	-	X
87	OHX	5	4196	-	X
87	OHX	5	4197	-	X
87	OHX	5	4201	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	5	4202	-	X
87	OHX	5	4203	-	X
87	OHX	5	4204	-	X
87	OHX	5	4205	-	X
87	OHX	5	4207	-	X
87	OHX	5	4209	-	X
87	OHX	5	4212	-	X
87	OHX	5	4213	-	X
87	OHX	5	4215	-	X
87	OHX	5	4217	-	X
87	OHX	5	4218	-	X
87	OHX	5	4219	-	X
87	OHX	5	4220	-	X
87	OHX	5	4221	-	X
87	OHX	5	4222	-	X
87	OHX	5	4223	-	X
87	OHX	5	4226	-	X
87	OHX	5	4228	-	X
87	OHX	5	4229	-	X
87	OHX	5	4230	-	X
87	OHX	5	4231	-	X
87	OHX	5	4233	-	X
87	OHX	5	4234	-	X
87	OHX	5	4235	-	X
87	OHX	5	4236	-	X
87	OHX	5	4237	-	X
87	OHX	5	4239	-	X
87	OHX	5	4240	-	X
87	OHX	5	4244	-	X
87	OHX	5	4245	-	X
87	OHX	5	4246	-	X
87	OHX	5	4247	-	X
87	OHX	5	4248	-	X
87	OHX	5	4249	-	X
87	OHX	5	4250	-	X
87	OHX	6	2048	-	X
87	OHX	6	2051	-	X
87	OHX	6	2053	-	X
87	OHX	6	2092	-	X
87	OHX	6	2113	-	X
87	OHX	6	2116	-	X
87	OHX	6	2118	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	6	2122	-	X
87	OHX	6	2127	-	X
87	OHX	6	2134	-	X
87	OHX	6	2135	-	X
87	OHX	6	2137	-	X
87	OHX	6	2141	-	X
87	OHX	6	2145	-	X
87	OHX	6	2148	-	X
87	OHX	6	2158	-	X
87	OHX	6	2159	-	X
87	OHX	6	2161	-	X
87	OHX	6	2162	-	X
87	OHX	6	2164	-	X
87	OHX	6	2166	-	X
87	OHX	6	2169	-	X
87	OHX	6	2170	-	X
87	OHX	6	2171	-	X
87	OHX	6	2172	-	X
87	OHX	6	2175	-	X
87	OHX	6	2177	-	X
87	OHX	6	2178	-	X
87	OHX	6	2179	-	X
87	OHX	6	2181	-	X
87	OHX	6	2182	-	X
87	OHX	6	2184	-	X
87	OHX	6	2185	-	X
87	OHX	6	2187	-	X
87	OHX	6	2188	-	X
87	OHX	6	2189	-	X
87	OHX	6	2190	-	X
87	OHX	6	2191	-	X
87	OHX	6	2192	-	X
87	OHX	6	2195	-	X
87	OHX	6	2196	-	X
87	OHX	6	2198	-	X
87	OHX	6	2199	-	X
87	OHX	6	2200	-	X
87	OHX	6	2204	-	X
87	OHX	6	2205	-	X
87	OHX	7	223	-	X
87	OHX	7	226	-	X
87	OHX	7	227	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
87	OHX	8	220	-	X
87	OHX	8	224	-	X
87	OHX	8	225	-	X
87	OHX	8	227	-	X
87	OHX	8	228	-	X
87	OHX	L3	404	-	X
87	OHX	M7	207	-	X
87	OHX	O9	101	-	X
87	OHX	l4	404	-	X
87	OHX	l5	305	-	X
87	OHX	m4	201	-	X
87	OHX	m7	205	-	X
87	OHX	m8	201	-	X
87	OHX	s4	301	-	X
87	OHX	s9	201	-	X
89	3HE	5	4252	-	X

2 Entry composition

There are 89 unique types of molecules in this entry. The entry contains 411205 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 RNA (1750-MER).

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			
12	c0	96	Total	C	N	O	S	0	0	0
			762	491	125	144	2			

There are 2 discrepancies between the modelled and reference sequences:

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

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
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			
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 *Saccharomyces cerevisiae* chromosome XII cosmid 9634.

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 Yeast 5S rRNA gene.

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 Uncultured eukaryote clone NS4T.275 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.

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
			1764	1131	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	0	0	0
			1420	882	281	257			
53	m7	155	Total	C	N	O	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	0	0	0
			1521	935	326	260			
55	m9	188	Total	C	N	O	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 S30-A.

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

- Molecule 81 is a protein called Ubiquitin-40S ribosomal protein S31.

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

- Molecule 82 is a protein called UNKNOWN PROTEIN m2.

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

- Molecule 83 is a protein called 60S acidic ribosomal protein P0.

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

- Molecule 84 is a protein called UNKNOWN PROTEIN p1.

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

- Molecule 85 is a protein called UNKNOWN PROTEIN p2.

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

- Molecule 86 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	L7	3	Total	Mg	0	0
			3	3		
86	m7	4	Total	Mg	0	0
			4	4		
86	n8	3	Total	Mg	0	0
			3	3		
86	o1	2	Total	Mg	0	0
			2	2		
86	N5	1	Total	Mg	0	0
			1	1		
86	6	147	Total	Mg	0	0
			147	147		
86	sM	2	Total	Mg	0	0
			2	2		
86	O4	2	Total	Mg	0	0
			2	2		
86	m5	2	Total	Mg	0	0
			2	2		
86	l3	1	Total	Mg	0	0
			1	1		
86	M1	1	Total	Mg	0	0
			1	1		
86	n0	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	d6	1	Total 1	Mg 1	0	0
86	2	122	Total 122	Mg 122	0	0
86	O3	1	Total 1	Mg 1	0	0
86	L4	1	Total 1	Mg 1	0	0
86	l7	1	Total 1	Mg 1	0	0
86	M5	2	Total 2	Mg 2	0	0
86	l4	2	Total 2	Mg 2	0	0
86	S2	1	Total 1	Mg 1	0	0
86	L8	1	Total 1	Mg 1	0	0
86	D3	1	Total 1	Mg 1	0	0
86	o4	2	Total 2	Mg 2	0	0
86	M9	1	Total 1	Mg 1	0	0
86	q0	1	Total 1	Mg 1	0	0
86	SM	1	Total 1	Mg 1	0	0
86	c8	2	Total 2	Mg 2	0	0
86	M0	2	Total 2	Mg 2	0	0
86	c1	1	Total 1	Mg 1	0	0
86	5	505	Total 505	Mg 505	0	0
86	L5	1	Total 1	Mg 1	0	0
86	O7	1	Total 1	Mg 1	0	0
86	s6	1	Total 1	Mg 1	0	0

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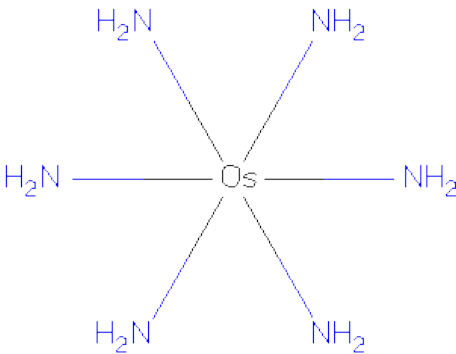
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	Q2	1	Total 1	Mg 1	0	0
86	1	471	Total 471	Mg 471	0	0
86	c4	1	Total 1	Mg 1	0	0
86	D0	1	Total 1	Mg 1	0	0
86	S8	1	Total 1	Mg 1	0	0
86	m1	2	Total 2	Mg 2	0	0
86	d3	1	Total 1	Mg 1	0	0
86	q3	2	Total 2	Mg 2	0	0
86	o3	1	Total 1	Mg 1	0	0
86	M3	4	Total 4	Mg 4	0	0
86	N3	3	Total 3	Mg 3	0	0
86	4	22	Total 22	Mg 22	0	0
86	n6	2	Total 2	Mg 2	0	0
86	S4	1	Total 1	Mg 1	0	0
86	L2	1	Total 1	Mg 1	0	0
86	o7	1	Total 1	Mg 1	0	0
86	l5	2	Total 2	Mg 2	0	0
86	C3	1	Total 1	Mg 1	0	0
86	M7	6	Total 6	Mg 6	0	0
86	N8	4	Total 4	Mg 4	0	0
86	s1	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	m6	1	Total 1	Mg 1	0	0
86	O1	1	Total 1	Mg 1	0	0
86	s8	1	Total 1	Mg 1	0	0
86	l8	1	Total 1	Mg 1	0	0
86	c7	2	Total 2	Mg 2	0	0
86	7	15	Total 15	Mg 15	0	0
86	n3	2	Total 2	Mg 2	0	0
86	L3	3	Total 3	Mg 3	0	0
86	d4	1	Total 1	Mg 1	0	0
86	l2	2	Total 2	Mg 2	0	0
86	8	13	Total 13	Mg 13	0	0
86	M6	1	Total 1	Mg 1	0	0
86	N0	1	Total 1	Mg 1	0	0
86	3	14	Total 14	Mg 14	0	0

- Molecule 87 is osmium (III) hexammine (three-letter code: OHX) (formula: H₁₂N₆Os).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	S8	1	Total 7	N 6	Os 1	0	0
87	C3	1	Total 7	N 6	Os 1	0	0
87	C5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	D3	1	Total	N	Os	0	0
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87	D9	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	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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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	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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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	3	1	Total	N	Os	0	0
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87	3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	3	1	Total	N	Os	0	0
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87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	4	1	Total 7	N 6	Os 1	0	0
87	4	1	Total 7	N 6	Os 1	0	0
87	L3	1	Total 7	N 6	Os 1	0	0
87	L3	1	Total 7	N 6	Os 1	0	0
87	L3	1	Total 7	N 6	Os 1	0	0
87	L4	1	Total 7	N 6	Os 1	0	0
87	M0	1	Total 7	N 6	Os 1	0	0
87	M5	1	Total 7	N 6	Os 1	0	0
87	M7	1	Total 7	N 6	Os 1	0	0
87	M7	1	Total 7	N 6	Os 1	0	0
87	M9	1	Total 7	N 6	Os 1	0	0
87	N1	1	Total 7	N 6	Os 1	0	0
87	N9	1	Total 7	N 6	Os 1	0	0
87	O2	1	Total 7	N 6	Os 1	0	0
87	O3	1	Total 7	N 6	Os 1	0	0
87	O7	1	Total 7	N 6	Os 1	0	0
87	O7	1	Total 7	N 6	Os 1	0	0
87	O9	1	Total 7	N 6	Os 1	0	0
87	Q2	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	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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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	8	1	Total 7	N 6	Os 1	0	0
87	8	1	Total 7	N 6	Os 1	0	0
87	8	1	Total 7	N 6	Os 1	0	0
87	l3	1	Total 7	N 6	Os 1	0	0
87	l3	1	Total 7	N 6	Os 1	0	0
87	l3	1	Total 7	N 6	Os 1	0	0
87	l4	1	Total 7	N 6	Os 1	0	0
87	l4	1	Total 7	N 6	Os 1	0	0
87	l5	1	Total 7	N 6	Os 1	0	0
87	l5	1	Total 7	N 6	Os 1	0	0
87	l5	1	Total 7	N 6	Os 1	0	0
87	l9	1	Total 7	N 6	Os 1	0	0
87	m0	1	Total 7	N 6	Os 1	0	0
87	m0	1	Total 7	N 6	Os 1	0	0
87	m1	1	Total 7	N 6	Os 1	0	0
87	m4	1	Total 7	N 6	Os 1	0	0
87	m5	1	Total 7	N 6	Os 1	0	0
87	m6	1	Total 7	N 6	Os 1	0	0
87	m7	1	Total 7	N 6	Os 1	0	0
87	m8	1	Total 7	N 6	Os 1	0	0
87	n3	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	n9	1	Total	N	Os	0	0
			7	6	1		
87	o2	1	Total	N	Os	0	0
			7	6	1		
87	o3	1	Total	N	Os	0	0
			7	6	1		
87	o7	1	Total	N	Os	0	0
			7	6	1		
87	o9	1	Total	N	Os	0	0
			7	6	1		
87	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 88 is ZINC ION (three-letter code: ZN) (formula: Zn).

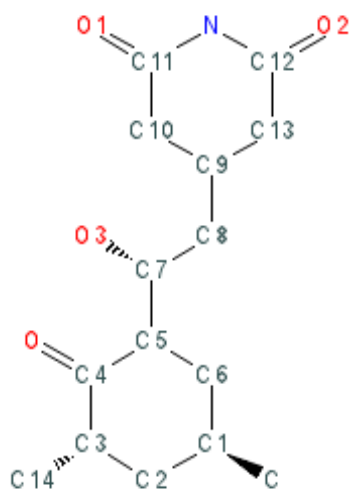
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	q0	1	Total	Zn	0	0
			1	1		
88	D6	1	Total	Zn	0	0
			1	1		
88	Q2	1	Total	Zn	0	0
			1	1		
88	e1	1	Total	Zn	0	0
			1	1		
88	Q3	1	Total	Zn	0	0
			1	1		
88	D9	1	Total	Zn	0	0
			1	1		
88	E1	1	Total	Zn	0	0
			1	1		
88	Q0	1	Total	Zn	0	0
			1	1		
88	d7	1	Total	Zn	0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

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

- Molecule 89 is 4-{(2R)-2-[(1S,3S,5S)-3,5-dimethyl-2-oxocyclohexyl]-2-hydroxyethyl}piperidine-2,6-dione (three-letter code: 3HE) (formula: C₁₅H₂₃NO₄).



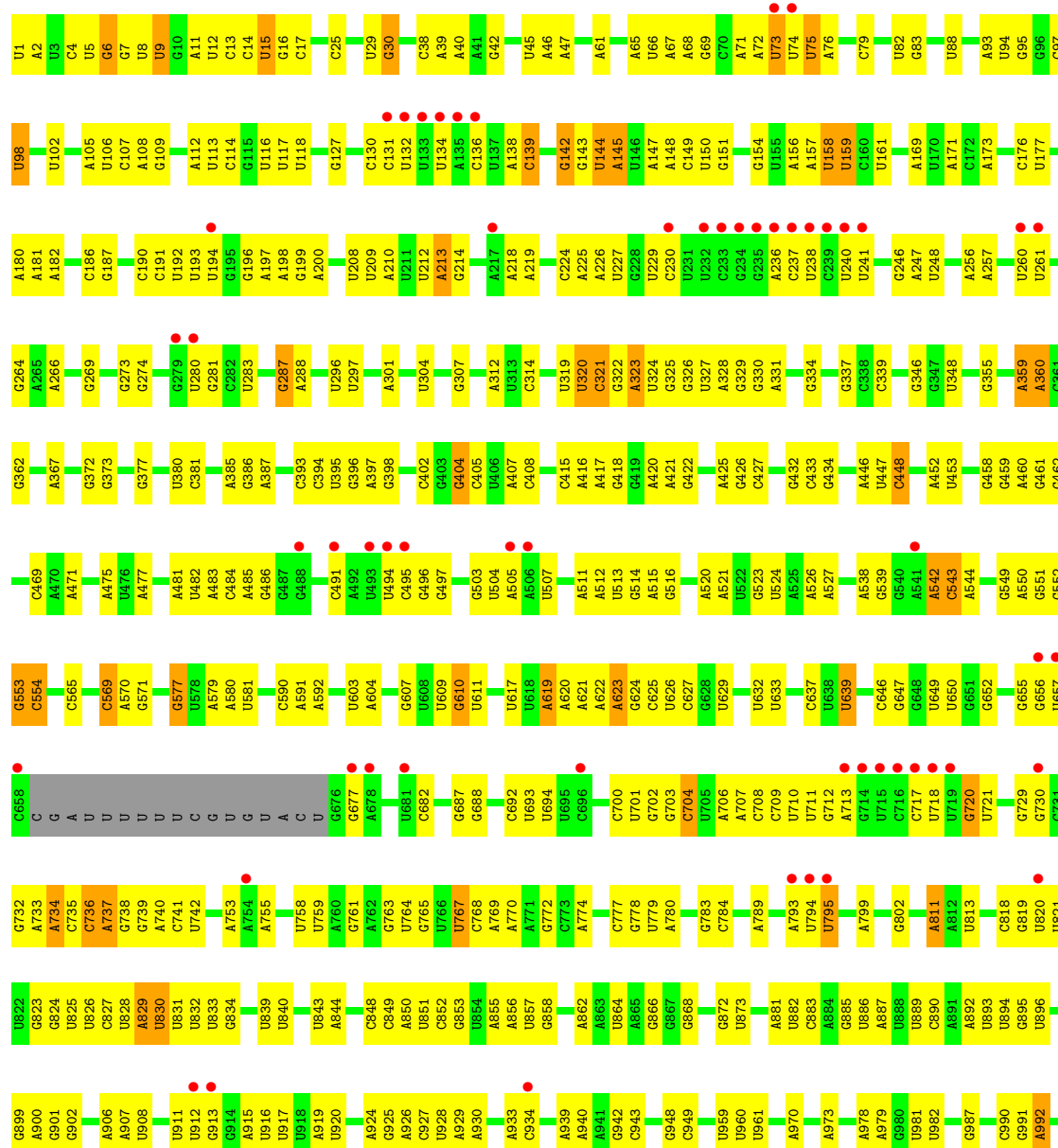
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
89	1	1	Total	C	N	O	0	0
			20	15	1	4		
89	5	1	Total	C	N	O	0	0
			20	15	1	4		

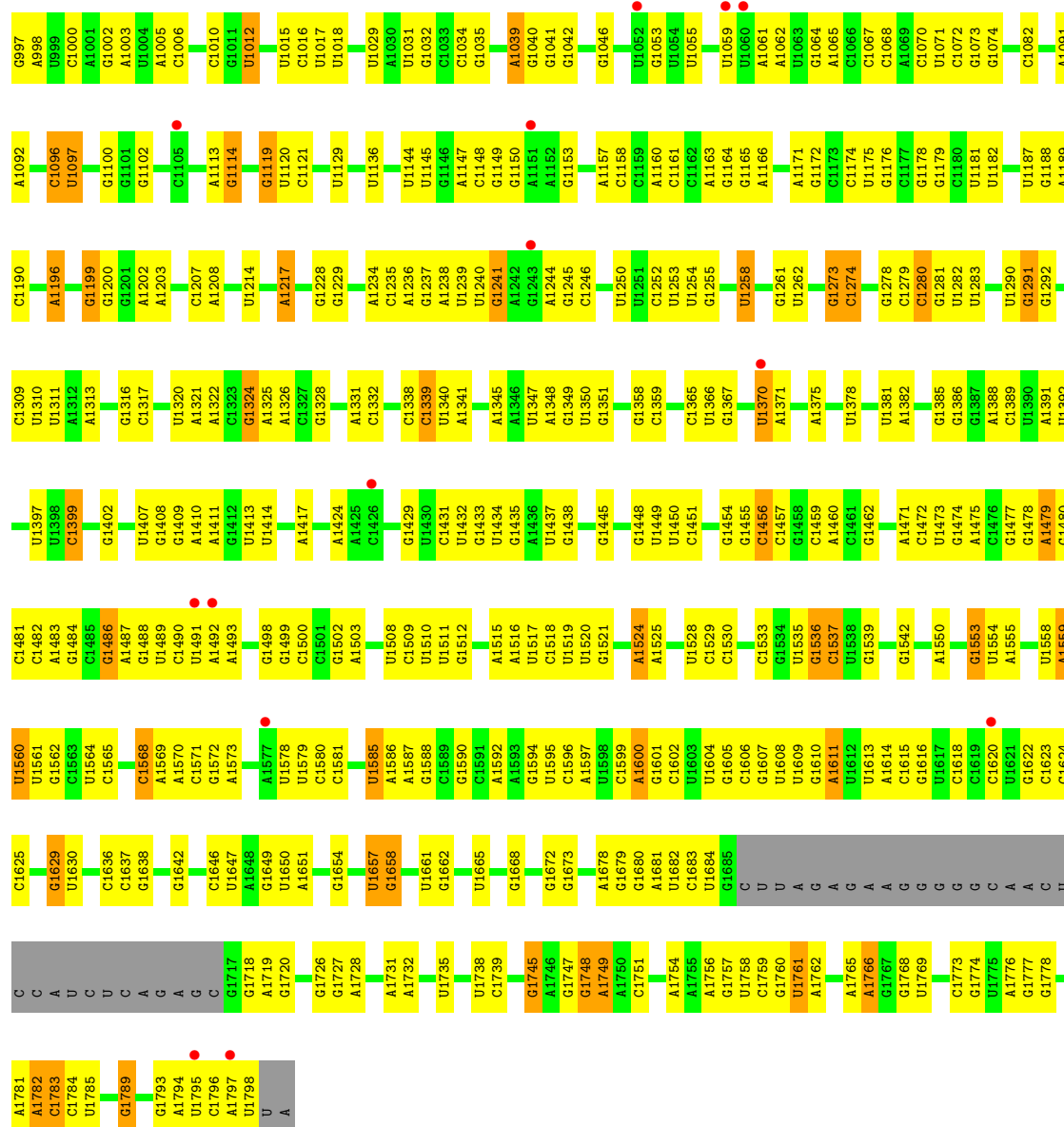
3 Residue-property plots

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 ($RSRZ > 2$). 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: RNA (1750-MER)

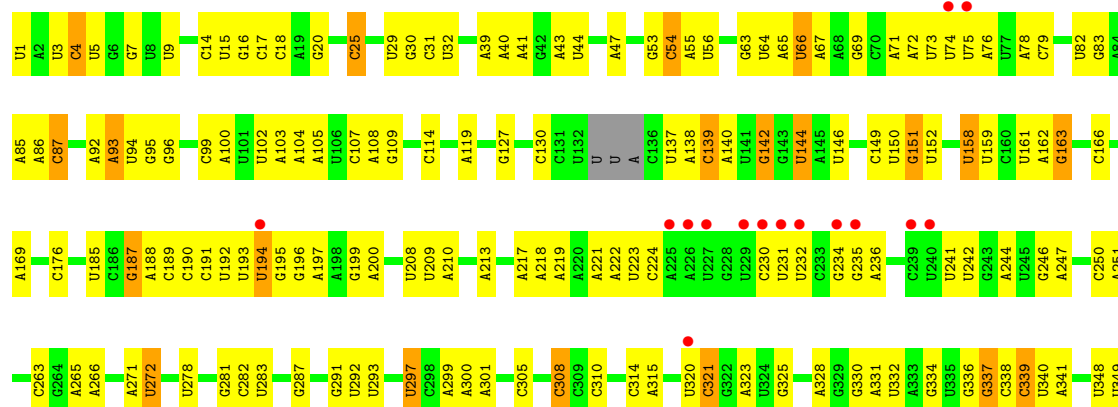
Chain 2: 



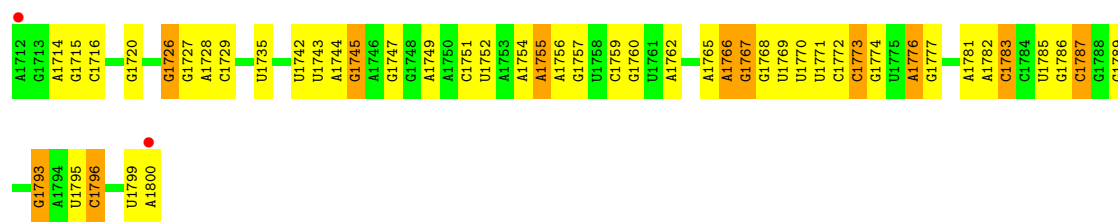


● Molecule 1: RNA (1750-MER)

Chain 6:

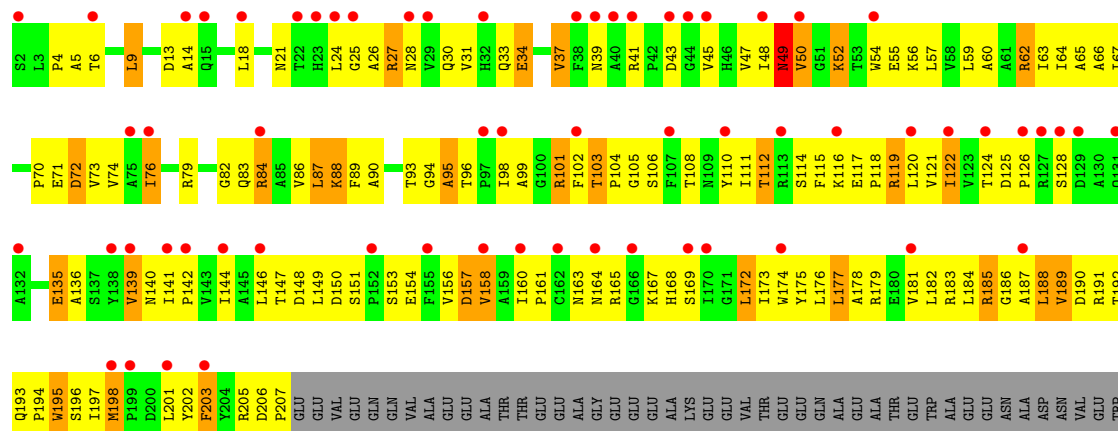


G1638	G1639	U1643	G1644	G1645	G1649	U1650	A1651	G1654	U1657	G1658	G1662	G1663	U1664	U1665	U1666	G1670	A1671	G1672	G1673	C1674	U1676	G1679	G1680	C1681	G1682	G1683	G1684	G1685	G1686	G1687	G1688	G1689	A1690	G1691	G1692	A1693	U1694	G1695	G1696	G1697	G1698	G1699	C1700	C1701	A1702	C1703	U1704	C1705	G1706	A1707	U1708	C1709	C1710	C1711																																																																																																																																																																																																																																																																																																																																																									
U1542	C1549	U1552	G1553	U1558	A1559	U1560	U1561	G1562	C1563	U1564	C1565	U1566	C1567	U1568	C1569	G1572	A1573	G1574	U1579	G1584	A1587	U1588	C1589	C1590	U1595	C1596	A1597	U1598	C1599	G1600	U1608	C1609	U1610	U1611	U1612	U1613	U1614	U1615	U1616	U1617	U1618	U1619	U1620	U1621	U1622	U1623	U1624	U1625	U1626	U1627	U1628	U1629	U1630	U1631	U1632	U1633	U1634	U1635	U1636	U1637																																																																																																																																																																																																																																																																																																																																																			
G1458	C1459	A1460	G1461	G1462	C1470	A1471	U1472	U1473	U1474	A1475	C1476	G1477	U1478	C1479	U1480	C1481	U1482	A1483	G1488	U1489	C1490	U1491	A1492	C1493	C1494	G1498	G1502	A1503	G1504	U1508	C1509	U1514	A1515	A1516	U1517	G1521	U1522	G1523	A1524	C1525	C1529	C1533	G1534	U1535	C1536	G1537	U1538	C1539	G1540	G1541																																																																																																																																																																																																																																																																																																																																																													
U1258	U1259	G1263	G1264	G1268	U1269	U1270	C1271	A1272	U1273	U1274	C1275	U1276	U1277	U1278	C1279	U1280	U1281	U1282	U1283	G1289	A1300	U1304	C1305	C1306	C1309	U1310	U1311	U1312	U1313	U1314	U1315	U1316	U1320	A1321	U1322	G1330	C1331	C1332	C1333	U1334	U1335	U1336	U1337	U1338	U1339	U1340	U1341	U1342	U1343	U1344	U1345	U1346	U1347	U1348	U1349	U1350	U1351	U1352	U1353	U1354	U1355	U1356	U1357	U1358	U1359	U1360	U1361	U1362	U1363	U1364	U1365	U1366	U1367	U1368	U1369	U1370																																																																																																																																																																																																																																																																																																																																			
A1371	U1372	C1379	A1382	U1385	U1386	U1387	U1388	C1389	U1392	C1393	U1396	U1397	U1398	C1399	G1402	C1403	U1404	U1405	U1406	U1410	U1413	U1414	U1415	U1416	U1417	U1418	U1419	U1420	U1421	U1422	U1423	U1424	U1425	U1426	U1427	U1428	U1429	U1430	U1431	U1432	U1433	U1434	U1435	U1436	U1437	U1438	U1439	U1440	U1441	U1442	U1443	U1444	U1445	U1446	U1447	U1448	U1449	U1450	U1451	U1452	U1453	U1454	U1455	U1456	U1457	U1458	U1459	U1460	U1461	U1462	U1463	U1464	U1465	U1466	U1467	U1468	U1469	U1470	U1471	U1472	U1473	U1474	U1475	U1476	U1477	U1478	U1479	U1480	U1481	U1482	U1483	U1484	U1485	U1486	U1487	U1488	U1489	U1490	U1491	U1492	U1493	U1494	U1495	U1496	U1497	U1498	U1499	U1500	U1501	U1502	U1503	U1504	U1505	U1506	U1507	U1508	U1509	U1510	U1511	U1512	U1513	U1514	U1515	U1516	U1517	U1518	U1519	U1520	U1521	U1522	U1523	U1524	U1525	U1526	U1527	U1528	U1529	U1530	U1531	U1532	U1533	U1534	U1535	U1536	U1537	U1538	U1539	U1540	U1541	U1542	U1543	U1544	U1545	U1546	U1547	U1548	U1549	U1550	U1551	U1552	U1553	U1554	U1555	U1556	U1557	U1558	U1559	U1560	U1561	U1562	U1563	U1564	U1565	U1566	U1567	U1568	U1569	U1570	U1571	U1572	U1573	U1574	U1575	U1576	U1577	U1578	U1579	U1580	U1581	U1582	U1583	U1584	U1585	U1586	U1587	U1588	U1589	U1590	U1591	U1592	U1593	U1594	U1595	U1596	U1597	U1598	U1599	U1600	U1601	U1602	U1603	U1604	U1605	U1606	U1607	U1608	U1609	U1610	U1611	U1612	U1613	U1614	U1615	U1616	U1617	U1618	U1619	U1620	U1621	U1622	U1623	U1624	U1625	U1626	U1627	U1628	U1629	U1630	U1631	U1632	U1633	U1634	U1635	U1636	U1637																																																																																																																																																										
U965	U970	A973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097	U1098	U1099	U1100	U1101	U1102	U1103	U1104	U1105	U1106	U1107	U1108	U1109	U1110	U1111	U1112	U1113	U1114	U1115	U1116	U1117	U1118	U1119	U1120	U1121	U1122	U1123	U1124	U1125	U1126	U1127	U1128	U1129	U1130	U1131	U1132	U1133	U1134	U1135	U1136	U1137	U1138	U1139	U1140	U1141	U1142	U1143	U1144	U1145	U1146	U1147	U1148	U1149	U1150	U1151	U1152	U1153	U1154	U1155	U1156	U1157	U1158	U1159	U1160	U1161	U1162	U1163	U1164	U1165	U1166	U1167	U1168	U1169	U1170	U1171	U1172	U1173	U1174	U1175	U1176	U1177	U1178	U1179	U1180	U1181	U1182	U1183	U1184	U1185	U1186	U1187	U1188	U1189	U1190	U1191	U1192	U1193	U1194	U1195	U1196	U1197	U1198	U1199	U1200	U1201	U1202	U1203	U1204	U1205	U1206	U1207	U1208	U1209	U1210	U1211	U1212	U1213	U1214	U1215	U1216	U1217	U1218	U1219	U1220	U1221	U1222	U1223	U1224	U1225	U1226	U1227	U1228	U1229	U1230	U1231	U1232	U1233	U1234	U1235	U1236	U1237	U1238	U1239	U1240	U1241	U1242	U1243	U1244	U1245	U1246	U1247	U1248	U1249	U1250	U1251	U1252	U1253	U1254	U1255	U1256	U1257	U1258	U1259	U1260	U1261	U1262	U1263	U1264	U1265	U1266	U1267	U1268	U1269	U1270	U1271	U1272	U1273	U1274	U1275	U1276	U1277	U1278	U1279	U1280	U1281	U1282	U1283	U1284	U1285	U1286	U1287	U1288	U1289	U1290	U1291	U1292	U1293	U1294	U1295	U1296	U1297	U1298	U1299	U1300	U1301	U1302	U1303	U1304	U1305	U1306	U1307	U1308	U1309	U1310	U1311	U1312	U1313	U1314	U1315	U1316	U1317	U1318	U1319	U1320	U1321	U1322	U1323	U1324	U1325	U1326	U1327	U1328	U1329	U1330	U1331	U1332	U1333	U1334	U1335	U1336	U1337	U1338	U1339	U1340	U1341	U1342	U1343	U1344	U1345	U1346	U1347	U1348	U1349	U1350	U1351	U1352	U1353	U1354	U1355	U1356	U1357	U1358	U1359	U1360	U1361	U1362	U1363	U1364	U1365	U1366	U1367	U1368	U1369	U1370
U865	A870	A873	U874	U875	U876	U877	U878	U879	U880	U881	U882	U883	U884	U885	U886	U887	U888	U889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097	U1098	U1099	U1100	U1101	U1102	U1103	U1104	U1105	U1106	U1107	U1108	U1109	U1110	U1111	U1112	U1113	U1114	U1115	U1116	U1117	U1118	U1119	U1120	U1121	U1122	U1123	U1124	U1125	U1126	U1127	U1128	U1129	U1130	U1131	U1132	U1133	U1134	U1135	U1136	U1137	U1138	U1139	U1140	U1141	U1142	U1143	U1144	U1145	U1146	U1147	U1148	U1149	U1150	U1151	U1152	U1153	U1154	U1155	U1156	U1157	U1158	U1159	U1160	U1161	U1162	U1163	U1164	U1165	U1166	U1167	U1168	U1169	U1170	U1171	U1172	U1173	U1174	U1175	U1176	U1177	U1178	U1179	U1180	U1181	U1182	U1183	U1184	U1185	U1186	U1187	U1188	U1189	U1190	U1191	U1192	U1193	U1194	U1195	U1196	U1197	U1198	U1199	U1200	U1201	U1202	U1203	U1204	U1205	U1206	U1207	U1208	U1209	U1210	U1211	U1212	U1213	U1214	U1215	U1216	U1217	U1218	U1219	U1220	U1221	U1222	U1223	U1224	U1225	U1226	U1227	U1228	U1229	U1230</																																								



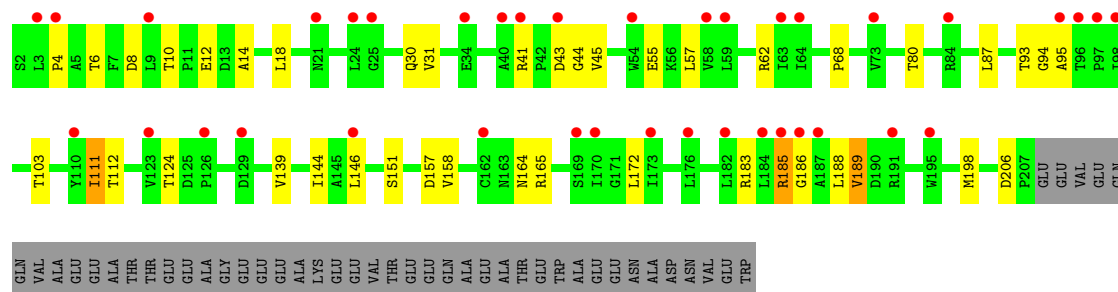
• Molecule 2: 40S ribosomal protein S0-A

Chain S0:



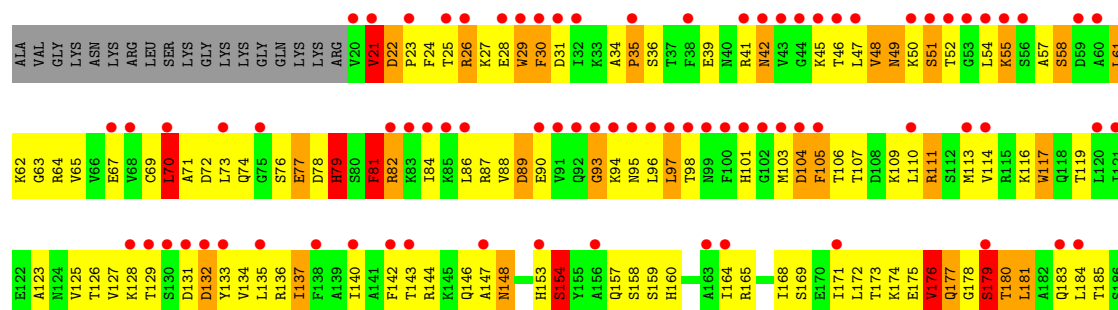
• Molecule 2: 40S ribosomal protein S0-A

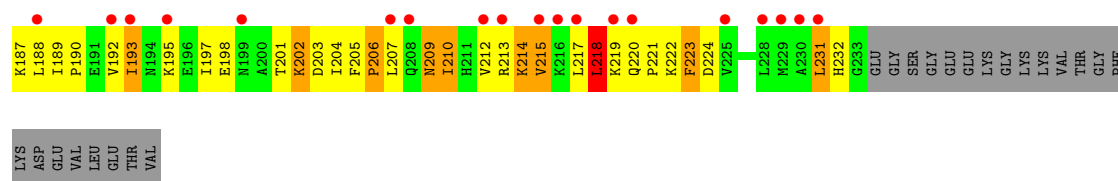
Chain s0:



• Molecule 3: 40S ribosomal protein S1-A

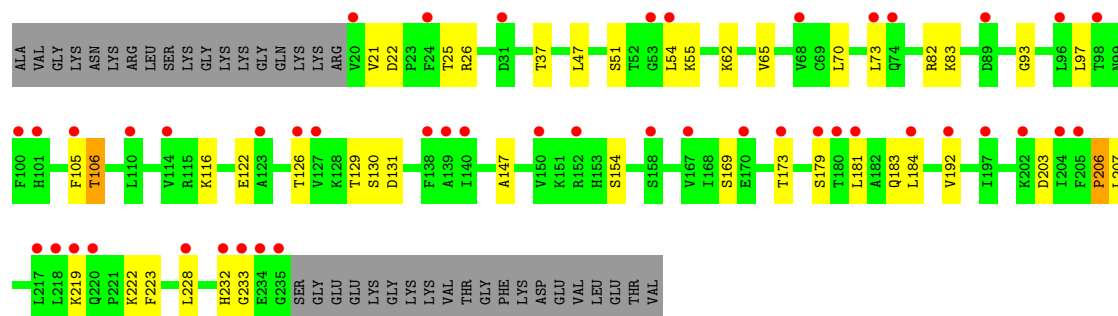
Chain S1:





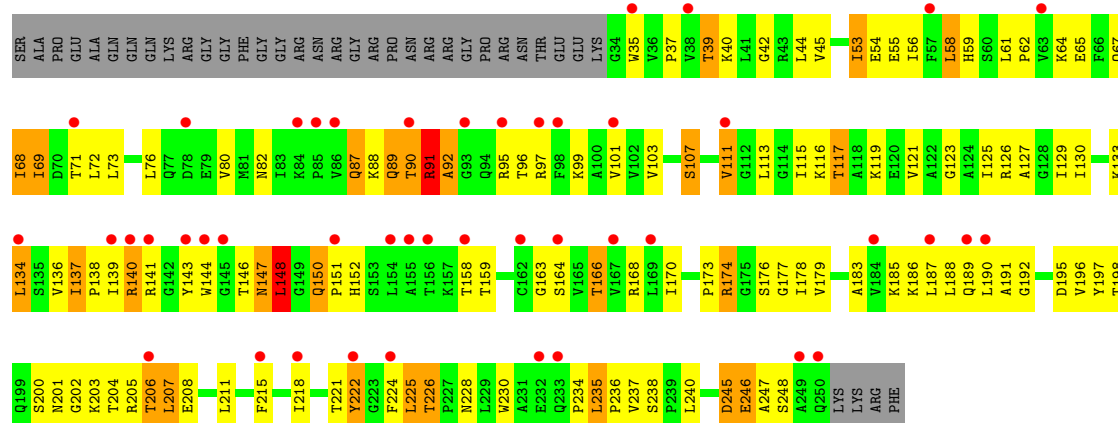
• Molecule 3: 40S ribosomal protein S1-A

Chain s1:



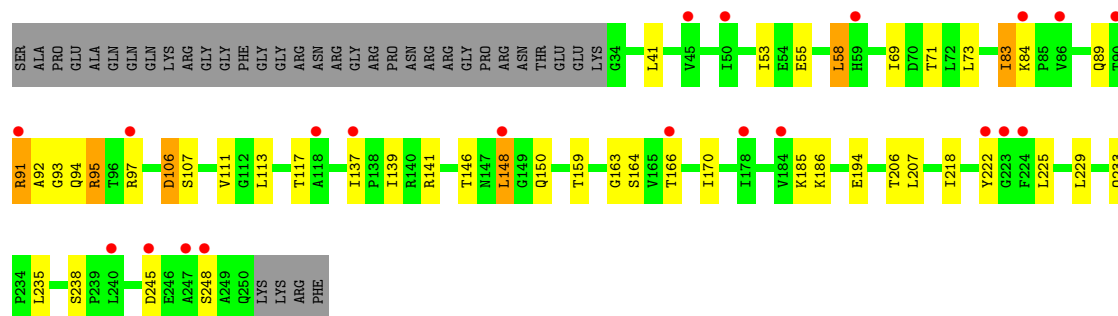
• Molecule 4: 40S ribosomal protein S2

Chain S2:

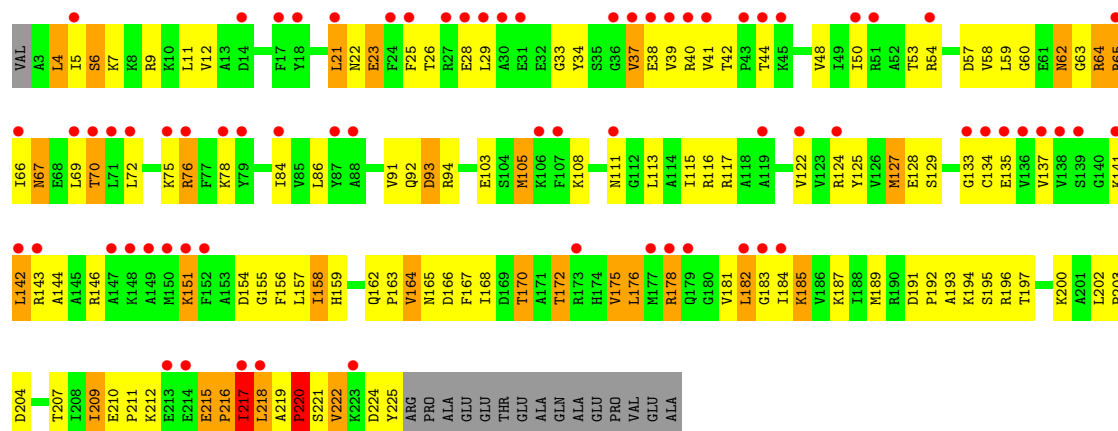


• Molecule 4: 40S ribosomal protein S2

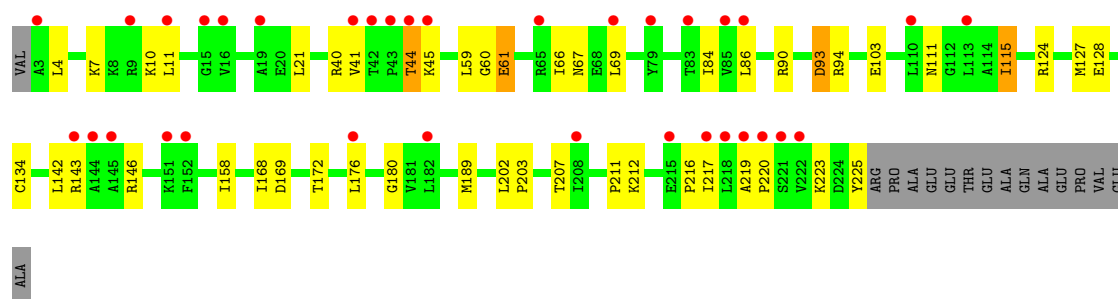
Chain s2:



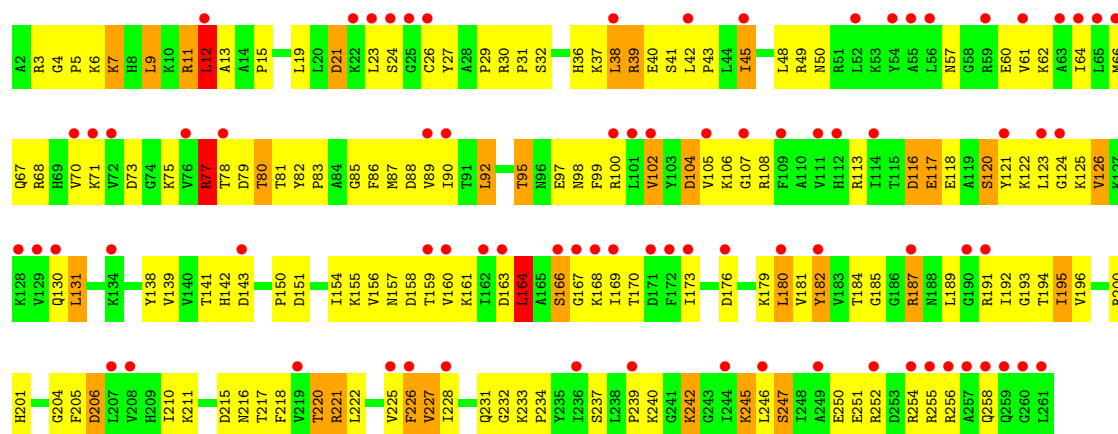
• Molecule 5: 40S ribosomal protein S3

Chain S3: 

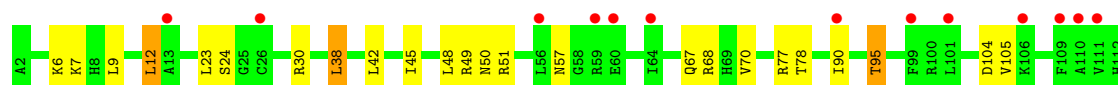
- Molecule 5: 40S ribosomal protein S3

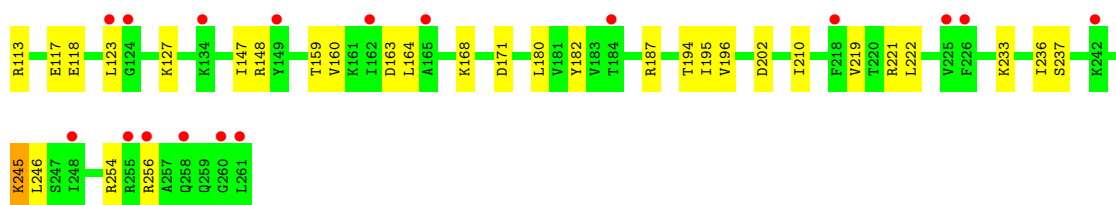
Chain s3: 

- Molecule 6: 40S ribosomal protein S4-A

Chain S4: 

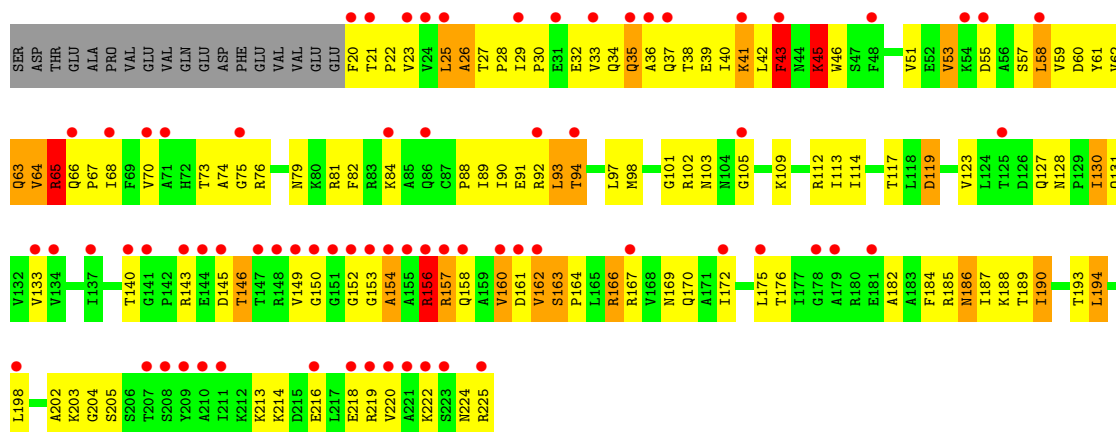
- Molecule 6: 40S ribosomal protein S4-A

Chain s4: 



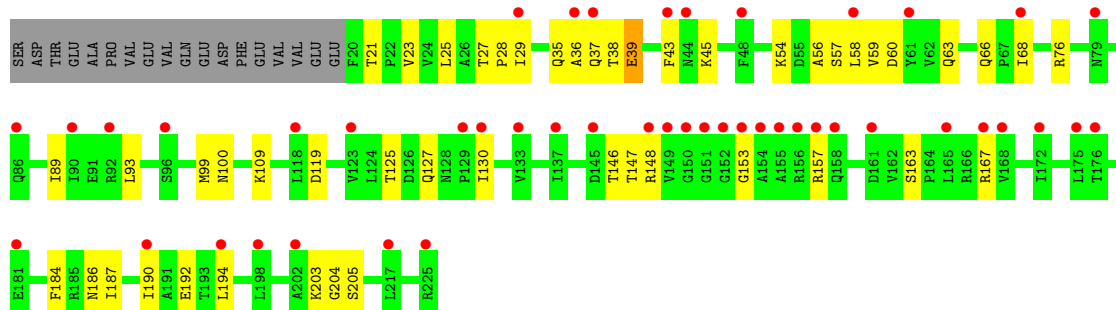
• Molecule 7: 40S ribosomal protein S5

Chain S5:



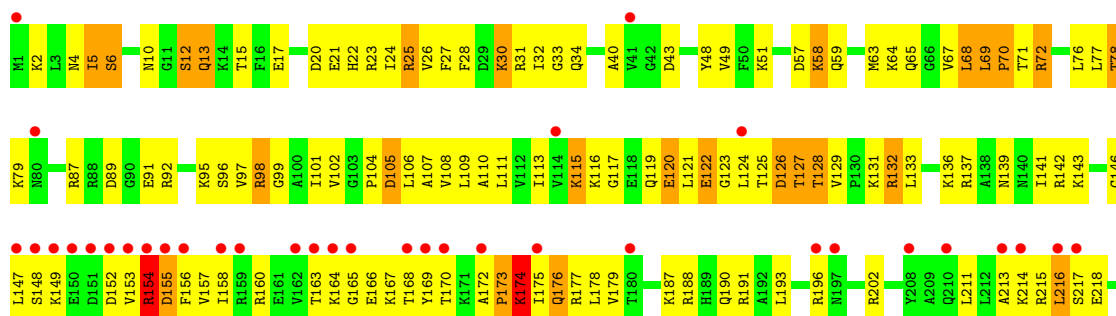
• Molecule 7: 40S ribosomal protein S5

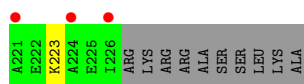
Chain s5:



• Molecule 8: 40S ribosomal protein S6-A

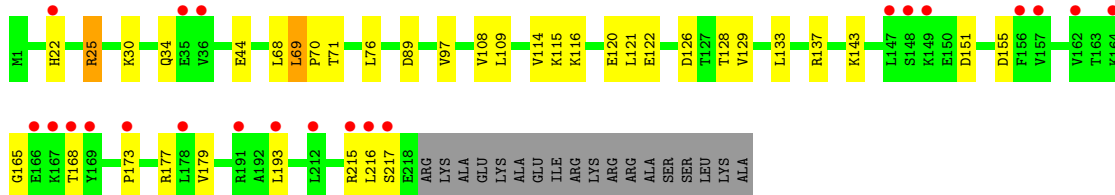
Chain S6:





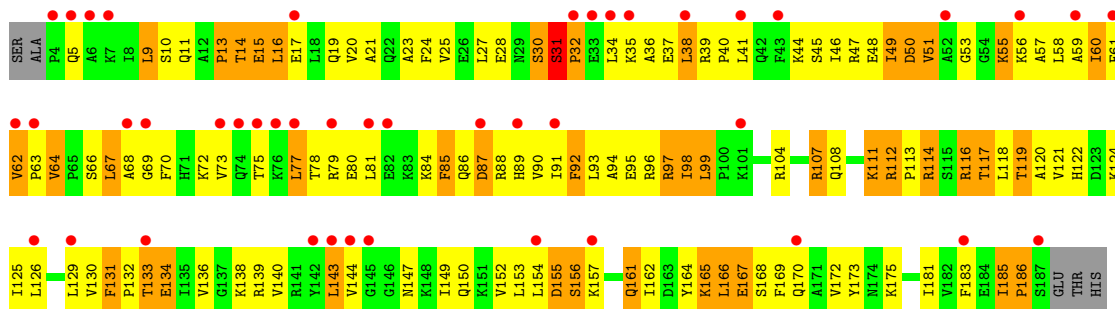
• Molecule 8: 40S ribosomal protein S6-A

Chain s6:



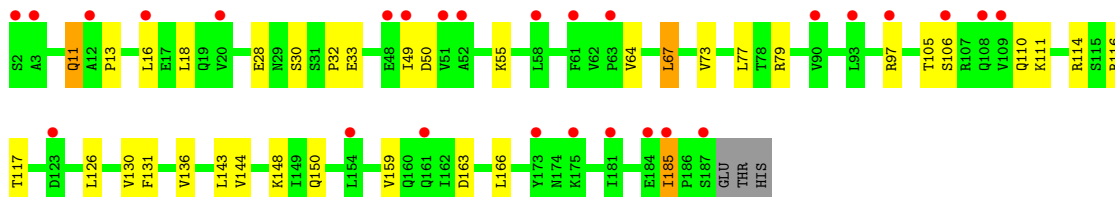
• Molecule 9: 40S ribosomal protein S7-A

Chain S7:



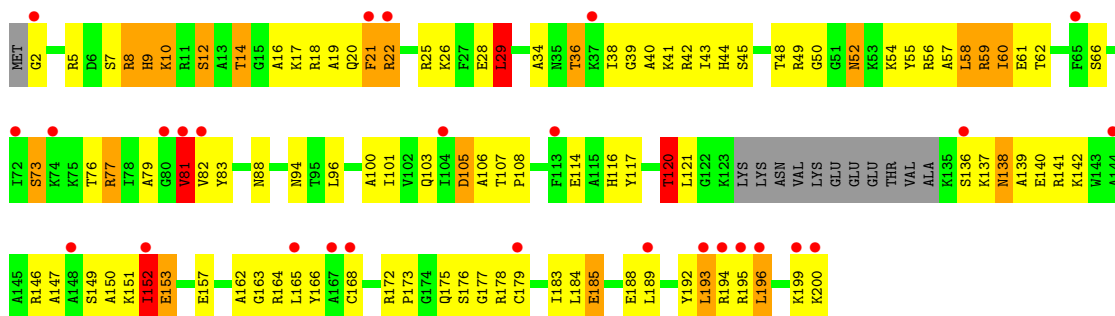
• Molecule 9: 40S ribosomal protein S7-A

Chain s7:



• Molecule 10: 40S ribosomal protein S8-A

Chain S8:



• Molecule 10: 40S ribosomal protein S8-A

Model	Performance (approx.)
ASN	0.85
VAL	0.85
LYS	0.85
GLU	0.85
GLU	0.85
THR	0.85
VAL	0.85
K135	0.85
K136	0.85
K137	0.85
K138	0.85
W143	0.85
A144	0.85
A145	0.85
S149	0.85
A150	0.85
K151	0.85
I152	0.85
E153	0.85
S154	0.85
S155	0.85
L165	0.85
I169	0.85
S176	0.85
C179	0.85
I183	0.85
L184	0.85
K199	0.85
K200	0.85

Chain S9:

Year	Publications
1970	10
1971	10
1972	10
1973	10
1974	10
1975	10
1976	10
1977	10
1978	10
1979	10
1980	10
1981	10
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2019	10
2020	10
2021	10
2022	10
2023	10
2024	10
2025	10
2026	10
2027	10
2028	10
2029	10
2030	10
2031	10
2032	10

[illegible]

Chain s9: 

Category	Count
P2	1
R3	1
A4	1
P5	1
R6	1
T7	1
E20	1
S21	1
L28	1
E33	1
F34	1
K37	1
N38	1
K39	1
L49	1
S50	1
R54	1
L59	1
R62	1
L76	1
I77	1
R78	1
R79	1
L80	1
V81	1
R82	1
V85	1
L86	1
D89	1
K90	1
K91	1
K92	1
L93	1
D94	1
V95	1
V96	1
L97	1
V101	1
F104	1
L105	1
L109	1
Q110	1
T111	1
K115	1
T116	1

Cluster	Number of Genes
G117	10
S121	10
R126	10
T130	10
H133	10
I134	10
I140	10
F146	10
M147	10
R148	10
V149	10
S162	10
A167	10
R168	10
V172	10
K180	10
A181	10
E182	10
A183	10
S184	10
G185	10
E186	10
A18A	10
A18B	10
ASP	10
GLU	10
A18A	10
ASP	10
A18A	10
ASP	10
ASP	10
GLU	10
GLU	10
ASP	10
ASP	10
GLU	10
GLU	10

Chain C0:

Letter	Occurrences
M1	1
M2	1
M3	1
M4	1
M5	1
M6	1
M7	1
M8	1
M9	1
M10	1
M11	1
M12	1
M13	1
M14	1
M15	1
M16	1
M17	1
M18	1
M19	1
M20	1
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M97	1
M98	1
M99	1
M100	1

Category	Count
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Y64	10
Y65	10
Y66	10
Y67	10
Y68	10
Y69	10
E70	10
Y73	10
L76	10
Y77	10
Y78	10
Y79	10
L80	10
N81	10
L82	10
P83	10
E84	10
H85	10
L86	10
Y87	10
P88	10
A89	10
Y92	10
Q93	10
Y96	10
PRO	10
THR	10
GLN	10
ARG	10
ARG	10
PRO	10
GLN	10
ARG	10
ARG	10
TYR	10

Chain c0:

The chart displays 100 categories (H1 to P88) on the x-axis. The bars are colored in a repeating pattern of green, yellow, and orange. Red dots are placed above certain bars, indicating specific data points or anomalies. The chart is divided into four main groups of 25 categories each.

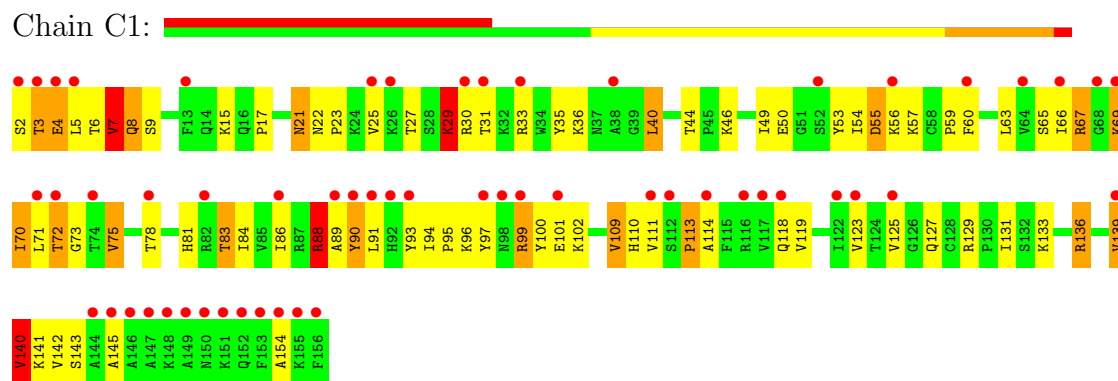
Category	Color	Red Dot
H1	Green	No
L2	Green	No
K3	Green	No
J9	Green	No
K10	Green	Yes
I11	Green	No
H12	Green	No
L15	Green	No
V20	Green	Yes
V21	Green	No
V22	Green	No
A23	Green	No
K24	Green	No
K25	Green	No
D26	Green	No
F27	Green	Yes
A30	Green	No
I35	Green	No
B36	Green	Yes
T37	Green	Yes
I43	Green	No
K44	Green	No
A45	Green	No
L46	Green	Yes
V55	Green	No
K56	Green	No
T57	Green	No
B61	Green	Yes
V64	Green	No
V65	Green	No
V66	Green	No
T67	Green	No
E70	Green	Yes
E71	Green	No
Y79	Green	Yes
L82	Yellow	No
P83	Yellow	No
E84	Yellow	No
HIS	Yellow	No
ILE	Yellow	No
V87	Yellow	No
P88	Yellow	No
I92	Orange	Yes
K93	Orange	Yes
Q94	Orange	Yes
P95	Orange	Yes
N96	Orange	Yes

● ●

P97		
T98		
GLN		
ARG		
PRO		
GLN		
ARG		
ARG		
TYR		

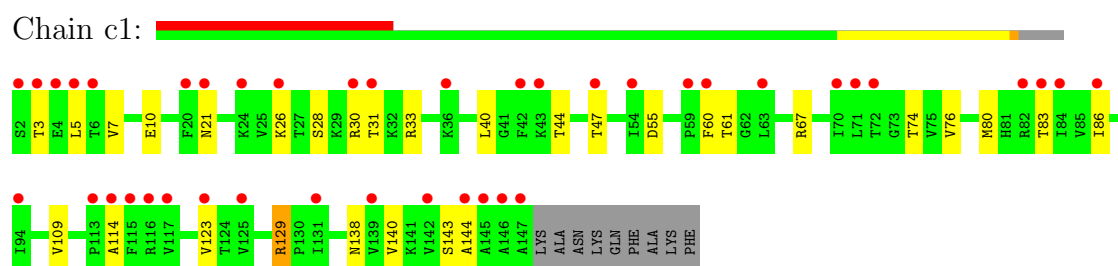
- Molecule 13: 40S ribosomal protein S11-A

Chain C1:



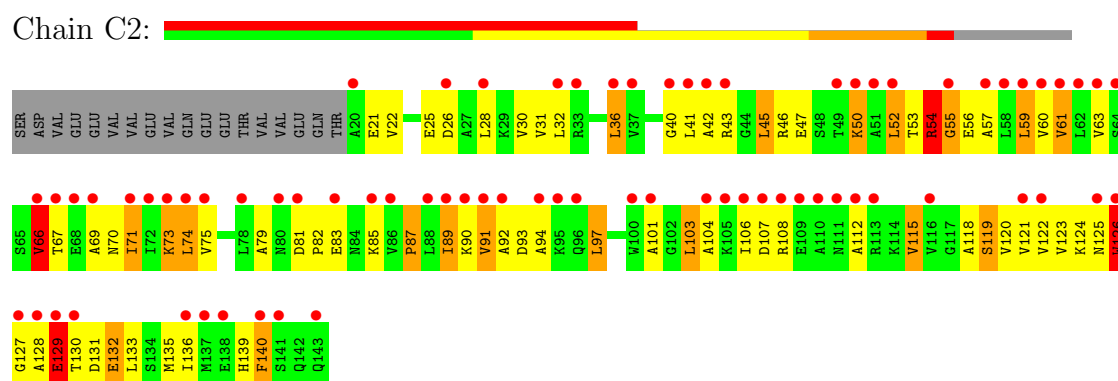
- Molecule 13: 40S ribosomal protein S11-A

Chain c1:



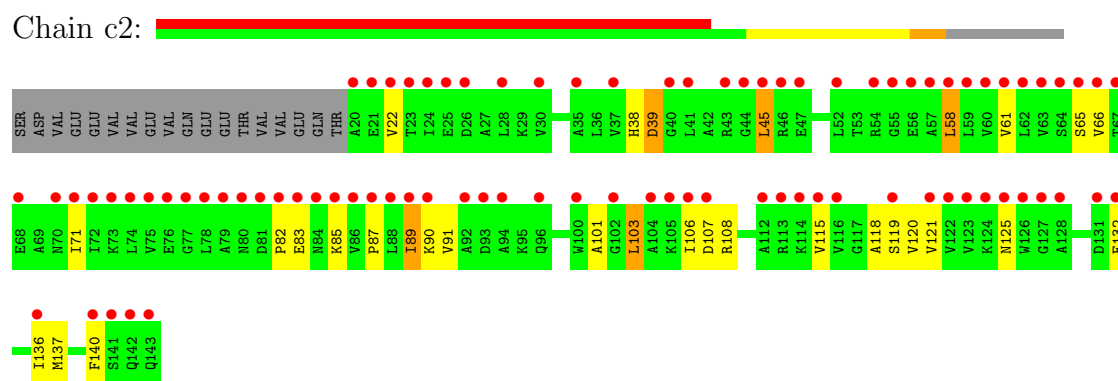
- Molecule 14: 40S ribosomal protein S12

Chain C2:



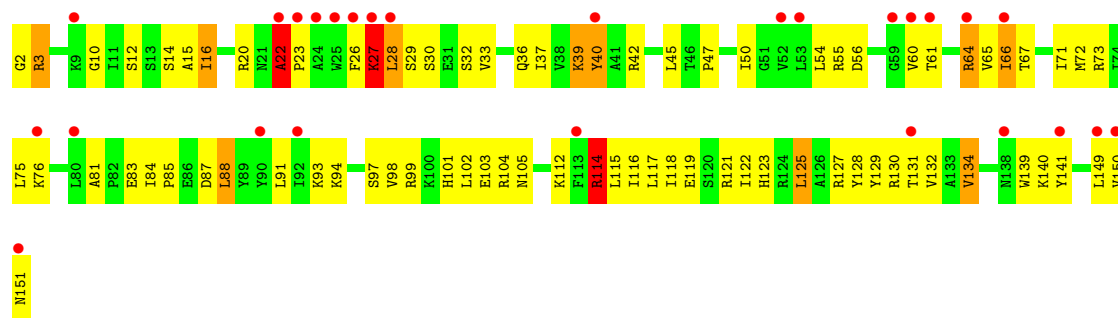
- Molecule 14: 40S ribosomal protein S12

Chain c2:



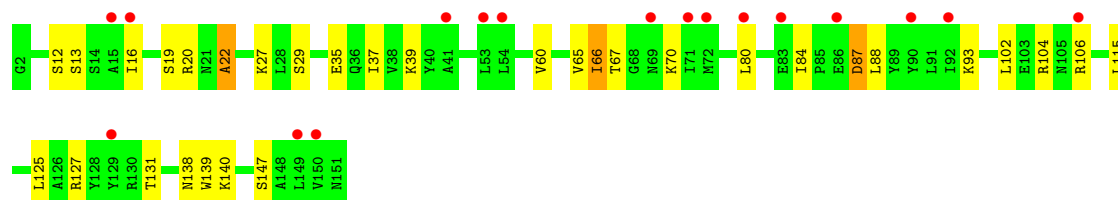
- Molecule 15: 40S ribosomal protein S13

Chain C3:



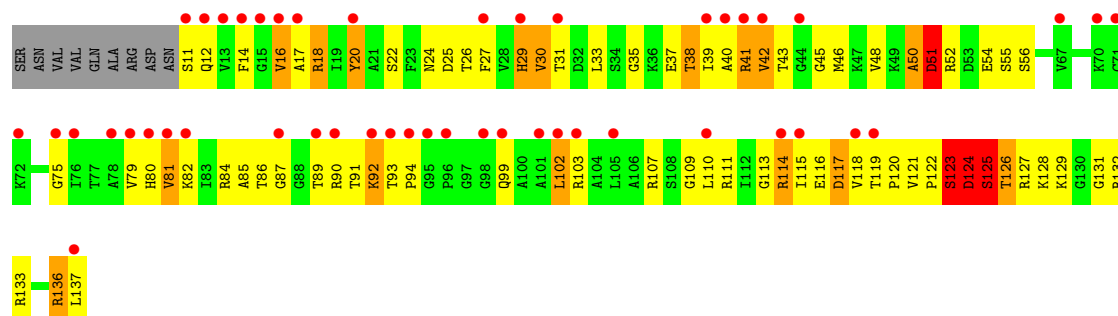
- Molecule 15: 40S ribosomal protein S13

Chain c3:



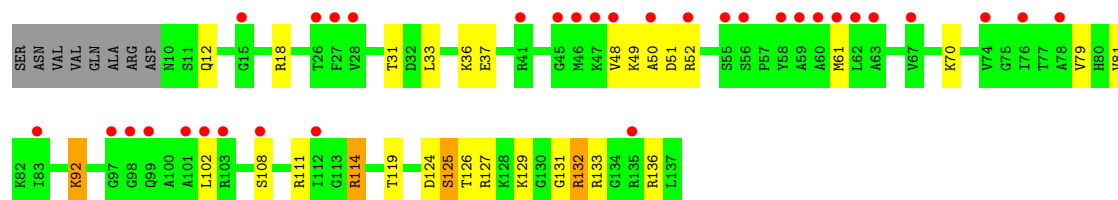
- Molecule 16: 40S ribosomal protein S14-A

Chain C4:



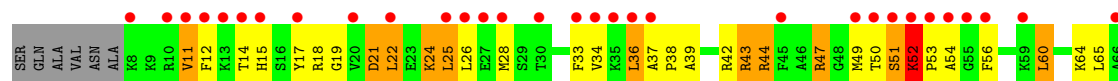
- Molecule 16: 40S ribosomal protein S14-A

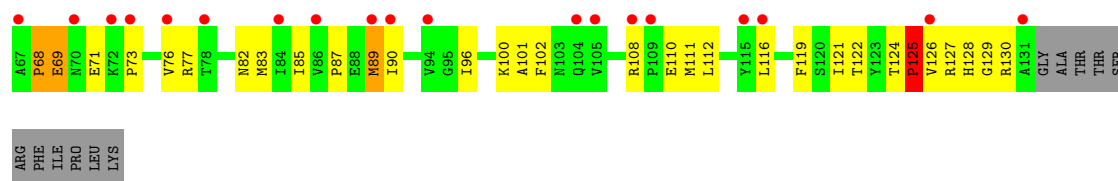
Chain c4:



- Molecule 17: 40S ribosomal protein S15

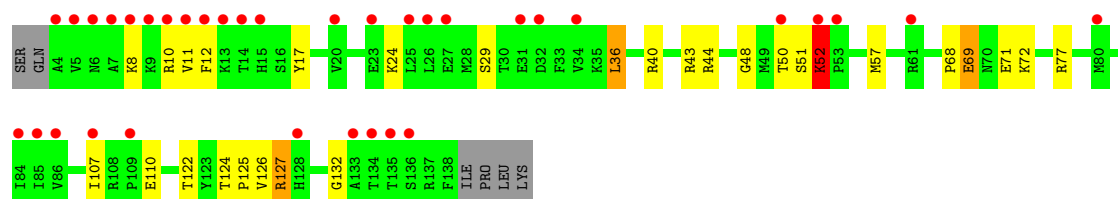
Chain C5:





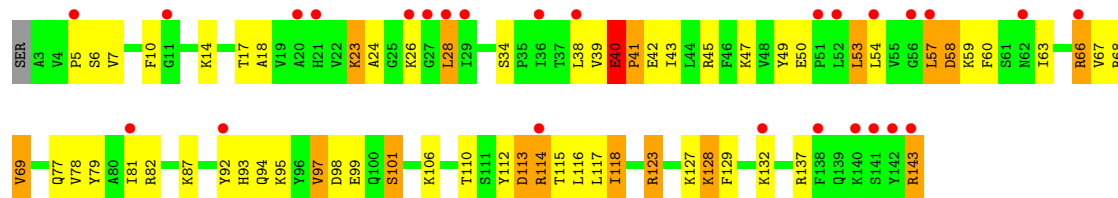
- Molecule 17: 40S ribosomal protein S15

Chain c5:



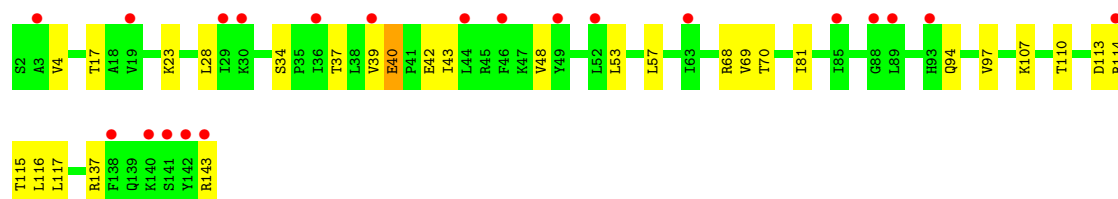
- Molecule 18: 40S ribosomal protein S16-A

Chain C6:



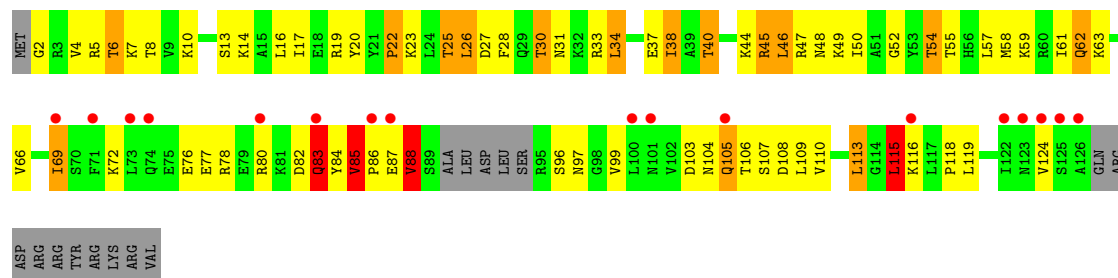
- Molecule 18: 40S ribosomal protein S16-A

Chain c6:



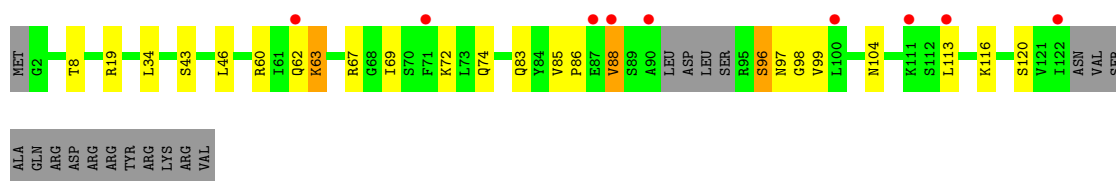
- Molecule 19: 40S ribosomal protein S17-A

Chain C7:



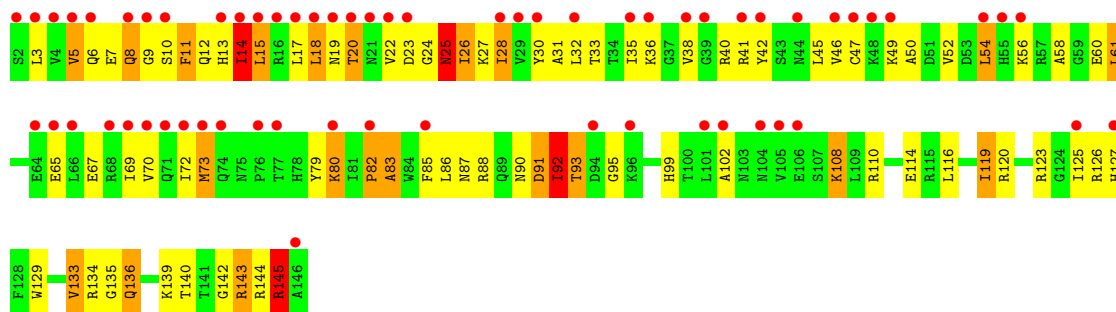
- Molecule 19: 40S ribosomal protein S17-A

Chain c7:



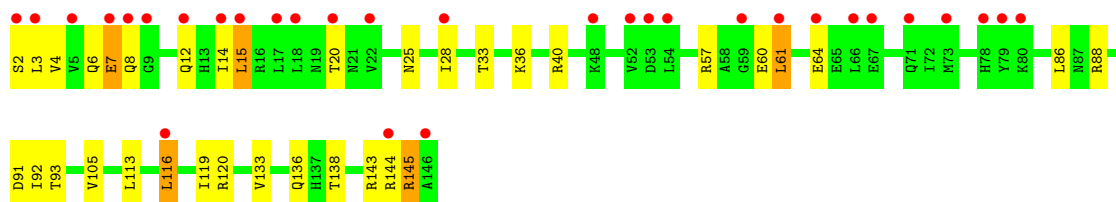
- Molecule 20: 40S ribosomal protein S18-A

Chain C8:



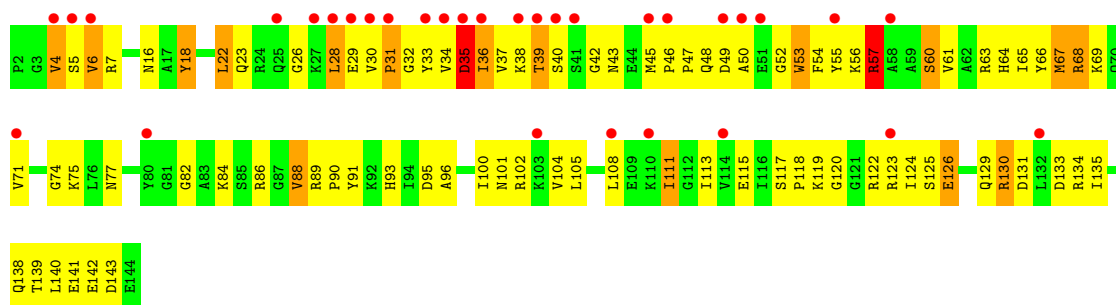
- Molecule 20: 40S ribosomal protein S18-A

Chain c8:



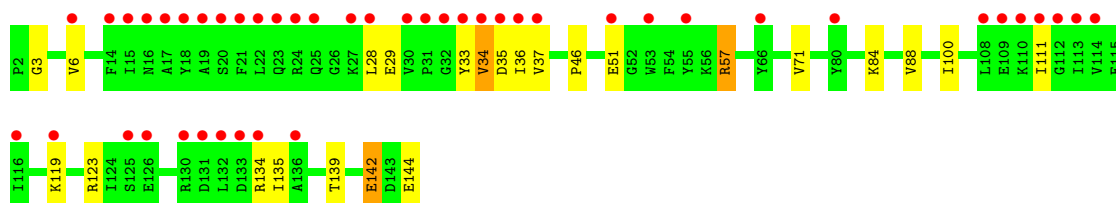
- Molecule 21: 40S ribosomal protein S19-A

Chain C9:



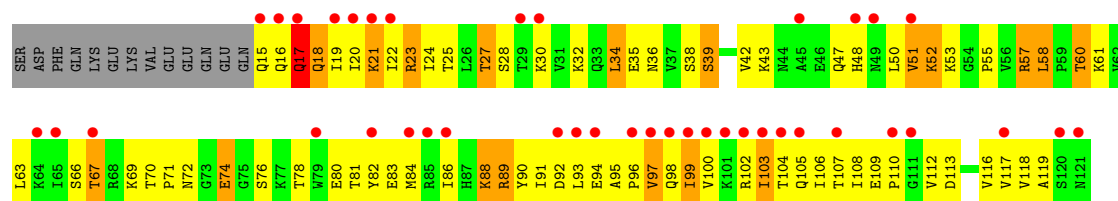
- Molecule 21: 40S ribosomal protein S19-A

Chain c9:



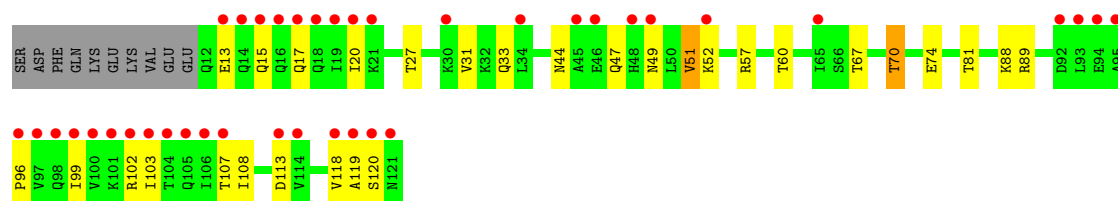
- Molecule 22: 40S ribosomal protein S20

Chain D0:



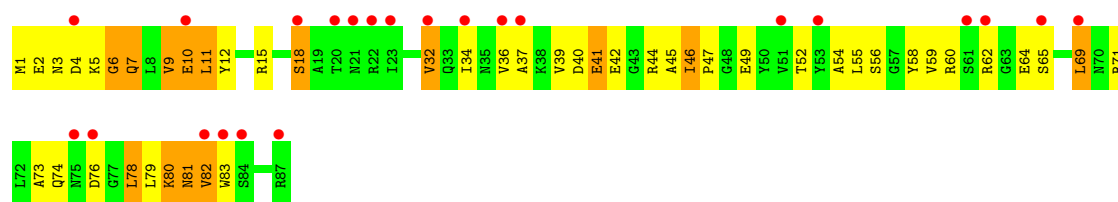
- Molecule 22: 40S ribosomal protein S20

Chain d0:



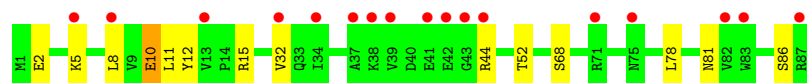
- Molecule 23: 40S ribosomal protein S21-A

Chain D1:



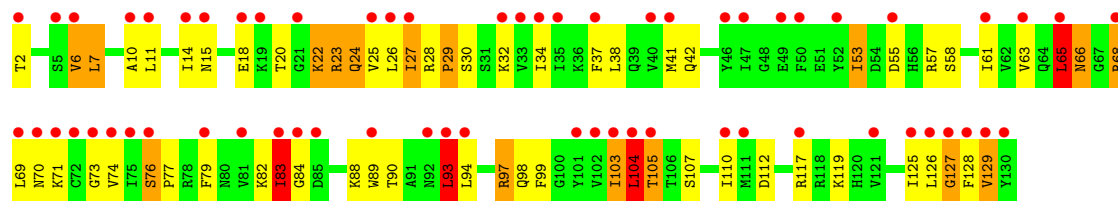
- Molecule 23: 40S ribosomal protein S21-A

Chain d1:



- Molecule 24: 40S ribosomal protein S22-A

Chain D2:

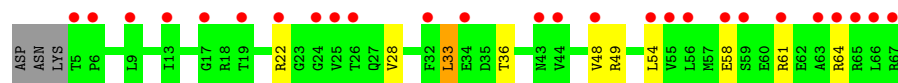


- Molecule 24: 40S ribosomal protein S22-A

Chain d2:

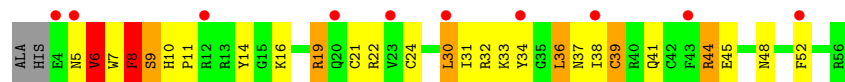


Chain d8:



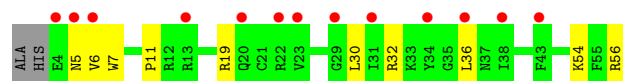
- Molecule 31: 40S ribosomal protein S29-A

Chain D9:



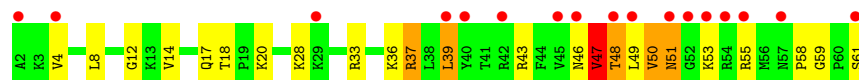
- Molecule 31: 40S ribosomal protein S29-A

Chain d9:



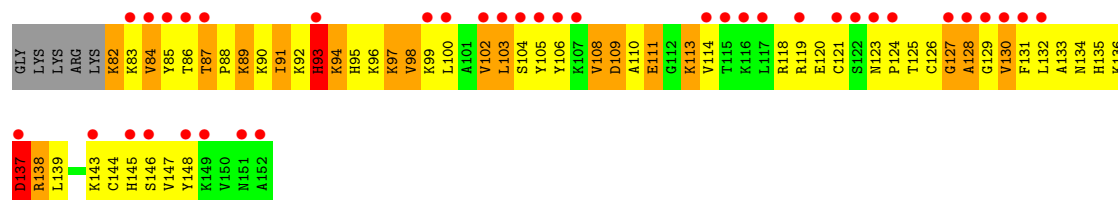
- Molecule 32: 40S ribosomal protein S30-A

Chain E0:



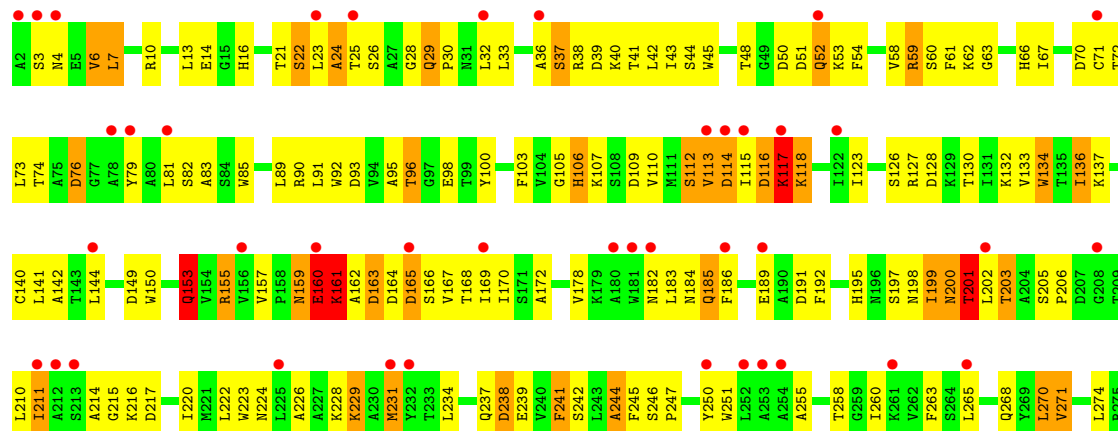
- Molecule 33: Ubiquitin-40S ribosomal protein S31

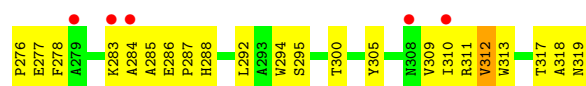
Chain E1:



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

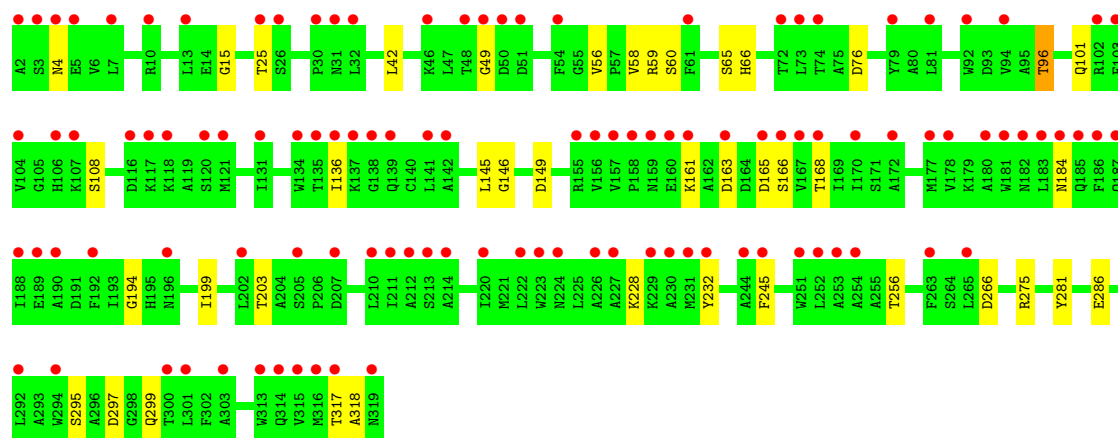
Chain SR:





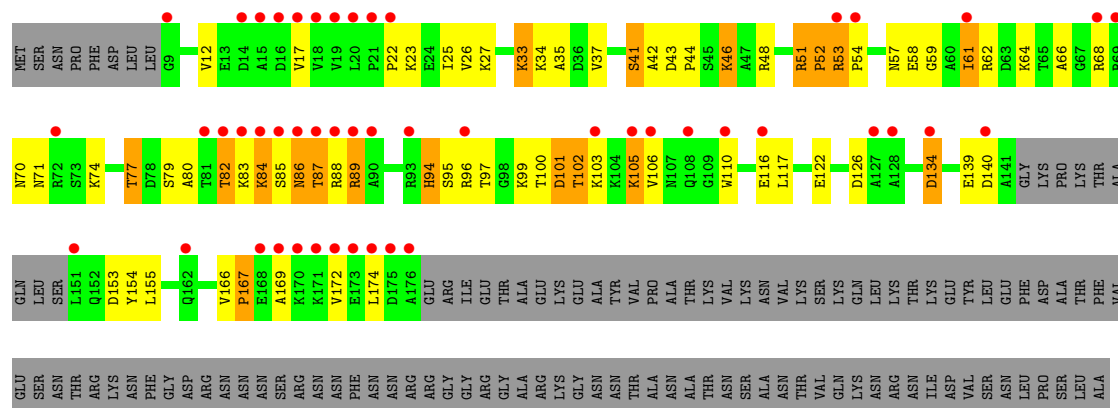
- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

Chain sR:



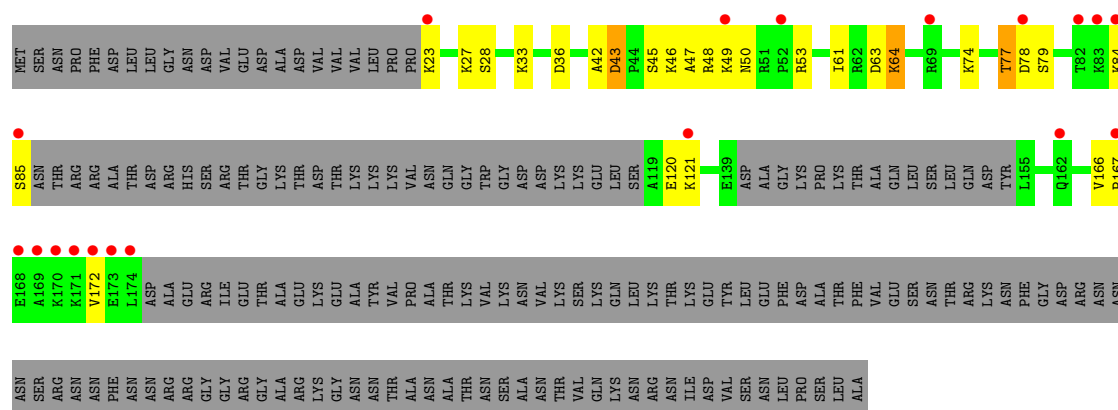
- Molecule 35: Suppressor protein STM1

Chain SM:



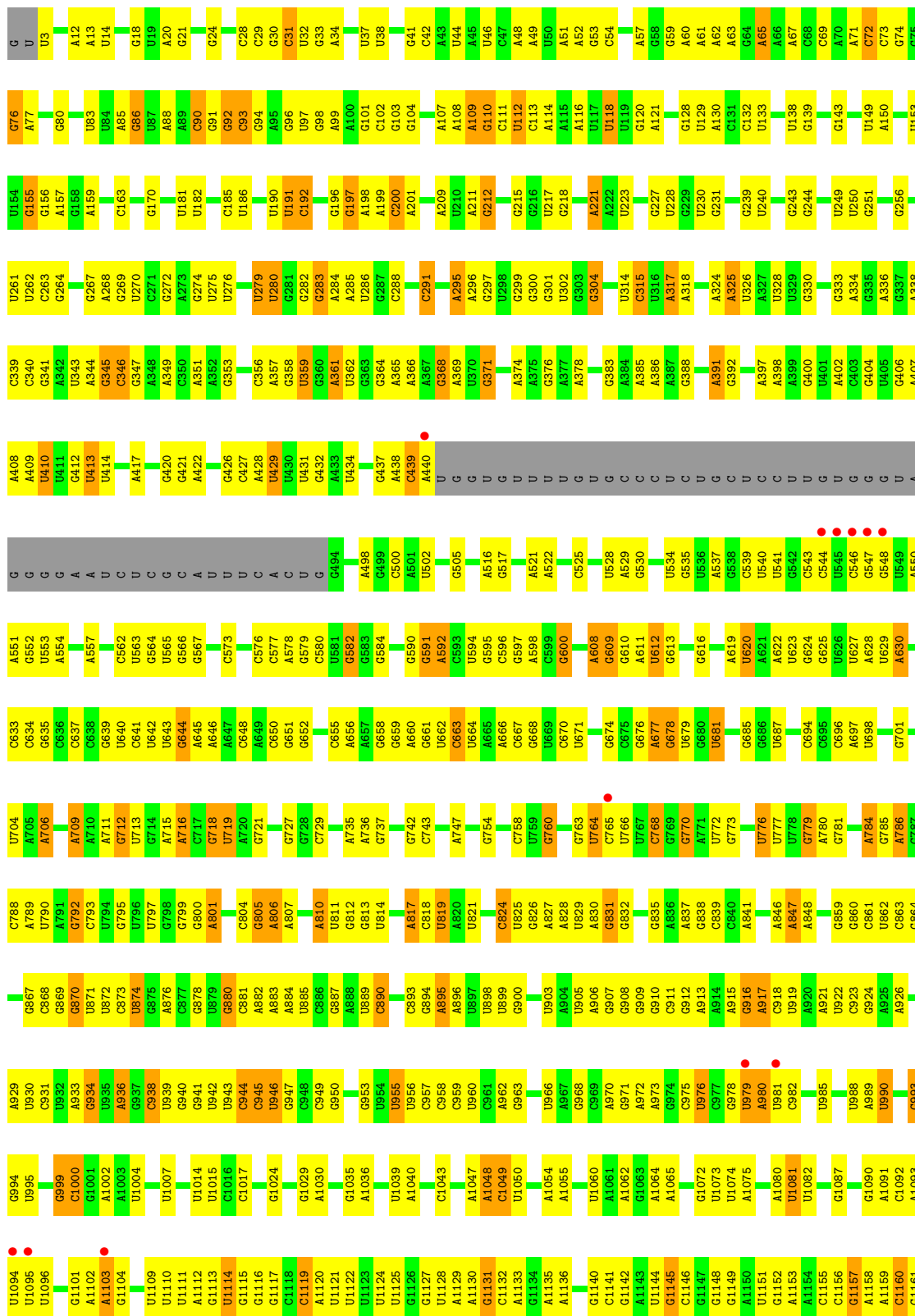
- Molecule 35: Suppressor protein STM1

Chain sM:



● Molecule 36: *Saccharomyces cerevisiae* chromosome XII cosmid 9634

Chain 1: 





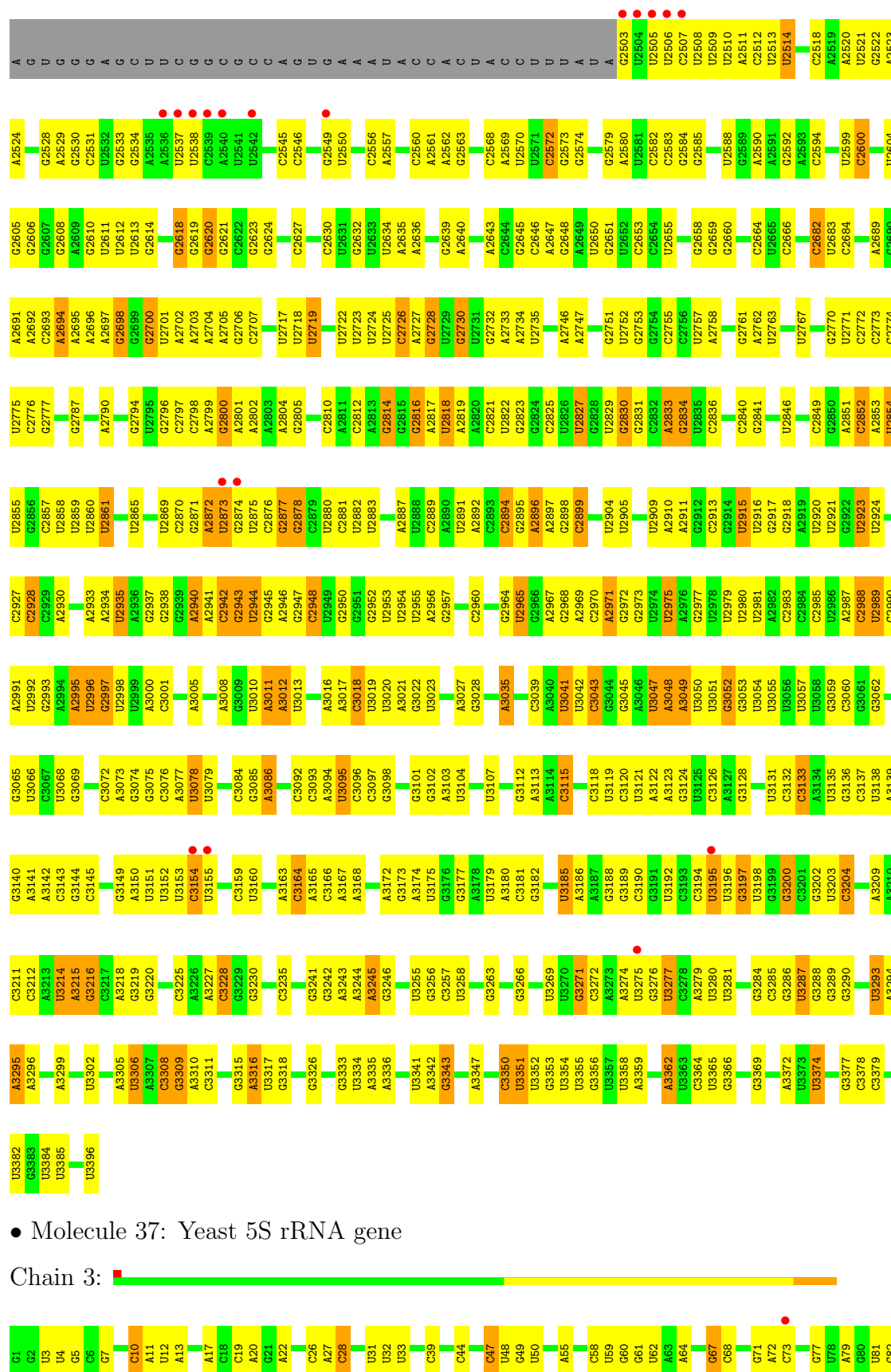
WORLD WIDE
PDB
PROTEIN DATA BANK



WORLD WIDE
PDB
PROTEIN DATA BANK

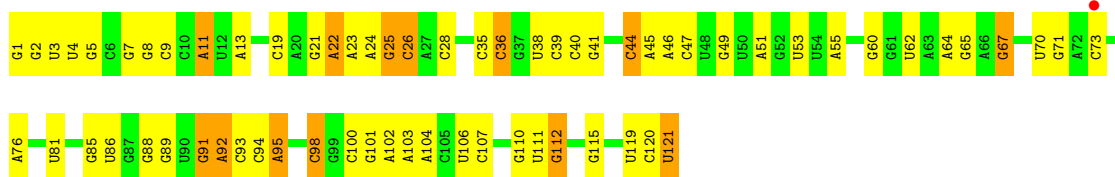
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U1192	U1123	A1048	G978	A907	A816	G721	C577	G	G421	A349	A253	A160	U84	U
U1123	U1124	C1049	U979	G908	A817	G726	A578	C	A422	C350	A254	U167	U85	U3
U1124	U1125	A1126	U980	G909	C818	G727	C580	A	A423	A351	A255	U168	U86	U3
U1125	U1126	U1051	U981	G910	C819	G728	C581	U	A424	A352	G256	U169	C90	C7
U1126	U1127	A1052	U982	G911	C820	G729	C582	U	G425	A353	U257	G170	G91	A12
U1127	U1128	A1053	U983	G912	U825	U731	G584	U	G426	A354	U258	G171	G92	A13
U1128	U1129	U1054	U984	A913	U826	C732	C585	C	C427	A355	U259	C174	G93	U14
U1129	U1130	U1055	U985	A914	A830	C733	C586	A	A428	A356	U260	U175	G94	C15
U1130	U1131	A1056	U986	A915	A831	C734	C587	U	U429	A357	U261	U176	A95	G18
U1131	U1132	U1057	U987	A916	C835	A736	G588	U	U430	A358	U262	G177	G96	U19
U1132	U1133	U1058	U988	G916	G836	G737	G589	C	U431	A359	U263	U178	A97	A20
U1133	U1134	G1059	U989	A917	A837	A738	A590	C491	U432	A360	U264	U179	G98	U18
U1134	U1135	A1060	U990	G918	A838	A739	A591	U	U433	A361	U265	U180	A99	G21
U1135	U1136	U1061	U991	A919	G839	G740	A592	C	U434	A362	U266	U181	A100	A20
U1136	U1137	A1062	U992	A920	C840	U741	C593	A	C435	A363	U267	U182	G101	G22
U1137	U1138	U1063	U993	A921	C841	G742	C594	U	A436	A364	U268	U183	G102	A23
U1138	U1139	A1064	U994	A922	C842	G743	C595	U	G437	A365	U269	U184	G103	G24
U1139	U1140	U1065	U995	U922	C843	G744	C596	U	U438	A366	U270	U185	G104	U25
U1140	U1141	A1066	U996	C923	A847	A745	A597	U	C439	A367	U271	U186	G105	A26
U1141	U1142	U1067	U997	G924	A848	U746	A598	C	A440	A368	U272	U187	A107	C29
U1142	U1143	U1068	U998	A925	C849	U747	C599	U	U441	A369	U273	U188	G110	G30
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U1144	U1145	U1070	U1000	C927	U851	C749	G601	U	U443	A371	U275	U190	U112	U32
U1145	U1146	U1071	C1000	C928	U852	C750	G602	U	A444	A372	U276	U191	U113	G33
U1146	U1147	U1072		C929	G853	G751	G603	U	U445	A373	U277	U192	U114	A35
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U1154	U1155	U1082		C937	U861	U759	G611	U	U453	A381	U285	U200	U122	A43
U1155	U1156	U1083		C938	U862	U760	G612	U	U454	A382	U286	U201	U123	U44
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U1159	U1160	U1087		C942	U866	U764	G616	U	U458	A386	U290	U205	U127	U50
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U1173	U1174	U1101		C956	U880	U778	G630	U	U472	A400	U304	U219	U141	C69
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U1176	U1177	U1104		C959	U883	U781	G633	U	U475	A403	U307	U222	U144	C73
U1177	U1178	U1105		C960	U884	U782	G634	U	U476	A404	U308	U223	U145	G74
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U1182	U1183	U1110		C965	U889	U787	G639	U	U481	A409	U313	U228	U150	A70
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U1184	U1185	U1112		C967	U891	U789	G641	U	U483	A411	U315	U230	U152	C73
U1185	U1186	U1113		C968	U892	U790	G642	U	U484	A412	U316	U231	U153	G74
U1186	U1187	U1114		C969	U893	U791	G643	U	U485	A413	U317	U232	U154	C75
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U1188	U1189	U1116		C971	U895	U793	G645	U	U487	A415	U319	U234	U156	A77
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U1190		U1118		C973	U897	U795	G647	U	U489	A417	U321	U236	U158	
		U1119		C974	U898	U796	G648	U	U490	A418	U322	U237	U159	
		U1120		C975	U899	U797	G649	U	U491	A419	U323	U238	U160	
		U1121		C976	U900	U798	G650	U	U492	A420	U324	U239	U161	
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				C978	U902	U800	G652	U	U494	A422	U326	U241	U163	
				C979	U903	U801	G653	U	U495	A423	U327	U242	U164	
				C980	U904	U802	G654	U	U496	A424	U328	U243	U165	
				C981	U905	U803	G655	U	U497	A425	U329	U244	U166	
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				C983	U907	U805	G657	U	U499	A427	U331	U246	U168	
				C984	U908	U806	G658	U	U500	A428	U332	U247	U169	
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				C986	U910	U808	G660	U	U502	A430	U334	U249	U171	
				C987	U911	U809	G661	U	U503	A431	U335	U250	U172	
				C988	U912	U810	G662	U	U504	A432	U336	U251	U173	
				C989	U913	U811	G663	U	U505	A433	U337	U252	U174	
				C990	U914	U812	G664	U	U506	A434	U338	U253	U175	
				C991	U915	U813	G665	U	U507	A435	U339	U254	U176	
				C992	U916	U814	G666	U	U508	A436	U340	U255	U177	
				C993	U917	U815	G667	U	U509	A437	U341	U256	U178	
				C994	U918	U816	G668	U	U510	A438	U342	U257	U179	
				C995	U919	U817	G669	U	U511	A439	U343	U258	U180	
				C996	U920	U818	G670	U	U512	A440	U344	U259	U181	
				C997	U921	U819	G671	U	U513	A441	U345	U260	U182	
				C998	U922	U820	G672	U	U514	A442	U346	U261	U183	
				C999	U923	U821	G673	U	U515	A443	U347	U262	U184	
				C1000	U924	U822	G674	U	U516	A444	U348	U263	U185	
					U925	U823	G675	U	U517	A445	U349	U264	U186	

[illegible]

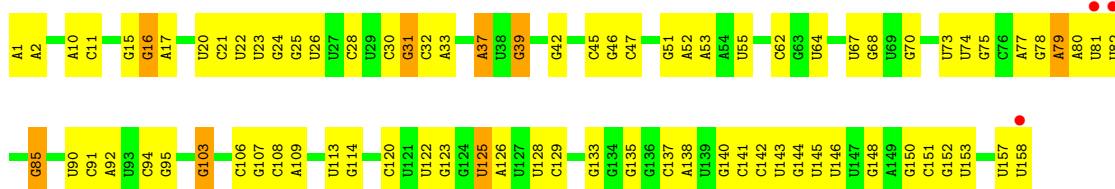




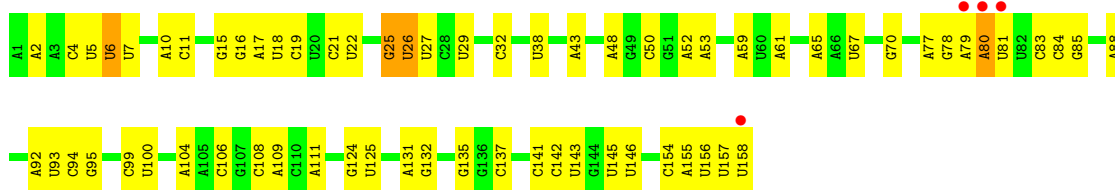
- Molecule 37: Yeast 5S rRNA gene



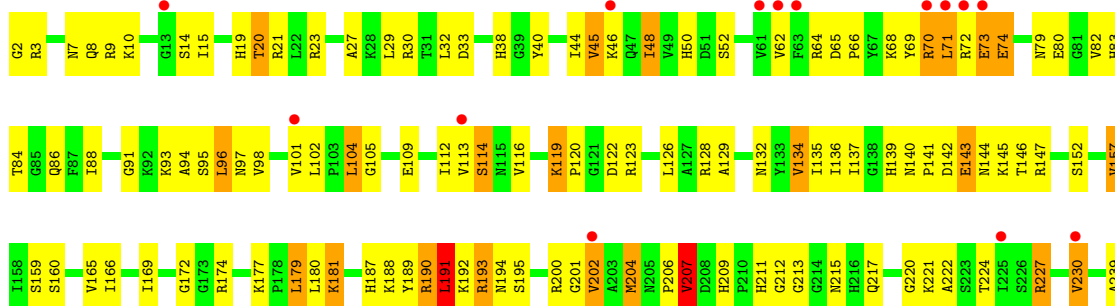
- Molecule 38: Uncultured eukaryote clone NS4T_275 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

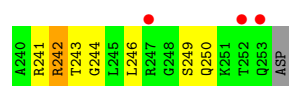


- Molecule 38: Uncultured eukaryote clone NS4T_275 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence



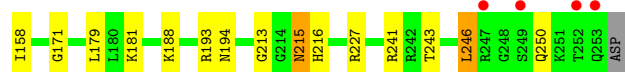
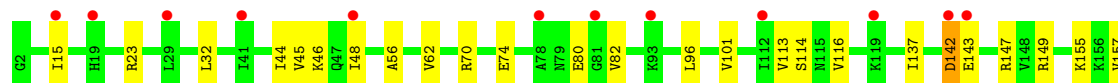
- Molecule 39: 60S ribosomal protein L2-A





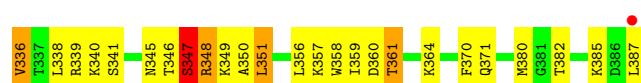
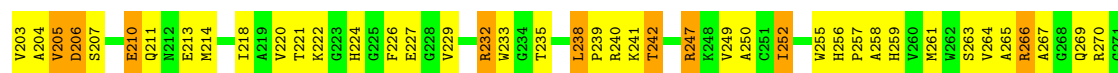
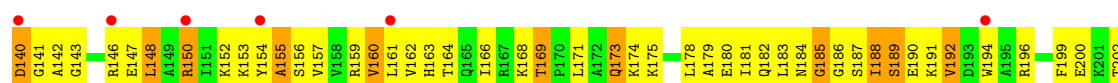
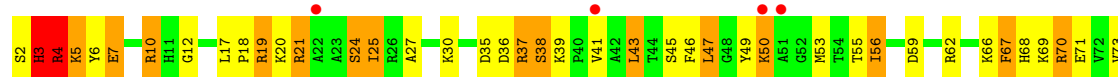
• Molecule 39: 60S ribosomal protein L2-A

Chain 12:



• Molecule 40: 60S ribosomal protein L3

Chain L3:



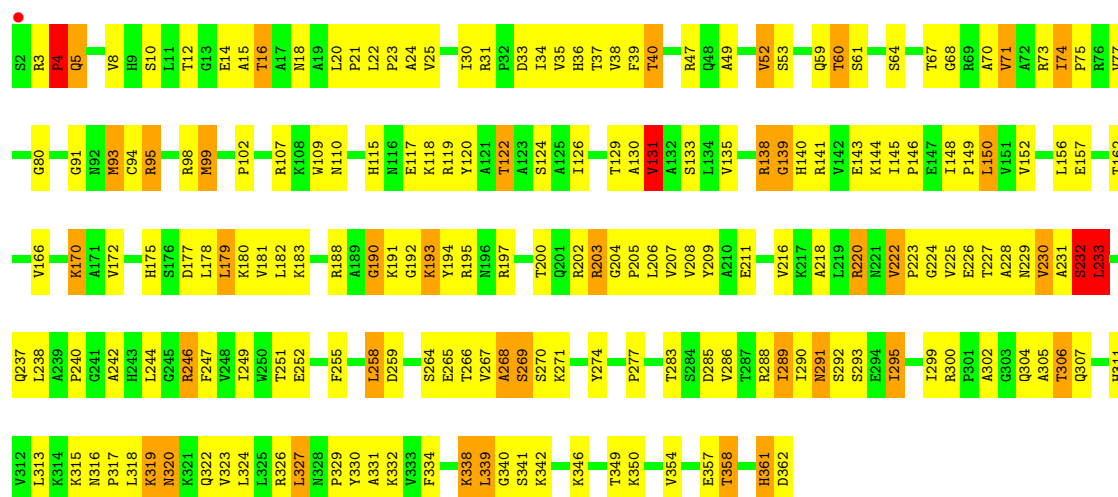
• Molecule 40: 60S ribosomal protein L3

Chain l3:



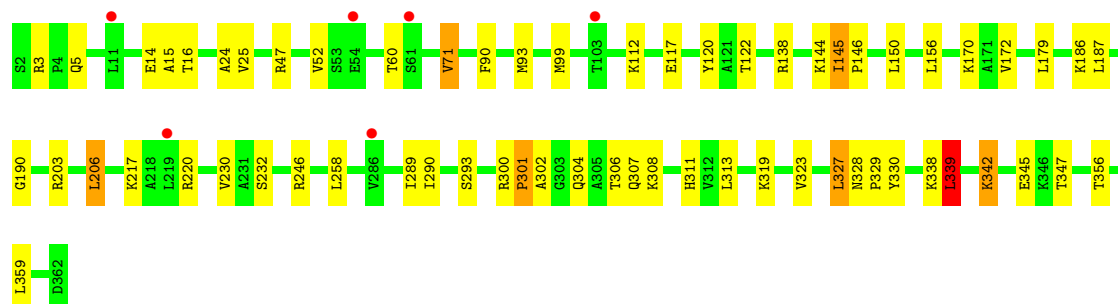
• Molecule 41: 60S ribosomal protein L4-A

Chain L4:



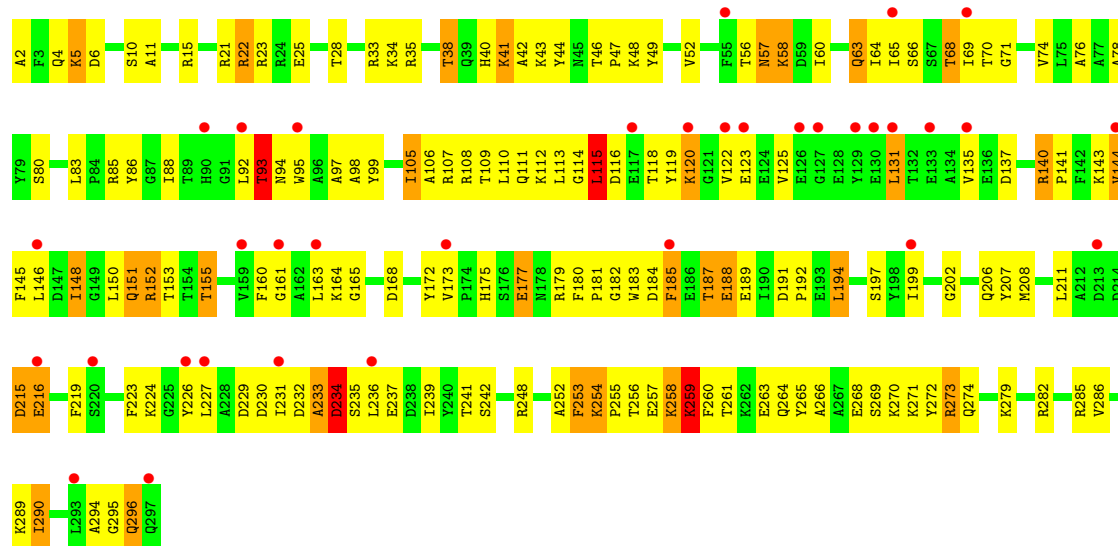
- Molecule 41: 60S ribosomal protein L4-A

Chain l4:

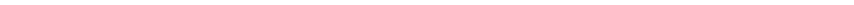


- Molecule 42: 60S ribosomal protein L5

Chain L5:



- Molecule 42: 60S ribosomal protein L5

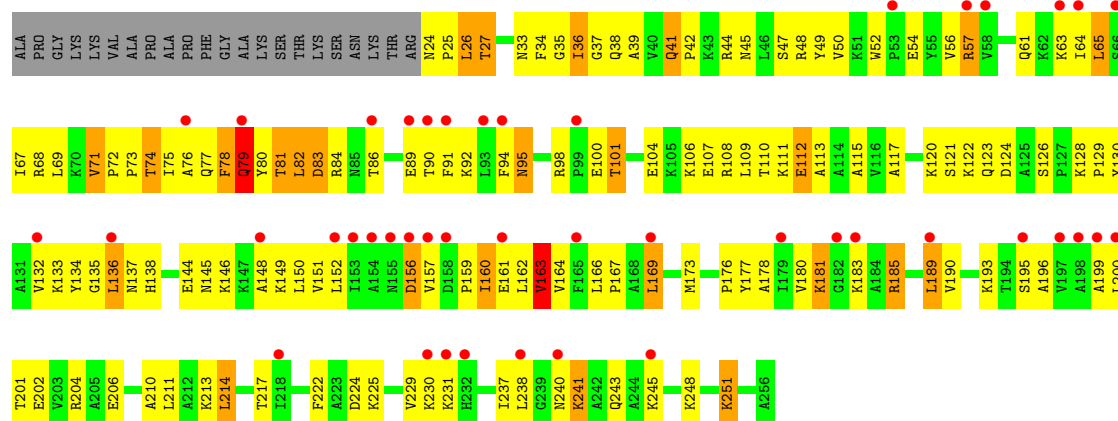
Chain 17: 

ALA	T22	R41	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
ALA	A23	R41	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
ALA	E24	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
GLU	Q25	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	V26	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
ILE	A27	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LEU	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
THR	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
PRO	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
GLU	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
SER	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
GLN	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LEU	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I156	K157	K158	Q159	L173
LVS	A28	E24	E56	V77	L83	R88	K98	P99	R100	L103	R110	L124	I130	I				



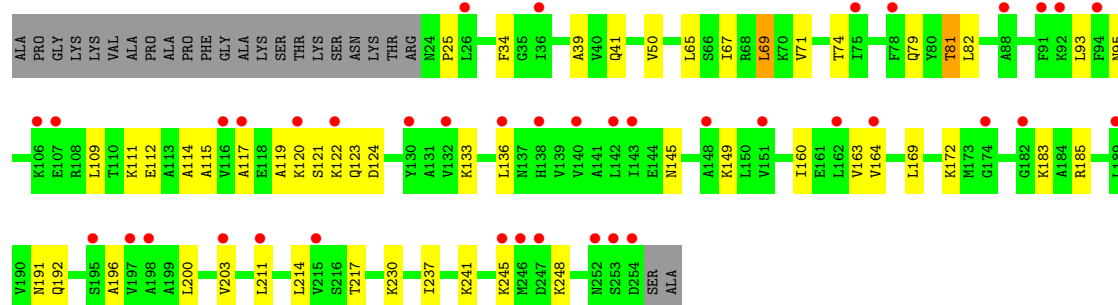
• Molecule 45: 60S ribosomal protein L8-A

Chain L8:



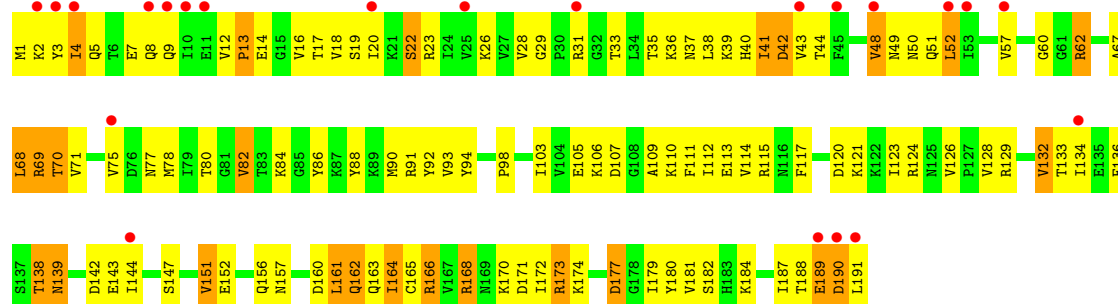
• Molecule 45: 60S ribosomal protein L8-A

Chain l8:



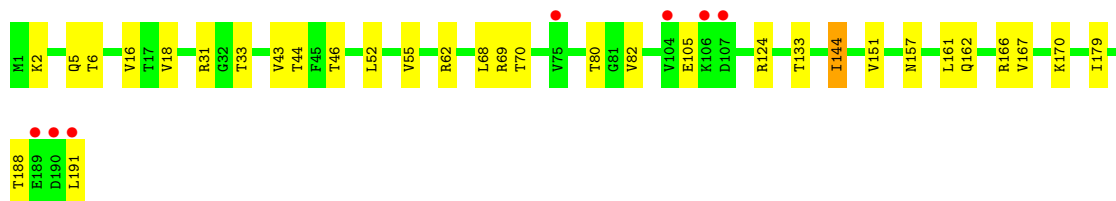
• Molecule 46: 60S ribosomal protein L9-A

Chain L9:



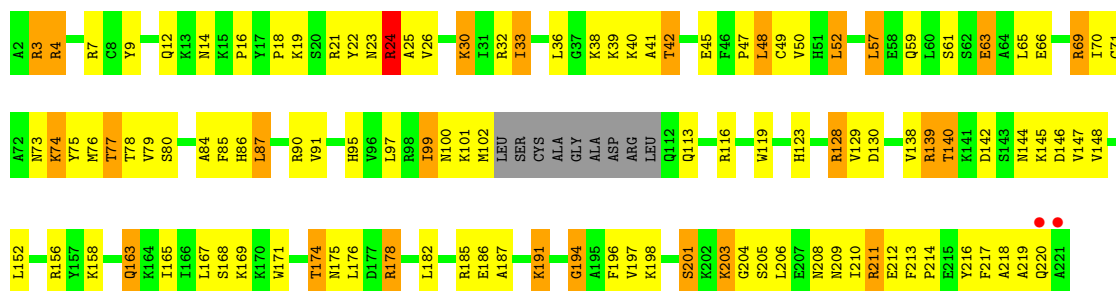
• Molecule 46: 60S ribosomal protein L9-A

Chain l9:



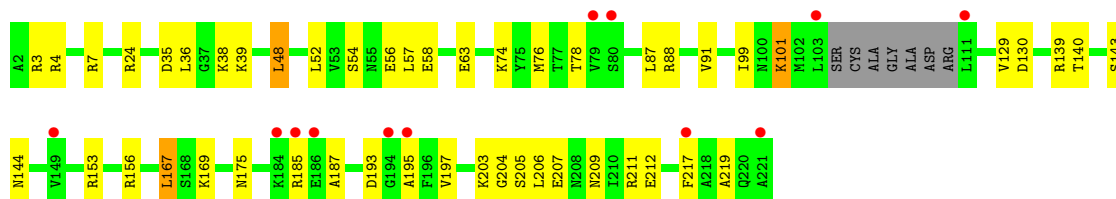
- Molecule 47: 60S ribosomal protein L10

Chain M0:



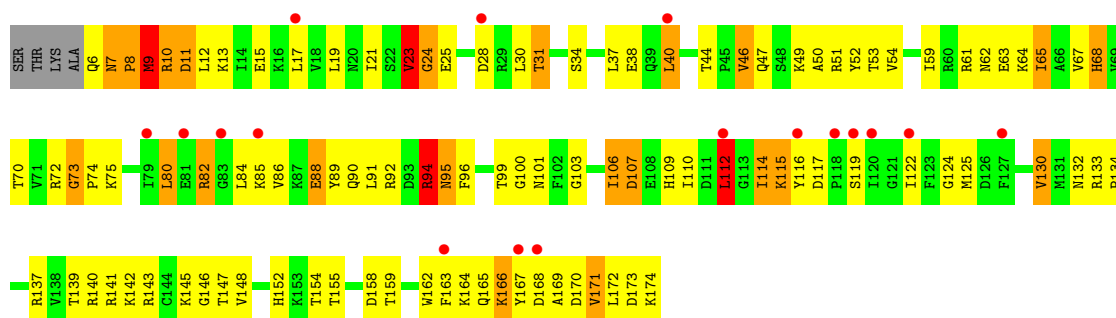
- Molecule 47: 60S ribosomal protein L10

Chain m0:



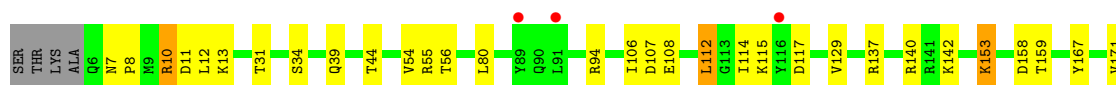
- Molecule 48: 60S ribosomal protein L11-B

Chain M1:



- Molecule 48: 60S ribosomal protein L11-B

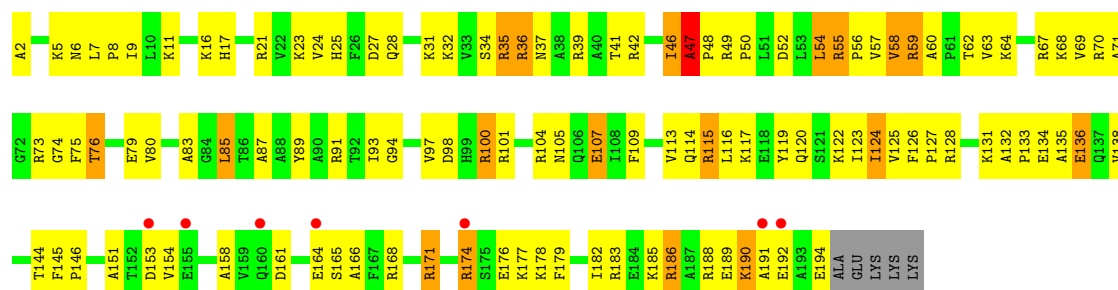
Chain m1:





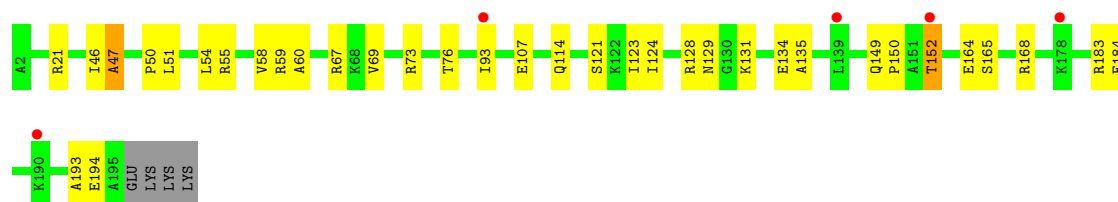
- Molecule 49: 60S ribosomal protein L13-A

Chain M3:



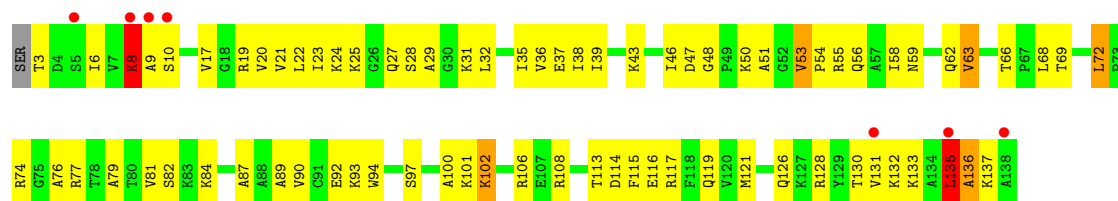
- Molecule 49: 60S ribosomal protein L13-A

Chain m3:



- Molecule 50: 60S ribosomal protein L14-A

Chain M4:



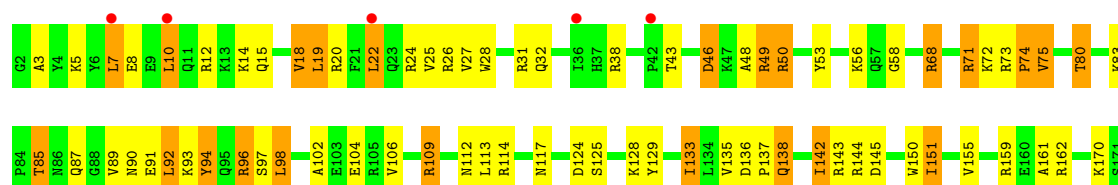
- Molecule 50: 60S ribosomal protein L14-A

Chain m4:



- Molecule 51: 60S ribosomal protein L15-A

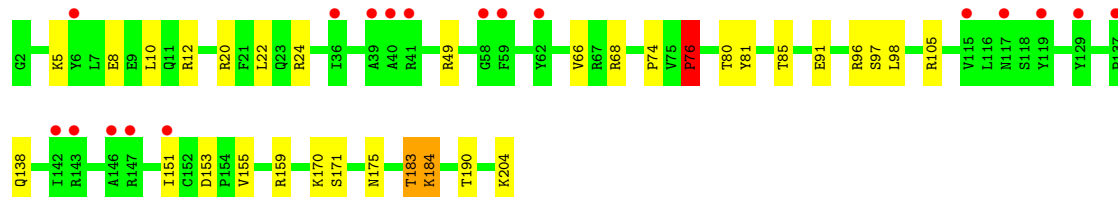
Chain M5:





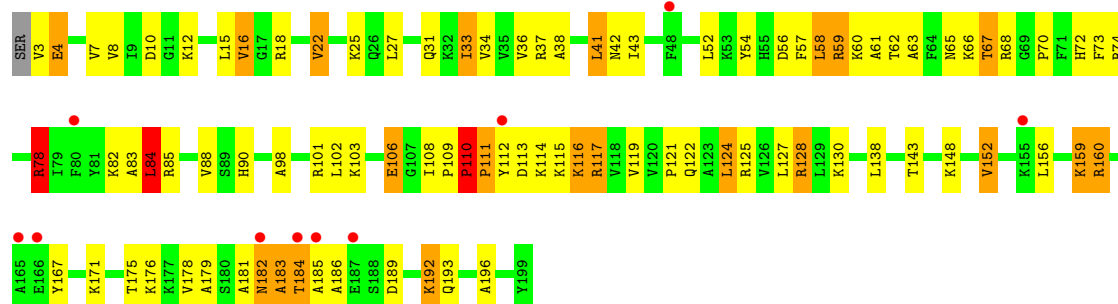
• Molecule 51: 60S ribosomal protein L15-A

Chain m5:



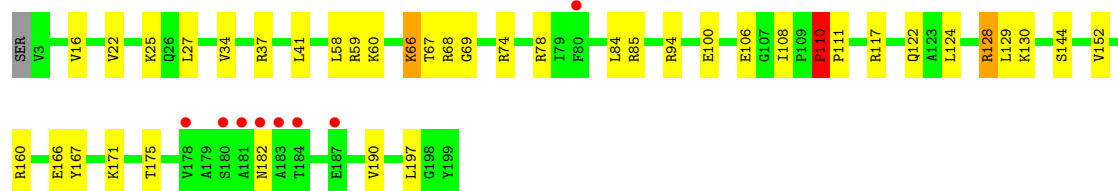
• Molecule 52: 60S ribosomal protein L16-A

Chain M6:



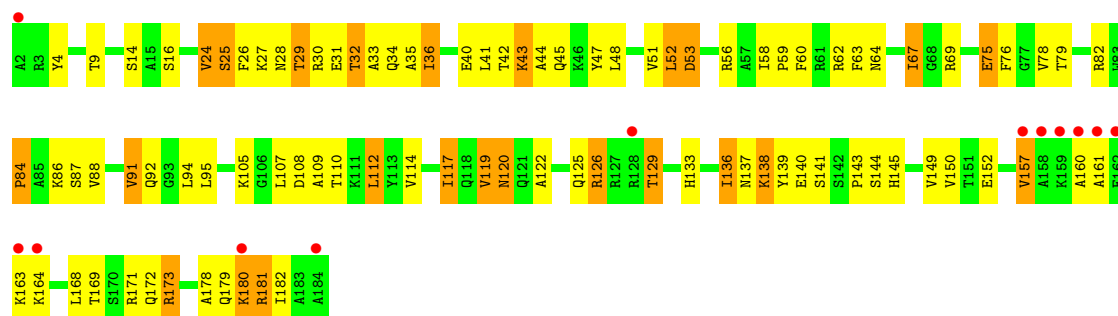
• Molecule 52: 60S ribosomal protein L16-A

Chain m6:



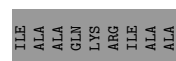
• Molecule 53: 60S ribosomal protein L17-A

Chain M7:



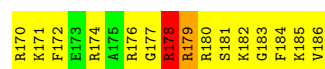
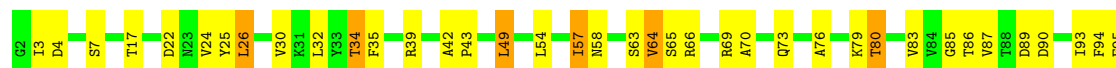
• Molecule 53: 60S ribosomal protein L17-A

Chain m7: 



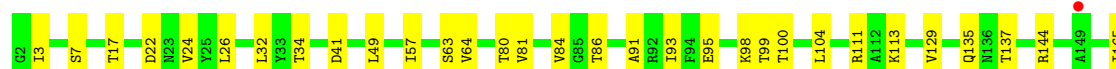
- Molecule 54: 60S ribosomal protein L18-A

Chain M8: 



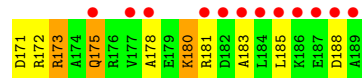
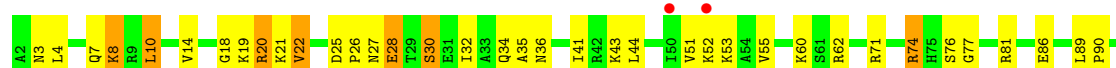
- Molecule 54: 60S ribosomal protein L18-A

Chain m8: 



- Molecule 55: 60S ribosomal protein L19-A

Chain M9: 



- Molecule 55: 60S ribosomal protein L19-A

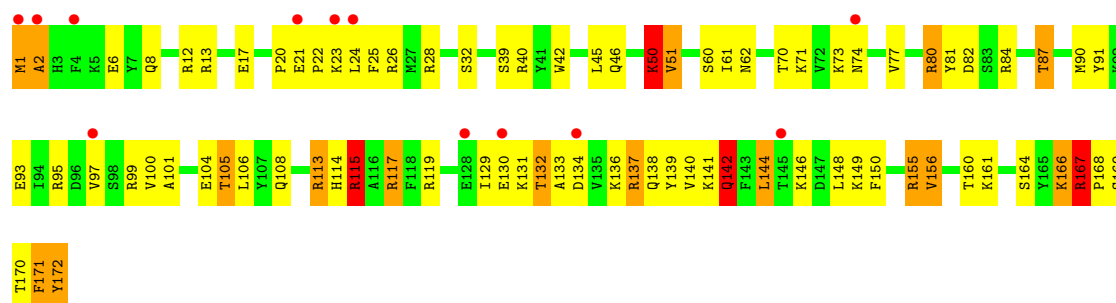
Chain m9: 





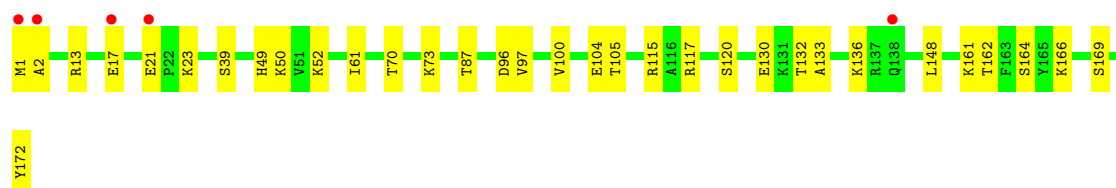
- Molecule 56: 60S ribosomal protein L20-A

Chain N0:



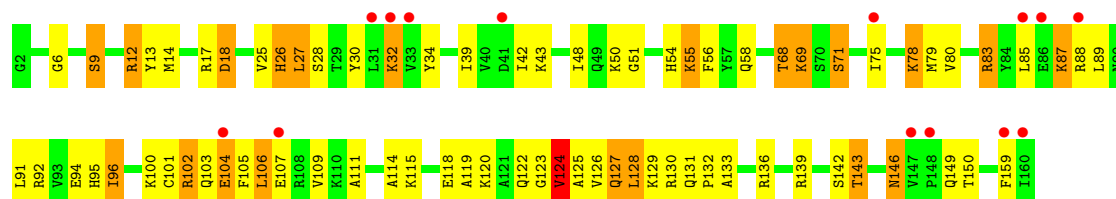
- Molecule 56: 60S ribosomal protein L20-A

Chain n0:



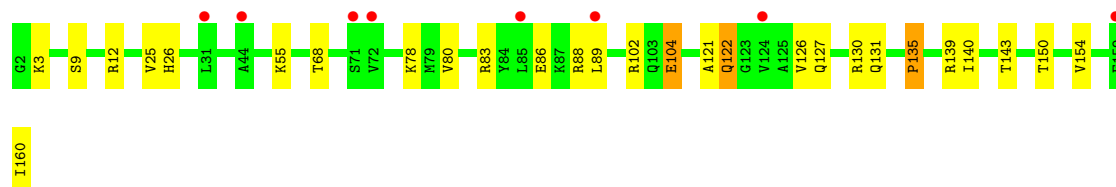
- Molecule 57: 60S ribosomal protein L21-A

Chain N1:



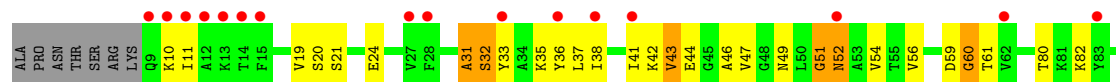
- Molecule 57: 60S ribosomal protein L21-A

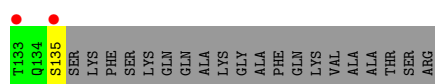
Chain n1:



- Molecule 58: 60S ribosomal protein L22-A

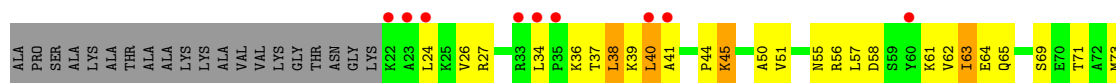
Chain N2:





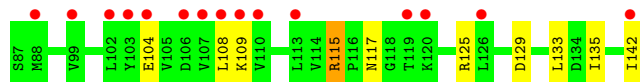
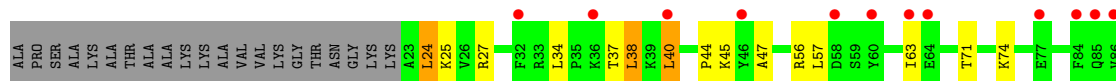
- Molecule 61: 60S ribosomal protein L25

Chain N5:



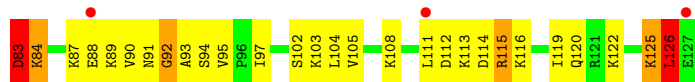
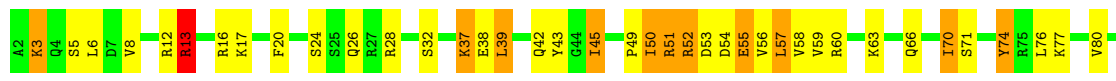
- Molecule 61: 60S ribosomal protein L25

Chain n5:



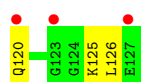
- Molecule 62: 60S ribosomal protein L26-A

Chain N6:



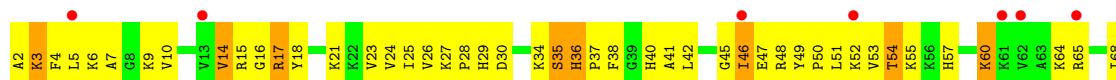
- Molecule 62: 60S ribosomal protein L26-A

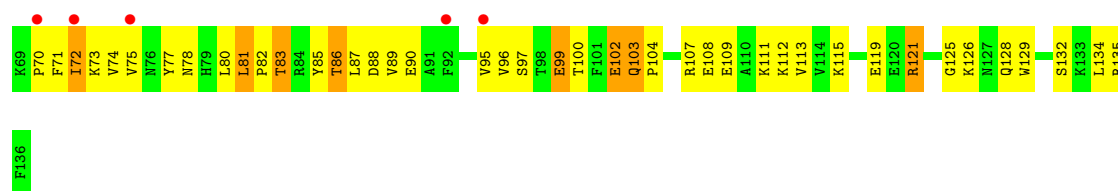
Chain n6:



- Molecule 63: 60S ribosomal protein L27-A

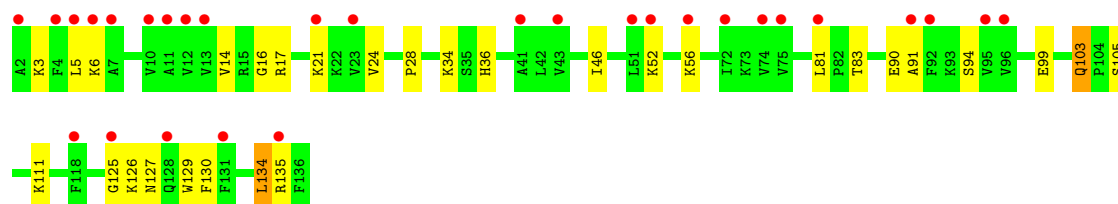
Chain N7:





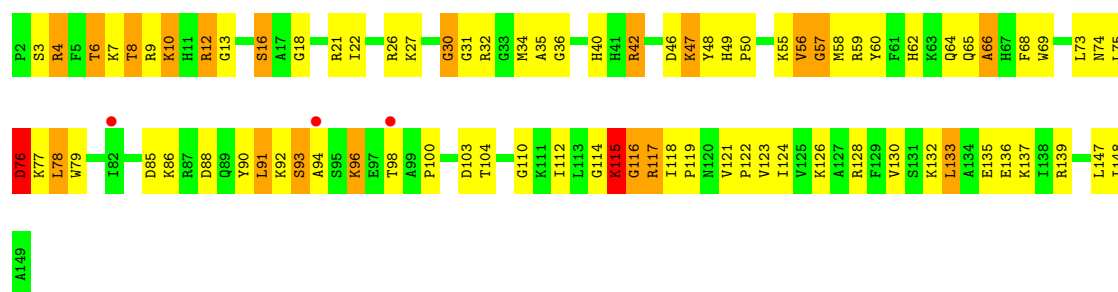
- Molecule 63: 60S ribosomal protein L27-A

Chain n7:



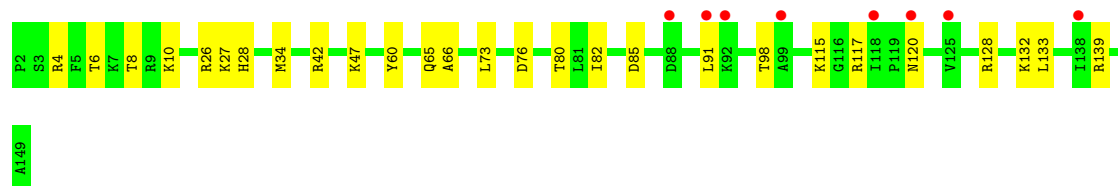
- Molecule 64: 60S ribosomal protein L28

Chain N8:



- Molecule 64: 60S ribosomal protein L28

Chain n8:



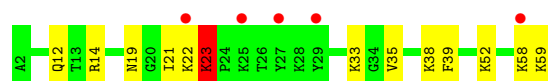
- Molecule 65: 60S ribosomal protein L29

Chain N9:



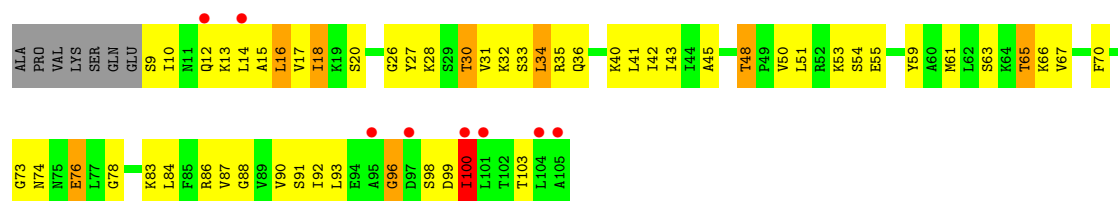
- Molecule 65: 60S ribosomal protein L29

Chain n9:



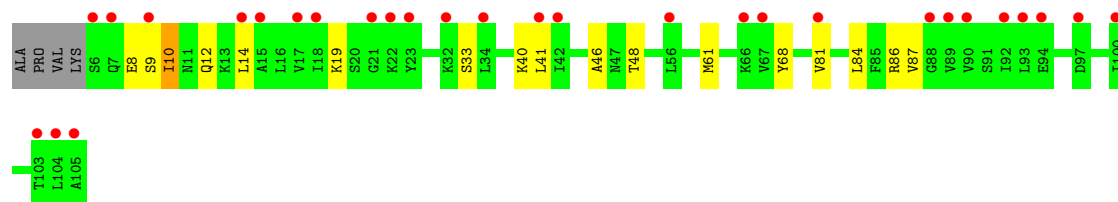
- Molecule 66: 60S ribosomal protein L30

Chain O0:



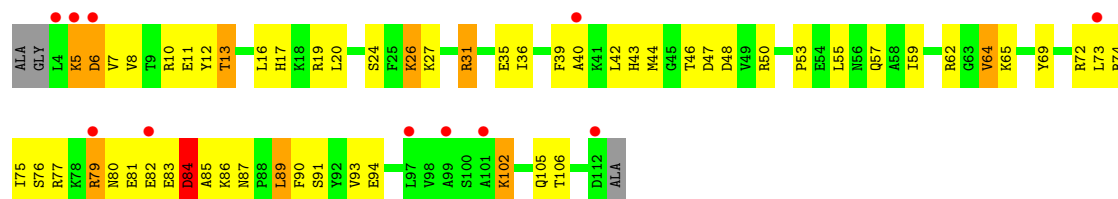
- Molecule 66: 60S ribosomal protein L30

Chain o0:



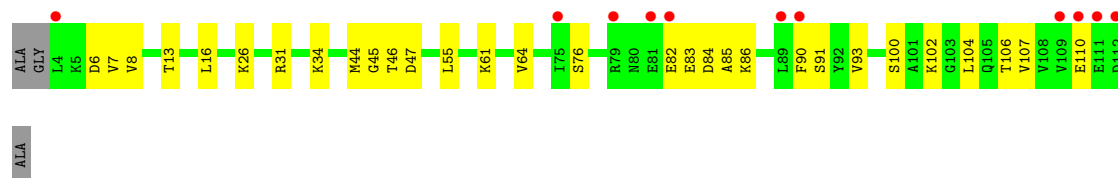
- Molecule 67: 60S ribosomal protein L31-A

Chain O1:



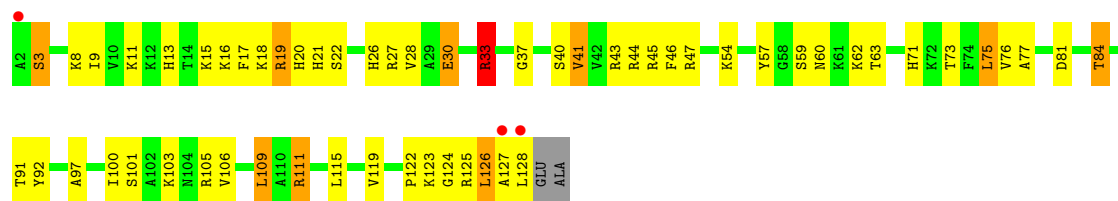
- Molecule 67: 60S ribosomal protein L31-A

Chain o1:



- Molecule 68: 60S ribosomal protein L32

Chain O2:



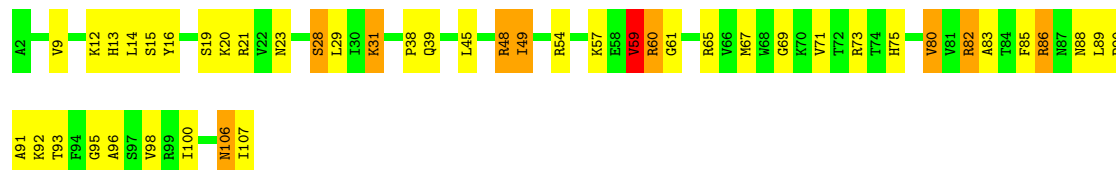
- Molecule 68: 60S ribosomal protein L32

Chain o2: 



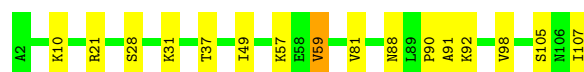
- Molecule 69: 60S ribosomal protein L33-A

Chain O3: 



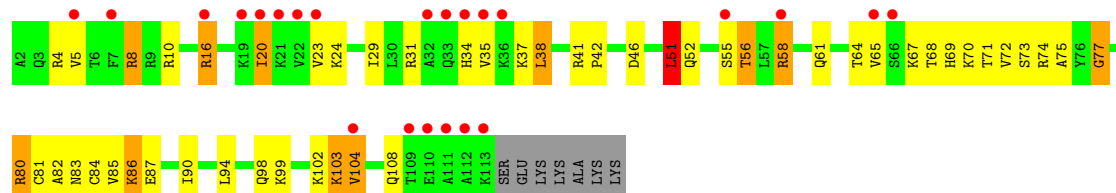
- Molecule 69: 60S ribosomal protein L33-A

Chain o3: 



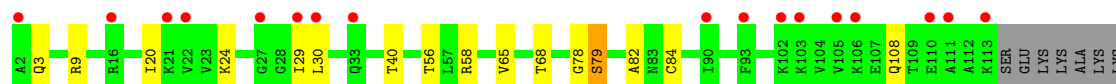
- Molecule 70: 60S ribosomal protein L34-A

Chain O4: 



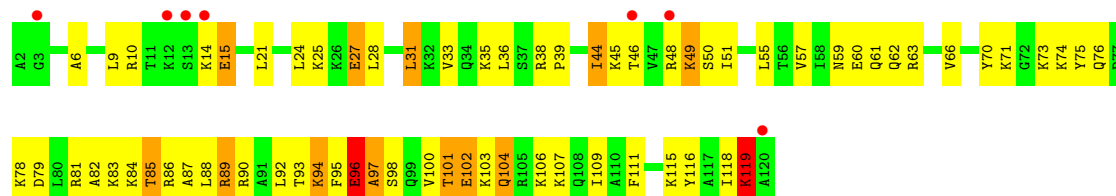
- Molecule 70: 60S ribosomal protein L34-A

Chain o4: 



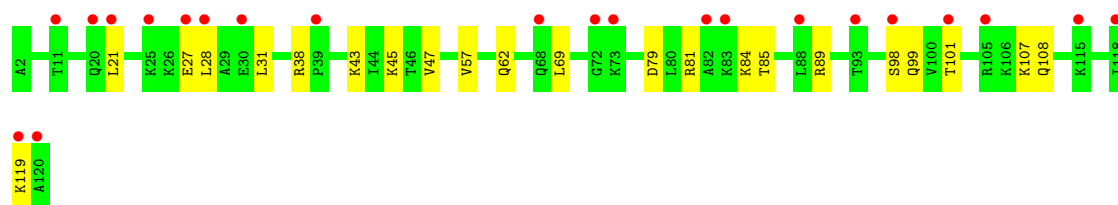
- Molecule 71: 60S ribosomal protein L35-A

Chain O5: 



- Molecule 71: 60S ribosomal protein L35-A

Chain o5: 



- Molecule 72: 60S ribosomal protein L36-A

Chain O6:



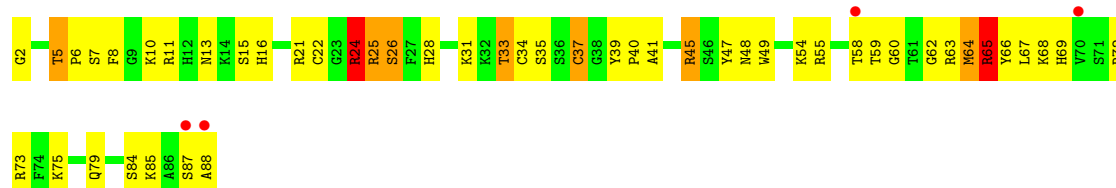
- Molecule 72: 60S ribosomal protein L36-A

Chain o6:



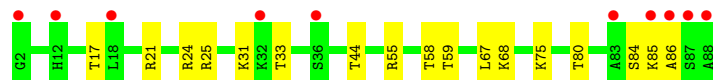
- Molecule 73: 60S ribosomal protein L37-A

Chain O7:



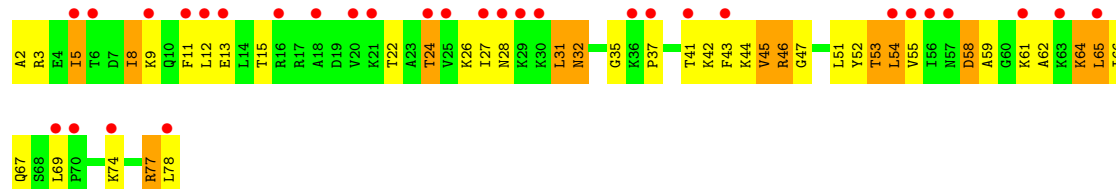
- Molecule 73: 60S ribosomal protein L37-A

Chain o7:



- Molecule 74: 60S ribosomal protein L38

Chain O8:



- Molecule 74: 60S ribosomal protein L38

Chain o8: 



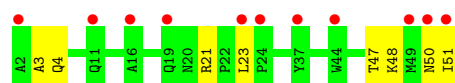
- Molecule 75: 60S ribosomal protein L39

Chain O9: 



- Molecule 75: 60S ribosomal protein L39

Chain o9: 



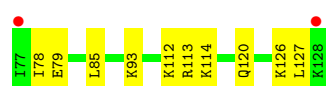
- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain Q0: 



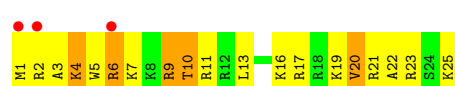
- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain q0: 



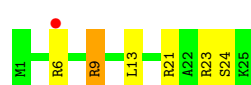
- Molecule 77: 60S ribosomal protein L41-A

Chain Q1: 



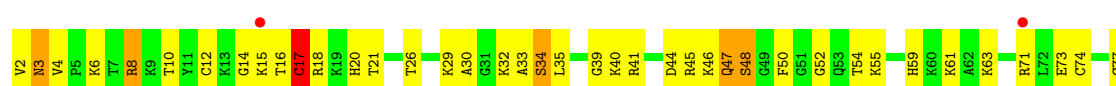
- Molecule 77: 60S ribosomal protein L41-A

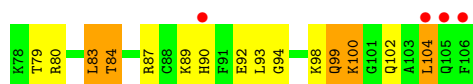
Chain q1: 



- 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:

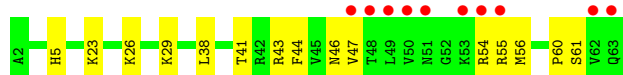


- Molecule 79: 60S ribosomal protein L43-A

Chain q3:

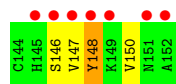
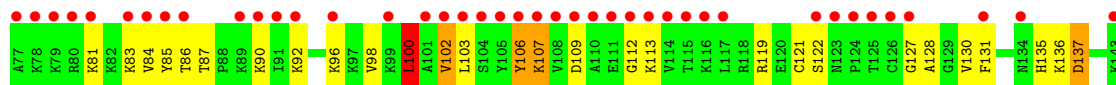
- Molecule 80: 40S ribosomal protein S30-A

Chain e0:



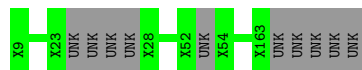
- Molecule 81: Ubiquitin-40S ribosomal protein S31

Chain e1:



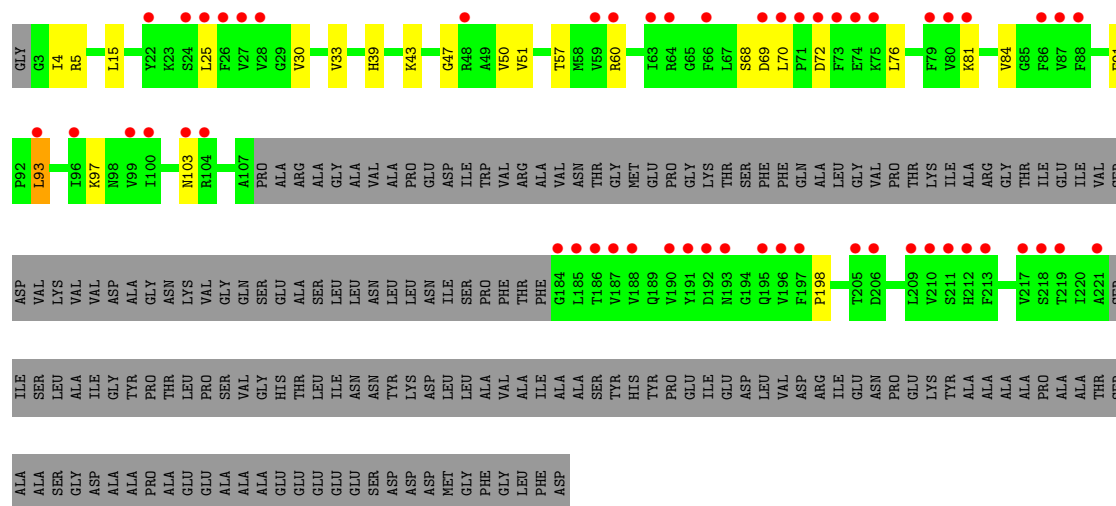
- Molecule 82: UNKNOWN PROTEIN m2

Chain m2:



- Molecule 83: 60S acidic ribosomal protein P0

Chain p0:



- Molecule 84: UNKNOWN PROTEIN p1

Chain p1:

There are no outlier residues recorded for this chain.

- Molecule 85: 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	436.43Å 288.22Å 305.08Å 90.00° 98.99° 90.00°	Depositor
Resolution (Å)	267.37 – 2.90 267.37 – 2.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (267.37-2.90) 99.9 (267.37-2.90)	Depositor EDS
R_{merge}	0.40	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.32 (at 2.91Å)	Xtriage
Refinement program	PHENIX (phenix.refine: dev_1702)	Depositor
R, R_{free}	0.204 , 0.245 0.252 , 0.290	Depositor DCC
R_{free} test set	25170 reflections (1.54%)	DCC
Wilson B-factor (Å ²)	66.3	Xtriage
Anisotropy	0.213	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 36.5	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	0 of 1639575 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	411205	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.46% 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, 3HE

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	0.69	3/41698 (0.0%)	1.25	259/64972 (0.4%)
1	6	0.83	9/42765 (0.0%)	1.36	416/66634 (0.6%)
2	S0	0.45	0/1617	0.63	0/2215
2	s0	0.50	0/1623	0.70	0/2222
3	S1	0.35	0/1735	0.63	2/2335 (0.1%)
3	s1	0.49	0/1748	0.68	0/2352
4	S2	0.49	0/1665	0.66	1/2263 (0.0%)
4	s2	0.60	0/1665	0.76	2/2263 (0.1%)
5	S3	0.49	0/1759	0.62	0/2368
5	s3	0.47	0/1759	0.60	0/2368
6	S4	0.48	0/2109	0.71	1/2839 (0.0%)
6	s4	0.57	0/2109	0.77	1/2839 (0.0%)
7	S5	0.39	0/1629	0.58	0/2202
7	s5	0.45	0/1629	0.63	0/2202
8	S6	0.45	0/1823	0.64	0/2439
8	s6	0.55	0/1779	0.69	0/2379
9	S7	0.43	0/1506	0.63	0/2028
9	s7	0.49	0/1516	0.68	0/2043
10	S8	0.53	0/1514	0.74	1/2021 (0.0%)
10	s8	0.62	0/1514	0.76	1/2021 (0.0%)
11	S9	0.46	0/1519	0.64	0/2035
11	s9	0.56	0/1519	0.72	1/2035 (0.0%)
12	C0	0.42	0/790	0.67	1/1069 (0.1%)
12	c0	0.39	0/777	0.63	3/1049 (0.3%)
13	C1	0.61	0/1240	0.80	1/1675 (0.1%)
13	c1	0.63	0/1194	0.78	0/1610
14	C2	0.36	0/900	0.63	0/1224
14	c2	0.30	0/900	0.56	0/1224
15	C3	0.46	0/1215	0.66	3/1638 (0.2%)
15	c3	0.56	0/1215	0.73	1/1638 (0.1%)
16	C4	0.36	0/901	0.63	0/1217
16	c4	0.51	0/960	0.72	0/1290

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	C5	0.46	0/998	0.65	0/1341
17	c5	0.51	0/1060	0.66	1/1426 (0.1%)
18	C6	0.45	0/1125	0.66	2/1510 (0.1%)
18	c6	0.49	0/1131	0.71	0/1518
19	C7	0.43	0/935	0.63	0/1254
19	c7	0.51	0/914	0.73	0/1224
20	C8	0.46	0/1211	0.64	0/1628
20	c8	0.49	0/1211	0.71	2/1628 (0.1%)
21	C9	0.46	0/1130	0.67	1/1517 (0.1%)
21	c9	0.51	0/1130	0.74	2/1517 (0.1%)
22	D0	0.46	0/865	0.65	0/1169
22	d0	0.51	0/892	0.68	0/1205
23	D1	0.43	0/693	0.60	0/935
23	d1	0.54	0/693	0.71	0/935
24	D2	0.53	0/1038	0.73	3/1395 (0.2%)
24	d2	0.62	0/1038	0.74	0/1395
25	D3	0.60	0/1139	0.81	3/1518 (0.2%)
25	d3	0.70	0/1139	0.79	1/1518 (0.1%)
26	D4	0.45	0/1087	0.59	0/1449
26	d4	0.51	0/1087	0.68	0/1449
27	D5	0.40	0/571	0.71	1/768 (0.1%)
27	d5	0.44	0/566	0.63	0/761
28	D6	0.44	0/782	0.67	0/1047
28	d6	0.54	0/782	0.72	0/1047
29	D7	0.43	0/620	0.67	1/838 (0.1%)
29	d7	0.49	0/620	0.68	0/838
30	D8	0.34	0/499	0.55	0/670
30	d8	0.42	0/499	0.66	0/670
31	D9	0.52	0/452	0.73	1/600 (0.2%)
31	d9	0.54	0/452	0.67	0/600
32	E0	0.46	0/483	0.61	0/643
33	E1	0.45	0/577	0.73	0/770
34	SR	0.89	2/2494 (0.1%)	1.42	4/3393 (0.1%)
34	sR	0.41	0/2495	0.58	0/3395
35	SM	0.52	0/1113	0.68	2/1502 (0.1%)
35	sM	0.50	0/683	0.66	1/923 (0.1%)
36	1	1.08	69/75394 (0.1%)	1.60	1618/117545 (1.4%)
36	5	1.10	113/75414 (0.1%)	1.60	1498/117575 (1.3%)
37	3	0.87	1/2883 (0.0%)	1.39	30/4491 (0.7%)
37	7	1.10	5/2883 (0.2%)	1.61	64/4491 (1.4%)
38	4	1.01	0/3746	1.51	61/5832 (1.0%)
38	8	0.87	0/3746	1.37	23/5832 (0.4%)
39	L2	0.72	0/1948	0.87	4/2617 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	l2	0.72	1/1946 (0.1%)	0.86	2/2614 (0.1%)
40	L3	0.73	0/3146	0.83	3/4228 (0.1%)
40	l3	0.82	2/3146 (0.1%)	0.89	7/4228 (0.2%)
41	L4	0.79	0/2800	0.94	6/3790 (0.2%)
41	l4	0.73	0/2800	0.88	3/3790 (0.1%)
42	L5	0.58	0/2425	0.70	0/3271
42	l5	0.71	0/2408	0.76	0/3248
43	L6	0.77	0/1260	0.84	1/1694 (0.1%)
43	l6	0.72	0/1269	0.82	1/1705 (0.1%)
44	L7	0.79	0/1821	0.85	1/2451 (0.0%)
44	l7	0.82	0/1828	0.86	3/2461 (0.1%)
45	L8	0.55	0/1836	0.67	1/2481 (0.0%)
45	l8	0.52	0/1796	0.69	1/2431 (0.0%)
46	L9	0.64	0/1539	0.76	1/2073 (0.0%)
46	l9	0.78	0/1539	0.82	0/2073
47	M0	0.72	0/1741	0.83	3/2335 (0.1%)
47	m0	0.77	1/1758 (0.1%)	0.85	3/2358 (0.1%)
48	M1	0.52	0/1374	0.71	1/1842 (0.1%)
48	m1	0.64	0/1374	0.79	1/1842 (0.1%)
49	M3	0.73	0/1568	0.84	3/2106 (0.1%)
49	m3	0.66	0/1573	0.82	3/2113 (0.1%)
50	M4	0.70	0/1068	0.80	1/1438 (0.1%)
50	m4	0.77	0/1074	0.81	1/1446 (0.1%)
51	M5	0.76	0/1757	0.82	0/2354
51	m5	0.65	0/1757	0.78	1/2354 (0.0%)
52	M6	0.83	1/1585 (0.1%)	0.92	3/2128 (0.1%)
52	m6	0.98	1/1585 (0.1%)	0.98	8/2128 (0.4%)
53	M7	0.78	1/1443 (0.1%)	0.83	0/1944
53	m7	0.84	0/1250	0.81	0/1683
54	M8	0.76	0/1465	0.91	4/1965 (0.2%)
54	m8	0.71	0/1465	0.87	1/1965 (0.1%)
55	M9	0.54	0/1538	0.66	0/2050
55	m9	0.59	0/1538	0.66	0/2050
56	N0	0.76	0/1481	0.83	1/1990 (0.1%)
56	n0	0.86	0/1481	0.83	0/1990
57	N1	0.78	1/1300 (0.1%)	0.81	0/1743
57	n1	0.82	1/1300 (0.1%)	0.81	0/1743
58	N2	0.44	0/812	0.61	0/1099
58	n2	0.51	0/794	0.67	0/1076
59	N3	0.72	0/1018	0.80	0/1369
59	n3	0.83	0/1018	0.94	3/1369 (0.2%)
60	N4	0.60	0/712	0.66	0/958
60	n4	0.66	0/1052	0.75	0/1398

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
61	N5	0.61	0/979	0.77	1/1321 (0.1%)
61	n5	0.62	0/974	0.75	1/1314 (0.1%)
62	N6	0.70	0/1004	0.88	3/1341 (0.2%)
62	n6	0.63	0/1004	0.80	1/1341 (0.1%)
63	N7	0.50	0/1118	0.65	0/1497
63	n7	0.45	0/1118	0.61	0/1497
64	N8	0.82	0/1204	0.92	2/1612 (0.1%)
64	n8	0.76	0/1204	0.95	3/1612 (0.2%)
65	N9	0.73	0/473	0.80	1/629 (0.2%)
65	n9	0.81	0/473	1.00	1/629 (0.2%)
66	O0	0.45	0/751	0.63	0/1008
66	o0	0.49	0/775	0.66	0/1040
67	O1	0.61	0/890	0.72	0/1196
67	o1	0.77	0/897	0.82	0/1205
68	O2	0.83	0/1041	0.92	2/1394 (0.1%)
68	o2	0.82	0/1041	0.92	3/1394 (0.2%)
69	O3	0.89	0/868	0.88	1/1168 (0.1%)
69	o3	0.89	0/868	0.84	0/1168
70	O4	0.59	0/890	0.75	1/1189 (0.1%)
70	o4	0.61	1/890 (0.1%)	0.73	0/1189
71	O5	0.67	0/978	0.78	0/1301
71	o5	0.58	0/974	0.66	0/1297
72	O6	0.63	0/778	0.82	1/1034 (0.1%)
72	o6	0.52	0/777	0.68	0/1033
73	O7	0.81	1/696 (0.1%)	0.95	2/923 (0.2%)
73	o7	0.70	0/696	0.79	0/923
74	O8	0.51	0/618	0.63	0/826
74	o8	0.44	0/614	0.61	0/822
75	O9	0.77	0/443	0.89	0/588
75	o9	0.69	0/443	0.76	1/588 (0.2%)
76	Q0	0.67	0/423	0.76	0/562
76	q0	0.81	0/423	0.90	0/562
77	Q1	0.68	0/234	1.04	0/300
77	q1	0.83	0/234	0.94	1/300 (0.3%)
78	Q2	0.93	1/860 (0.1%)	0.87	2/1136 (0.2%)
78	q2	0.86	1/860 (0.1%)	0.81	0/1136
79	Q3	0.77	0/701	0.82	0/934
79	q3	0.70	0/701	0.85	2/934 (0.2%)
80	e0	0.52	0/499	0.72	0/665
81	e1	0.39	0/619	0.73	1/822 (0.1%)
83	p0	0.43	0/1092	0.60	0/1474
All	All	0.85	215/430075 (0.0%)	1.27	4114/631366 (0.7%)

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
2	s0	0	1
3	s1	0	1
6	s4	0	1
7	s5	0	1
9	S7	0	1
9	s7	0	1
10	S8	0	1
13	C1	0	1
16	C4	0	2
17	c5	0	1
19	C7	0	2
19	c7	0	1
20	c8	0	1
22	d0	0	1
25	d3	0	1
27	D5	0	3
28	D6	0	3
34	SR	0	2
39	L2	0	1
39	l2	0	2
42	l5	0	1
43	L6	0	1
44	L7	0	1
44	l7	0	2
52	M6	0	1
52	m6	0	1
53	M7	0	1
53	m7	0	1
56	n0	0	1
59	n3	0	1
62	n6	0	1
64	N8	0	2
64	n8	0	1
65	N9	0	1
65	n9	0	1
67	O1	0	1
67	o1	0	1
75	o9	0	1
78	Q2	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
81	e1	0	1
All	All	0	50

All (215) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	SR	160	GLU	C-N	-30.25	0.64	1.34
34	SR	161	LYS	C-N	-24.97	0.76	1.34
78	Q2	17	CYS	CB-SG	16.00	2.09	1.82
36	5	1152	G	N9-C4	-13.57	1.27	1.38
78	q2	17	CYS	CB-SG	12.94	2.04	1.82
52	m6	66	LYS	CE-NZ	8.92	1.71	1.49
36	5	1152	G	C2-N3	-8.88	1.25	1.32
36	5	1152	G	N9-C8	8.55	1.43	1.37
36	1	2726	C	N3-C4	-8.17	1.28	1.33
36	1	3181	C	N3-C4	-7.93	1.28	1.33
36	5	2726	C	N3-C4	-7.92	1.28	1.33
36	5	2873	U	C2-N3	7.89	1.43	1.37
36	5	1152	G	N1-C2	7.49	1.43	1.37
36	5	2943	G	N7-C5	-7.42	1.34	1.39
39	l2	213	GLY	C-O	7.37	1.35	1.23
36	1	1153	A	N7-C5	-7.33	1.34	1.39
1	6	163	G	N9-C4	-7.25	1.32	1.38
36	5	2954	U	C4-O4	7.20	1.29	1.23
36	1	644	G	N7-C5	-7.16	1.34	1.39
36	1	2910	A	N9-C4	-7.04	1.33	1.37
36	5	2971	A	N9-C4	7.04	1.42	1.37
36	1	2799	A	N7-C5	-6.97	1.35	1.39
36	5	1152	G	N3-C4	-6.97	1.30	1.35
36	1	2412	G	N7-C5	-6.93	1.35	1.39
36	1	1103	A	N9-C4	6.91	1.42	1.37
36	5	631	U	C2-N3	-6.84	1.32	1.37
36	5	2335	G	N3-C4	-6.84	1.30	1.35
36	1	659	G	N7-C5	-6.81	1.35	1.39
57	n1	104	GLU	CB-CG	6.81	1.65	1.52
36	5	2375	G	C6-N1	-6.76	1.34	1.39
36	5	953	G	C5-C4	-6.75	1.33	1.38
36	5	2314	U	N3-C4	6.69	1.44	1.38
36	1	895	A	N9-C8	6.68	1.43	1.37
36	1	2714	G	N9-C4	-6.47	1.32	1.38
36	5	877	C	C4-N4	-6.47	1.28	1.33
36	1	61	A	C5-C6	-6.47	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	970	A	N9-C4	-6.44	1.33	1.37
36	1	1133	A	N9-C4	-6.42	1.33	1.37
36	5	2341	A	N9-C8	-6.31	1.32	1.37
36	1	1416	C	N3-C4	-6.30	1.29	1.33
36	5	2899	C	N3-C4	-6.27	1.29	1.33
36	1	2836	C	N3-C4	-6.23	1.29	1.33
36	1	2404	A	N9-C4	6.22	1.41	1.37
36	5	3218	A	C5-C6	-6.21	1.35	1.41
36	1	317	A	N7-C5	-6.20	1.35	1.39
36	5	2401	A	N3-C4	6.15	1.38	1.34
36	1	2983	C	N3-C4	-6.14	1.29	1.33
36	5	2872	A	C6-N1	6.14	1.39	1.35
37	7	95	A	N9-C4	-6.13	1.34	1.37
36	1	426	G	N1-C2	-6.10	1.32	1.37
36	1	2815	G	N3-C4	-6.09	1.31	1.35
36	1	2640	A	C6-N1	-6.04	1.31	1.35
36	5	1113	G	C6-N1	-6.03	1.35	1.39
36	1	1429	G	N9-C8	-6.01	1.33	1.37
36	5	1115	G	N7-C5	-6.00	1.35	1.39
36	1	2714	G	N9-C8	5.98	1.42	1.37
36	5	1849	C	N1-C6	-5.95	1.33	1.37
36	5	2954	U	C2-N3	5.91	1.41	1.37
36	5	3107	U	C2-N3	-5.91	1.33	1.37
73	O7	37	CYS	CB-SG	-5.90	1.72	1.81
36	5	2147	A	C5-C6	-5.90	1.35	1.41
36	5	426	G	C5-C4	-5.89	1.34	1.38
1	2	992	A	N9-C4	-5.87	1.34	1.37
36	5	2138	A	N7-C5	-5.86	1.35	1.39
36	5	1148	G	C5-C4	-5.86	1.34	1.38
36	5	2814	G	N7-C5	-5.85	1.35	1.39
36	1	1127	G	C5-C6	-5.83	1.36	1.42
36	5	420	G	N9-C8	-5.80	1.33	1.37
36	5	1152	G	C5-C6	-5.80	1.36	1.42
37	7	85	G	N1-C2	-5.79	1.33	1.37
36	1	200	C	N1-C6	-5.77	1.33	1.37
36	1	980	A	N9-C4	5.77	1.41	1.37
36	5	2303	A	N7-C5	-5.76	1.35	1.39
36	5	3209	A	C5-C4	5.76	1.42	1.38
36	5	1133	A	N7-C5	-5.75	1.35	1.39
36	1	1399	A	N9-C4	-5.74	1.34	1.37
36	5	2698	G	N9-C8	-5.73	1.33	1.37
36	5	2147	A	N7-C5	-5.73	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2617	U	N3-C4	-5.72	1.33	1.38
36	5	2635	A	N3-C4	-5.72	1.31	1.34
36	5	2640	A	N3-C4	-5.71	1.31	1.34
36	1	2404	A	N3-C4	5.70	1.38	1.34
36	1	402	A	N3-C4	-5.70	1.31	1.34
36	1	659	G	N1-C2	-5.70	1.33	1.37
36	1	317	A	C5-C6	-5.69	1.35	1.41
36	5	2858	U	C2-N3	-5.69	1.33	1.37
36	5	2954	U	N3-C4	5.69	1.43	1.38
36	5	719	U	N1-C2	5.69	1.43	1.38
36	5	1891	A	N9-C4	-5.69	1.34	1.37
36	1	48	A	N9-C8	-5.67	1.33	1.37
36	5	895	A	N9-C4	-5.66	1.34	1.37
36	1	2138	A	N7-C5	-5.66	1.35	1.39
36	1	2406	C	N1-C6	-5.65	1.33	1.37
36	1	296	A	N9-C4	5.65	1.41	1.37
36	5	1113	G	N3-C4	-5.65	1.31	1.35
36	5	2894	C	C4-C5	-5.64	1.38	1.43
36	5	2941	A	N9-C4	-5.64	1.34	1.37
1	6	623	A	N9-C4	-5.63	1.34	1.37
36	5	1328	C	N1-C6	-5.63	1.33	1.37
36	1	361	A	N9-C4	-5.62	1.34	1.37
36	1	2657	A	N7-C5	-5.62	1.35	1.39
36	1	3209	A	C6-N1	5.59	1.39	1.35
36	5	1115	G	N1-C2	-5.58	1.33	1.37
36	1	2147	A	N7-C5	-5.57	1.35	1.39
36	5	2417	U	C4-O4	5.57	1.28	1.23
1	6	538	A	N9-C4	5.57	1.41	1.37
36	1	667	C	N3-C4	-5.57	1.30	1.33
1	2	1291	G	N3-C4	-5.53	1.31	1.35
36	5	924	G	C2-N3	-5.53	1.28	1.32
36	5	1307	G	P-O5'	-5.53	1.54	1.59
36	5	3308	C	N3-C4	-5.53	1.30	1.33
36	5	2376	G	N9-C8	-5.51	1.33	1.37
36	5	1173	U	C2-N3	-5.51	1.33	1.37
36	5	2957	G	C5-C4	-5.51	1.34	1.38
36	1	2679	A	N9-C4	-5.50	1.34	1.37
36	1	962	A	N7-C5	-5.50	1.35	1.39
36	5	367	A	N9-C4	-5.50	1.34	1.37
1	6	1744	A	N9-C4	-5.49	1.34	1.37
36	1	1132	C	N3-C4	-5.48	1.30	1.33
36	5	1177	G	N3-C4	-5.46	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1149	G	N9-C8	-5.46	1.34	1.37
1	6	1781	A	N9-C4	5.46	1.41	1.37
36	1	584	G	N7-C5	-5.45	1.35	1.39
37	3	88	G	C6-N1	-5.45	1.35	1.39
70	o4	84	CYS	CB-SG	5.45	1.91	1.82
36	1	1103	A	C6-N1	5.43	1.39	1.35
36	5	971	G	C5-C4	-5.43	1.34	1.38
36	5	661	G	N7-C5	-5.42	1.35	1.39
37	7	91	G	N7-C5	-5.42	1.35	1.39
36	5	2762	A	N9-C4	-5.42	1.34	1.37
36	5	719	U	C2-O2	5.40	1.27	1.22
36	1	2409	G	N3-C4	-5.39	1.31	1.35
36	5	40	A	N7-C5	-5.38	1.36	1.39
36	5	960	U	N1-C2	5.37	1.43	1.38
36	1	2143	A	N3-C4	-5.37	1.31	1.34
36	5	2401	A	N9-C4	5.36	1.41	1.37
36	5	917	A	N3-C4	-5.36	1.31	1.34
36	5	2646	C	N1-C6	-5.35	1.33	1.37
36	5	1134	G	N1-C2	-5.35	1.33	1.37
36	5	2419	A	P-O5'	5.35	1.65	1.59
36	1	1112	A	N9-C4	-5.34	1.34	1.37
36	5	2937	G	N7-C5	-5.33	1.36	1.39
36	1	2800	G	C5-C4	-5.32	1.34	1.38
36	5	2627	C	N3-C4	-5.31	1.30	1.33
36	1	2409	G	N7-C5	-5.30	1.36	1.39
36	5	2755	C	N1-C6	-5.30	1.33	1.37
36	1	2874	G	C5-C4	5.28	1.42	1.38
36	5	1207	G	N1-C2	-5.28	1.33	1.37
52	M6	4	GLU	CD-OE1	5.28	1.31	1.25
36	1	1002	A	N9-C4	-5.27	1.34	1.37
36	5	2911	A	N7-C5	-5.27	1.36	1.39
36	5	2632	G	C6-N1	-5.27	1.35	1.39
1	2	1599	C	N1-C6	-5.26	1.33	1.37
36	1	1507	G	N9-C8	-5.26	1.34	1.37
36	5	3245	A	N9-C4	-5.26	1.34	1.37
36	1	947	G	C6-N1	-5.26	1.35	1.39
36	5	1152	G	C8-N7	5.24	1.34	1.30
36	5	2300	G	N1-C2	-5.23	1.33	1.37
36	1	2867	C	N3-C4	-5.23	1.30	1.33
36	1	2822	U	N1-C2	-5.22	1.33	1.38
57	N1	107	GLU	CG-CD	5.22	1.59	1.51
36	5	2940	A	N7-C5	-5.22	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1773	C	C4-N4	5.21	1.38	1.33
36	5	1902	G	C5-C4	-5.20	1.34	1.38
36	5	2246	G	N1-C2	-5.19	1.33	1.37
36	5	2280	A	N9-C4	-5.19	1.34	1.37
36	5	1299	U	C4-O4	-5.19	1.19	1.23
36	5	859	G	N1-C2	-5.18	1.33	1.37
36	5	1192	C	N3-C4	5.18	1.37	1.33
36	5	3216	G	N7-C5	-5.18	1.36	1.39
36	5	872	U	C4-O4	-5.18	1.19	1.23
36	5	1902	G	N7-C5	-5.18	1.36	1.39
36	5	2814	G	C5-C6	-5.16	1.37	1.42
36	5	3008	A	N9-C4	-5.16	1.34	1.37
53	M7	129	THR	CB-CG2	-5.16	1.35	1.52
36	5	2942	C	N1-C6	-5.16	1.34	1.37
36	1	931	C	C2-N3	-5.15	1.31	1.35
36	5	1370	G	C6-N1	-5.15	1.35	1.39
36	5	2365	C	N3-C4	-5.15	1.30	1.33
1	6	337	G	C2-N2	5.15	1.39	1.34
1	6	163	G	N3-C4	-5.14	1.31	1.35
36	5	3374	U	C4-O4	-5.13	1.19	1.23
36	1	2975	U	C4-O4	-5.12	1.19	1.23
36	1	1430	U	N1-C2	-5.12	1.33	1.38
36	5	2955	U	C2-N3	-5.11	1.34	1.37
36	5	1908	A	C5-C4	-5.11	1.35	1.38
36	5	342	A	N3-C4	-5.10	1.31	1.34
36	5	2971	A	C5-C4	5.10	1.42	1.38
37	7	93	C	N3-C4	-5.09	1.30	1.33
36	1	3130	A	C6-N1	-5.09	1.31	1.35
36	1	2958	A	C6-N6	-5.08	1.29	1.33
36	5	1138	U	C4-O4	-5.08	1.19	1.23
40	l3	73	VAL	CB-CG1	-5.08	1.42	1.52
36	1	1660	C	N1-C6	-5.08	1.34	1.37
36	1	279	U	C4-O4	-5.07	1.19	1.23
36	1	421	G	N1-C2	-5.07	1.33	1.37
36	1	1103	A	N3-C4	5.06	1.37	1.34
36	5	3062	G	N7-C5	-5.06	1.36	1.39
36	5	3124	G	N3-C4	-5.06	1.31	1.35
36	1	343	U	N3-C4	-5.05	1.33	1.38
36	5	2762	A	N3-C4	-5.05	1.31	1.34
36	5	1103	A	N9-C4	5.05	1.40	1.37
36	5	1338	C	N3-C4	-5.05	1.30	1.33
1	6	1537	C	C2-N3	5.05	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	m0	56	GLU	CG-CD	5.04	1.59	1.51
36	5	802	C	N1-C6	-5.04	1.34	1.37
36	5	1330	A	C5-C6	-5.04	1.36	1.41
36	5	2385	G	N9-C4	-5.04	1.33	1.38
36	1	576	C	N1-C6	-5.03	1.34	1.37
36	5	2287	C	N1-C6	5.03	1.40	1.37
37	7	94	C	C2-N3	-5.02	1.31	1.35
36	5	2873	U	C2-O2	5.01	1.26	1.22
36	5	2314	U	C2-N3	5.01	1.41	1.37
36	1	420	G	N9-C8	-5.01	1.34	1.37
40	l3	251	CYS	CB-SG	-5.00	1.73	1.81

All (4114) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	SR	161	LYS	O-C-N	-44.54	51.44	122.70
34	SR	160	GLU	C-N-CA	-39.83	22.12	121.70
34	SR	160	GLU	CA-C-N	-34.85	40.53	117.20
36	5	1152	G	N3-C4-C5	27.52	142.36	128.60
36	5	1152	G	N3-C4-N9	-27.23	109.66	126.00
34	SR	160	GLU	O-C-N	-26.99	79.52	122.70
36	5	1152	G	N3-C2-N2	-21.11	105.12	119.90
36	5	1152	G	C2-N3-C4	-19.93	101.93	111.90
36	5	2334	U	O5'-P-OP2	-16.83	90.50	110.70
36	1	1308	A	O5'-P-OP2	-16.07	91.23	105.70
36	5	1152	G	C8-N9-C1'	16.00	147.81	127.00
1	2	553	G	N1-C6-O6	15.36	129.12	119.90
36	5	1152	G	C4-N9-C1'	-14.55	107.58	126.50
36	5	1152	G	C5-N7-C8	-14.40	97.10	104.30
36	1	2373	A	O5'-P-OP1	-14.34	92.79	105.70
36	1	2714	G	N3-C4-C5	14.10	135.65	128.60
36	5	1152	G	N1-C6-O6	13.77	128.16	119.90
36	5	2899	C	N3-C2-O2	-13.71	112.30	121.90
36	1	2923	U	O5'-P-OP1	-13.68	93.39	105.70
36	1	2617	U	C5-C4-O4	13.50	134.00	125.90
1	6	163	G	N3-C4-N9	-13.11	118.14	126.00
36	1	2714	G	N3-C4-N9	-12.98	118.21	126.00
36	5	1152	G	N1-C2-N2	12.92	127.83	116.20
36	5	2945	G	O5'-P-OP2	-12.90	94.09	105.70
1	6	1773	C	N3-C4-C5	-12.76	116.80	121.90
36	1	1495	U	C5-C6-N1	-12.71	116.34	122.70
36	5	1116	G	O5'-P-OP1	-12.65	94.31	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2726	C	C5-C4-N4	12.60	129.02	120.20
36	5	2373	A	O5'-P-OP1	-12.53	94.42	105.70
36	1	1495	U	N1-C2-N3	12.47	122.38	114.90
36	5	922	U	N1-C2-N3	12.42	122.35	114.90
36	1	406	G	O4'-C1'-N9	12.35	118.08	108.20
36	5	877	C	N3-C4-C5	12.33	126.83	121.90
36	5	922	U	N3-C2-O2	-12.22	113.64	122.20
36	5	2639	G	C5-C6-O6	-12.21	121.28	128.60
36	1	1495	U	C4-C5-C6	12.16	127.00	119.70
1	2	1200	G	N1-C6-O6	12.02	127.11	119.90
1	6	352	A	O5'-P-OP1	-11.98	94.92	105.70
36	5	1307	G	P-O3'-C3'	11.93	134.01	119.70
36	1	1117	G	O5'-P-OP1	-11.88	95.01	105.70
36	5	2341	A	C8-N9-C4	11.73	110.49	105.80
36	1	979	U	C6-N1-C2	-11.67	114.00	121.00
36	1	817	A	O5'-P-OP1	-11.56	95.29	105.70
36	5	1371	G	N1-C6-O6	-11.55	112.97	119.90
36	5	1313	G	O5'-P-OP2	-11.46	95.39	105.70
36	1	1396	C	C6-N1-C2	11.44	124.88	120.30
36	1	3181	C	N3-C2-O2	-11.36	113.95	121.90
36	1	776	U	C4-C5-C6	11.35	126.51	119.70
36	5	2121	G	O5'-P-OP2	-11.33	95.50	105.70
36	1	2945	G	O5'-P-OP2	-11.28	95.55	105.70
1	6	1537	C	C6-N1-C2	-11.24	115.81	120.30
36	5	1513	G	C8-N9-C4	-11.23	101.91	106.40
36	5	3245	A	C5-N7-C8	-11.19	98.30	103.90
36	1	3305	A	O5'-P-OP2	-11.13	95.68	105.70
36	5	2315	G	O5'-P-OP1	-11.12	95.69	105.70
36	5	3140	G	C5-C6-O6	-11.01	122.00	128.60
36	1	2726	C	N3-C4-N4	-11.00	110.30	118.00
36	5	2726	C	C6-N1-C2	-10.92	115.93	120.30
36	1	968	G	C8-N9-C4	-10.89	102.05	106.40
36	1	3375	A	O5'-P-OP2	-10.71	96.06	105.70
36	1	2983	C	C5-C6-N1	-10.70	115.65	121.00
36	5	3245	A	C2-N3-C4	-10.70	105.25	110.60
36	1	2617	U	N1-C2-N3	10.64	121.29	114.90
36	5	2726	C	N3-C2-O2	-10.64	114.45	121.90
36	1	1216	C	C6-N1-C2	-10.46	116.12	120.30
1	2	1773	C	C6-N1-C2	-10.44	116.12	120.30
36	1	2983	C	C4-C5-C6	10.43	122.61	117.40
1	6	163	G	N3-C4-C5	10.43	133.81	128.60
36	5	2818	U	O5'-P-OP1	-10.28	96.45	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2860	U	C5-C6-N1	10.28	127.84	122.70
36	1	2726	C	N3-C2-O2	-10.26	114.72	121.90
1	6	337	G	C6-C5-N7	-10.24	124.26	130.40
1	6	542	A	N7-C8-N9	10.16	118.88	113.80
36	1	3362	A	C2-N3-C4	-10.13	105.53	110.60
1	6	1473	U	N3-C2-O2	-10.13	115.11	122.20
36	5	50	U	O5'-P-OP1	-10.12	96.59	105.70
36	1	709	A	C8-N9-C4	10.11	109.85	105.80
36	1	2983	C	C5-C4-N4	10.09	127.27	120.20
36	1	979	U	N3-C2-O2	-10.09	115.14	122.20
36	5	2899	C	C6-N1-C2	-10.08	116.27	120.30
36	5	3245	A	N7-C8-N9	10.05	118.83	113.80
36	5	1152	G	C5-C6-O6	-10.04	122.57	128.60
1	2	639	U	N3-C2-O2	-10.03	115.18	122.20
36	1	2393	G	C5-C6-O6	-10.02	122.59	128.60
1	6	609	U	C5-C4-O4	10.02	131.91	125.90
1	6	1537	C	N3-C4-C5	-10.02	117.89	121.90
36	1	2617	U	C4-C5-C6	10.01	125.71	119.70
1	2	553	G	C6-C5-N7	-10.01	124.39	130.40
36	5	437	G	C8-N9-C4	-9.99	102.41	106.40
36	5	776	U	N3-C2-O2	-9.97	115.22	122.20
36	1	818	C	C6-N1-C2	-9.96	116.31	120.30
36	1	2726	C	C5-C4-N4	9.96	127.17	120.20
1	2	1560	U	N3-C2-O2	-9.96	115.23	122.20
36	5	2634	U	C2-N3-C4	-9.95	121.03	127.00
36	5	2954	U	N3-C4-O4	9.94	126.36	119.40
36	5	835	G	O4'-C1'-N9	9.92	116.14	108.20
36	5	922	U	C5-C4-O4	9.92	131.85	125.90
36	1	3344	A	N7-C8-N9	9.90	118.75	113.80
36	1	2936	A	O5'-P-OP1	-9.89	96.80	105.70
36	1	895	A	C5-N7-C8	-9.88	98.96	103.90
36	1	2983	C	N3-C4-N4	-9.86	111.10	118.00
1	2	1200	G	C5-C6-O6	-9.82	122.71	128.60
36	1	2846	U	N3-C2-O2	-9.81	115.33	122.20
36	1	960	U	N3-C4-O4	-9.80	112.54	119.40
36	5	3012	A	C8-N9-C4	9.74	109.70	105.80
1	2	1783	C	O5'-P-OP2	-9.73	96.94	105.70
36	5	2899	C	N1-C2-N3	9.72	126.01	119.20
37	7	120	C	C6-N1-C2	9.72	124.19	120.30
36	1	2617	U	C5-C6-N1	-9.71	117.84	122.70
36	5	1165	A	O5'-P-OP2	-9.70	96.97	105.70
36	5	1419	A	O5'-P-OP2	-9.70	96.97	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	553	G	C5-C6-O6	-9.69	122.79	128.60
36	1	942	U	OP1-P-OP2	-9.69	105.07	119.60
1	6	144	U	N3-C2-O2	-9.68	115.42	122.20
36	5	776	U	N1-C2-N3	9.67	120.70	114.90
36	1	67	A	O5'-P-OP1	-9.65	97.01	105.70
36	1	792	G	O5'-P-OP1	-9.65	97.01	105.70
37	3	86	U	C5-C4-O4	-9.64	120.11	125.90
36	5	2941	A	O4'-C1'-N9	-9.63	100.50	108.20
1	6	337	G	C4-C5-N7	9.60	114.64	110.80
36	1	439	C	C2-N1-C1'	9.53	129.28	118.80
36	1	639	G	N1-C6-O6	9.51	125.61	119.90
36	1	2621	G	N3-C2-N2	-9.50	113.25	119.90
36	5	2833	A	N1-C6-N6	-9.50	112.90	118.60
36	5	1117	G	O5'-P-OP1	-9.49	97.16	105.70
36	1	1495	U	N3-C2-O2	-9.47	115.57	122.20
36	1	801	A	O5'-P-OP2	-9.47	97.18	105.70
1	2	453	U	N3-C2-O2	-9.45	115.59	122.20
36	5	719	U	N1-C2-O2	9.45	129.41	122.80
36	5	2954	U	C2-N1-C1'	9.44	129.02	117.70
36	5	1879	A	O5'-P-OP1	9.42	122.00	110.70
1	6	1773	C	N3-C4-N4	9.41	124.59	118.00
36	1	521	A	N1-C6-N6	9.41	124.24	118.60
36	1	960	U	N3-C4-C5	9.40	120.24	114.60
36	5	1847	A	O5'-P-OP2	-9.39	97.25	105.70
1	6	453	U	N3-C2-O2	-9.38	115.64	122.20
36	1	2827	U	C5-C4-O4	9.37	131.52	125.90
1	2	1773	C	N3-C4-C5	-9.36	118.16	121.90
36	5	2619	G	C5-C6-O6	-9.32	123.01	128.60
36	5	1461	A	C8-N9-C4	9.31	109.52	105.80
36	1	980	A	C8-N9-C4	-9.31	102.08	105.80
36	5	960	U	C5-C6-N1	-9.30	118.05	122.70
36	1	3209	A	N1-C6-N6	9.30	124.18	118.60
36	5	2988	C	C2-N3-C4	-9.30	115.25	119.90
1	6	973	A	O5'-P-OP2	-9.30	97.33	105.70
36	1	2412	G	C8-N9-C4	-9.29	102.68	106.40
37	3	88	G	N1-C6-O6	-9.29	114.32	119.90
36	1	406	G	O5'-P-OP2	-9.28	97.35	105.70
36	5	955	U	C5-C4-O4	-9.27	120.33	125.90
36	5	2290	C	C5-C6-N1	-9.26	116.37	121.00
36	1	2375	G	C8-N9-C4	9.25	110.10	106.40
36	1	979	U	N1-C2-N3	9.24	120.44	114.90
36	5	1115	G	C8-N9-C4	-9.23	102.71	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2341	A	N7-C8-N9	-9.23	109.18	113.80
36	5	519	A	N1-C6-N6	9.23	124.14	118.60
1	2	453	U	N1-C2-O2	9.22	129.25	122.80
36	5	864	G	O5'-P-OP2	-9.22	97.40	105.70
36	5	2136	C	C2-N3-C4	-9.22	115.29	119.90
36	1	2306	C	N1-C2-O2	9.21	124.43	118.90
1	6	434	G	O5'-P-OP2	-9.17	97.44	105.70
36	1	2600	C	N1-C2-O2	9.17	124.40	118.90
36	1	2343	C	N3-C4-C5	9.16	125.56	121.90
1	6	308	C	C2-N3-C4	-9.15	115.33	119.90
36	5	2634	U	N1-C2-N3	9.13	120.38	114.90
1	2	1596	C	N3-C2-O2	-9.11	115.52	121.90
36	1	591	G	C5-C6-O6	-9.11	123.13	128.60
36	1	3181	C	C5-C4-N4	9.11	126.58	120.20
36	5	2327	U	C5-C6-N1	-9.11	118.15	122.70
36	1	776	U	N1-C2-N3	9.10	120.36	114.90
36	5	2572	C	N1-C2-O2	9.09	124.36	118.90
36	5	1419	A	O5'-P-OP1	9.08	121.60	110.70
36	5	2375	G	N1-C6-O6	-9.07	114.46	119.90
36	1	2983	C	N3-C2-O2	-9.04	115.57	121.90
36	1	919	U	O5'-P-OP1	9.04	121.55	110.70
36	5	2392	C	C2-N3-C4	-9.04	115.38	119.90
36	5	922	U	N3-C4-O4	-9.03	113.08	119.40
36	1	2891	U	C5-C4-O4	-9.03	120.48	125.90
36	1	1296	C	C6-N1-C2	-9.02	116.69	120.30
36	1	53	G	C8-N9-C4	9.01	110.00	106.40
36	1	1168	U	N1-C2-O2	9.01	129.11	122.80
36	1	960	U	C2-N1-C1'	-9.00	106.90	117.70
36	5	965	A	O5'-P-OP2	-9.00	97.60	105.70
36	5	945	C	C6-N1-C2	8.99	123.90	120.30
36	5	1301	A	N1-C6-N6	8.98	123.99	118.60
36	1	2572	C	N1-C2-O2	8.97	124.28	118.90
36	1	1316	C	N1-C2-O2	-8.97	113.52	118.90
36	5	406	G	O4'-C1'-N9	8.96	115.37	108.20
36	1	3306	U	N3-C2-O2	-8.95	115.94	122.20
36	5	960	U	C2-N3-C4	-8.94	121.63	127.00
36	1	776	U	C5-C6-N1	-8.94	118.23	122.70
52	M6	110	PRO	C-N-CD	-8.93	100.95	120.60
36	5	776	U	C4-C5-C6	8.92	125.05	119.70
36	5	2965	U	N1-C2-O2	-8.92	116.56	122.80
36	1	3214	U	C5-C4-O4	8.90	131.24	125.90
1	6	44	U	N1-C2-O2	-8.90	116.57	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1189	C	N1-C2-O2	-8.89	113.56	118.90
36	1	1400	G	O5'-P-OP2	-8.88	97.70	105.70
36	5	3093	C	C6-N1-C2	8.88	123.85	120.30
36	1	3181	C	C6-N1-C2	-8.87	116.75	120.30
36	1	2846	U	C5-C4-O4	8.87	131.22	125.90
36	5	3140	G	N1-C6-O6	8.87	125.22	119.90
37	7	98	C	O5'-P-OP2	-8.86	97.72	105.70
36	5	1307	G	O5'-P-OP1	-8.86	97.73	105.70
36	1	1405	U	C5-C6-N1	-8.85	118.28	122.70
1	6	647	G	N3-C4-N9	-8.85	120.69	126.00
40	l3	19	ARG	NE-CZ-NH2	-8.85	115.88	120.30
36	5	2953	U	C5-C4-O4	-8.82	120.61	125.90
36	1	1904	C	C6-N1-C2	-8.79	116.78	120.30
36	1	2400	G	C6-C5-N7	-8.78	125.14	130.40
36	1	2897	A	C8-N9-C4	8.77	109.31	105.80
36	1	3344	A	C8-N9-C4	-8.77	102.29	105.80
36	5	2870	C	N3-C4-C5	8.76	125.40	121.90
36	1	2617	U	N3-C2-O2	-8.73	116.09	122.20
36	1	639	G	C5-C6-O6	-8.72	123.37	128.60
36	5	1152	G	C4-C5-N7	8.72	114.29	110.80
36	1	835	G	O4'-C1'-N9	8.71	115.17	108.20
36	1	960	U	C6-N1-C2	8.71	126.22	121.00
1	6	1100	G	N3-C4-N9	8.70	131.22	126.00
36	1	1405	U	C2-N3-C4	-8.70	121.78	127.00
36	5	1305	U	C5-C4-O4	-8.70	120.68	125.90
1	6	542	A	C8-N9-C4	-8.68	102.33	105.80
36	1	1396	C	N3-C4-C5	8.68	125.37	121.90
36	5	2827	U	O4'-C1'-N1	8.67	115.14	108.20
36	1	3362	A	C5-N7-C8	-8.67	99.56	103.90
36	5	2923	U	O5'-P-OP1	-8.67	97.90	105.70
36	1	1494	U	C5-C6-N1	-8.66	118.37	122.70
36	1	885	U	C5-C6-N1	-8.65	118.37	122.70
36	5	2393	G	N1-C6-O6	8.65	125.09	119.90
65	n9	23	LYS	C-N-CD	8.65	146.56	128.40
36	1	1127	G	N1-C6-O6	8.64	125.09	119.90
1	2	1291	G	N7-C8-N9	8.64	117.42	113.10
36	5	2639	G	N1-C6-O6	8.63	125.08	119.90
36	1	2714	G	C2-N3-C4	-8.63	107.59	111.90
36	1	2884	C	N3-C4-C5	8.63	125.35	121.90
12	C0	88	PRO	N-CA-CB	8.61	113.63	103.30
36	5	947	G	N3-C4-C5	-8.60	124.30	128.60
36	5	2634	U	C5-C4-O4	-8.60	120.74	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3217	C	C2-N1-C1'	8.60	128.26	118.80
36	1	2797	C	O5'-P-OP1	-8.59	97.97	105.70
36	1	2391	G	N1-C6-O6	-8.59	114.75	119.90
36	1	2617	U	N3-C4-O4	-8.59	113.39	119.40
1	6	402	C	O5'-P-OP2	-8.58	97.98	105.70
36	1	1838	G	C5-C6-O6	-8.57	123.46	128.60
36	1	280	U	C5-C4-O4	-8.57	120.76	125.90
36	5	1879	A	N1-C6-N6	8.56	123.74	118.60
1	6	163	G	C2-N3-C4	-8.56	107.62	111.90
36	5	1482	A	O5'-P-OP2	-8.55	98.00	105.70
36	5	1879	A	C5-N7-C8	-8.55	99.63	103.90
36	5	2726	C	N3-C4-C5	-8.55	118.48	121.90
36	5	1159	A	O5'-P-OP1	-8.54	98.01	105.70
36	5	2797	C	N1-C2-O2	-8.54	113.77	118.90
36	5	2244	A	O5'-P-OP1	8.54	120.94	110.70
36	1	2222	A	C8-N9-C4	-8.53	102.39	105.80
36	5	636	C	C2-N3-C4	-8.53	115.64	119.90
36	1	776	U	C5-C4-O4	8.51	131.01	125.90
36	5	420	G	N3-C4-C5	-8.51	124.35	128.60
36	5	1192	C	N3-C4-N4	8.51	123.95	118.00
36	5	922	U	C5-C6-N1	-8.50	118.45	122.70
36	5	3154	C	N1-C2-O2	8.50	124.00	118.90
36	1	3092	C	C6-N1-C2	8.49	123.69	120.30
36	1	196	G	C5-C6-O6	-8.48	123.51	128.60
36	1	2400	G	N9-C4-C5	-8.48	102.01	105.40
36	1	1049	C	O5'-P-OP2	-8.48	98.07	105.70
36	1	635	G	C5-C6-O6	-8.48	123.51	128.60
36	1	65	A	P-O3'-C3'	8.48	129.87	119.70
36	1	2836	C	C5-C4-N4	8.47	126.13	120.20
36	1	2983	C	C2-N3-C4	-8.47	115.66	119.90
36	5	776	U	C5-C6-N1	-8.47	118.46	122.70
36	5	216	G	N1-C6-O6	8.46	124.98	119.90
36	5	3218	A	N1-C6-N6	8.46	123.68	118.60
36	5	2392	C	N1-C2-O2	-8.46	113.82	118.90
36	1	1446	A	O5'-P-OP1	-8.45	98.10	105.70
36	1	3278	C	N3-C2-O2	-8.45	115.99	121.90
36	1	966	U	N3-C2-O2	-8.44	116.29	122.20
36	5	2272	G	O4'-C1'-N9	8.44	114.95	108.20
36	1	3181	C	N3-C4-N4	-8.44	112.09	118.00
1	6	543	C	C5-C6-N1	8.43	125.22	121.00
36	5	437	G	N9-C4-C5	8.43	108.77	105.40
36	5	1879	A	C4-C5-N7	8.42	114.91	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2340	U	N3-C4-C5	8.42	119.65	114.60
36	5	2136	C	C5-C6-N1	-8.42	116.79	121.00
38	8	32	C	N1-C2-O2	-8.42	113.85	118.90
36	1	970	A	C8-N9-C4	-8.40	102.44	105.80
36	5	907	G	O5'-P-OP1	-8.40	98.14	105.70
37	7	49	G	N1-C6-O6	8.40	124.94	119.90
36	1	2679	A	C2-N3-C4	-8.39	106.40	110.60
36	1	706	A	O5'-P-OP1	-8.39	98.15	105.70
36	5	644	G	C2-N3-C4	8.39	116.09	111.90
36	5	2933	A	O5'-P-OP2	-8.37	98.17	105.70
36	1	2572	C	C2-N1-C1'	8.37	128.00	118.80
1	2	402	C	O5'-P-OP1	-8.36	98.18	105.70
36	1	2614	G	N7-C8-N9	-8.36	108.92	113.10
36	5	1192	C	C5-C4-N4	-8.35	114.36	120.20
36	5	3140	G	O5'-P-OP2	-8.35	98.19	105.70
36	1	895	A	N7-C8-N9	8.35	117.97	113.80
36	1	1405	U	N3-C4-C5	8.33	119.60	114.60
36	1	2790	A	O5'-P-OP2	-8.31	98.22	105.70
36	1	2887	A	O5'-P-OP2	-8.30	98.23	105.70
36	1	2393	G	O5'-P-OP2	-8.30	98.23	105.70
36	5	2383	C	N1-C2-O2	-8.30	113.92	118.90
36	1	1127	G	C5-C6-O6	-8.30	123.62	128.60
1	6	543	C	C6-N1-C2	-8.28	116.99	120.30
36	5	2314	U	C5-C4-O4	-8.27	120.94	125.90
36	1	2836	C	C4-C5-C6	8.27	121.53	117.40
36	1	1405	U	C6-N1-C2	8.27	125.96	121.00
36	1	1904	C	C5-C6-N1	8.26	125.13	121.00
36	1	3214	U	N3-C2-O2	-8.26	116.42	122.20
36	1	3344	A	C5-N7-C8	-8.25	99.77	103.90
36	5	1308	A	O5'-P-OP2	8.25	120.60	110.70
36	1	3275	U	C5-C6-N1	8.24	126.82	122.70
36	5	41	G	N1-C6-O6	8.24	124.84	119.90
36	5	2393	G	N9-C4-C5	-8.23	102.11	105.40
36	1	398	A	N1-C6-N6	8.23	123.54	118.60
36	1	1838	G	N1-C6-O6	8.23	124.84	119.90
36	1	3362	A	O4'-C1'-N9	8.22	114.77	108.20
41	L4	327	LEU	CA-CB-CG	8.21	134.19	115.30
36	5	420	G	N3-C4-N9	8.21	130.93	126.00
36	5	3013	U	O5'-P-OP2	-8.22	98.31	105.70
36	5	2704	A	O5'-P-OP1	-8.21	98.31	105.70
36	5	2323	G	C8-N9-C4	-8.21	103.12	106.40
36	5	282	G	P-O3'-C3'	8.20	129.53	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2279	A	N9-C4-C5	-8.19	102.52	105.80
36	1	3362	A	N7-C8-N9	8.19	117.89	113.80
36	1	2614	G	C8-N9-C4	8.18	109.67	106.40
36	5	922	U	C2-N3-C4	-8.17	122.10	127.00
36	1	1196	C	C6-N1-C2	8.16	123.57	120.30
36	1	709	A	N9-C4-C5	-8.16	102.53	105.80
36	1	2816	G	C5-C6-N1	8.16	115.58	111.50
36	5	2278	C	C6-N1-C2	-8.16	117.03	120.30
36	5	2142	A	O5'-P-OP2	8.16	120.50	110.70
36	1	1433	A	C5-C6-N1	8.16	121.78	117.70
36	1	2818	U	O5'-P-OP2	-8.16	98.36	105.70
36	1	1891	A	C8-N9-C4	8.15	109.06	105.80
36	1	2864	A	O5'-P-OP1	-8.14	98.37	105.70
36	5	2988	C	C5-C6-N1	-8.14	116.93	121.00
36	1	1902	G	C5-C6-O6	-8.13	123.72	128.60
38	4	113	U	N1-C2-N3	8.14	119.78	114.90
1	6	542	A	O5'-P-OP1	-8.12	98.40	105.70
36	1	334	A	C8-N9-C4	-8.11	102.56	105.80
36	1	2726	C	N1-C2-N3	8.11	124.88	119.20
36	5	966	U	N3-C2-O2	-8.11	116.52	122.20
36	5	883	A	C8-N9-C4	8.11	109.04	105.80
36	5	3140	G	C6-C5-N7	-8.10	125.54	130.40
1	6	1634	C	N1-C2-O2	8.08	123.75	118.90
36	5	92	G	N1-C6-O6	-8.08	115.05	119.90
36	5	890	C	O5'-P-OP2	-8.08	98.43	105.70
36	5	955	U	C2-N3-C4	-8.07	122.16	127.00
36	5	1181	U	C5-C6-N1	-8.07	118.67	122.70
36	5	3245	A	C4-C5-N7	8.07	114.73	110.70
36	5	2728	G	O5'-P-OP2	-8.06	98.44	105.70
1	6	1773	C	N1-C2-O2	-8.06	114.06	118.90
36	5	2572	C	C2-N1-C1'	8.06	127.67	118.80
36	5	2701	U	C5-C4-O4	-8.06	121.06	125.90
1	6	1773	C	C4-C5-C6	8.06	121.43	117.40
36	1	3306	U	N3-C4-O4	-8.04	113.77	119.40
36	5	283	G	C5-C6-O6	-8.04	123.78	128.60
36	5	631	U	N3-C2-O2	-8.04	116.57	122.20
36	1	345	G	O5'-P-OP2	-8.02	98.49	105.70
36	1	421	G	N3-C4-N9	8.01	130.81	126.00
36	5	339	C	N1-C2-O2	-8.01	114.09	118.90
36	1	650	C	N1-C2-O2	-8.00	114.10	118.90
36	5	417	A	N1-C6-N6	-8.00	113.80	118.60
36	5	960	U	N3-C2-O2	-8.00	116.60	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	881	C	C5-C6-N1	8.00	125.00	121.00
36	5	2945	G	O5'-P-OP1	7.99	120.29	110.70
36	5	838	G	N1-C6-O6	-7.99	115.11	119.90
39	12	246	LEU	CA-CB-CG	7.98	133.66	115.30
37	7	44	C	N1-C2-O2	-7.98	114.11	118.90
36	1	2614	G	C5-N7-C8	7.97	108.29	104.30
36	5	2372	A	C8-N9-C4	-7.97	102.61	105.80
36	1	1881	A	C8-N9-C4	7.96	108.99	105.80
36	1	112	U	C2-N1-C1'	7.95	127.25	117.70
36	5	3140	G	N9-C4-C5	-7.95	102.22	105.40
36	1	645	A	C6-N1-C2	-7.95	113.83	118.60
36	1	2298	U	C5-C6-N1	-7.95	118.73	122.70
36	5	3362	A	N7-C8-N9	7.94	117.77	113.80
36	1	1434	G	O5'-P-OP1	-7.93	98.56	105.70
36	1	2411	U	N3-C4-C5	7.92	119.36	114.60
36	5	1152	G	C4-C5-C6	-7.92	114.05	118.80
36	1	2400	G	N1-C6-O6	7.92	124.65	119.90
36	1	218	G	O5'-P-OP2	-7.91	98.58	105.70
36	1	1381	A	O5'-P-OP2	7.91	120.19	110.70
36	5	585	A	O5'-P-OP2	-7.91	98.58	105.70
36	1	1313	G	C4-C5-N7	7.91	113.96	110.80
37	7	101	G	N1-C6-O6	7.90	124.64	119.90
36	5	2290	C	C6-N1-C2	7.90	123.46	120.30
36	5	3308	C	N1-C2-O2	-7.89	114.16	118.90
36	1	968	G	N7-C8-N9	7.89	117.05	113.10
36	5	1848	G	C5-C6-O6	-7.89	123.87	128.60
36	5	3144	G	C8-N9-C4	-7.89	103.24	106.40
36	5	2882	U	O5'-P-OP2	-7.89	98.60	105.70
36	1	645	A	C2-N3-C4	7.89	114.54	110.60
36	1	1307	G	N1-C6-O6	-7.89	115.17	119.90
36	1	2606	G	N3-C4-N9	7.88	130.73	126.00
36	1	2723	U	N1-C2-O2	-7.88	117.28	122.80
36	1	2809	C	N1-C2-O2	7.87	123.62	118.90
36	5	974	G	N3-C4-C5	-7.87	124.66	128.60
36	5	3362	A	O4'-C1'-N9	7.87	114.50	108.20
36	5	2726	C	N3-C4-N4	-7.86	112.50	118.00
36	1	2809	C	N3-C2-O2	-7.86	116.40	121.90
1	6	337	G	C8-N9-C1'	-7.86	116.78	127.00
36	1	1902	G	C4-C5-N7	7.86	113.94	110.80
36	1	2362	C	O5'-P-OP2	-7.86	98.63	105.70
36	1	2938	G	O5'-P-OP1	-7.86	98.63	105.70
36	1	2824	G	O5'-P-OP2	-7.85	98.64	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2392	C	C5-C4-N4	-7.85	114.71	120.20
36	5	1390	A	C8-N9-C4	-7.83	102.67	105.80
36	1	903	U	N3-C2-O2	-7.83	116.72	122.20
36	1	3057	U	C5-C4-O4	7.82	130.59	125.90
36	5	938	C	N3-C4-C5	7.82	125.03	121.90
31	D9	36	LEU	CA-CB-CG	7.81	133.27	115.30
36	5	3362	A	C5-N7-C8	-7.81	100.00	103.90
1	6	308	C	C5-C6-N1	-7.80	117.10	121.00
1	6	1039	A	O4'-C1'-N9	7.80	114.44	108.20
1	6	314	C	O5'-P-OP1	-7.80	98.68	105.70
36	1	716	A	N1-C6-N6	7.80	123.28	118.60
36	1	2192	C	O5'-P-OP2	-7.80	98.68	105.70
36	1	1495	U	C5-C4-O4	7.79	130.58	125.90
36	1	641	C	N3-C4-C5	7.79	125.02	121.90
36	1	1495	U	C2-N3-C4	-7.79	122.33	127.00
36	1	3057	U	N3-C4-O4	-7.78	113.95	119.40
36	1	806	A	O5'-P-OP1	-7.77	98.71	105.70
1	6	25	C	C6-N1-C2	-7.76	117.20	120.30
36	5	2953	U	N3-C4-O4	7.76	124.83	119.40
10	S8	29	LEU	CA-CB-CG	7.75	133.13	115.30
36	1	3217	C	C6-N1-C1'	-7.75	111.50	120.80
36	1	3218	A	C8-N9-C4	-7.75	102.70	105.80
36	5	1004	U	N1-C2-O2	7.75	128.22	122.80
36	1	988	U	C5-C6-N1	-7.75	118.83	122.70
36	5	1902	G	C5-C6-O6	-7.74	123.96	128.60
37	7	85	G	N1-C6-O6	-7.74	115.26	119.90
36	5	2634	U	N1-C2-O2	-7.73	117.39	122.80
36	1	346	C	C5-C6-N1	-7.73	117.13	121.00
36	1	3181	C	N1-C2-N3	7.73	124.61	119.20
36	5	3218	A	C4-C5-N7	7.73	114.56	110.70
36	1	1918	C	C6-N1-C2	-7.73	117.21	120.30
38	4	94	C	C6-N1-C2	7.72	123.39	120.30
37	7	85	G	O5'-P-OP2	7.72	119.97	110.70
36	1	521	A	C5-C6-N6	-7.72	117.52	123.70
1	6	17	C	C6-N1-C2	-7.72	117.21	120.30
36	5	2572	C	N3-C2-O2	-7.72	116.50	121.90
36	5	3306	U	N3-C4-C5	7.71	119.23	114.60
36	5	1115	G	C4-N9-C1'	7.71	136.52	126.50
36	5	2315	G	C8-N9-C4	7.71	109.48	106.40
1	6	1596	C	N3-C2-O2	-7.70	116.51	121.90
36	5	2211	U	N1-C2-N3	7.70	119.52	114.90
36	5	283	G	OP1-P-OP2	-7.70	108.05	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1600	A	C2-N3-C4	-7.70	106.75	110.60
1	6	609	U	C5-C6-N1	-7.70	118.85	122.70
36	5	2393	G	O5'-P-OP2	-7.69	98.78	105.70
36	5	2874	G	C5-C6-O6	7.69	133.22	128.60
36	1	1556	C	N3-C2-O2	-7.69	116.52	121.90
38	4	113	U	N3-C2-O2	-7.68	116.82	122.20
36	5	3140	G	C4-C5-N7	7.68	113.87	110.80
36	1	3109	G	N1-C6-O6	-7.68	115.29	119.90
1	6	158	U	P-O3'-C3'	7.68	128.91	119.70
1	2	1339	C	P-O3'-C3'	7.67	128.91	119.70
1	6	1537	C	N1-C2-O2	-7.67	114.30	118.90
36	1	1847	A	OP1-P-OP2	7.66	131.10	119.60
36	1	958	C	C2-N3-C4	-7.66	116.07	119.90
36	5	1337	A	C8-N9-C4	-7.66	102.73	105.80
36	5	3154	C	C5-C6-N1	7.66	124.83	121.00
1	6	453	U	N1-C2-O2	7.66	128.16	122.80
36	1	2600	C	N3-C2-O2	-7.65	116.54	121.90
36	1	2870	C	C2-N1-C1'	-7.65	110.38	118.80
36	5	2211	U	C4-C5-C6	7.65	124.29	119.70
36	1	922	U	N1-C2-O2	7.65	128.16	122.80
1	2	830	U	N3-C2-O2	-7.64	116.85	122.20
36	1	2983	C	N1-C2-N3	7.64	124.55	119.20
36	1	2513	U	O4'-C1'-N1	7.64	114.31	108.20
36	1	908	G	O4'-C1'-N9	-7.64	102.09	108.20
36	1	2372	A	C2-N3-C4	7.64	114.42	110.60
1	6	194	U	C2-N1-C1'	7.64	126.86	117.70
36	1	2139	A	N1-C6-N6	-7.63	114.02	118.60
1	6	1634	C	C2-N1-C1'	7.63	127.19	118.80
36	1	895	A	C4-C5-N7	7.63	114.51	110.70
36	1	2621	G	N1-C6-O6	7.62	124.47	119.90
36	5	2340	U	N3-C4-O4	-7.62	114.06	119.40
36	1	3209	A	N9-C4-C5	-7.62	102.75	105.80
36	5	1513	G	N7-C8-N9	7.62	116.91	113.10
36	5	283	G	C4-C5-N7	7.62	113.85	110.80
36	1	2975	U	N3-C4-C5	7.61	119.17	114.60
36	5	580	C	C6-N1-C2	-7.61	117.25	120.30
36	5	1390	A	N9-C4-C5	7.61	108.84	105.80
1	6	337	G	C4-N9-C1'	7.61	136.39	126.50
36	5	1370	G	N1-C6-O6	-7.61	115.33	119.90
36	5	2955	U	N3-C2-O2	-7.61	116.88	122.20
36	5	2393	G	C5-C6-O6	-7.61	124.04	128.60
36	5	2405	C	C2-N3-C4	-7.61	116.10	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1493	G	O4'-C1'-N9	7.60	114.28	108.20
36	5	2290	C	C2-N3-C4	-7.60	116.10	119.90
36	1	1144	U	C2-N3-C4	-7.59	122.44	127.00
36	1	2404	A	C2-N3-C4	7.59	114.39	110.60
36	1	2978	U	O5'-P-OP2	-7.59	98.87	105.70
1	2	75	U	N1-C2-O2	7.58	128.11	122.80
36	1	2816	G	C5-C6-O6	-7.58	124.05	128.60
1	2	1291	G	C8-N9-C4	-7.57	103.37	106.40
36	5	2858	U	N3-C2-O2	-7.57	116.90	122.20
36	5	1308	A	O5'-P-OP1	-7.57	98.89	105.70
36	1	2687	G	N1-C6-O6	-7.56	115.36	119.90
36	1	609	G	O5'-P-OP2	-7.56	98.90	105.70
36	1	2827	U	C6-N1-C1'	7.56	131.78	121.20
36	5	3336	A	N1-C6-N6	7.56	123.14	118.60
38	4	30	C	O5'-P-OP1	-7.56	98.90	105.70
36	5	838	G	C5-C6-O6	7.56	133.13	128.60
36	1	847	A	N1-C6-N6	7.55	123.13	118.60
36	5	1057	A	N1-C6-N6	7.55	123.13	118.60
36	1	2222	A	N9-C4-C5	7.55	108.82	105.80
36	5	1307	G	OP1-P-O3'	-7.55	88.59	105.20
36	5	3154	C	C2-N1-C1'	7.55	127.10	118.80
36	1	646	A	O5'-P-OP2	-7.54	98.91	105.70
36	5	2393	G	C8-N9-C4	7.54	109.42	106.40
36	1	1212	A	O5'-P-OP2	-7.54	98.92	105.70
1	2	453	U	C2-N1-C1'	7.54	126.74	117.70
36	1	1342	C	N3-C4-C5	7.54	124.92	121.90
36	5	2343	C	N3-C4-C5	7.54	124.92	121.90
36	1	3092	C	O5'-P-OP1	-7.54	98.92	105.70
36	1	1007	U	C5-C4-O4	-7.53	121.38	125.90
36	5	2352	A	N1-C2-N3	7.53	133.07	129.30
1	6	448	C	C6-N1-C2	-7.53	117.29	120.30
36	1	2130	G	C5-C6-O6	7.53	133.12	128.60
36	1	3143	C	C6-N1-C2	7.53	123.31	120.30
36	5	2821	C	N1-C2-O2	-7.53	114.38	118.90
36	5	993	G	O5'-P-OP2	-7.52	98.93	105.70
36	5	2812	C	O5'-P-OP1	-7.52	98.93	105.70
1	2	1560	U	C5-C4-O4	7.52	130.41	125.90
36	1	2114	C	O5'-P-OP2	-7.52	98.93	105.70
36	5	2797	C	N3-C2-O2	7.52	127.16	121.90
36	1	805	G	OP1-P-OP2	-7.52	108.33	119.60
36	1	1153	A	N1-C6-N6	7.52	123.11	118.60
36	1	1349	G	N3-C4-N9	7.51	130.51	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2424	A	N1-C6-N6	7.51	123.11	118.60
36	1	2409	G	C8-N9-C4	-7.51	103.39	106.40
36	1	2884	C	C6-N1-C2	7.50	123.30	120.30
36	1	1117	G	C5-C6-O6	-7.50	124.10	128.60
36	1	1484	U	P-O3'-C3'	7.50	128.70	119.70
1	6	358	U	O5'-P-OP1	-7.50	98.95	105.70
36	5	971	G	C5-N7-C8	7.49	108.05	104.30
1	2	1291	G	N1-C2-N3	7.48	128.39	123.90
36	1	931	C	N3-C4-C5	7.48	124.89	121.90
36	5	2620	G	C5-C6-N1	7.48	115.24	111.50
36	1	867	G	N3-C2-N2	-7.48	114.67	119.90
36	5	362	U	N1-C2-N3	7.48	119.39	114.90
36	1	2370	G	O5'-P-OP2	-7.48	98.97	105.70
36	1	645	A	N3-C4-C5	-7.47	121.57	126.80
36	5	1113	G	C2-N3-C4	-7.46	108.17	111.90
1	6	163	G	N3-C2-N2	-7.46	114.68	119.90
1	6	1537	C	C6-N1-C1'	7.46	129.75	120.80
10	s8	29	LEU	CA-CB-CG	7.46	132.45	115.30
36	1	347	G	C5-C6-N1	7.45	115.23	111.50
36	5	1848	G	N1-C6-O6	7.45	124.37	119.90
36	1	200	C	N1-C2-O2	7.45	123.37	118.90
36	1	2522	G	C4-N9-C1'	7.45	136.18	126.50
36	1	2384	A	N1-C6-N6	7.44	123.07	118.60
1	6	609	U	N3-C2-O2	-7.44	116.99	122.20
1	2	553	G	N3-C2-N2	-7.44	114.69	119.90
36	1	718	G	N3-C4-C5	7.44	132.32	128.60
36	1	591	G	C5-C6-N1	7.43	115.22	111.50
36	5	35	A	N9-C4-C5	-7.43	102.83	105.80
1	2	402	C	C6-N1-C2	7.43	123.27	120.30
36	1	2283	G	N3-C2-N2	-7.43	114.70	119.90
36	5	675	C	N1-C2-O2	-7.43	114.44	118.90
36	5	2726	C	N1-C2-N3	7.43	124.40	119.20
36	1	716	A	N9-C4-C5	-7.42	102.83	105.80
36	1	648	C	O5'-P-OP1	-7.42	99.02	105.70
36	5	65	A	O5'-P-OP2	-7.42	99.02	105.70
36	1	1082	U	C5-C6-N1	7.42	126.41	122.70
36	1	2944	U	N1-C2-O2	7.42	127.99	122.80
36	5	2814	G	C4-C5-N7	7.42	113.77	110.80
36	5	2314	U	N3-C4-O4	7.41	124.59	119.40
36	5	1888	U	C4-C5-C6	7.41	124.15	119.70
36	1	2952	G	N1-C6-O6	7.40	124.34	119.90
36	1	1433	A	C6-N1-C2	-7.40	114.16	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	348	A	O5'-P-OP1	-7.39	99.05	105.70
36	5	65	A	P-O3'-C3'	7.39	128.57	119.70
36	1	2179	C	N3-C4-C5	7.39	124.86	121.90
36	5	3309	G	N3-C4-C5	-7.38	124.91	128.60
36	1	369	A	C2-N3-C4	7.38	114.29	110.60
38	4	55	U	N3-C2-O2	-7.37	117.04	122.20
1	6	337	G	N9-C4-C5	-7.37	102.45	105.40
36	1	2409	G	C5-C6-O6	7.37	133.02	128.60
36	1	3278	C	N1-C2-O2	7.37	123.32	118.90
36	5	2938	G	O5'-P-OP1	-7.37	99.07	105.70
36	1	659	G	N3-C4-N9	7.37	130.42	126.00
1	6	1100	G	N3-C4-C5	-7.37	124.92	128.60
36	5	2821	C	N3-C2-O2	7.37	127.06	121.90
36	5	2860	U	N3-C2-O2	7.37	127.36	122.20
36	1	1556	C	C6-N1-C2	-7.37	117.35	120.30
36	5	1881	A	N1-C6-N6	7.36	123.02	118.60
40	l3	19	ARG	NE-CZ-NH1	7.36	123.98	120.30
37	3	10	C	O5'-P-OP2	-7.36	99.08	105.70
38	4	79	A	C8-N9-C4	-7.36	102.86	105.80
36	1	2384	A	N9-C4-C5	-7.35	102.86	105.80
36	1	2411	U	N3-C4-O4	-7.35	114.25	119.40
1	6	901	G	C4-C5-N7	7.35	113.74	110.80
36	5	2930	A	N1-C6-N6	-7.35	114.19	118.60
36	1	1148	G	C8-N9-C4	7.34	109.34	106.40
1	6	1535	U	N3-C2-O2	-7.34	117.06	122.20
36	1	2960	C	C5-C6-N1	-7.33	117.33	121.00
1	2	1096	C	C2-N1-C1'	7.33	126.86	118.80
36	5	915	A	C2-N3-C4	7.33	114.27	110.60
36	5	2135	U	C6-N1-C2	7.33	125.40	121.00
1	6	1145	U	O5'-P-OP2	-7.32	99.11	105.70
1	6	630	A	O5'-P-OP2	-7.32	99.11	105.70
36	1	2614	G	N1-C6-O6	-7.31	115.51	119.90
36	1	1124	U	C4-C5-C6	-7.30	115.32	119.70
36	1	1517	G	O5'-P-OP2	-7.30	99.13	105.70
36	5	3173	G	C5-C6-O6	-7.30	124.22	128.60
36	1	960	U	C5-C6-N1	-7.30	119.05	122.70
1	6	364	G	C8-N9-C4	7.30	109.32	106.40
36	5	423	A	C2-N3-C4	7.30	114.25	110.60
36	1	1329	U	N1-C1'-C2'	-7.30	103.97	112.00
1	6	542	A	C5-N7-C8	-7.30	100.25	103.90
36	5	2375	G	C5-C6-O6	7.29	132.97	128.60
36	5	3306	U	C6-N1-C2	7.29	125.38	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	M0	57	LEU	CA-CB-CG	7.29	132.07	115.30
36	5	2872	A	C8-N9-C4	7.28	108.71	105.80
36	5	1846	C	C2-N3-C4	-7.28	116.26	119.90
36	1	3050	U	N3-C2-O2	-7.28	117.11	122.20
36	5	1882	G	N1-C6-O6	-7.28	115.53	119.90
36	1	950	G	N9-C4-C5	-7.28	102.49	105.40
36	1	1841	A	C2-N3-C4	7.28	114.24	110.60
36	1	2400	G	C4-C5-N7	7.28	113.71	110.80
36	5	1506	A	C8-N9-C4	-7.28	102.89	105.80
36	5	297	G	O4'-C1'-N9	7.27	114.02	108.20
36	5	2814	G	C6-C5-N7	-7.27	126.04	130.40
36	5	2354	C	N1-C2-O2	-7.27	114.54	118.90
36	1	938	C	N3-C4-C5	7.27	124.81	121.90
36	5	2257	C	C6-N1-C2	-7.27	117.39	120.30
36	5	2954	U	C6-N1-C1'	-7.26	111.03	121.20
36	5	2288	G	C5-C6-N1	7.26	115.13	111.50
36	5	2300	G	N1-C6-O6	-7.26	115.54	119.90
36	5	2878	G	C5-C6-N1	7.25	115.12	111.50
36	1	909	G	C8-N9-C4	7.24	109.30	106.40
1	2	1432	U	C6-N1-C2	7.24	125.34	121.00
36	5	2353	G	N1-C6-O6	7.24	124.25	119.90
36	5	1083	G	O5'-P-OP1	-7.24	99.19	105.70
36	5	2643	A	N1-C2-N3	-7.24	125.68	129.30
36	1	2215	A	C8-N9-C4	7.23	108.69	105.80
36	5	1846	C	C5-C6-N1	-7.23	117.39	121.00
1	6	1560	U	N3-C2-O2	-7.22	117.14	122.20
1	2	1773	C	N3-C4-N4	7.22	123.06	118.00
36	1	439	C	C6-N1-C1'	-7.22	112.13	120.80
36	1	1319	G	N1-C6-O6	-7.22	115.57	119.90
36	5	644	G	N1-C2-N3	-7.22	119.57	123.90
36	1	806	A	N9-C4-C5	-7.21	102.91	105.80
36	1	1902	G	N9-C4-C5	-7.21	102.51	105.40
1	6	93	A	N1-C6-N6	7.21	122.93	118.60
36	5	776	U	C5-C4-O4	7.21	130.23	125.90
1	2	1560	U	N1-C2-N3	7.21	119.22	114.90
36	1	890	C	C6-N1-C2	-7.21	117.42	120.30
36	5	3245	A	C6-C5-N7	-7.21	127.26	132.30
36	5	3334	U	N3-C2-O2	-7.21	117.16	122.20
36	1	966	U	N1-C2-O2	7.20	127.84	122.80
36	1	1428	A	C8-N9-C4	-7.20	102.92	105.80
36	5	3060	C	N1-C2-O2	-7.20	114.58	118.90
36	1	1168	U	N3-C2-O2	-7.20	117.16	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2341	A	C5-N7-C8	7.19	107.50	103.90
36	1	1556	C	C2-N1-C1'	7.19	126.71	118.80
41	14	327	LEU	CA-CB-CG	7.19	131.84	115.30
36	1	1308	A	C8-N9-C4	-7.18	102.93	105.80
1	2	830	U	N1-C2-O2	7.18	127.83	122.80
36	1	517	G	C8-N9-C4	-7.18	103.53	106.40
36	1	946	U	N1-C2-N3	7.18	119.21	114.90
36	1	2735	U	N3-C4-C5	7.18	118.91	114.60
36	5	1513	G	N3-C4-C5	-7.18	125.01	128.60
36	5	3218	A	C5-N7-C8	-7.18	100.31	103.90
36	1	505	G	N9-C4-C5	7.18	108.27	105.40
36	1	421	G	O5'-P-OP1	-7.18	99.24	105.70
36	1	2798	C	N3-C4-C5	-7.18	119.03	121.90
36	1	324	A	C6-N1-C2	-7.17	114.30	118.60
36	5	2524	A	O4'-C1'-N9	7.17	113.94	108.20
36	5	3140	G	N3-C4-N9	7.17	130.30	126.00
36	1	716	A	C2-N3-C4	-7.17	107.02	110.60
36	1	777	U	O5'-P-OP2	-7.17	99.25	105.70
54	M8	138	LEU	CA-CB-CG	7.17	131.79	115.30
36	1	1316	C	C2-N3-C4	-7.17	116.32	119.90
1	6	163	G	C5-N7-C8	-7.17	100.72	104.30
1	2	1389	C	N1-C2-O2	7.16	123.20	118.90
36	1	2572	C	N3-C2-O2	-7.16	116.89	121.90
36	5	971	G	N7-C8-N9	-7.16	109.52	113.10
37	3	102	A	O5'-P-OP1	-7.16	99.25	105.70
36	5	952	A	N1-C6-N6	7.16	122.90	118.60
36	5	412	G	C8-N9-C4	-7.16	103.54	106.40
1	2	287	G	O4'-C1'-N9	7.15	113.92	108.20
36	1	24	G	C5-C6-O6	-7.15	124.31	128.60
36	1	3308	C	O5'-P-OP1	-7.15	99.27	105.70
36	1	770	G	O4'-C1'-N9	7.15	113.92	108.20
36	5	1437	C	C5-C6-N1	7.15	124.57	121.00
36	1	2679	A	O4'-C1'-N9	7.14	113.91	108.20
36	5	73	C	C6-N1-C2	7.14	123.16	120.30
36	5	343	U	C5-C6-N1	-7.14	119.13	122.70
36	5	3362	A	C8-N9-C4	-7.14	102.94	105.80
36	1	2138	A	C8-N9-C4	-7.14	102.94	105.80
36	1	2144	A	O4'-C1'-N9	7.14	113.91	108.20
36	5	645	A	C6-N1-C2	-7.14	114.32	118.60
36	1	76	G	N3-C4-C5	-7.14	125.03	128.60
1	2	1200	G	N3-C2-N2	-7.14	114.90	119.90
36	1	1082	U	C6-N1-C2	-7.14	116.72	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	818	C	C2-N3-C4	-7.13	116.33	119.90
36	5	1879	A	N7-C8-N9	7.13	117.37	113.80
36	5	2367	A	O5'-P-OP2	7.13	119.26	110.70
36	1	2827	U	C2-N1-C1'	-7.13	109.15	117.70
1	6	1124	A	C8-N9-C4	7.13	108.65	105.80
36	5	3185	U	C5-C6-N1	-7.13	119.14	122.70
36	5	1197	A	N1-C6-N6	7.12	122.88	118.60
36	1	2726	C	C5-C6-N1	-7.12	117.44	121.00
1	6	609	U	N3-C4-O4	-7.12	114.42	119.40
36	1	612	U	O5'-P-OP1	-7.11	99.30	105.70
36	1	945	C	N3-C4-N4	-7.11	113.02	118.00
1	2	1291	G	C5-N7-C8	-7.11	100.75	104.30
1	6	1150	G	N3-C4-C5	7.11	132.16	128.60
37	3	86	U	C2-N3-C4	-7.11	122.73	127.00
36	1	1409	G	N1-C6-O6	-7.11	115.64	119.90
1	6	1745	G	C5-C6-O6	-7.11	124.33	128.60
39	12	216	HIS	N-CA-C	-7.11	91.81	111.00
36	1	1581	C	N1-C2-O2	7.11	123.16	118.90
36	1	895	A	C2-N3-C4	-7.10	107.05	110.60
38	4	125	U	C2-N1-C1'	7.10	126.22	117.70
36	5	1208	U	C5-C4-O4	7.10	130.16	125.90
36	5	2817	A	O5'-P-OP1	7.10	119.22	110.70
36	1	810	A	N1-C6-N6	-7.10	114.34	118.60
36	5	637	C	N1-C2-O2	-7.10	114.64	118.90
1	6	272	U	P-O3'-C3'	7.09	128.21	119.70
1	6	453	U	C2-N1-C1'	7.09	126.21	117.70
36	1	2168	A	C8-N9-C4	7.09	108.64	105.80
1	2	1486	G	N7-C8-N9	7.09	116.64	113.10
36	1	874	U	N3-C4-C5	7.09	118.85	114.60
36	1	2958	A	O5'-P-OP2	-7.09	99.32	105.70
1	6	1651	A	O5'-P-OP2	-7.09	99.32	105.70
1	2	507	U	C2-N1-C1'	7.08	126.20	117.70
36	1	970	A	N9-C4-C5	7.08	108.63	105.80
36	1	659	G	N3-C4-C5	-7.08	125.06	128.60
1	2	639	U	N1-C2-O2	7.08	127.75	122.80
36	1	1437	C	C6-N1-C2	-7.08	117.47	120.30
36	1	2960	C	C2-N3-C4	-7.07	116.36	119.90
36	5	1841	A	O5'-P-OP2	-7.07	99.34	105.70
36	1	2298	U	C2-N3-C4	-7.07	122.76	127.00
36	5	882	A	O5'-P-OP2	-7.07	99.34	105.70
36	1	2385	G	N3-C4-C5	7.07	132.13	128.60
36	1	941	G	OP1-P-O3'	7.06	120.73	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3055	U	C5-C4-O4	-7.06	121.67	125.90
36	5	971	G	C4-C5-N7	-7.06	107.98	110.80
36	5	1461	A	N7-C8-N9	-7.06	110.27	113.80
36	5	3048	A	O5'-P-OP2	-7.06	99.35	105.70
36	1	2639	G	C8-N9-C4	7.05	109.22	106.40
36	5	3133	C	C6-N1-C2	-7.05	117.48	120.30
38	8	111	A	O5'-P-OP2	-7.04	99.36	105.70
36	1	2977	G	C8-N9-C4	7.04	109.22	106.40
36	5	2293	C	C5-C4-N4	-7.04	115.27	120.20
36	1	2952	G	C4-C5-N7	7.04	113.61	110.80
36	1	3214	U	C6-N1-C2	-7.03	116.78	121.00
36	1	340	C	N3-C4-C5	7.03	124.71	121.90
36	5	2211	U	N3-C2-O2	-7.03	117.28	122.20
36	1	2694	A	O5'-P-OP2	-7.03	99.37	105.70
36	1	939	U	N1-C2-O2	-7.03	117.88	122.80
1	6	1634	C	N3-C2-O2	-7.03	116.98	121.90
36	1	2624	G	C8-N9-C4	-7.02	103.59	106.40
36	1	359	U	C4-C5-C6	7.02	123.91	119.70
36	5	1666	G	N1-C6-O6	-7.02	115.69	119.90
70	O4	51	LEU	CA-CB-CG	7.02	131.45	115.30
36	5	1392	G	C8-N9-C4	7.02	109.21	106.40
36	5	2359	C	N3-C4-C5	7.02	124.71	121.90
36	5	883	A	N7-C8-N9	-7.02	110.29	113.80
39	L2	191	LEU	CA-CB-CG	-7.02	99.16	115.30
36	5	938	C	C6-N1-C2	7.02	123.11	120.30
36	1	999	G	OP2-P-O3'	7.01	120.63	105.20
36	5	1390	A	N1-C6-N6	-7.01	114.39	118.60
36	1	1377	G	C5-C6-N1	7.01	115.01	111.50
36	5	1834	U	N3-C4-C5	-7.01	110.39	114.60
36	5	2246	G	O5'-P-OP2	7.01	119.11	110.70
36	5	2392	C	C5-C6-N1	-7.01	117.50	121.00
44	17	232	ARG	NE-CZ-NH1	-7.01	116.80	120.30
36	1	1216	C	C5-C6-N1	7.01	124.50	121.00
36	1	521	A	N9-C4-C5	-7.00	103.00	105.80
36	1	1450	G	O5'-P-OP1	-7.00	99.40	105.70
36	1	2870	C	C6-N1-C1'	7.00	129.20	120.80
1	2	1789	G	C8-N9-C4	7.00	109.20	106.40
36	1	2278	C	C4-C5-C6	-7.00	113.90	117.40
36	1	1331	U	O4'-C1'-N1	-7.00	102.60	108.20
36	1	2651	G	N3-C2-N2	-7.00	115.00	119.90
36	5	66	A	C8-N9-C4	6.99	108.60	105.80
36	5	2385	G	N3-C4-C5	6.99	132.10	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1905	G	C5-C6-O6	-6.99	124.41	128.60
36	5	3154	C	C6-N1-C2	-6.99	117.50	120.30
36	1	502	U	N3-C2-O2	-6.99	117.31	122.20
36	5	2632	G	N3-C2-N2	6.99	124.79	119.90
36	5	2636	A	O5'-P-OP2	6.99	119.08	110.70
41	14	339	LEU	CA-CB-CG	6.99	131.37	115.30
36	1	895	A	C8-N9-C4	-6.99	103.01	105.80
1	6	603	U	N1-C2-O2	-6.99	117.91	122.80
36	5	2814	G	N1-C6-O6	6.99	124.09	119.90
36	5	1112	A	N1-C6-N6	6.98	122.79	118.60
36	1	2606	G	N3-C2-N2	6.98	124.79	119.90
36	5	116	A	O4'-C1'-N9	6.98	113.79	108.20
36	5	1452	A	C5-C6-N6	-6.98	118.11	123.70
36	5	881	C	C2-N3-C4	6.98	123.39	119.90
36	5	2600	C	O5'-P-OP1	-6.98	99.42	105.70
36	5	3005	A	O5'-P-OP2	-6.98	99.42	105.70
36	5	1845	G	C5-C6-N1	6.98	114.99	111.50
36	5	2913	C	N1-C2-O2	-6.98	114.71	118.90
36	5	1313	G	O5'-P-OP1	6.98	119.07	110.70
36	1	1316	C	C5-C6-N1	-6.97	117.51	121.00
36	5	3245	A	N1-C6-N6	6.97	122.78	118.60
36	5	1115	G	N1-C2-N2	-6.97	109.93	116.20
36	5	3309	G	N3-C4-N9	6.97	130.18	126.00
36	5	2993	G	C5-C6-O6	-6.97	124.42	128.60
37	7	49	G	C5-C6-O6	-6.97	124.42	128.60
36	1	2704	A	O5'-P-OP1	-6.96	99.43	105.70
1	6	647	G	N3-C4-C5	6.96	132.08	128.60
36	5	39	A	N1-C6-N6	6.96	122.78	118.60
36	5	1305	U	N3-C4-O4	6.96	124.27	119.40
36	5	2400	G	C8-N9-C4	6.96	109.19	106.40
36	5	2639	G	C6-N1-C2	-6.96	120.92	125.10
36	1	958	C	N3-C4-C5	6.96	124.68	121.90
36	5	3195	U	OP1-P-O3'	6.96	120.51	105.20
36	5	1371	G	C5-C6-O6	6.96	132.78	128.60
1	6	163	G	C8-N9-C1'	6.96	136.04	127.00
1	6	542	A	C4-N9-C1'	6.96	138.82	126.30
36	1	1184	A	O5'-P-OP2	-6.95	99.44	105.70
36	5	2392	C	N3-C4-C5	6.95	124.68	121.90
36	1	196	G	C4-C5-N7	6.95	113.58	110.80
47	M0	24	ARG	NE-CZ-NH1	6.95	123.78	120.30
36	5	2968	G	C5-N7-C8	6.95	107.77	104.30
1	6	542	A	C6-C5-N7	-6.95	127.44	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3012	A	N9-C4-C5	-6.94	103.02	105.80
36	1	2622	C	C6-N1-C2	-6.94	117.52	120.30
36	1	217	U	OP1-P-O3'	6.94	120.46	105.20
36	5	2870	C	C2-N3-C4	-6.94	116.43	119.90
36	5	426	G	N1-C6-O6	-6.94	115.74	119.90
36	1	2384	A	C5-C6-N6	-6.93	118.16	123.70
1	2	581	U	C2-N1-C1'	6.93	126.02	117.70
36	1	2366	C	C5-C6-N1	6.93	124.47	121.00
1	6	425	A	O5'-P-OP2	-6.93	99.46	105.70
1	6	1767	G	C8-N9-C4	6.93	109.17	106.40
1	6	1106	U	O5'-P-OP1	-6.93	99.47	105.70
1	6	272	U	N3-C2-O2	-6.92	117.35	122.20
36	5	691	A	O5'-P-OP1	-6.92	99.47	105.70
36	5	1124	U	N3-C4-C5	6.92	118.75	114.60
1	6	453	U	C5-C4-O4	6.92	130.05	125.90
36	1	2130	G	N1-C6-O6	-6.92	115.75	119.90
17	c5	36	LEU	CA-CB-CG	6.92	131.21	115.30
36	5	2989	U	C5-C6-N1	-6.92	119.24	122.70
36	5	3209	A	O4'-C1'-N9	6.92	113.74	108.20
1	2	758	U	N3-C2-O2	-6.92	117.36	122.20
36	1	1365	G	C8-N9-C4	-6.92	103.63	106.40
36	5	2719	U	C2-N1-C1'	-6.92	109.40	117.70
36	1	2216	G	N1-C6-O6	-6.91	115.75	119.90
36	5	1938	U	C5-C6-N1	-6.91	119.25	122.70
36	1	404	G	O5'-P-OP2	-6.91	99.48	105.70
36	1	979	U	P-O3'-C3'	6.91	127.99	119.70
37	3	88	G	C5-C6-O6	6.91	132.74	128.60
36	5	2624	G	C8-N9-C4	-6.91	103.64	106.40
36	5	1331	U	C5-C6-N1	-6.90	119.25	122.70
36	5	2353	G	C5-C6-O6	-6.90	124.46	128.60
36	1	351	A	OP1-P-OP2	6.89	129.94	119.60
36	1	972	A	C8-N9-C4	6.89	108.56	105.80
1	6	399	A	C8-N9-C4	6.89	108.55	105.80
1	6	864	U	N3-C2-O2	-6.89	117.38	122.20
36	5	960	U	N3-C4-C5	6.88	118.73	114.60
36	1	1157	G	OP2-P-O3'	6.88	120.34	105.20
36	1	53	G	N7-C8-N9	-6.88	109.66	113.10
36	5	1150	A	C2-N3-C4	-6.88	107.16	110.60
59	n3	48	ARG	NE-CZ-NH1	6.88	123.74	120.30
36	5	3362	A	C2-N3-C4	-6.88	107.16	110.60
36	1	2393	G	N1-C6-O6	6.87	124.02	119.90
36	1	2899	C	N3-C2-O2	-6.87	117.09	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3212	C	N1-C2-O2	-6.87	114.78	118.90
36	5	41	G	C5-C6-O6	-6.87	124.48	128.60
1	2	75	U	N3-C2-O2	-6.86	117.40	122.20
36	5	2189	U	O5'-P-OP1	-6.86	99.52	105.70
36	5	982	C	OP2-P-O3'	6.86	120.30	105.20
36	5	1878	G	C4-N9-C1'	6.86	135.42	126.50
36	5	1881	A	C5-C6-N6	-6.86	118.21	123.70
1	6	1029	U	O5'-P-OP2	-6.86	99.53	105.70
36	1	111	C	C6-N1-C2	6.86	123.04	120.30
36	1	1902	G	C6-C5-N7	-6.86	126.29	130.40
36	1	2152	A	N1-C6-N6	-6.85	114.49	118.60
36	5	2323	G	N7-C8-N9	6.85	116.53	113.10
1	2	320	U	C5-C4-O4	-6.85	121.79	125.90
36	1	1313	G	C5-C6-O6	-6.84	124.49	128.60
36	5	1330	A	N1-C6-N6	6.84	122.71	118.60
36	5	3214	U	N3-C2-O2	-6.84	117.41	122.20
36	1	3092	C	C5-C6-N1	-6.84	117.58	121.00
62	N6	13	ARG	NE-CZ-NH2	-6.84	116.88	120.30
36	1	582	G	C8-N9-C4	-6.84	103.67	106.40
36	5	1421	G	O5'-P-OP2	-6.84	99.55	105.70
36	5	1437	C	C6-N1-C2	-6.84	117.57	120.30
36	1	1141	C	C4-C5-C6	6.83	120.82	117.40
36	5	2550	U	C5-C4-O4	6.83	130.00	125.90
36	5	2643	A	C2-N3-C4	6.83	114.02	110.60
36	1	980	A	N7-C8-N9	6.83	117.22	113.80
36	1	192	C	O5'-P-OP1	-6.83	99.55	105.70
36	1	2157	G	O5'-P-OP1	-6.83	99.56	105.70
36	5	2434	U	C5-C6-N1	-6.83	119.29	122.70
36	5	871	U	N3-C4-O4	-6.82	114.62	119.40
38	8	99	C	C6-N1-C2	6.82	123.03	120.30
36	1	2920	U	C2-N3-C4	-6.82	122.91	127.00
1	2	553	G	C5-C6-N1	-6.82	108.09	111.50
36	5	2703	A	C8-N9-C4	-6.82	103.07	105.80
1	6	542	A	O4'-C1'-N9	6.81	113.65	108.20
1	2	942	G	N1-C6-O6	-6.81	115.81	119.90
36	1	945	C	N3-C4-C5	6.81	124.62	121.90
36	1	1496	C	C2-N1-C1'	6.81	126.29	118.80
36	1	3344	A	C6-C5-N7	-6.81	127.53	132.30
38	4	140	G	C8-N9-C4	-6.81	103.68	106.40
1	2	359	A	C4-C5-C6	-6.81	113.60	117.00
1	2	973	A	O5'-P-OP2	-6.81	99.57	105.70
36	5	1208	U	N3-C2-O2	-6.81	117.44	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	25	G	C5-C6-O6	-6.81	124.52	128.60
36	5	2993	G	C4-C5-N7	6.80	113.52	110.80
36	1	2614	G	C5-C6-O6	6.80	132.68	128.60
36	5	2400	G	C5-C6-O6	-6.80	124.52	128.60
38	4	23	U	C5-C4-O4	-6.80	121.82	125.90
1	6	542	A	P-O3'-C3'	6.80	127.86	119.70
36	5	3039	C	O5'-P-OP2	-6.80	99.58	105.70
36	1	196	G	O5'-P-OP2	-6.80	99.58	105.70
36	1	645	A	N3-C4-N9	6.80	132.84	127.40
36	1	1851	G	N3-C4-C5	-6.80	125.20	128.60
36	1	2417	U	C2-N3-C4	-6.80	122.92	127.00
36	5	1473	G	C8-N9-C4	6.80	109.12	106.40
36	1	1394	A	OP2-P-O3'	6.79	120.15	105.20
36	5	825	U	N1-C2-O2	6.79	127.56	122.80
36	1	116	A	O4'-C1'-N9	6.79	113.63	108.20
36	1	2874	G	C5-C6-O6	6.79	132.67	128.60
36	5	2899	C	C5-C4-N4	6.79	124.95	120.20
36	5	2801	A	C2-N3-C4	6.78	113.99	110.60
36	1	1581	C	N3-C2-O2	-6.78	117.15	121.90
36	1	1582	C	O5'-P-OP1	-6.78	99.60	105.70
36	1	2306	C	N3-C2-O2	-6.78	117.15	121.90
36	1	421	G	N9-C4-C5	-6.78	102.69	105.40
1	6	362	G	N3-C4-N9	6.78	130.07	126.00
36	5	1445	U	C5-C4-O4	-6.78	121.83	125.90
36	1	196	G	N9-C4-C5	-6.78	102.69	105.40
36	5	2865	U	C4-C5-C6	-6.77	115.64	119.70
36	5	437	G	N7-C8-N9	6.77	116.48	113.10
36	1	804	C	N1-C2-O2	-6.77	114.84	118.90
36	1	2798	C	N1-C2-O2	-6.77	114.84	118.90
36	5	1430	U	C5-C6-N1	-6.77	119.31	122.70
36	5	2231	C	O4'-C1'-N1	6.77	113.62	108.20
36	1	2169	G	N1-C6-O6	-6.77	115.84	119.90
36	5	2831	G	N1-C6-O6	-6.77	115.84	119.90
1	6	1596	C	C6-N1-C2	-6.76	117.59	120.30
36	5	2834	G	O5'-P-OP1	-6.76	99.61	105.70
36	5	2660	G	C8-N9-C4	6.76	109.11	106.40
1	6	755	A	O4'-C1'-N9	6.76	113.61	108.20
1	2	1761	U	C5-C4-O4	6.76	129.96	125.90
36	1	1308	A	N7-C8-N9	6.76	117.18	113.80
36	1	2719	U	N1-C2-O2	-6.76	118.07	122.80
36	5	966	U	N1-C2-O2	6.76	127.53	122.80
36	1	664	U	C5-C6-N1	-6.75	119.32	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	959	C	C6-N1-C2	6.75	123.00	120.30
36	5	1207	G	N1-C6-O6	-6.75	115.85	119.90
36	1	282	G	C8-N9-C4	-6.75	103.70	106.40
1	2	359	A	C8-N9-C4	6.75	108.50	105.80
1	2	542	A	O4'-C1'-N9	6.75	113.60	108.20
36	5	2913	C	C6-N1-C2	-6.75	117.60	120.30
36	1	765	C	N1-C2-O2	6.74	122.95	118.90
36	1	2243	A	C8-N9-C4	6.74	108.50	105.80
36	5	2956	A	C8-N9-C4	-6.74	103.10	105.80
36	5	3143	C	N1-C2-O2	-6.74	114.86	118.90
36	1	887	G	O5'-P-OP2	-6.74	99.64	105.70
36	5	426	G	N7-C8-N9	-6.74	109.73	113.10
36	5	612	U	O5'-P-OP1	-6.74	99.64	105.70
36	5	3164	C	O4'-C1'-N1	6.74	113.59	108.20
64	n8	28	HIS	N-CA-C	6.74	129.19	111.00
36	1	2726	C	C2-N3-C4	-6.73	116.53	119.90
36	1	429	U	O5'-P-OP1	-6.73	99.64	105.70
36	5	2816	G	O4'-C1'-N9	6.73	113.58	108.20
36	1	3178	A	O5'-P-OP1	-6.73	99.65	105.70
36	1	99	A	O5'-P-OP2	-6.72	99.65	105.70
36	1	1297	C	C5-C6-N1	-6.72	117.64	121.00
36	5	2524	A	C5-N7-C8	-6.72	100.54	103.90
36	1	1555	U	C2-N1-C1'	-6.72	109.63	117.70
36	5	889	U	N3-C4-C5	6.72	118.63	114.60
36	1	3217	C	N1-C2-O2	6.72	122.93	118.90
1	6	351	C	C4-C5-C6	6.72	120.76	117.40
36	5	2831	G	C2-N3-C4	6.72	115.26	111.90
36	1	2249	G	N1-C6-O6	-6.72	115.87	119.90
36	5	1112	A	C5-C6-N6	-6.72	118.33	123.70
36	5	437	G	N3-C2-N2	-6.72	115.20	119.90
36	5	497	C	O5'-P-OP1	-6.72	99.66	105.70
1	6	1473	U	C6-N1-C2	-6.71	116.97	121.00
36	1	1419	A	O5'-P-OP2	-6.71	99.66	105.70
36	1	2870	C	C4-C5-C6	-6.71	114.04	117.40
36	1	919	U	C5-C4-O4	-6.71	121.87	125.90
36	1	1296	C	N3-C4-C5	-6.71	119.22	121.90
36	5	2192	C	O5'-P-OP2	-6.71	99.66	105.70
36	5	1148	G	C5-C6-O6	-6.71	124.58	128.60
36	1	650	C	C2-N3-C4	-6.70	116.55	119.90
36	1	2283	G	N1-C6-O6	6.70	123.92	119.90
36	5	3115	C	N1-C2-O2	-6.70	114.88	118.90
36	1	1376	C	N3-C4-C5	-6.70	119.22	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	112	U	C6-N1-C1'	-6.70	111.82	121.20
36	1	2892	A	N1-C6-N6	-6.70	114.58	118.60
36	5	777	U	O5'-P-OP2	-6.69	99.67	105.70
36	5	283	G	C6-C5-N7	-6.69	126.39	130.40
36	1	936	A	N1-C6-N6	6.69	122.61	118.60
36	1	1858	A	C2-N3-C4	6.69	113.94	110.60
1	2	577	G	C4-C5-N7	6.68	113.47	110.80
3	S1	218	LEU	CA-CB-CG	6.68	130.68	115.30
36	1	170	G	O5'-P-OP1	-6.68	99.69	105.70
36	1	2836	C	C6-N1-C2	-6.68	117.63	120.30
36	5	1907	C	N1-C2-O2	-6.68	114.89	118.90
36	5	2278	C	C5-C6-N1	6.68	124.34	121.00
36	1	1890	U	C5-C6-N1	-6.68	119.36	122.70
36	1	2944	U	OP1-P-O3'	6.68	119.89	105.20
36	5	3138	U	N1-C2-N3	6.68	118.91	114.90
52	m6	69	GLY	N-CA-C	-6.68	96.41	113.10
1	2	1432	U	C5-C6-N1	-6.67	119.36	122.70
38	4	138	A	N1-C6-N6	-6.67	114.59	118.60
36	1	1902	G	N1-C6-O6	6.67	123.90	119.90
36	5	2996	U	O5'-P-OP1	6.67	118.70	110.70
36	1	42	C	N1-C2-O2	-6.66	114.90	118.90
36	5	2302	G	C5-C6-O6	6.66	132.60	128.60
36	5	2693	C	N3-C2-O2	-6.66	117.24	121.90
36	1	369	A	O5'-P-OP2	-6.66	99.71	105.70
36	1	3362	A	N1-C2-N3	6.65	132.63	129.30
36	5	340	C	C2-N3-C4	-6.65	116.57	119.90
36	1	950	G	C4-C5-N7	6.65	113.46	110.80
36	1	3143	C	C5-C6-N1	-6.65	117.67	121.00
36	5	2872	A	N9-C4-C5	-6.65	103.14	105.80
1	2	811	A	C8-N9-C4	-6.65	103.14	105.80
1	2	1568	C	P-O3'-C3'	6.65	127.68	119.70
36	1	652	G	N1-C2-N2	-6.65	110.22	116.20
36	1	2302	G	C5-C6-O6	6.65	132.59	128.60
36	1	2818	U	C5-C6-N1	6.65	126.02	122.70
1	6	1032	G	C8-N9-C4	6.64	109.06	106.40
15	C3	22	ALA	C-N-CD	-6.64	105.99	120.60
36	1	2631	U	C2-N3-C4	-6.64	123.01	127.00
36	1	2945	G	C8-N9-C4	6.64	109.06	106.40
36	5	2614	G	C8-N9-C4	6.64	109.06	106.40
36	1	1419	A	O5'-P-OP1	6.64	118.67	110.70
25	D3	23	ARG	NE-CZ-NH1	6.64	123.62	120.30
36	5	419	G	N3-C2-N2	6.64	124.55	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	871	U	C5-C4-O4	6.64	129.88	125.90
15	C3	114	ARG	NE-CZ-NH1	6.63	123.62	120.30
36	1	709	A	N7-C8-N9	-6.63	110.48	113.80
36	1	2817	A	C5-C6-N1	6.63	121.02	117.70
36	1	2830	G	N3-C2-N2	-6.63	115.26	119.90
36	5	1592	G	C5-C6-N1	-6.63	108.18	111.50
48	m1	112	LEU	CA-CB-CG	6.63	130.56	115.30
36	5	35	A	C8-N9-C4	6.63	108.45	105.80
36	5	1879	A	C6-C5-N7	-6.63	127.66	132.30
36	1	2364	G	C5-C6-O6	-6.63	124.62	128.60
36	5	1402	C	N3-C2-O2	-6.63	117.26	121.90
36	5	2116	G	C6-C5-N7	-6.63	126.42	130.40
36	1	2747	A	N1-C6-N6	-6.63	114.62	118.60
36	1	3058	U	C2-N1-C1'	6.62	125.65	117.70
36	5	3052	G	C5-C6-O6	6.62	132.57	128.60
36	5	1307	G	OP2-P-O3'	6.62	119.77	105.20
36	5	1481	A	P-O3'-C3'	6.62	127.65	119.70
36	1	414	U	O5'-P-OP2	-6.62	99.74	105.70
36	1	3306	U	N1-C2-N3	6.62	118.87	114.90
1	6	308	C	N1-C2-N3	6.62	123.83	119.20
38	4	53	A	C2-N3-C4	6.62	113.91	110.60
36	5	33	G	C5-C6-O6	-6.62	124.63	128.60
36	1	2409	G	N1-C2-N2	-6.62	110.24	116.20
36	5	3086	A	C8-N9-C4	6.62	108.45	105.80
36	1	51	A	N1-C6-N6	6.62	122.57	118.60
36	1	1414	G	O5'-P-OP2	-6.62	99.75	105.70
38	4	37	A	C8-N9-C4	-6.62	103.15	105.80
36	5	989	A	N1-C6-N6	-6.61	114.63	118.60
36	5	3197	G	N3-C2-N2	-6.60	115.28	119.90
36	1	957	C	N1-C2-O2	-6.60	114.94	118.90
41	L4	95	ARG	NE-CZ-NH2	6.60	123.60	120.30
1	6	350	U	N1-C2-N3	6.60	118.86	114.90
36	1	1157	G	N9-C4-C5	6.60	108.04	105.40
36	1	2714	G	C5-N7-C8	-6.60	101.00	104.30
36	1	2952	G	C5-C6-O6	-6.60	124.64	128.60
1	6	1473	U	C2-N1-C1'	6.60	125.62	117.70
36	1	120	G	C8-N9-C4	6.59	109.04	106.40
36	1	667	C	N3-C4-N4	-6.59	113.38	118.00
1	2	1486	G	C5-N7-C8	-6.59	101.00	104.30
36	5	1931	U	C2-N1-C1'	-6.59	109.79	117.70
1	2	1339	C	C6-N1-C2	-6.59	117.66	120.30
36	1	2372	A	O5'-P-OP1	-6.59	99.77	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2403	G	O4'-C1'-N9	6.59	113.47	108.20
36	1	1153	A	C4-C5-C6	6.59	120.29	117.00
1	6	956	C	C6-N1-C2	6.59	122.94	120.30
1	6	250	C	O5'-P-OP2	-6.58	99.77	105.70
36	1	3119	U	N3-C4-O4	-6.58	114.79	119.40
1	6	696	C	O4'-C1'-N1	6.58	113.47	108.20
36	1	143	G	N3-C4-C5	-6.58	125.31	128.60
36	1	718	G	C5-N7-C8	-6.58	101.01	104.30
36	1	1863	G	O5'-P-OP2	-6.58	99.78	105.70
37	3	86	U	C6-N1-C2	6.58	124.94	121.00
1	6	364	G	N7-C8-N9	-6.58	109.81	113.10
36	5	2142	A	C6-N1-C2	-6.58	114.66	118.60
36	1	2728	G	C2-N3-C4	6.57	115.19	111.90
36	1	2936	A	O5'-P-OP2	6.57	118.59	110.70
36	5	25	U	N1-C2-N3	6.57	118.84	114.90
36	5	2995	A	C8-N9-C4	6.57	108.43	105.80
1	2	1092	A	N9-C4-C5	-6.57	103.17	105.80
1	6	163	G	N9-C4-C5	6.57	108.03	105.40
36	1	2298	U	N3-C4-O4	-6.57	114.80	119.40
36	5	340	C	C5-C6-N1	-6.57	117.72	121.00
36	5	3017	A	C8-N9-C4	-6.57	103.17	105.80
36	1	2679	A	N1-C2-N3	6.56	132.58	129.30
36	5	2188	A	C8-N9-C4	6.56	108.43	105.80
36	5	1172	G	OP2-P-O3'	6.56	119.64	105.20
36	5	426	G	C5-C6-O6	6.56	132.54	128.60
36	5	2913	C	C4-C5-C6	6.56	120.68	117.40
38	4	74	U	O5'-P-OP1	-6.56	99.80	105.70
36	5	64	G	C5-C6-O6	-6.55	124.67	128.60
36	5	2166	A	O5'-P-OP1	-6.55	99.80	105.70
36	1	2375	G	N7-C8-N9	-6.55	109.83	113.10
36	5	1049	C	O5'-P-OP2	-6.55	99.81	105.70
36	1	646	A	C8-N9-C4	-6.55	103.18	105.80
36	1	2641	U	C5-C6-N1	-6.55	119.43	122.70
36	1	3143	C	O5'-P-OP2	-6.55	99.81	105.70
1	6	1514	U	C5-C4-O4	6.54	129.83	125.90
36	5	1660	C	C6-N1-C2	-6.54	117.68	120.30
1	6	957	G	N1-C6-O6	6.54	123.83	119.90
37	7	46	A	C8-N9-C4	-6.54	103.18	105.80
36	1	1381	A	O5'-P-OP1	-6.54	99.81	105.70
36	5	2913	C	N1-C2-N3	6.54	123.78	119.20
1	2	1324	G	N3-C4-N9	-6.54	122.08	126.00
36	1	2417	U	C5-C6-N1	-6.54	119.43	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	38	U	O5'-P-OP2	-6.54	99.82	105.70
36	5	2950	G	C4-C5-N7	6.54	113.42	110.80
36	1	2938	G	OP1-P-OP2	6.54	129.40	119.60
1	6	1473	U	C5-C4-O4	6.54	129.82	125.90
36	1	1160	C	O5'-P-OP1	-6.53	99.82	105.70
36	5	1168	U	N3-C4-C5	6.53	118.52	114.60
36	5	2278	C	N3-C2-O2	-6.53	117.33	121.90
36	1	2121	G	N1-C6-O6	-6.53	115.98	119.90
37	3	12	U	C5-C4-O4	-6.53	121.98	125.90
36	1	421	G	C4-C5-N7	6.53	113.41	110.80
36	1	1530	U	C6-N1-C2	6.53	124.92	121.00
1	6	825	U	N3-C2-O2	6.53	126.77	122.20
36	5	41	G	C5-N7-C8	-6.53	101.04	104.30
36	1	1825	G	O5'-P-OP2	-6.53	99.83	105.70
36	5	1149	G	N1-C6-O6	6.53	123.82	119.90
36	1	1604	G	N3-C4-C5	-6.52	125.34	128.60
49	M3	36	ARG	NE-CZ-NH1	-6.52	117.04	120.30
36	1	582	G	N9-C4-C5	6.52	108.01	105.40
36	5	1006	A	O5'-P-OP2	-6.52	99.83	105.70
1	2	1654	G	O5'-P-OP2	-6.52	99.83	105.70
1	6	1629	G	O5'-P-OP2	-6.52	99.83	105.70
35	sM	167	PRO	N-CA-CB	6.52	111.12	103.30
36	5	3309	G	C4-N9-C1'	6.52	134.97	126.50
1	6	1124	A	N9-C4-C5	-6.52	103.19	105.80
36	1	2153	U	N1-C2-N3	6.51	118.81	114.90
38	4	113	U	C5-C6-N1	-6.51	119.44	122.70
36	5	3018	C	O5'-P-OP2	-6.51	99.84	105.70
35	SM	167	PRO	N-CA-CB	6.51	111.11	103.30
36	1	970	A	N7-C8-N9	6.51	117.06	113.80
36	5	696	C	C5-C4-N4	-6.51	115.64	120.20
36	1	591	G	C6-N1-C2	-6.51	121.19	125.10
36	1	2817	A	C6-N1-C2	-6.51	114.69	118.60
36	5	2370	G	C5-C6-N1	6.51	114.75	111.50
36	5	216	G	C6-C5-N7	-6.50	126.50	130.40
36	5	189	G	N1-C6-O6	-6.50	116.00	119.90
1	6	1498	G	N1-C6-O6	-6.50	116.00	119.90
36	5	2295	A	C8-N9-C4	6.50	108.40	105.80
36	5	2371	G	N3-C4-C5	6.50	131.85	128.60
36	5	1452	A	N1-C6-N6	6.50	122.50	118.60
36	5	2630	C	C2-N3-C4	-6.50	116.65	119.90
36	5	2980	U	N1-C2-N3	6.50	118.80	114.90
36	1	2241	U	O5'-P-OP1	-6.49	99.86	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2231	C	C6-N1-C2	-6.49	117.70	120.30
36	5	1399	A	O5'-P-OP2	-6.49	99.86	105.70
36	1	2758	A	N1-C2-N3	-6.49	126.06	129.30
36	5	2630	C	N3-C4-C5	6.49	124.50	121.90
1	2	553	G	C4-C5-C6	6.49	122.69	118.80
36	1	2297	U	N3-C2-O2	-6.49	117.66	122.20
36	5	2385	G	N1-C6-O6	6.49	123.79	119.90
1	2	1585	U	O5'-P-OP2	-6.49	99.86	105.70
36	5	796	U	N1-C2-O2	6.49	127.34	122.80
38	8	2	A	C8-N9-C4	-6.49	103.21	105.80
1	2	73	U	OP1-P-O3'	6.48	119.46	105.20
36	1	919	U	OP1-P-OP2	-6.48	109.87	119.60
36	5	1483	G	O5'-P-OP1	-6.48	99.86	105.70
1	6	194	U	N1-C2-O2	6.48	127.34	122.80
1	6	1793	G	C4-C5-N7	-6.48	108.21	110.80
36	5	1054	A	C8-N9-C4	6.48	108.39	105.80
1	2	1662	G	O5'-P-OP2	-6.47	99.87	105.70
36	1	1741	A	C2-N3-C4	-6.47	107.36	110.60
36	1	24	G	N1-C6-O6	6.47	123.78	119.90
36	1	97	U	C5-C6-N1	-6.47	119.47	122.70
36	1	3058	U	C6-N1-C1'	-6.47	112.15	121.20
1	6	1081	A	O4'-C1'-N9	6.47	113.37	108.20
36	5	1123	U	C5-C6-N1	-6.47	119.47	122.70
36	1	634	C	N1-C2-O2	6.46	122.78	118.90
36	1	2923	U	N3-C2-O2	6.46	126.72	122.20
36	5	3308	C	C4-C5-C6	6.46	120.63	117.40
36	5	2360	C	C4-C5-C6	6.46	120.63	117.40
36	1	3092	C	C2-N1-C1'	-6.46	111.69	118.80
36	5	3374	U	N3-C4-C5	6.46	118.48	114.60
1	6	1483	A	O5'-P-OP1	-6.46	99.89	105.70
36	5	1910	A	OP2-P-O3'	6.46	119.41	105.20
37	7	94	C	C4-C5-C6	-6.46	114.17	117.40
36	5	1148	G	C8-N9-C4	6.46	108.98	106.40
36	5	2382	G	N1-C6-O6	-6.46	116.03	119.90
37	7	101	G	N9-C4-C5	-6.46	102.82	105.40
36	1	3318	G	C4-N9-C1'	6.45	134.89	126.50
36	5	2630	C	N1-C2-O2	-6.45	115.03	118.90
36	5	2865	U	N1-C2-O2	6.45	127.32	122.80
44	17	229	PHE	CB-CG-CD1	6.45	125.32	120.80
36	1	2642	A	C8-N9-C4	6.45	108.38	105.80
36	1	2958	A	N1-C6-N6	-6.45	114.73	118.60
1	2	142	G	N3-C4-C5	6.45	131.82	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2213	A	C8-N9-C4	6.45	108.38	105.80
1	2	934	C	O5'-P-OP1	-6.45	99.90	105.70
36	1	874	U	C6-N1-C2	6.45	124.87	121.00
36	5	1152	G	N9-C4-C5	6.45	107.98	105.40
36	1	1060	U	C5-C6-N1	-6.44	119.48	122.70
36	1	1589	A	O4'-C1'-N9	-6.44	103.05	108.20
36	1	2550	U	N1-C2-N3	6.44	118.77	114.90
36	5	2136	C	N3-C4-C5	6.44	124.48	121.90
36	1	2281	A	C8-N9-C4	6.44	108.38	105.80
36	1	3275	U	OP1-P-O3'	6.44	119.36	105.20
36	5	208	C	C6-N1-C2	-6.44	117.72	120.30
36	5	3245	A	N1-C2-N3	6.44	132.52	129.30
36	1	921	A	O4'-C1'-N9	-6.44	103.05	108.20
36	1	643	U	N1-C2-O2	-6.43	118.30	122.80
36	5	2181	C	N1-C2-O2	-6.43	115.04	118.90
36	1	86	G	C5-C6-N1	6.43	114.72	111.50
36	1	906	A	C5-C6-N1	6.43	120.92	117.70
1	6	107	C	C6-N1-C2	6.43	122.87	120.30
36	1	1169	A	OP2-P-O3'	6.42	119.34	105.20
36	1	1182	A	C8-N9-C4	6.42	108.37	105.80
36	1	30	G	C5-C6-O6	6.42	132.45	128.60
36	1	2983	C	O5'-P-OP1	-6.42	99.92	105.70
62	N6	126	LEU	CA-CB-CG	6.42	130.07	115.30
36	5	2302	G	N1-C6-O6	-6.42	116.05	119.90
36	5	871	U	N3-C2-O2	-6.42	117.71	122.20
36	1	957	C	O5'-P-OP2	-6.42	99.93	105.70
36	1	1140	G	N3-C4-N9	6.41	129.85	126.00
36	5	970	A	N1-C6-N6	6.41	122.45	118.60
36	5	2147	A	N1-C6-N6	6.41	122.45	118.60
36	1	1142	G	C5-C6-O6	-6.41	124.75	128.60
36	5	1321	G	O5'-P-OP2	-6.41	99.93	105.70
1	6	1782	A	C8-N9-C4	-6.41	103.24	105.80
36	5	1307	G	C2'-C3'-O3'	6.41	123.95	113.70
1	6	1783	C	N1-C2-O2	6.40	122.74	118.90
36	1	1279	C	C6-N1-C2	-6.40	117.74	120.30
38	4	32	C	N1-C2-O2	-6.40	115.06	118.90
38	4	125	U	N1-C2-O2	6.40	127.28	122.80
36	5	26	A	C8-N9-C4	6.40	108.36	105.80
36	5	806	A	C6-N1-C2	6.40	122.44	118.60
36	5	2234	G	C5-C6-O6	-6.40	124.76	128.60
36	5	2969	A	C8-N9-C4	6.40	108.36	105.80
36	5	2993	G	N9-C4-C5	-6.40	102.84	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1513	G	C2-N3-C4	6.40	115.10	111.90
36	5	1162	U	N1-C2-O2	-6.40	118.32	122.80
36	5	519	A	C5-C6-N6	-6.40	118.58	123.70
36	1	2952	G	C6-C5-N7	-6.39	126.56	130.40
36	1	1429	G	N3-C4-C5	-6.39	125.40	128.60
37	3	96	U	C5-C6-N1	-6.39	119.50	122.70
36	1	3057	U	N3-C2-O2	-6.39	117.73	122.20
36	5	2378	C	O5'-P-OP2	-6.39	99.95	105.70
36	1	2551	U	N3-C2-O2	-6.39	117.73	122.20
36	5	2386	A	C8-N9-C4	-6.39	103.24	105.80
1	6	65	A	C2-N3-C4	-6.39	107.41	110.60
36	5	3101	G	O5'-P-OP1	-6.39	99.95	105.70
36	1	1144	U	C5-C6-N1	-6.39	119.51	122.70
36	1	2651	G	N3-C4-N9	-6.39	122.17	126.00
36	1	868	C	N1-C2-O2	6.38	122.73	118.90
1	6	858	G	O4'-C1'-N9	6.38	113.31	108.20
36	5	1064	A	N1-C6-N6	6.38	122.43	118.60
36	5	1284	C	C6-N1-C2	-6.38	117.75	120.30
36	5	2954	U	N3-C4-C5	-6.38	110.77	114.60
36	5	1116	G	N3-C4-C5	-6.38	125.41	128.60
36	5	3214	U	C5-C4-O4	6.38	129.73	125.90
36	1	339	C	O5'-P-OP1	-6.38	99.96	105.70
36	5	2352	A	C4-C5-C6	6.38	120.19	117.00
1	2	1486	G	C8-N9-C4	-6.38	103.85	106.40
38	4	114	G	O5'-P-OP1	-6.37	99.96	105.70
38	4	148	G	N1-C6-O6	-6.37	116.08	119.90
36	5	3011	A	OP1-P-O3'	6.37	119.22	105.20
1	2	610	G	C8-N9-C1'	-6.37	118.72	127.00
36	1	957	C	C5-C4-N4	-6.37	115.74	120.20
1	6	1620	C	C6-N1-C2	-6.37	117.75	120.30
36	5	3218	A	C6-C5-N7	-6.37	127.84	132.30
1	2	554	C	N1-C2-O2	6.37	122.72	118.90
1	6	272	U	C2-N1-C1'	6.37	125.34	117.70
36	1	41	G	C5-C6-O6	6.37	132.42	128.60
36	1	2298	U	N1-C2-N3	6.37	118.72	114.90
36	5	981	U	C5-C6-N1	6.37	125.88	122.70
36	5	3215	A	N1-C6-N6	6.37	122.42	118.60
36	1	1911	A	N1-C6-N6	6.36	122.42	118.60
1	6	1787	C	N1-C2-O2	-6.36	115.08	118.90
36	5	1048	A	OP1-P-O3'	6.36	119.20	105.20
36	1	2142	A	C6-N1-C2	-6.36	114.78	118.60
36	5	2899	C	N3-C4-N4	-6.36	113.55	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3012	A	N7-C8-N9	-6.36	110.62	113.80
36	1	1408	G	N1-C6-O6	-6.36	116.09	119.90
36	5	520	U	N1-C2-N3	6.36	118.72	114.90
36	5	2965	U	N3-C2-O2	6.36	126.65	122.20
36	5	3195	U	P-O3'-C3'	6.36	127.33	119.70
1	2	144	U	N3-C2-O2	-6.36	117.75	122.20
1	2	1654	G	C5-C6-O6	-6.36	124.79	128.60
36	1	635	G	C4-C5-N7	6.35	113.34	110.80
38	4	113	U	C4-C5-C6	6.35	123.51	119.70
36	5	2231	C	C2-N1-C1'	6.35	125.79	118.80
36	5	3197	G	N3-C4-N9	-6.35	122.19	126.00
36	1	698	U	N1-C2-N3	6.35	118.71	114.90
38	4	21	C	C2-N1-C1'	-6.35	111.82	118.80
36	5	1371	G	C6-C5-N7	6.35	134.21	130.40
36	5	2249	G	C8-N9-C4	-6.35	103.86	106.40
36	1	913	A	O5'-P-OP1	-6.34	99.99	105.70
36	1	917	A	N1-C6-N6	-6.34	114.79	118.60
36	5	818	C	C5-C6-N1	-6.34	117.83	121.00
1	2	607	G	N1-C6-O6	6.34	123.71	119.90
36	1	1294	A	O4'-C1'-N9	6.34	113.27	108.20
36	1	2836	C	N3-C2-O2	-6.34	117.46	121.90
36	5	2342	U	C2-N3-C4	-6.34	123.19	127.00
36	1	718	G	C4-C5-N7	6.34	113.34	110.80
1	6	402	C	C5-C4-N4	-6.34	115.76	120.20
36	5	2614	G	N7-C8-N9	-6.34	109.93	113.10
36	5	2700	G	C5-C6-O6	-6.34	124.80	128.60
36	1	874	U	N3-C4-O4	-6.34	114.97	119.40
36	1	2385	G	O5'-P-OP1	-6.34	100.00	105.70
36	5	2112	U	C6-N1-C2	-6.34	117.20	121.00
47	m0	48	LEU	CA-CB-CG	6.34	129.88	115.30
36	5	1302	A	N9-C4-C5	6.33	108.33	105.80
36	5	2327	U	C2-N3-C4	-6.33	123.20	127.00
36	1	339	C	O5'-P-OP2	6.33	118.30	110.70
36	1	1893	A	N9-C4-C5	6.33	108.33	105.80
36	5	282	G	C2'-C3'-O3'	6.33	123.83	113.70
36	5	874	U	O5'-P-OP1	-6.33	100.00	105.70
36	5	945	C	N3-C4-C5	6.33	124.43	121.90
1	2	1662	G	C5-C6-N1	6.33	114.67	111.50
36	5	1481	A	C8-N9-C4	-6.33	103.27	105.80
36	1	439	C	N1-C2-O2	6.33	122.70	118.90
36	5	2388	U	N1-C2-O2	-6.33	118.37	122.80
36	5	3041	U	N3-C4-C5	6.33	118.40	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1141	C	N3-C4-C5	-6.33	119.37	121.90
36	5	970	A	C5-C6-N6	-6.33	118.64	123.70
36	5	1322	U	N3-C4-C5	6.33	118.39	114.60
1	6	767	U	N3-C2-O2	-6.32	117.77	122.20
36	1	806	A	N1-C6-N6	6.32	122.39	118.60
36	1	2401	A	N1-C2-N3	-6.32	126.14	129.30
36	1	291	C	OP2-P-O3'	6.32	119.10	105.20
36	1	1507	G	N3-C4-C5	-6.32	125.44	128.60
36	5	952	A	N9-C4-C5	-6.32	103.27	105.80
1	2	1761	U	C6-N1-C2	-6.32	117.21	121.00
1	6	1114	G	N3-C4-C5	-6.32	125.44	128.60
36	5	1859	A	O5'-P-OP2	-6.31	100.02	105.70
36	5	2948	C	N3-C4-N4	-6.31	113.58	118.00
36	5	3008	A	OP2-P-O3'	6.31	119.09	105.20
36	1	1164	G	N1-C6-O6	-6.31	116.11	119.90
36	1	2647	A	C6-N1-C2	-6.31	114.81	118.60
36	5	634	C	C2-N3-C4	-6.31	116.74	119.90
36	1	2941	A	O4'-C1'-N9	-6.31	103.15	108.20
36	5	2980	U	C6-N1-C2	-6.31	117.21	121.00
36	1	1748	G	N1-C6-O6	-6.31	116.11	119.90
36	1	660	A	N1-C6-N6	-6.31	114.82	118.60
36	1	3242	G	C8-N9-C4	6.30	108.92	106.40
1	6	1755	A	N1-C6-N6	6.30	122.38	118.60
36	5	1301	A	N9-C4-C5	-6.30	103.28	105.80
37	7	41	G	C4-C5-N7	6.30	113.32	110.80
36	1	53	G	N9-C4-C5	-6.30	102.88	105.40
65	N9	20	GLY	N-CA-C	6.30	128.86	113.10
36	5	1480	G	O4'-C1'-N9	6.30	113.24	108.20
36	5	3177	G	O5'-P-OP1	6.30	118.26	110.70
36	1	2393	G	O4'-C1'-N9	6.30	113.24	108.20
36	5	2891	U	C5-C6-N1	-6.30	119.55	122.70
36	1	939	U	C5-C4-O4	-6.30	122.12	125.90
36	1	2860	U	N3-C4-O4	6.30	123.81	119.40
36	5	947	G	C2-N3-C4	6.30	115.05	111.90
36	1	212	G	O4'-C1'-N9	6.30	113.24	108.20
1	6	964	U	O5'-P-OP2	-6.29	100.03	105.70
36	1	1789	G	N3-C2-N2	6.29	124.31	119.90
36	5	669	U	C5-C6-N1	-6.29	119.55	122.70
36	5	2211	U	C5-C4-O4	6.29	129.67	125.90
1	2	973	A	C2-N3-C4	-6.29	107.46	110.60
36	1	324	A	C4-C5-C6	6.29	120.14	117.00
36	5	189	G	N9-C4-C5	6.29	107.91	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	90	U	C6-N1-C2	6.28	124.77	121.00
36	1	2897	A	N7-C8-N9	-6.28	110.66	113.80
36	1	426	G	N3-C4-N9	6.28	129.77	126.00
36	1	1389	G	C5-C6-O6	-6.28	124.83	128.60
36	5	1301	A	C5-C6-N6	-6.28	118.68	123.70
37	3	83	U	N3-C4-C5	6.28	118.36	114.60
36	5	2632	G	N1-C6-O6	-6.28	116.13	119.90
36	1	1114	U	C6-N1-C2	6.27	124.76	121.00
36	1	1888	U	C5-C6-N1	-6.27	119.56	122.70
36	5	2397	A	O5'-P-OP2	-6.27	100.06	105.70
36	5	2694	A	O5'-P-OP1	-6.27	100.05	105.70
36	5	2910	A	OP2-P-O3'	6.27	119.00	105.20
36	5	3118	C	C5-C6-N1	6.27	124.14	121.00
36	1	806	A	C8-N9-C4	6.27	108.31	105.80
36	1	3141	A	OP2-P-O3'	6.27	119.00	105.20
36	1	1419	A	C5'-C4'-O4'	6.27	116.62	109.10
36	1	2279	A	C8-N9-C4	6.27	108.31	105.80
36	1	2306	C	N3-C4-N4	-6.27	113.61	118.00
36	5	1189	C	N1-C2-O2	-6.27	115.14	118.90
36	1	339	C	C2-N3-C4	-6.27	116.77	119.90
1	6	795	U	N3-C2-O2	-6.27	117.81	122.20
36	5	2618	G	C4-C5-N7	6.27	113.31	110.80
1	6	913	G	O5'-P-OP1	-6.27	100.06	105.70
1	2	1448	G	O5'-P-OP1	-6.26	100.06	105.70
36	1	3362	A	C4-C5-N7	6.26	113.83	110.70
36	5	1152	G	N7-C8-N9	6.26	116.23	113.10
36	1	2616	C	O5'-P-OP1	-6.26	100.06	105.70
36	5	1886	A	O5'-P-OP2	-6.26	100.06	105.70
36	5	994	G	N3-C2-N2	6.26	124.28	119.90
36	5	2389	C	N3-C4-C5	6.26	124.40	121.90
36	1	2152	A	C2-N3-C4	6.26	113.73	110.60
36	1	666	A	N7-C8-N9	-6.26	110.67	113.80
36	1	709	A	N1-C6-N6	6.26	122.35	118.60
36	1	2618	G	N1-C6-O6	-6.26	116.15	119.90
36	5	1010	G	O5'-P-OP2	-6.26	100.07	105.70
36	5	2135	U	N3-C4-C5	6.26	118.35	114.60
36	1	1133	A	C8-N9-C4	6.25	108.30	105.80
36	1	2714	G	O5'-P-OP2	6.25	118.20	110.70
11	s9	149	ARG	NE-CZ-NH1	6.25	123.43	120.30
36	1	1422	G	O5'-P-OP1	-6.25	100.08	105.70
36	1	2550	U	C5-C4-O4	6.25	129.65	125.90
36	5	2639	G	C6-C5-N7	-6.25	126.65	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1399	C	C5-C6-N1	6.25	124.12	121.00
36	5	428	A	OP2-P-O3'	6.25	118.95	105.20
36	5	1469	C	N3-C4-C5	-6.25	119.40	121.90
36	5	3078	U	C2-N1-C1'	6.25	125.19	117.70
1	6	647	G	N3-C2-N2	-6.24	115.53	119.90
64	n8	42	ARG	NE-CZ-NH1	6.24	123.42	120.30
36	5	3093	C	C5-C6-N1	-6.24	117.88	121.00
36	5	2371	G	C2-N3-C4	-6.24	108.78	111.90
36	5	2664	C	C5-C6-N1	6.24	124.12	121.00
37	7	88	G	C5-C6-O6	6.24	132.34	128.60
36	1	1881	A	N1-C6-N6	6.23	122.34	118.60
36	1	3022	G	O4'-C1'-N9	6.23	113.18	108.20
36	1	1489	A	N1-C6-N6	6.22	122.33	118.60
36	1	1891	A	C2-N3-C4	-6.22	107.49	110.60
36	1	1116	G	OP2-P-O3'	6.22	118.89	105.20
36	5	2849	C	N1-C2-O2	-6.22	115.17	118.90
1	2	1749	A	N1-C6-N6	6.22	122.33	118.60
36	5	770	G	O4'-C1'-N9	6.22	113.17	108.20
36	5	1370	G	N1-C2-N2	-6.22	110.60	116.20
36	5	1513	G	N9-C4-C5	6.22	107.89	105.40
1	2	1273	G	O4'-C1'-N9	6.21	113.17	108.20
36	1	347	G	C5-C6-O6	-6.21	124.87	128.60
36	1	633	C	C6-N1-C2	6.21	122.79	120.30
36	5	2942	C	N3-C4-N4	6.21	122.35	118.00
1	2	1782	A	C8-N9-C4	-6.21	103.31	105.80
36	5	2375	G	N3-C2-N2	6.21	124.25	119.90
36	5	2816	G	C6-C5-N7	6.21	134.13	130.40
36	1	716	A	C4-C5-N7	6.21	113.81	110.70
1	6	431	C	N1-C2-O2	6.21	122.63	118.90
36	5	1872	C	C4-C5-C6	6.21	120.51	117.40
36	1	1610	G	C8-N9-C4	-6.21	103.92	106.40
36	5	32	U	N1-C2-N3	6.21	118.63	114.90
36	5	995	U	C5-C6-N1	-6.21	119.60	122.70
36	1	1307	G	P-O3'-C3'	6.21	127.15	119.70
1	6	1269	U	N3-C2-O2	-6.21	117.86	122.20
36	1	913	A	C5-C6-N6	-6.20	118.74	123.70
36	5	3060	C	N3-C4-N4	6.20	122.34	118.00
36	5	1666	G	C5-C6-O6	6.20	132.32	128.60
36	5	824	C	C6-N1-C2	-6.20	117.82	120.30
36	1	953	G	C4-N9-C1'	-6.20	118.44	126.50
36	1	1376	C	C4-C5-C6	6.20	120.50	117.40
36	5	104	G	N1-C6-O6	6.20	123.62	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2300	G	N3-C2-N2	6.20	124.24	119.90
37	7	98	C	O5'-P-OP1	6.20	118.14	110.70
36	1	200	C	N3-C2-O2	-6.20	117.56	121.90
49	m3	47	ALA	C-N-CD	6.20	141.41	128.40
36	1	3306	U	C5-C4-O4	6.20	129.62	125.90
36	5	878	G	OP1-P-O3'	6.20	118.83	105.20
36	5	1300	G	C5-C6-O6	-6.20	124.88	128.60
1	6	1726	G	OP2-P-O3'	6.19	118.83	105.20
36	5	111	C	C6-N1-C2	6.19	122.78	120.30
36	5	3010	U	N3-C4-O4	-6.19	115.06	119.40
36	1	1445	U	N1-C2-O2	-6.19	118.47	122.80
36	1	2606	G	N1-C2-N2	-6.19	110.63	116.20
36	1	2870	C	N3-C4-C5	6.19	124.38	121.90
36	5	2424	A	N1-C6-N6	6.19	122.31	118.60
36	1	3092	C	O4'-C1'-N1	6.19	113.15	108.20
36	1	905	U	N1-C2-O2	-6.19	118.47	122.80
36	1	1507	G	C4-C5-C6	6.19	122.51	118.80
36	5	1586	G	N3-C4-N9	6.19	129.71	126.00
1	2	142	G	N3-C2-N2	-6.18	115.57	119.90
36	1	3175	U	O5'-P-OP2	-6.18	100.13	105.70
36	5	359	U	N1-C2-O2	-6.18	118.47	122.80
36	5	3060	C	C5-C4-N4	-6.18	115.87	120.20
36	5	399	A	O5'-P-OP1	-6.18	100.14	105.70
37	7	19	C	N3-C4-C5	6.18	124.37	121.90
38	8	80	A	C8-N9-C4	-6.18	103.33	105.80
1	2	619	A	OP2-P-O3'	6.18	118.80	105.20
36	1	1164	G	C5-C6-O6	6.18	132.31	128.60
36	1	2257	C	C6-N1-C2	-6.18	117.83	120.30
1	6	55	A	C8-N9-C4	6.18	108.27	105.80
36	5	1379	G	N3-C2-N2	6.18	124.23	119.90
36	1	2787	G	C2-N3-C4	6.18	114.99	111.90
36	5	1405	U	C5-C6-N1	-6.18	119.61	122.70
36	5	217	U	OP1-P-O3'	6.17	118.79	105.20
36	5	1379	G	C5-C6-O6	6.17	132.31	128.60
36	1	2369	G	N3-C4-C5	-6.17	125.51	128.60
36	5	1115	G	N3-C4-C5	-6.17	125.51	128.60
36	5	1426	C	C5-C4-N4	-6.17	115.88	120.20
1	2	1455	G	C4-C5-N7	-6.17	108.33	110.80
36	1	1447	G	O5'-P-OP2	-6.17	100.15	105.70
36	1	3041	U	N1-C2-O2	-6.17	118.48	122.80
36	5	2524	A	N9-C1'-C2'	6.17	122.02	114.00
36	5	350	C	O4'-C1'-N1	-6.17	103.27	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	892	U	N3-C4-C5	6.17	118.30	114.60
36	1	3218	A	P-O3'-C3'	6.16	127.09	119.70
1	6	163	G	C8-N9-C4	-6.16	103.94	106.40
1	6	297	U	N3-C4-O4	6.16	123.71	119.40
36	5	83	U	N3-C2-O2	-6.16	117.89	122.20
36	5	2295	A	N9-C4-C5	-6.16	103.34	105.80
77	q1	9	ARG	NE-CZ-NH2	-6.16	117.22	120.30
36	1	1429	G	N3-C4-N9	6.16	129.69	126.00
25	d3	33	LEU	CA-CB-CG	-6.16	101.14	115.30
1	6	1614	A	C5-N7-C8	-6.16	100.82	103.90
36	5	1371	G	C4-C5-N7	-6.16	108.34	110.80
36	1	867	G	N1-C2-N2	6.15	121.74	116.20
36	5	63	A	N1-C6-N6	6.15	122.29	118.60
36	1	1124	U	C5-C6-N1	6.15	125.78	122.70
36	1	2193	U	C5-C6-N1	-6.15	119.62	122.70
43	l6	30	LEU	CA-CB-CG	6.15	129.45	115.30
1	2	765	G	O4'-C1'-N9	-6.15	103.28	108.20
36	1	765	C	N3-C2-O2	-6.15	117.59	121.90
36	1	817	A	OP1-P-O3'	6.15	118.73	105.20
38	4	148	G	C5-C6-O6	6.15	132.29	128.60
36	5	573	C	N3-C4-C5	-6.15	119.44	121.90
36	5	2307	G	N3-C4-C5	-6.15	125.53	128.60
1	6	1478	G	C6-C5-N7	-6.15	126.71	130.40
36	1	1935	G	N1-C6-O6	-6.15	116.21	119.90
36	5	283	G	N1-C6-O6	6.15	123.59	119.90
1	6	637	C	O5'-P-OP2	-6.15	100.17	105.70
36	5	3316	A	N1-C6-N6	6.15	122.29	118.60
36	5	3049	A	C8-N9-C4	6.14	108.26	105.80
36	1	398	A	C5-C6-N6	-6.14	118.79	123.70
1	6	794	U	O4'-C1'-N1	6.14	113.11	108.20
36	5	40	A	O5'-P-OP1	-6.14	100.17	105.70
36	5	150	A	C5-C6-N6	-6.14	118.79	123.70
36	1	3050	U	N1-C2-O2	6.14	127.10	122.80
36	1	1313	G	C6-C5-N7	-6.14	126.72	130.40
36	1	2135	U	N1-C2-O2	6.14	127.10	122.80
1	6	542	A	N1-C6-N6	6.14	122.28	118.60
36	5	341	G	C8-N9-C4	-6.14	103.94	106.40
36	5	1116	G	N9-C4-C5	6.14	107.86	105.40
1	2	402	C	N1-C2-O2	-6.14	115.22	118.90
1	2	1782	A	N9-C4-C5	6.14	108.25	105.80
36	1	805	G	O5'-P-OP1	6.14	118.06	110.70
36	1	2920	U	N3-C4-C5	6.14	118.28	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2983	C	O5'-P-OP1	-6.14	100.18	105.70
37	3	94	C	N1-C2-O2	-6.13	115.22	118.90
36	1	907	G	O4'-C1'-N9	6.13	113.11	108.20
36	1	1351	U	N3-C2-O2	-6.13	117.91	122.20
36	5	2877	G	N1-C2-N2	-6.13	110.68	116.20
36	1	2309	A	N1-C6-N6	6.13	122.28	118.60
36	5	2700	G	C4-C5-N7	6.13	113.25	110.80
36	1	1161	G	N1-C6-O6	-6.13	116.22	119.90
36	5	2211	U	C6-N1-C2	-6.13	117.32	121.00
37	7	41	G	N9-C4-C5	-6.13	102.95	105.40
1	2	610	G	C5-C6-O6	-6.12	124.92	128.60
36	1	859	G	N3-C4-N9	6.12	129.68	126.00
1	2	1654	G	C6-N1-C2	-6.12	121.43	125.10
1	6	1280	C	N3-C4-C5	-6.12	119.45	121.90
36	5	613	G	N9-C4-C5	6.12	107.85	105.40
36	5	3098	G	O5'-P-OP2	-6.12	100.19	105.70
36	5	3185	U	O5'-P-OP2	-6.12	100.19	105.70
36	1	1420	C	C5-C4-N4	6.12	124.48	120.20
36	1	2370	G	C5-C6-N1	6.12	114.56	111.50
36	1	2572	C	C6-N1-C1'	-6.12	113.45	120.80
1	6	310	C	N1-C2-O2	-6.12	115.23	118.90
36	5	1057	A	C4-C5-N7	6.12	113.76	110.70
36	5	1115	G	N7-C8-N9	6.12	116.16	113.10
36	5	516	A	N1-C6-N6	6.12	122.27	118.60
36	1	953	G	N3-C4-N9	-6.12	122.33	126.00
36	5	922	U	C4-C5-C6	6.12	123.37	119.70
36	5	2145	A	C6-N1-C2	-6.12	114.93	118.60
1	2	145	A	C8-N9-C4	-6.12	103.35	105.80
1	6	1172	G	C8-N9-C4	-6.12	103.95	106.40
36	5	3174	A	C5-N7-C8	-6.12	100.84	103.90
36	1	2821	C	N3-C2-O2	6.11	126.18	121.90
36	5	218	G	N1-C6-O6	-6.11	116.23	119.90
41	L4	150	LEU	CA-CB-CG	6.11	129.35	115.30
36	5	520	U	N1-C2-O2	-6.11	118.52	122.80
1	2	1596	C	N1-C2-O2	6.11	122.56	118.90
36	1	1450	G	C8-N9-C4	6.11	108.84	106.40
37	7	21	G	C8-N9-C4	6.11	108.84	106.40
36	1	2392	C	C5-C4-N4	-6.11	115.93	120.20
47	m0	167	LEU	CA-CB-CG	6.11	129.34	115.30
36	1	99	A	C5'-C4'-O4'	6.10	116.42	109.10
36	1	1000	C	C5-C4-N4	-6.10	115.93	120.20
36	5	1665	C	N3-C4-C5	6.10	124.34	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2816	G	OP2-P-O3'	6.10	118.63	105.20
36	1	361	A	N1-C6-N6	-6.10	114.94	118.60
36	1	2687	G	C5-C6-O6	6.10	132.26	128.60
36	5	927	C	C2-N3-C4	-6.10	116.85	119.90
36	1	407	A	O5'-P-OP2	-6.10	100.21	105.70
36	1	2831	G	N1-C6-O6	6.10	123.56	119.90
36	5	705	A	O5'-P-OP2	-6.10	100.21	105.70
36	1	2152	A	C4-C5-N7	-6.09	107.65	110.70
36	1	2609	A	N1-C6-N6	-6.09	114.94	118.60
36	1	2826	U	N3-C4-C5	6.09	118.26	114.60
36	1	979	U	N3-C4-C5	-6.09	110.94	114.60
36	5	2992	U	N1-C2-O2	6.09	127.06	122.80
1	2	334	G	C2-N3-C4	-6.09	108.86	111.90
1	2	1456	C	N3-C2-O2	-6.09	117.64	121.90
36	1	2920	U	C5-C6-N1	-6.09	119.66	122.70
1	6	402	C	C6-N1-C2	6.09	122.74	120.30
36	5	150	A	N1-C6-N6	6.09	122.25	118.60
36	5	574	U	N1-C2-O2	-6.09	118.54	122.80
36	5	3049	A	C6-N1-C2	6.09	122.25	118.60
36	5	425	G	C8-N9-C4	6.09	108.83	106.40
36	1	922	U	N3-C2-O2	-6.09	117.94	122.20
36	1	947	G	N3-C2-N2	6.09	124.16	119.90
36	1	3207	U	C2-N1-C1'	-6.09	110.40	117.70
36	5	201	A	OP1-P-OP2	-6.09	110.47	119.60
54	m8	178	ARG	NE-CZ-NH2	-6.09	117.26	120.30
36	5	1886	A	N1-C6-N6	6.08	122.25	118.60
1	6	1755	A	C4-C5-N7	6.08	113.74	110.70
36	5	3123	A	C8-N9-C4	6.08	108.23	105.80
36	1	1820	U	P-O3'-C3'	6.08	127.00	119.70
36	1	2216	G	C4-C5-N7	-6.08	108.37	110.80
36	1	2281	A	N9-C4-C5	-6.08	103.37	105.80
36	1	2293	C	N3-C4-N4	6.08	122.25	118.00
36	1	3214	U	N1-C2-N3	6.08	118.55	114.90
1	2	1559	A	C5-N7-C8	-6.08	100.86	103.90
36	1	2115	G	C5-C6-O6	-6.07	124.95	128.60
36	1	2434	U	C5-C6-N1	-6.07	119.66	122.70
36	1	3319	U	P-O3'-C3'	6.07	126.99	119.70
36	1	2314	U	C5-C4-O4	-6.07	122.26	125.90
36	1	923	C	C6-N1-C2	6.07	122.73	120.30
36	5	354	U	N1-C2-O2	6.07	127.05	122.80
36	1	1308	A	O5'-P-OP1	6.07	117.98	110.70
36	5	426	G	C6-C5-N7	6.07	134.04	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	359	U	C5-C6-N1	-6.07	119.67	122.70
36	1	2586	G	C5-C6-O6	-6.07	124.96	128.60
36	1	2370	G	OP1-P-OP2	6.06	128.70	119.60
36	1	2618	G	C5-C6-N1	6.06	114.53	111.50
36	1	2632	G	N1-C6-O6	-6.06	116.26	119.90
36	5	2732	G	N3-C4-C5	-6.06	125.57	128.60
37	7	115	G	C8-N9-C4	-6.06	103.97	106.40
36	5	1484	U	C2-N3-C4	-6.06	123.36	127.00
50	m4	135	LEU	CA-CB-CG	6.06	129.24	115.30
36	1	785	G	N1-C6-O6	-6.06	116.26	119.90
36	1	1371	G	N1-C6-O6	-6.06	116.27	119.90
36	1	2649	A	C8-N9-C4	6.06	108.22	105.80
36	5	2800	G	N3-C4-N9	-6.06	122.36	126.00
36	1	60	A	N1-C6-N6	6.06	122.23	118.60
36	1	2522	G	C8-N9-C1'	-6.06	119.12	127.00
36	5	3154	C	C2-N3-C4	6.06	122.93	119.90
36	5	350	C	C6-N1-C2	-6.06	117.88	120.30
36	5	2830	G	N1-C2-N3	6.05	127.53	123.90
36	1	804	C	C2-N1-C1'	-6.05	112.14	118.80
36	5	2142	A	C5-C6-N1	6.05	120.73	117.70
36	1	2389	C	C5-C6-N1	-6.05	117.97	121.00
1	6	371	G	N1-C6-O6	6.05	123.53	119.90
1	6	977	A	N1-C6-N6	6.05	122.23	118.60
36	5	972	A	O5'-P-OP2	6.05	117.96	110.70
1	2	1761	U	P-O3'-C3'	6.05	126.96	119.70
36	1	3109	G	C5-N7-C8	6.05	107.32	104.30
36	5	702	C	C6-N1-C2	-6.05	117.88	120.30
36	5	1162	U	C2-N3-C4	-6.05	123.37	127.00
38	8	80	A	N7-C8-N9	6.05	116.82	113.80
36	1	2719	U	C2-N1-C1'	-6.05	110.44	117.70
36	5	1586	G	N3-C4-C5	-6.05	125.58	128.60
36	1	1724	U	O4'-C1'-N1	6.04	113.04	108.20
36	1	645	A	C5-C6-N1	6.04	120.72	117.70
36	1	1907	C	C2-N3-C4	6.04	122.92	119.90
36	1	2940	A	N1-C2-N3	6.04	132.32	129.30
36	5	589	A	N1-C6-N6	6.04	122.23	118.60
36	5	2278	C	N3-C4-N4	-6.04	113.77	118.00
36	5	2917	G	C8-N9-C1'	-6.04	119.14	127.00
36	1	1389	G	C4-C5-N7	6.04	113.22	110.80
36	1	2958	A	C5-C6-N1	6.04	120.72	117.70
1	6	696	C	C2-N1-C1'	-6.04	112.15	118.80
36	5	39	A	C5-C6-N6	-6.04	118.87	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	974	G	C4-N9-C1'	6.04	134.35	126.50
36	5	3185	U	C2-N3-C4	-6.04	123.38	127.00
1	6	349	U	O5'-P-OP2	-6.04	100.26	105.70
36	5	2707	C	O5'-P-OP2	-6.04	100.27	105.70
36	5	3343	G	N3-C4-N9	6.04	129.62	126.00
1	6	1522	U	O5'-P-OP2	-6.04	100.27	105.70
36	1	1499	C	N1-C2-O2	-6.03	115.28	118.90
36	1	2400	G	C2-N3-C4	-6.03	108.88	111.90
36	1	2909	U	N1-C2-O2	-6.03	118.58	122.80
36	5	2614	G	C5-N7-C8	6.03	107.32	104.30
36	5	584	G	C5-C6-O6	6.03	132.22	128.60
36	1	1604	G	C4-N9-C1'	6.03	134.34	126.50
36	5	1520	G	C2-N3-C4	6.03	114.92	111.90
36	1	797	U	C5-C6-N1	-6.03	119.69	122.70
21	c9	57	ARG	NE-CZ-NH1	6.03	123.31	120.30
36	1	2977	G	O5'-P-OP1	-6.03	100.28	105.70
36	1	228	U	N3-C2-O2	-6.02	117.98	122.20
36	1	1556	C	N1-C2-O2	6.02	122.51	118.90
36	1	2403	G	N3-C2-N2	6.02	124.12	119.90
36	1	3306	U	C2-N3-C4	-6.02	123.39	127.00
1	6	144	U	N1-C2-O2	6.02	127.02	122.80
36	1	847	A	N9-C4-C5	-6.02	103.39	105.80
1	6	1489	U	C5-C4-O4	-6.02	122.29	125.90
36	1	398	A	C6-C5-N7	-6.02	128.09	132.30
36	1	410	U	N1-C2-O2	-6.02	118.59	122.80
36	1	2216	G	C5-C6-O6	6.02	132.21	128.60
36	1	2388	U	N1-C2-O2	-6.02	118.59	122.80
36	1	3344	A	O4'-C1'-N9	6.02	113.02	108.20
1	6	1514	U	N3-C4-O4	-6.02	115.19	119.40
36	5	2618	G	C5-C6-O6	-6.02	124.99	128.60
36	5	3173	G	N1-C6-O6	6.02	123.51	119.90
36	1	972	A	N7-C8-N9	-6.02	110.79	113.80
36	5	2698	G	C8-N9-C4	6.02	108.81	106.40
36	5	2817	A	OP1-P-OP2	-6.02	110.58	119.60
36	1	953	G	C8-N9-C1'	6.01	134.82	127.00
1	6	1473	U	N1-C2-N3	6.01	118.51	114.90
36	5	880	G	C5-C6-O6	-6.01	124.99	128.60
36	5	2375	G	O5'-P-OP2	-6.01	100.29	105.70
36	1	940	G	N1-C6-O6	-6.01	116.29	119.90
36	1	2418	G	OP1-P-O3'	6.01	118.42	105.20
1	6	1783	C	O5'-P-OP2	-6.01	100.29	105.70
36	5	1050	U	N3-C2-O2	-6.01	117.99	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2801	A	N1-C2-N3	-6.01	126.29	129.30
1	2	1274	C	N3-C2-O2	-6.01	117.69	121.90
36	1	92	G	C5-C6-N1	6.01	114.50	111.50
36	1	2418	G	C2-N3-C4	6.01	114.91	111.90
12	c0	97	PRO	N-CA-CB	6.01	110.51	103.30
36	5	3140	G	C8-N9-C1'	-6.01	119.19	127.00
73	O7	65	ARG	NE-CZ-NH1	6.01	123.30	120.30
1	6	371	G	C5-C6-O6	-6.01	125.00	128.60
36	5	2915	U	C2-N3-C4	-6.01	123.40	127.00
36	1	2293	C	C5-C4-N4	-6.00	116.00	120.20
1	6	942	G	N1-C6-O6	-6.00	116.30	119.90
37	7	110	G	O5'-P-OP2	-6.00	100.30	105.70
1	2	1119	G	N1-C6-O6	-6.00	116.30	119.90
36	1	805	G	C5-C6-N1	6.00	114.50	111.50
52	m6	37	ARG	NE-CZ-NH2	-6.00	117.30	120.30
36	1	784	A	N1-C6-N6	6.00	122.20	118.60
1	2	1119	G	C5-C6-O6	6.00	132.20	128.60
36	1	388	G	C8-N9-C4	-6.00	104.00	106.40
36	1	1125	U	OP1-P-OP2	-6.00	110.60	119.60
36	5	2623	G	C8-N9-C4	6.00	108.80	106.40
36	1	2679	A	N1-C6-N6	6.00	122.20	118.60
36	5	35	A	N1-C6-N6	6.00	122.20	118.60
36	5	1130	A	C2-N3-C4	6.00	113.60	110.60
36	1	3002	C	N3-C4-C5	5.99	124.30	121.90
36	1	1329	U	C6-N1-C2	-5.99	117.41	121.00
36	1	2788	C	O5'-P-OP2	-5.99	100.31	105.70
36	5	642	U	O5'-P-OP2	-5.99	100.31	105.70
36	1	635	G	N1-C6-O6	5.99	123.49	119.90
36	1	2864	A	C8-N9-C4	-5.99	103.41	105.80
12	c0	83	PRO	N-CA-CB	5.99	110.49	103.30
36	5	818	C	N1-C2-O2	-5.99	115.31	118.90
36	5	1878	G	C8-N9-C1'	-5.99	119.22	127.00
36	5	2345	A	C8-N9-C4	5.99	108.19	105.80
36	1	957	C	N3-C2-O2	5.99	126.09	121.90
36	1	1166	G	N1-C6-O6	5.99	123.49	119.90
36	1	2142	A	OP1-P-O3'	5.99	118.37	105.20
36	5	1284	C	C5-C6-N1	5.99	123.99	121.00
36	1	368	G	N1-C2-N2	-5.98	110.82	116.20
36	1	768	C	C6-N1-C2	-5.98	117.91	120.30
36	1	1351	U	N1-C2-O2	5.98	126.99	122.80
36	5	2650	U	C2-N3-C4	-5.98	123.41	127.00
36	1	85	A	C2-N3-C4	-5.98	107.61	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1064	A	N9-C4-C5	-5.98	103.41	105.80
36	5	1410	U	O5'-P-OP2	-5.98	100.32	105.70
36	5	1506	A	N9-C4-C5	5.98	108.19	105.80
37	7	94	C	N3-C4-C5	5.98	124.29	121.90
1	6	321	C	C6-N1-C2	-5.98	117.91	120.30
1	6	1503	A	O4'-C1'-N9	5.98	112.98	108.20
36	5	641	C	OP1-P-O3'	5.98	118.35	105.20
36	5	2794	G	C5-C6-N1	5.98	114.49	111.50
36	5	2995	A	N7-C8-N9	-5.98	110.81	113.80
1	2	1092	A	N1-C6-N6	5.98	122.19	118.60
36	1	973	A	C8-N9-C4	-5.98	103.41	105.80
36	1	1314	C	C6-N1-C2	-5.98	117.91	120.30
36	5	1163	A	O5'-P-OP2	-5.98	100.32	105.70
36	5	2938	G	OP1-P-OP2	5.98	128.56	119.60
36	1	648	C	OP1-P-OP2	5.98	128.56	119.60
36	5	1890	U	C5-C6-N1	-5.98	119.71	122.70
36	5	2392	C	C6-N1-C2	5.98	122.69	120.30
1	2	142	G	N1-C6-O6	5.97	123.48	119.90
36	5	960	U	N1-C2-O2	5.97	126.98	122.80
36	5	1200	A	C4-C5-C6	5.97	119.99	117.00
36	5	3215	A	C2-N3-C4	-5.97	107.61	110.60
1	2	543	C	N3-C2-O2	-5.97	117.72	121.90
36	1	766	U	O5'-P-OP1	-5.97	100.33	105.70
36	5	1365	G	N1-C2-N2	-5.97	110.83	116.20
36	5	2401	A	C2-N3-C4	5.97	113.58	110.60
36	1	747	A	N1-C6-N6	5.96	122.18	118.60
36	5	861	C	N3-C2-O2	5.96	126.08	121.90
36	5	3293	U	C6-N1-C2	5.96	124.58	121.00
1	6	1749	A	N1-C6-N6	5.96	122.18	118.60
36	1	2634	U	N1-C2-N3	5.96	118.48	114.90
1	6	767	U	C5-C4-O4	5.96	129.48	125.90
36	5	3107	U	N3-C2-O2	-5.96	118.03	122.20
36	1	817	A	C6-N1-C2	-5.96	115.03	118.60
36	1	1523	U	N1-C2-O2	-5.96	118.63	122.80
36	5	636	C	C5-C6-N1	-5.96	118.02	121.00
36	5	1154	A	C2-N3-C4	5.96	113.58	110.60
36	5	1605	A	O4'-C1'-N9	5.96	112.97	108.20
36	5	2278	C	N1-C2-O2	5.96	122.47	118.90
36	5	2396	G	N9-C4-C5	5.96	107.78	105.40
36	1	2409	G	N3-C2-N2	5.96	124.07	119.90
36	1	3143	C	N3-C2-O2	5.96	126.07	121.90
36	1	1192	C	N1-C2-O2	5.95	122.47	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	861	C	N3-C4-N4	5.95	122.17	118.00
36	5	2849	C	OP1-P-OP2	5.95	128.53	119.60
52	m6	84	LEU	CB-CG-CD1	-5.95	100.88	111.00
36	1	1493	G	O4'-C1'-N9	5.95	112.96	108.20
36	1	51	A	C5-C6-N6	-5.95	118.94	123.70
37	7	35	C	C6-N1-C2	5.95	122.68	120.30
36	1	196	G	N1-C6-O6	5.95	123.47	119.90
36	1	922	U	N3-C4-O4	-5.95	115.24	119.40
36	1	61	A	C2-N3-C4	-5.94	107.63	110.60
36	5	2719	U	C6-N1-C1'	5.94	129.52	121.20
36	1	1175	C	C5-C6-N1	-5.94	118.03	121.00
1	6	151	G	N3-C4-N9	-5.94	122.43	126.00
64	n8	73	LEU	CA-CB-CG	5.94	128.97	115.30
36	5	2928	C	C4-C5-C6	5.94	120.37	117.40
36	1	659	G	C6-C5-N7	-5.94	126.84	130.40
36	5	2285	C	C5-C6-N1	5.94	123.97	121.00
37	3	73	C	N1-C2-O2	5.94	122.46	118.90
45	l8	69	LEU	CA-CB-CG	5.94	128.96	115.30
36	1	1151	U	C6-N1-C2	-5.94	117.44	121.00
36	5	214	G	C8-N9-C4	5.94	108.78	106.40
1	2	1291	G	C2-N3-C4	-5.93	108.93	111.90
36	1	620	U	N1-C1'-C2'	5.93	121.72	114.00
36	5	1883	A	N1-C6-N6	-5.93	115.04	118.60
36	5	2377	G	N1-C6-O6	-5.93	116.34	119.90
36	1	3190	C	N3-C4-C5	5.93	124.27	121.90
36	1	622	A	N1-C6-N6	5.93	122.16	118.60
36	1	2606	G	N9-C4-C5	-5.93	103.03	105.40
36	1	2665	U	O5'-P-OP1	-5.93	100.36	105.70
1	6	102	U	O5'-P-OP1	-5.93	100.36	105.70
36	1	324	A	N3-C4-C5	-5.93	122.65	126.80
36	1	960	U	C2-N3-C4	-5.93	123.44	127.00
36	1	1494	U	N3-C4-O4	-5.93	115.25	119.40
36	1	2883	U	C5-C6-N1	5.93	125.66	122.70
37	3	88	G	C4-C5-N7	-5.93	108.43	110.80
36	1	2906	C	C2-N3-C4	-5.93	116.94	119.90
36	5	719	U	N3-C2-O2	-5.93	118.05	122.20
36	5	3092	C	O4'-C1'-N1	5.93	112.94	108.20
36	5	46	U	N1-C2-O2	5.92	126.95	122.80
78	Q2	87	ARG	NE-CZ-NH1	-5.92	117.34	120.30
36	5	1834	U	C6-N1-C2	-5.92	117.45	121.00
36	1	3083	G	N3-C4-C5	-5.92	125.64	128.60
36	5	389	A	C8-N9-C4	-5.92	103.43	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	102	C	N1-C2-O2	-5.92	115.35	118.90
36	1	3055	U	C2-N1-C1'	5.92	124.80	117.70
36	1	3101	G	C8-N9-C4	5.92	108.77	106.40
56	N0	115	ARG	NE-CZ-NH1	5.92	123.26	120.30
36	5	1083	G	OP1-P-OP2	5.92	128.47	119.60
36	5	3204	C	N3-C4-C5	5.92	124.27	121.90
36	1	1838	G	N9-C4-C5	-5.91	103.03	105.40
36	1	3264	G	O5'-P-OP1	-5.91	100.38	105.70
1	6	93	A	N9-C4-C5	-5.91	103.44	105.80
36	1	1173	U	C5-C6-N1	-5.91	119.74	122.70
36	1	2320	A	C2-N3-C4	-5.91	107.64	110.60
36	5	3060	C	N3-C2-O2	5.91	126.04	121.90
36	5	2930	A	N9-C4-C5	5.91	108.16	105.80
36	1	33	G	C8-N9-C4	-5.91	104.04	106.40
36	1	806	A	C5-C6-N6	-5.91	118.97	123.70
36	5	92	G	C5-C6-N1	5.91	114.45	111.50
36	1	2824	G	C8-N9-C4	-5.91	104.04	106.40
36	1	3344	A	C4-C5-N7	5.91	113.65	110.70
36	5	641	C	N1-C2-O2	-5.91	115.36	118.90
36	5	869	G	N1-C6-O6	-5.91	116.36	119.90
1	2	453	U	C5-C4-O4	5.90	129.44	125.90
36	1	2551	U	N1-C2-N3	5.90	118.44	114.90
36	5	631	U	N1-C2-N3	5.90	118.44	114.90
36	5	824	C	N3-C2-O2	-5.90	117.77	121.90
36	5	2928	C	N3-C2-O2	-5.90	117.77	121.90
36	1	3143	C	N1-C2-O2	-5.90	115.36	118.90
1	6	387	A	N1-C6-N6	-5.90	115.06	118.60
52	m6	128	ARG	NE-CZ-NH2	-5.90	117.35	120.30
36	1	637	C	C2-N3-C4	-5.90	116.95	119.90
36	1	2977	G	C5-C6-N1	5.90	114.45	111.50
1	2	1773	C	C5-C6-N1	5.90	123.95	121.00
38	4	94	C	N3-C4-C5	5.90	124.26	121.90
36	5	1390	A	C5-C6-N6	5.90	128.42	123.70
36	1	391	A	N1-C6-N6	-5.89	115.06	118.60
36	1	859	G	C8-N9-C1'	-5.89	119.34	127.00
36	1	2404	A	OP1-P-OP2	-5.89	110.76	119.60
36	5	2171	G	N1-C6-O6	-5.89	116.36	119.90
36	5	2350	C	C2-N3-C4	-5.89	116.95	119.90
36	1	3178	A	N1-C6-N6	5.89	122.14	118.60
54	M8	179	ARG	NE-CZ-NH2	-5.89	117.35	120.30
36	1	979	U	C5-C4-O4	5.89	129.43	125.90
36	1	2409	G	N3-C4-C5	-5.89	125.65	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2723	U	N3-C2-O2	5.89	126.32	122.20
36	5	2730	G	N1-C6-O6	5.89	123.44	119.90
36	1	114	A	N1-C6-N6	5.89	122.13	118.60
36	1	3112	G	C5-C6-O6	-5.89	125.07	128.60
36	5	2144	A	O4'-C1'-N9	5.89	112.91	108.20
36	1	2415	C	C5-C6-N1	-5.89	118.06	121.00
36	1	1048	A	N1-C2-N3	-5.89	126.36	129.30
36	1	949	C	C6-N1-C2	-5.88	117.95	120.30
36	1	2846	U	N1-C2-N3	5.88	118.43	114.90
36	1	2886	U	C5-C4-O4	-5.88	122.37	125.90
36	1	2820	A	C2-N3-C4	5.88	113.54	110.60
36	5	2408	U	N1-C2-N3	5.88	118.43	114.90
38	4	30	C	C5-C4-N4	5.88	124.31	120.20
36	5	344	A	C8-N9-C4	5.88	108.15	105.80
36	5	2514	U	O5'-P-OP1	-5.88	100.41	105.70
36	5	2658	G	C8-N9-C4	5.88	108.75	106.40
36	5	3097	C	C6-N1-C2	-5.88	117.95	120.30
36	1	652	G	N3-C2-N2	5.88	124.01	119.90
36	5	35	A	C2-N3-C4	-5.88	107.66	110.60
37	7	101	G	C8-N9-C4	5.88	108.75	106.40
37	7	120	C	C5-C6-N1	-5.88	118.06	121.00
1	6	1000	C	N3-C2-O2	-5.88	117.79	121.90
36	1	517	G	N9-C4-C5	5.87	107.75	105.40
36	5	1141	C	N1-C2-O2	-5.87	115.38	118.90
36	5	2777	G	C5-C6-O6	5.87	132.12	128.60
38	8	32	C	N3-C2-O2	5.87	126.01	121.90
36	1	2385	G	C8-N9-C4	5.87	108.75	106.40
36	5	2796	G	O5'-P-OP2	-5.87	100.42	105.70
37	7	67	G	N3-C2-N2	-5.87	115.79	119.90
36	1	3010	U	N3-C2-O2	-5.87	118.09	122.20
1	6	1470	C	N1-C2-O2	-5.87	115.38	118.90
36	5	2293	C	C2-N1-C1'	5.87	125.26	118.80
36	1	910	G	C5-C6-O6	5.87	132.12	128.60
36	1	1307	G	OP1-P-O3'	5.87	118.11	105.20
36	1	2149	A	C5-C6-N1	-5.87	114.77	117.70
36	1	3081	C	N3-C4-N4	-5.87	113.89	118.00
36	1	3209	A	C4-C5-N7	5.87	113.63	110.70
20	c8	116	LEU	CA-CB-CG	5.87	128.80	115.30
36	5	2855	U	C5-C6-N1	5.87	125.64	122.70
36	5	3374	U	N3-C4-O4	-5.87	115.29	119.40
37	3	81	U	C6-N1-C2	5.87	124.52	121.00
36	1	61	A	N1-C6-N6	5.87	122.12	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2340	U	N3-C4-O4	-5.87	115.29	119.40
36	1	3055	U	C6-N1-C1'	-5.87	112.99	121.20
1	6	402	C	O4'-C1'-N1	5.87	112.89	108.20
36	5	2620	G	C2-N3-C4	5.87	114.83	111.90
36	1	1152	G	C5-C6-O6	-5.86	125.08	128.60
36	1	2986	U	C5-C6-N1	-5.86	119.77	122.70
1	6	1432	U	O4'-C1'-N1	5.86	112.89	108.20
18	C6	28	LEU	CA-CB-CG	5.86	128.78	115.30
36	1	2306	C	C5-C4-N4	5.86	124.30	120.20
1	6	3	U	C6-N1-C2	5.86	124.52	121.00
36	5	75	G	O5'-P-OP2	-5.86	100.43	105.70
36	1	1349	G	C8-N9-C1'	-5.86	119.39	127.00
36	1	2391	G	N1-C2-N2	-5.86	110.93	116.20
1	2	554	C	C2-N1-C1'	5.86	125.24	118.80
36	1	1305	U	N1-C2-O2	5.86	126.90	122.80
37	3	85	G	OP2-P-O3'	5.86	118.08	105.20
37	3	97	A	N9-C4-C5	5.86	108.14	105.80
1	6	1596	C	C5-C4-N4	5.86	124.30	120.20
36	5	947	G	N1-C6-O6	-5.86	116.39	119.90
36	5	1208	U	N3-C4-O4	-5.86	115.30	119.40
36	5	1412	G	N3-C4-N9	-5.86	122.49	126.00
36	5	3093	C	C2-N1-C1'	-5.85	112.36	118.80
36	1	694	C	N3-C4-C5	5.85	124.24	121.90
36	1	1555	U	C5-C6-N1	-5.85	119.77	122.70
1	6	3	U	C5-C6-N1	-5.85	119.77	122.70
36	5	1338	C	N1-C2-O2	-5.85	115.39	118.90
36	5	1429	G	N3-C2-N2	5.85	124.00	119.90
36	5	2930	A	C5-C6-N1	5.85	120.62	117.70
1	2	1012	U	C2-N3-C4	5.85	130.51	127.00
1	2	1280	C	N3-C4-C5	-5.85	119.56	121.90
36	1	2979	U	C2-N3-C4	-5.85	123.49	127.00
36	5	840	C	N3-C2-O2	-5.85	117.81	121.90
36	1	1494	U	C2-N3-C4	-5.85	123.49	127.00
1	6	371	G	C6-C5-N7	-5.85	126.89	130.40
1	6	965	U	N1-C2-O2	5.85	126.89	122.80
36	5	1159	A	N1-C2-N3	-5.85	126.38	129.30
36	5	2730	G	C5-C6-O6	-5.85	125.09	128.60
36	1	2335	G	C8-N9-C4	5.85	108.74	106.40
36	1	905	U	N1-C2-N3	5.84	118.41	114.90
36	1	1364	C	C2-N3-C4	-5.84	116.98	119.90
38	4	21	C	C6-N1-C2	5.84	122.64	120.30
36	1	397	A	N1-C6-N6	-5.84	115.09	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1380	G	C2-N3-C4	-5.84	108.98	111.90
1	6	1097	U	P-O3'-C3'	5.84	126.71	119.70
36	5	1615	C	O5'-P-OP1	-5.84	100.44	105.70
36	1	3096	C	O5'-P-OP1	-5.84	100.44	105.70
36	1	3344	A	N1-C2-N3	5.84	132.22	129.30
38	4	103	G	N3-C4-C5	-5.84	125.68	128.60
36	5	1303	A	O5'-P-OP1	-5.84	100.44	105.70
36	1	2137	U	O4'-C1'-N1	5.84	112.87	108.20
1	6	1670	G	O5'-P-OP2	-5.84	100.44	105.70
36	5	919	U	N1-C2-N3	5.84	118.40	114.90
36	5	3118	C	C6-N1-C2	-5.84	117.96	120.30
36	5	3198	U	C5-C4-O4	-5.84	122.40	125.90
36	5	2134	G	N1-C6-O6	-5.84	116.40	119.90
1	2	577	G	C5-N7-C8	-5.84	101.38	104.30
25	D3	23	ARG	NE-CZ-NH2	-5.84	117.38	120.30
1	6	402	C	O5'-P-OP1	5.84	117.70	110.70
1	6	901	G	C5-N7-C8	-5.84	101.38	104.30
36	5	505	G	N9-C4-C5	5.84	107.73	105.40
36	5	1059	G	C5-C6-O6	-5.84	125.10	128.60
36	5	1371	G	C5-N7-C8	5.84	107.22	104.30
1	2	1129	U	N3-C4-C5	5.83	118.10	114.60
1	2	1479	A	N1-C6-N6	5.83	122.10	118.60
36	1	2372	A	C8-N9-C4	-5.83	103.47	105.80
1	6	1793	G	N9-C4-C5	5.83	107.73	105.40
21	c9	57	ARG	NE-CZ-NH2	-5.83	117.38	120.30
36	5	3143	C	N3-C2-O2	5.83	125.98	121.90
36	1	282	G	C2'-C3'-O3'	5.83	123.03	113.70
36	5	1787	A	N1-C6-N6	5.83	122.10	118.60
1	2	1748	G	C5-C6-O6	5.83	132.10	128.60
36	1	2397	A	O5'-P-OP2	-5.83	100.45	105.70
36	5	1057	A	C5-C6-N6	-5.83	119.04	123.70
36	5	2800	G	N3-C2-N2	-5.83	115.82	119.90
36	1	221	A	O5'-P-OP2	-5.83	100.46	105.70
36	1	2938	G	OP1-P-O3'	5.83	118.02	105.20
36	1	14	U	O5'-P-OP2	-5.83	100.46	105.70
36	1	2249	G	P-O3'-C3'	5.83	126.69	119.70
36	5	3005	A	C5-N7-C8	5.83	106.81	103.90
36	5	3214	U	N3-C4-O4	-5.83	115.32	119.40
37	7	11	A	N1-C6-N6	5.83	122.09	118.60
36	1	2752	U	N3-C4-O4	-5.82	115.32	119.40
1	6	769	A	N1-C6-N6	-5.82	115.11	118.60
36	1	1440	G	N3-C2-N2	5.82	123.97	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1902	G	N3-C4-N9	5.82	129.49	126.00
36	1	2756	C	C2-N1-C1'	5.82	125.20	118.80
36	1	1433	A	O5'-P-OP1	-5.82	100.46	105.70
36	1	341	G	C5-C6-O6	-5.82	125.11	128.60
36	1	611	A	O5'-P-OP1	5.82	117.68	110.70
1	6	864	U	N3-C4-O4	-5.82	115.33	119.40
36	5	2162	U	C2-N3-C4	-5.82	123.51	127.00
36	1	926	A	N1-C6-N6	5.81	122.09	118.60
36	5	3245	A	C8-N9-C4	-5.81	103.47	105.80
36	1	44	U	C5-C6-N1	-5.81	119.80	122.70
1	6	557	G	N1-C6-O6	-5.81	116.42	119.90
36	5	3362	A	N1-C2-N3	5.81	132.20	129.30
36	1	3269	U	N3-C2-O2	-5.81	118.14	122.20
1	6	337	G	C5-N7-C8	-5.81	101.40	104.30
36	5	1177	G	N9-C4-C5	5.81	107.72	105.40
36	1	200	C	C2-N1-C1'	5.80	125.18	118.80
36	5	1483	G	O4'-C1'-N9	5.80	112.84	108.20
52	m6	27	LEU	CB-CG-CD1	-5.80	101.13	111.00
36	5	1190	A	N1-C6-N6	-5.80	115.12	118.60
36	5	1157	G	C5-C6-O6	5.80	132.08	128.60
36	5	2618	G	N9-C4-C5	-5.80	103.08	105.40
36	1	283	G	O4'-C1'-N9	-5.80	103.56	108.20
36	1	304	G	N1-C2-N2	5.80	121.42	116.20
36	1	1893	A	N1-C6-N6	-5.80	115.12	118.60
36	1	2802	A	N1-C6-N6	-5.80	115.12	118.60
1	6	287	G	C5-C6-O6	-5.80	125.12	128.60
36	5	2950	G	O4'-C1'-N9	5.80	112.84	108.20
36	1	2279	A	N1-C6-N6	5.79	122.08	118.60
1	2	580	A	C8-N9-C4	-5.79	103.48	105.80
1	2	1190	C	C6-N1-C2	5.79	122.62	120.30
1	6	1680	G	C5-C6-O6	-5.79	125.12	128.60
36	5	83	U	N1-C2-O2	5.79	126.85	122.80
36	1	2911	A	C8-N9-C4	5.79	108.12	105.80
1	2	213	A	C8-N9-C4	5.79	108.12	105.80
36	1	651	G	C8-N9-C1'	-5.79	119.47	127.00
36	1	704	U	O5'-P-OP2	-5.79	100.49	105.70
36	1	1858	A	N3-C4-C5	-5.79	122.75	126.80
36	1	1890	U	C6-N1-C2	5.79	124.47	121.00
36	1	2176	U	N3-C2-O2	-5.79	118.15	122.20
36	1	2424	A	C5-C6-N6	-5.79	119.07	123.70
1	6	1389	C	N1-C2-O2	5.79	122.37	118.90
1	6	1735	U	N3-C4-O4	-5.79	115.35	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	718	G	N3-C4-N9	-5.79	122.53	126.00
36	1	895	A	N3-C4-C5	5.79	130.85	126.80
54	M8	178	ARG	NE-CZ-NH1	-5.79	117.41	120.30
1	2	1096	C	N1-C2-O2	5.79	122.37	118.90
36	1	1326	A	C8-N9-C4	5.79	108.11	105.80
36	1	2913	C	O5'-P-OP1	-5.79	100.49	105.70
1	6	1020	A	N1-C2-N3	5.79	132.19	129.30
36	5	39	A	N9-C4-C5	-5.79	103.49	105.80
36	5	103	G	C5-C6-O6	5.79	132.07	128.60
36	5	424	G	O5'-P-OP2	-5.79	100.49	105.70
36	5	2141	U	OP2-P-O3'	5.79	117.93	105.20
36	1	2307	G	N1-C6-O6	-5.78	116.43	119.90
36	1	678	G	C5-C6-O6	-5.78	125.13	128.60
36	1	1615	C	C2-N3-C4	-5.78	117.01	119.90
36	1	2647	A	N1-C2-N3	5.78	132.19	129.30
1	6	400	A	OP2-P-O3'	5.78	117.91	105.20
36	5	2767	U	C5-C4-O4	5.78	129.37	125.90
36	5	2176	U	N3-C2-O2	-5.78	118.16	122.20
1	6	1078	C	N3-C4-N4	-5.77	113.96	118.00
36	5	650	C	C2-N3-C4	-5.77	117.01	119.90
36	5	753	C	C2-N1-C1'	5.77	125.15	118.80
36	5	2307	G	C8-N9-C4	-5.77	104.09	106.40
36	1	1408	G	O5'-P-OP1	-5.77	100.50	105.70
36	1	1140	G	C8-N9-C1'	-5.77	119.50	127.00
36	5	931	C	C2-N3-C4	-5.77	117.02	119.90
36	5	952	A	C5-C6-N6	-5.77	119.08	123.70
36	5	2113	A	C8-N9-C4	5.77	108.11	105.80
36	5	3302	U	N3-C4-C5	5.77	118.06	114.60
36	1	2309	A	C8-N9-C4	5.77	108.11	105.80
36	5	1389	G	C5-C6-O6	-5.77	125.14	128.60
36	5	2968	G	N7-C8-N9	-5.77	110.22	113.10
36	5	3377	G	C5-C6-O6	-5.77	125.14	128.60
36	1	2818	U	O5'-P-OP1	-5.76	100.51	105.70
36	5	817	A	O5'-P-OP1	-5.76	100.51	105.70
36	1	2872	A	C8-N9-C4	5.76	108.11	105.80
36	1	2827	U	N1-C2-N3	5.76	118.36	114.90
1	6	102	U	N1-C2-O2	-5.76	118.77	122.80
1	6	308	C	C2-N1-C1'	-5.76	112.46	118.80
36	5	33	G	C6-N1-C2	-5.76	121.64	125.10
36	5	3372	A	N1-C6-N6	-5.76	115.14	118.60
36	1	41	G	N1-C6-O6	-5.76	116.44	119.90
36	1	917	A	C5-C6-N6	5.76	128.31	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2726	C	C4-C5-C6	5.76	120.28	117.40
36	1	2880	U	OP2-P-O3'	5.76	117.87	105.20
1	6	1000	C	C4-C5-C6	5.76	120.28	117.40
1	6	1747	G	O5'-P-OP2	-5.76	100.52	105.70
36	5	1402	C	C4-C5-C6	5.76	120.28	117.40
36	5	3047	U	N3-C2-O2	-5.76	118.17	122.20
1	6	1361	U	C2-N1-C1'	5.76	124.61	117.70
1	6	1766	A	N1-C6-N6	5.76	122.05	118.60
36	5	434	U	O5'-P-OP1	5.76	117.61	110.70
36	5	437	G	N3-C4-N9	-5.76	122.55	126.00
36	5	2954	U	O4'-C1'-N1	5.76	112.81	108.20
36	5	3335	A	O5'-P-OP2	-5.76	100.52	105.70
49	m3	46	ILE	CG1-CB-CG2	-5.76	98.73	111.40
36	5	1481	A	N7-C8-N9	5.75	116.68	113.80
36	1	2986	U	N1-C2-N3	5.75	118.35	114.90
36	5	880	G	N1-C6-O6	5.75	123.35	119.90
36	5	1171	G	N1-C2-N2	-5.75	111.02	116.20
3	S1	70	LEU	CA-CB-CG	5.75	128.53	115.30
36	1	1604	G	C8-N9-C1'	-5.75	119.52	127.00
36	1	2408	U	N3-C2-O2	-5.75	118.17	122.20
36	5	3138	U	N1-C2-O2	-5.75	118.77	122.80
36	1	1595	U	C2-N1-C1'	-5.75	110.80	117.70
36	5	1452	A	N9-C4-C5	-5.75	103.50	105.80
36	5	2758	A	C8-N9-C4	-5.75	103.50	105.80
1	2	610	G	N1-C6-O6	5.75	123.35	119.90
1	2	1280	C	N3-C4-N4	5.75	122.02	118.00
36	1	894	G	OP1-P-O3'	5.75	117.85	105.20
36	1	913	A	N1-C6-N6	5.75	122.05	118.60
40	L3	266	ARG	NE-CZ-NH2	-5.75	117.43	120.30
36	5	52	A	N1-C6-N6	5.75	122.05	118.60
36	5	85	A	O5'-P-OP2	-5.75	100.53	105.70
36	5	1437	C	C2-N1-C1'	5.75	125.12	118.80
36	1	413	U	C2-N3-C4	-5.75	123.55	127.00
36	1	1868	G	C4-N9-C1'	5.75	133.97	126.50
36	1	2192	C	C5-C6-N1	-5.75	118.13	121.00
36	1	2885	C	C6-N1-C2	5.75	122.60	120.30
36	5	3035	A	C8-N9-C4	5.75	108.10	105.80
37	7	121	U	O4'-C1'-N1	-5.75	103.60	108.20
52	m6	66	LYS	CD-CE-NZ	5.75	124.92	111.70
1	6	1	U	C2-N1-C1'	5.75	124.59	117.70
36	1	3277	U	N3-C2-O2	-5.74	118.18	122.20
1	6	1773	C	N3-C2-O2	5.74	125.92	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	994	G	O5'-P-OP2	-5.74	100.53	105.70
1	6	299	A	O5'-P-OP2	-5.74	100.53	105.70
36	5	1343	A	C5-C6-N1	-5.74	114.83	117.70
36	5	2323	G	N9-C4-C5	5.74	107.70	105.40
36	1	2952	G	N9-C4-C5	-5.74	103.10	105.40
36	5	2651	G	OP2-P-O3'	5.74	117.83	105.20
36	1	776	U	N3-C4-C5	-5.74	111.16	114.60
36	1	2706	G	C5-C6-O6	-5.74	125.16	128.60
36	5	852	U	OP2-P-O3'	5.74	117.82	105.20
36	1	970	A	C5-N7-C8	-5.74	101.03	103.90
1	2	1553	G	O5'-P-OP1	-5.74	100.54	105.70
36	5	1430	U	O5'-P-OP1	-5.74	100.54	105.70
36	5	2524	A	N7-C8-N9	5.74	116.67	113.80
36	1	711	A	N1-C6-N6	-5.73	115.16	118.60
36	5	2370	G	C6-N1-C2	-5.73	121.66	125.10
37	7	8	G	N3-C2-N2	5.73	123.91	119.90
1	6	44	U	N3-C2-O2	5.73	126.21	122.20
1	6	380	U	N3-C2-O2	-5.73	118.19	122.20
36	5	32	U	C4-C5-C6	5.73	123.14	119.70
36	5	1316	C	N1-C2-O2	-5.73	115.46	118.90
36	5	1484	U	C5-C6-N1	-5.73	119.83	122.70
36	5	2725	U	N3-C4-C5	5.73	118.04	114.60
38	4	25	G	C4-C5-N7	-5.73	108.51	110.80
36	5	503	C	N3-C4-C5	5.73	124.19	121.90
36	5	708	G	C4-C5-N7	5.73	113.09	110.80
36	5	3228	C	N3-C2-O2	-5.73	117.89	121.90
36	1	659	G	N3-C2-N2	5.73	123.91	119.90
37	7	85	G	C5-C6-O6	5.73	132.04	128.60
1	6	1100	G	C8-N9-C1'	-5.73	119.56	127.00
36	5	354	U	N3-C2-O2	-5.73	118.19	122.20
36	1	1425	U	C5-C6-N1	-5.72	119.84	122.70
36	5	648	C	C4-C5-C6	5.72	120.26	117.40
36	5	3295	A	OP2-P-O3'	5.72	117.79	105.20
38	8	25	G	O5'-P-OP2	-5.72	100.55	105.70
36	1	1715	A	O4'-C1'-N9	-5.72	103.62	108.20
36	5	1908	A	N3-C4-C5	-5.72	122.79	126.80
36	5	2891	U	C2-N3-C4	-5.72	123.57	127.00
38	8	106	C	C6-N1-C2	5.72	122.59	120.30
1	2	1339	C	C5-C6-N1	5.72	123.86	121.00
36	1	644	G	C6-C5-N7	-5.72	126.97	130.40
36	5	3350	C	C6-N1-C2	-5.72	118.01	120.30
36	5	2920	U	C4-C5-C6	5.72	123.13	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2975	U	N1-C2-O2	5.72	126.80	122.80
36	1	580	C	N1-C2-O2	-5.72	115.47	118.90
36	1	2314	U	C2-N1-C1'	5.72	124.56	117.70
37	3	83	U	C2-N3-C4	-5.72	123.57	127.00
1	6	459	G	N1-C6-O6	5.72	123.33	119.90
36	5	800	G	C5-N7-C8	5.72	107.16	104.30
36	1	944	C	C5-C6-N1	5.71	123.86	121.00
36	1	1124	U	N1-C2-O2	5.71	126.80	122.80
36	1	1433	A	OP1-P-O3'	5.71	117.77	105.20
36	1	1437	C	C2-N1-C1'	5.71	125.08	118.80
36	1	1611	G	C6-C5-N7	-5.71	126.97	130.40
36	5	2650	U	N3-C4-C5	5.71	118.03	114.60
36	5	2290	C	C4-C5-C6	5.71	120.25	117.40
1	6	378	A	O5'-P-OP1	5.71	117.55	110.70
36	5	1049	C	N3-C4-C5	5.71	124.18	121.90
36	5	2899	C	C2-N3-C4	-5.71	117.05	119.90
1	2	734	A	P-O3'-C3'	5.71	126.55	119.70
36	5	649	A	C8-N9-C4	-5.71	103.52	105.80
36	5	1556	C	N1-C2-O2	5.71	122.32	118.90
36	1	153	U	N3-C4-C5	-5.70	111.18	114.60
38	4	64	U	N3-C2-O2	-5.70	118.21	122.20
36	5	2651	G	OP1-P-O3'	-5.70	92.65	105.20
49	m3	21	ARG	NE-CZ-NH1	-5.70	117.45	120.30
36	1	3373	U	C5-C6-N1	-5.70	119.85	122.70
1	6	66	U	P-O3'-C3'	5.70	126.54	119.70
36	5	2113	A	C4-C5-C6	-5.70	114.15	117.00
36	5	2403	G	C2-N3-C4	5.70	114.75	111.90
36	5	2550	U	N3-C2-O2	-5.70	118.21	122.20
36	1	439	C	C5-C6-N1	5.70	123.85	121.00
36	1	2634	U	C4-C5-C6	5.70	123.12	119.70
36	5	1215	U	C5-C4-O4	-5.70	122.48	125.90
1	2	402	C	N3-C2-O2	5.70	125.89	121.90
1	2	1455	G	O5'-P-OP2	-5.70	100.57	105.70
1	2	1560	U	C6-N1-C2	-5.70	117.58	121.00
36	1	1152	G	N1-C6-O6	5.70	123.32	119.90
1	2	1657	U	O4'-C1'-N1	5.69	112.75	108.20
36	1	1665	C	C5-C4-N4	-5.69	116.21	120.20
38	4	47	C	C4-C5-C6	5.69	120.25	117.40
36	5	2682	C	N3-C4-C5	5.69	124.18	121.90
36	1	267	G	O4'-C1'-N9	-5.69	103.65	108.20
36	1	825	U	N3-C4-O4	-5.69	115.42	119.40
36	1	2247	G	N1-C6-O6	5.69	123.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	992	A	N3-C4-C5	5.69	130.78	126.80
36	1	427	C	N1-C2-O2	-5.69	115.49	118.90
36	1	1343	A	N1-C6-N6	5.69	122.02	118.60
1	6	1666	U	N1-C2-O2	-5.69	118.82	122.80
36	5	673	U	C2-N3-C4	-5.69	123.58	127.00
36	5	2833	A	C4-C5-N7	-5.69	107.86	110.70
1	6	448	C	N3-C4-C5	-5.69	119.62	121.90
1	2	158	U	P-O3'-C3'	5.69	126.53	119.70
1	2	934	C	C2-N1-C1'	5.69	125.06	118.80
36	1	3275	U	C6-N1-C2	-5.69	117.59	121.00
37	3	99	G	O5'-P-OP2	-5.69	100.58	105.70
36	5	2854	U	OP2-P-O3'	5.69	117.71	105.20
1	2	469	C	N3-C2-O2	5.69	125.88	121.90
36	1	3369	G	C5-C6-O6	-5.69	125.19	128.60
37	7	101	G	C5-C6-O6	-5.69	125.19	128.60
36	1	3303	G	O4'-C1'-N9	5.68	112.75	108.20
37	3	67	G	N1-C6-O6	5.68	123.31	119.90
36	5	1901	A	C4-C5-C6	5.68	119.84	117.00
36	5	3120	C	O5'-P-OP1	-5.68	100.58	105.70
1	2	159	U	C2-N1-C1'	-5.68	110.88	117.70
36	1	339	C	OP1-P-OP2	-5.68	111.08	119.60
36	1	1122	U	N3-C4-C5	5.68	118.01	114.60
36	1	913	A	N3-C4-N9	5.68	131.94	127.40
1	6	1246	C	N3-C2-O2	-5.68	117.92	121.90
36	5	675	C	C6-N1-C2	-5.68	118.03	120.30
36	1	1152	G	O4'-C1'-N9	5.68	112.74	108.20
36	5	613	G	C4-C5-N7	-5.68	108.53	110.80
36	5	2386	A	N7-C8-N9	5.68	116.64	113.80
1	2	404	G	C5-C6-O6	-5.68	125.19	128.60
36	1	3268	A	N1-C6-N6	5.68	122.01	118.60
1	6	1031	U	O5'-P-OP2	-5.68	100.59	105.70
36	1	887	G	N1-C6-O6	5.67	123.31	119.90
36	1	976	U	O5'-P-OP2	-5.67	100.59	105.70
38	4	103	G	N1-C6-O6	-5.67	116.50	119.90
1	6	1058	U	OP1-P-O3'	5.67	117.69	105.20
36	5	38	U	O5'-P-OP1	5.67	117.51	110.70
36	5	2889	C	N3-C4-C5	5.67	124.17	121.90
36	1	2376	G	N3-C4-N9	5.67	129.40	126.00
36	1	315	C	O5'-P-OP1	-5.67	100.60	105.70
36	1	3109	G	C4-C5-N7	-5.67	108.53	110.80
36	5	2381	G	O5'-P-OP1	5.67	117.50	110.70
36	5	2918	G	O5'-P-OP2	-5.67	100.60	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2334	U	N3-C2-O2	-5.67	118.23	122.20
36	1	3101	G	N7-C8-N9	-5.67	110.27	113.10
36	5	214	G	N7-C8-N9	-5.67	110.27	113.10
36	5	659	G	C5-C6-N1	5.67	114.33	111.50
36	5	701	G	C4-C5-N7	-5.67	108.53	110.80
1	2	1455	G	C5-C6-N1	-5.67	108.67	111.50
36	5	424	G	OP1-P-OP2	5.67	128.10	119.60
36	1	801	A	O5'-P-OP1	5.66	117.50	110.70
36	1	1121	U	N1-C2-O2	-5.66	118.84	122.80
36	1	2375	G	N9-C4-C5	-5.66	103.13	105.40
36	1	2758	A	C2-N3-C4	5.66	113.43	110.60
36	1	3362	A	C6-C5-N7	-5.66	128.34	132.30
36	5	2367	A	O5'-P-OP1	-5.66	100.60	105.70
36	1	155	G	C5-C6-N1	5.66	114.33	111.50
1	6	390	G	C5-C6-O6	-5.66	125.20	128.60
36	1	650	C	C5-C6-N1	-5.66	118.17	121.00
50	M4	135	LEU	CA-CB-CG	5.66	128.31	115.30
36	5	1389	G	C4-C5-N7	5.66	113.06	110.80
36	5	2393	G	C4-C5-N7	5.66	113.06	110.80
36	1	941	G	C8-N9-C4	-5.65	104.14	106.40
36	1	2707	C	C6-N1-C2	-5.65	118.04	120.30
52	M6	84	LEU	CB-CG-CD2	-5.65	101.39	111.00
1	2	1114	G	O4'-C1'-N9	5.65	112.72	108.20
36	1	666	A	C5-N7-C8	5.65	106.73	103.90
36	1	931	C	C2-N3-C4	-5.65	117.07	119.90
1	6	1000	C	C2-N1-C1'	5.65	125.02	118.80
1	6	1615	C	N1-C2-O2	-5.65	115.51	118.90
36	5	1103	A	OP2-P-O3'	5.65	117.63	105.20
36	5	2142	A	OP1-P-OP2	-5.65	111.12	119.60
36	5	2572	C	C6-N1-C2	-5.65	118.04	120.30
36	1	111	C	N3-C4-C5	5.65	124.16	121.90
36	1	30	G	O5'-P-OP2	-5.65	100.62	105.70
36	1	351	A	C8-N9-C4	5.65	108.06	105.80
36	1	1403	C	C2-N3-C4	-5.65	117.08	119.90
37	3	93	C	N3-C4-C5	5.65	124.16	121.90
1	6	859	A	O5'-P-OP2	-5.65	100.62	105.70
36	5	339	C	C2-N1-C1'	-5.65	112.59	118.80
36	5	825	U	N3-C2-O2	-5.65	118.25	122.20
36	1	933	A	C4-C5-C6	5.65	119.82	117.00
36	1	2617	U	C2-N3-C4	-5.65	123.61	127.00
1	6	100	A	C8-N9-C4	5.65	108.06	105.80
36	1	3171	U	C5-C4-O4	-5.64	122.51	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1178	G	N3-C2-N2	-5.64	115.95	119.90
36	5	1392	G	N7-C8-N9	-5.64	110.28	113.10
36	5	1889	G	C4-N9-C1'	5.64	133.84	126.50
36	5	2870	C	C2-N1-C1'	-5.64	112.59	118.80
36	5	3020	U	C5-C4-O4	-5.64	122.51	125.90
1	2	829	A	P-O3'-C3'	5.64	126.47	119.70
39	L2	242	ARG	NE-CZ-NH2	-5.64	117.48	120.30
36	1	1329	U	N3-C2-O2	-5.64	118.25	122.20
36	5	891	G	N3-C2-N2	5.64	123.85	119.90
36	5	2872	A	C5-C6-N6	-5.64	119.19	123.70
36	1	2693	C	C6-N1-C2	5.64	122.55	120.30
36	1	3005	A	N1-C6-N6	-5.64	115.22	118.60
64	N8	115	LYS	C-N-CA	-5.64	110.46	122.30
36	5	1064	A	C5-C6-N6	-5.64	119.19	123.70
36	5	2818	U	C5'-C4'-O4'	-5.64	102.34	109.10
1	2	864	U	N3-C2-O2	-5.63	118.26	122.20
36	1	2314	U	C5-C6-N1	5.63	125.52	122.70
36	5	1786	G	N3-C4-N9	5.63	129.38	126.00
36	5	1840	U	N3-C2-O2	-5.63	118.25	122.20
36	5	2917	G	C4-N9-C1'	5.63	133.82	126.50
37	7	36	C	N3-C4-N4	-5.63	114.06	118.00
36	1	813	G	N1-C6-O6	-5.63	116.52	119.90
36	1	3214	U	N3-C4-O4	-5.63	115.46	119.40
36	5	341	G	OP1-P-O3'	5.63	117.59	105.20
36	1	1152	G	C6-C5-N7	-5.63	127.02	130.40
36	1	2870	C	N3-C4-N4	-5.63	114.06	118.00
1	6	858	G	C5-N7-C8	-5.63	101.48	104.30
36	5	343	U	O5'-P-OP1	-5.63	100.63	105.70
36	5	1307	G	OP1-P-OP2	5.63	128.05	119.60
36	5	2794	G	C5-C6-O6	-5.63	125.22	128.60
79	q3	4	ARG	NE-CZ-NH1	5.63	123.12	120.30
36	1	3375	A	P-O3'-C3'	5.63	126.45	119.70
36	5	1858	A	O4'-C1'-N9	5.63	112.70	108.20
1	2	610	G	C4-N9-C1'	5.63	133.82	126.50
36	1	1115	G	C8-N9-C1'	-5.63	119.68	127.00
36	1	2985	C	N3-C4-C5	-5.63	119.65	121.90
36	1	3245	A	N9-C4-C5	-5.63	103.55	105.80
36	5	2859	U	C5-C4-O4	5.63	129.28	125.90
36	5	3047	U	N3-C4-O4	-5.63	115.46	119.40
38	4	53	A	N3-C4-C5	-5.63	122.86	126.80
1	6	337	G	N1-C6-O6	5.63	123.28	119.90
1	6	1058	U	P-O3'-C3'	5.63	126.45	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	974	G	N3-C4-N9	5.63	129.38	126.00
36	5	2255	A	O5'-P-OP1	-5.63	100.64	105.70
36	5	928	C	C4-C5-C6	5.62	120.21	117.40
36	1	577	C	C4-C5-C6	5.62	120.21	117.40
36	1	2334	U	N1-C2-O2	5.62	126.74	122.80
36	1	2885	C	N3-C4-C5	5.62	124.15	121.90
1	6	448	C	O4'-C1'-N1	5.62	112.70	108.20
36	1	2614	G	C4-C5-N7	-5.62	108.55	110.80
52	m6	94	ARG	NE-CZ-NH2	5.62	123.11	120.30
36	1	831	G	C8-N9-C4	5.62	108.65	106.40
1	6	970	A	P-O3'-C3'	5.62	126.44	119.70
36	1	28	C	C6-N1-C2	5.62	122.55	120.30
36	1	97	U	N1-C2-N3	5.62	118.27	114.90
36	1	828	A	N9-C4-C5	5.62	108.05	105.80
68	O2	33	ARG	NE-CZ-NH1	5.62	123.11	120.30
36	5	31	C	OP1-P-OP2	-5.62	111.17	119.60
36	5	1469	C	C6-N1-C2	-5.62	118.05	120.30
36	5	2403	G	O5'-P-OP2	-5.62	100.64	105.70
36	5	2997	G	O5'-P-OP1	-5.62	100.64	105.70
1	6	579	A	P-O3'-C3'	5.62	126.44	119.70
36	1	1307	G	N3-C2-N2	5.62	123.83	119.90
36	5	3069	G	C5-C6-O6	-5.62	125.23	128.60
36	5	216	G	C4-C5-N7	5.61	113.05	110.80
1	2	1559	A	N7-C8-N9	5.61	116.61	113.80
36	1	54	C	N3-C4-N4	-5.61	114.07	118.00
36	1	2940	A	C4-C5-C6	5.61	119.81	117.00
36	5	2639	G	N3-C4-N9	5.61	129.37	126.00
37	7	35	C	O5'-P-OP2	-5.61	100.65	105.70
36	1	639	G	N3-C2-N2	-5.61	115.97	119.90
36	1	2868	U	C5-C6-N1	-5.61	119.89	122.70
37	7	51	A	C8-N9-C4	-5.61	103.56	105.80
36	1	1411	C	OP1-P-O3'	5.61	117.53	105.20
36	1	2356	A	N1-C2-N3	-5.61	126.50	129.30
36	5	928	C	O5'-P-OP2	-5.61	100.65	105.70
36	5	3326	G	N1-C6-O6	-5.61	116.53	119.90
36	1	1365	G	N3-C2-N2	5.61	123.82	119.90
36	1	1518	U	C5-C6-N1	-5.61	119.90	122.70
36	5	12	A	N1-C6-N6	5.61	121.96	118.60
36	5	2213	A	N7-C8-N9	-5.61	111.00	113.80
36	5	2317	A	O5'-P-OP2	-5.61	100.66	105.70
36	5	2414	G	N1-C6-O6	5.61	123.26	119.90
36	5	2703	A	N9-C4-C5	5.61	108.04	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	120	C	N1-C2-O2	-5.60	115.54	118.90
36	5	2550	U	N1-C2-N3	5.60	118.26	114.90
36	5	2930	A	C4-C5-C6	-5.60	114.20	117.00
36	1	799	G	O5'-P-OP1	-5.60	100.66	105.70
36	1	1483	G	O4'-C1'-N9	5.60	112.68	108.20
36	5	2753	G	N3-C2-N2	-5.60	115.98	119.90
36	5	2934	A	C5-N7-C8	5.60	106.70	103.90
36	1	1004	U	N1-C2-O2	5.60	126.72	122.80
36	1	1364	C	N3-C4-C5	5.60	124.14	121.90
36	1	2614	G	O5'-P-OP1	-5.60	100.66	105.70
36	1	2618	G	N3-C4-C5	-5.60	125.80	128.60
44	L7	179	LEU	CA-CB-CG	5.60	128.18	115.30
36	5	1832	C	C6-N1-C2	5.60	122.54	120.30
36	5	2188	A	N7-C8-N9	-5.60	111.00	113.80
36	1	651	G	N3-C4-N9	5.60	129.36	126.00
36	1	1733	G	C4-N9-C1'	5.60	133.77	126.50
36	5	2385	G	C5-C6-O6	-5.60	125.24	128.60
1	6	1643	U	C5-C6-N1	-5.59	119.90	122.70
36	5	435	C	N3-C4-C5	5.59	124.14	121.90
36	5	1116	G	N3-C2-N2	-5.59	115.98	119.90
36	1	2714	G	C4-C5-C6	-5.59	115.44	118.80
36	5	2211	U	N3-C4-C5	-5.59	111.24	114.60
36	1	365	A	N1-C6-N6	5.59	121.95	118.60
36	1	1868	G	C6-C5-N7	-5.59	127.05	130.40
36	5	1317	A	OP2-P-O3'	5.59	117.50	105.20
36	5	2148	U	C2-N1-C1'	-5.59	110.99	117.70
36	5	2290	C	O5'-P-OP2	-5.59	100.67	105.70
36	5	3211	C	C6-N1-C2	5.59	122.54	120.30
36	5	3235	C	N1-C2-O2	5.59	122.25	118.90
36	1	109	A	C8-N9-C4	-5.59	103.56	105.80
36	1	1149	G	O4'-C1'-N9	5.59	112.67	108.20
36	1	1409	G	C6-C5-N7	5.59	133.75	130.40
36	1	1596	C	N1-C2-O2	-5.59	115.55	118.90
36	5	3141	A	N9-C4-C5	5.59	108.04	105.80
36	1	947	G	N3-C4-C5	-5.59	125.81	128.60
1	6	926	A	N1-C6-N6	5.59	121.95	118.60
36	5	93	C	N3-C4-C5	-5.59	119.67	121.90
36	5	986	U	N1-C2-O2	5.59	126.71	122.80
36	1	197	G	O5'-P-OP1	-5.59	100.67	105.70
36	1	502	U	N1-C2-O2	5.59	126.71	122.80
36	1	1494	U	N3-C4-C5	5.59	117.95	114.60
36	5	2870	C	N3-C4-N4	-5.59	114.09	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3382	U	C2-N1-C1'	5.59	124.40	117.70
36	1	2152	A	C5-N7-C8	5.58	106.69	103.90
37	3	97	A	O5'-P-OP2	-5.58	100.67	105.70
36	5	420	G	C6-N1-C2	-5.58	121.75	125.10
36	1	1117	G	C8-N9-C4	5.58	108.63	106.40
38	4	113	U	C5-C4-O4	5.58	129.25	125.90
36	5	963	G	C8-N9-C4	5.58	108.63	106.40
36	5	2203	U	C5-C4-O4	-5.58	122.55	125.90
36	1	333	G	C5-C6-O6	5.58	131.95	128.60
20	c8	15	LEU	CA-CB-CG	5.58	128.14	115.30
36	5	1133	A	N9-C4-C5	5.58	108.03	105.80
36	5	1138	U	C2-N3-C4	-5.58	123.65	127.00
36	5	2329	C	N1-C2-O2	-5.58	115.55	118.90
36	1	500	C	C4-C5-C6	5.58	120.19	117.40
36	1	3362	A	N1-C6-N6	5.58	121.95	118.60
1	6	55	A	N7-C8-N9	-5.58	111.01	113.80
36	5	573	C	C6-N1-C2	-5.58	118.07	120.30
36	5	1906	G	C6-N1-C2	-5.58	121.75	125.10
36	5	1172	G	N1-C6-O6	-5.58	116.55	119.90
36	5	1399	A	N9-C4-C5	-5.58	103.57	105.80
36	1	2216	G	N9-C4-C5	5.58	107.63	105.40
36	1	2343	C	C6-N1-C2	5.58	122.53	120.30
36	1	3209	A	C6-C5-N7	-5.58	128.40	132.30
37	7	112	G	C8-N9-C4	-5.58	104.17	106.40
36	5	2830	G	C8-N9-C4	-5.57	104.17	106.40
36	1	1404	G	C8-N9-C4	5.57	108.63	106.40
36	1	2278	C	N3-C4-C5	5.57	124.13	121.90
36	5	3016	A	OP2-P-O3'	5.57	117.46	105.20
36	1	52	A	O5'-P-OP2	-5.57	100.69	105.70
36	1	1416	C	N3-C4-N4	-5.57	114.10	118.00
36	5	426	G	C8-N9-C4	5.57	108.63	106.40
36	5	931	C	N3-C4-C5	5.57	124.13	121.90
36	5	3145	C	C6-N1-C2	5.57	122.53	120.30
36	1	31	C	N3-C2-O2	-5.57	118.00	121.90
36	1	1342	C	C2-N3-C4	-5.57	117.11	119.90
36	1	2417	U	N1-C2-O2	-5.57	118.90	122.80
36	1	2550	U	N3-C2-O2	-5.57	118.30	122.20
36	5	577	C	N1-C2-O2	-5.57	115.56	118.90
36	5	3047	U	N1-C2-O2	5.57	126.70	122.80
36	1	819	U	N1-C2-O2	-5.57	118.91	122.80
36	1	971	G	C5-C6-N1	5.57	114.28	111.50
36	1	2824	G	N9-C4-C5	5.57	107.63	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3150	A	C8-N9-C4	5.57	108.03	105.80
1	6	194	U	C5-C6-N1	5.57	125.48	122.70
36	5	1520	G	C5-C6-N1	5.57	114.28	111.50
1	2	1196	A	P-O3'-C3'	5.56	126.38	119.70
36	1	369	A	C8-N9-C4	-5.56	103.58	105.80
36	1	1140	G	C4-N9-C1'	5.56	133.73	126.50
36	5	1124	U	C4-C5-C6	-5.56	116.36	119.70
36	1	2296	A	N1-C6-N6	5.56	121.94	118.60
1	6	1596	C	N3-C4-N4	-5.56	114.11	118.00
36	1	336	A	C2-N3-C4	5.56	113.38	110.60
36	1	2246	G	N3-C2-N2	-5.56	116.01	119.90
36	1	2804	A	O5'-P-OP2	-5.56	100.70	105.70
36	5	974	G	C2-N3-C4	5.56	114.68	111.90
36	5	2956	A	N7-C8-N9	5.56	116.58	113.80
36	1	573	C	N3-C4-C5	5.56	124.12	121.90
1	6	87	C	N1-C2-O2	-5.56	115.57	118.90
36	5	216	G	C5-C6-O6	-5.56	125.27	128.60
36	5	2400	G	N9-C4-C5	-5.56	103.18	105.40
1	6	1698	G	P-O3'-C3'	5.56	126.37	119.70
36	1	968	G	N9-C4-C5	5.55	107.62	105.40
36	5	1908	A	C2-N3-C4	5.55	113.38	110.60
36	1	1481	A	O4'-C1'-N9	5.55	112.64	108.20
36	1	282	G	P-O3'-C3'	5.55	126.36	119.70
36	5	987	U	O5'-P-OP1	-5.55	100.70	105.70
36	5	3062	G	C8-N9-C4	-5.55	104.18	106.40
36	5	3266	G	C5-C6-O6	5.55	131.93	128.60
36	1	677	A	O5'-P-OP1	-5.55	100.71	105.70
36	1	1192	C	C2-N1-C1'	5.55	124.90	118.80
36	1	2412	G	N7-C8-N9	5.55	115.88	113.10
36	1	2891	U	N3-C4-O4	5.55	123.28	119.40
36	1	3043	C	OP2-P-O3'	5.55	117.41	105.20
36	5	1336	U	O5'-P-OP2	-5.55	100.71	105.70
36	5	1429	G	N9-C4-C5	-5.55	103.18	105.40
36	1	1412	G	O5'-P-OP1	-5.55	100.71	105.70
1	2	1129	U	N3-C4-O4	-5.55	115.52	119.40
1	2	1766	A	C8-N9-C4	5.55	108.02	105.80
36	1	788	C	C6-N1-C2	5.55	122.52	120.30
36	1	1130	A	C2-N3-C4	5.55	113.37	110.60
36	1	2799	A	C8-N9-C4	-5.55	103.58	105.80
36	1	3219	G	O5'-P-OP1	-5.55	100.71	105.70
1	6	1776	A	O5'-P-OP2	-5.55	100.71	105.70
36	5	32	U	N1-C2-O2	-5.55	118.92	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1306	G	N9-C4-C5	-5.55	103.18	105.40
1	6	362	G	C8-N9-C1'	-5.54	119.79	127.00
36	1	800	G	C5-C6-O6	5.54	131.93	128.60
36	1	955	U	C2-N3-C4	-5.54	123.67	127.00
36	1	2606	G	OP2-P-O3'	5.54	117.39	105.20
36	5	2385	G	C4-C5-N7	5.54	113.02	110.80
1	2	1747	G	C2-N3-C4	-5.54	109.13	111.90
36	1	2400	G	C5-C6-O6	-5.54	125.28	128.60
36	1	2620	G	C5-C6-O6	-5.54	125.28	128.60
36	1	2938	G	C8-N9-C4	-5.54	104.18	106.40
38	4	25	G	C5-N7-C8	5.54	107.07	104.30
36	5	2881	C	C2-N3-C4	-5.54	117.13	119.90
37	7	92	A	C8-N9-C4	5.54	108.02	105.80
1	2	1324	G	N9-C4-C5	5.54	107.62	105.40
36	1	1132	C	C5-C6-N1	-5.54	118.23	121.00
36	1	1153	A	O5'-P-OP1	-5.54	100.72	105.70
39	L2	122	ASP	CB-CG-OD2	5.54	123.28	118.30
1	6	1568	C	P-O3'-C3'	5.54	126.34	119.70
36	5	1108	U	OP1-P-OP2	5.54	127.91	119.60
36	5	2308	C	N1-C2-O2	-5.54	115.58	118.90
36	1	758	C	N1-C2-O2	-5.54	115.58	118.90
1	6	1781	A	C5-C6-N1	-5.54	114.93	117.70
36	1	980	A	N1-C2-N3	5.54	132.07	129.30
36	5	1155	C	N3-C4-C5	5.54	124.11	121.90
1	2	720	G	P-O3'-C3'	5.53	126.34	119.70
36	1	304	G	C6-C5-N7	5.53	133.72	130.40
36	5	102	C	N3-C4-N4	5.53	121.87	118.00
36	5	2865	U	C5-C6-N1	5.53	125.47	122.70
36	1	317	A	N1-C6-N6	5.53	121.92	118.60
36	5	2270	A	N1-C6-N6	5.53	121.92	118.60
36	5	3311	C	C5-C4-N4	5.53	124.07	120.20
1	2	1524	A	N1-C6-N6	-5.53	115.28	118.60
37	7	49	G	N3-C2-N2	-5.53	116.03	119.90
1	2	1291	G	N3-C2-N2	-5.53	116.03	119.90
36	1	104	G	OP1-P-O3'	5.53	117.35	105.20
1	2	1432	U	O5'-P-OP1	-5.52	100.73	105.70
1	2	1654	G	C5-C6-N1	5.52	114.26	111.50
36	1	3217	C	N3-C2-O2	-5.52	118.03	121.90
36	5	425	G	N7-C8-N9	-5.52	110.34	113.10
24	D2	104	LEU	CA-CB-CG	5.52	128.00	115.30
36	1	1847	A	O5'-P-OP1	-5.52	100.73	105.70
38	4	31	G	C8-N9-C4	5.52	108.61	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	101	G	C4-C5-N7	5.52	113.01	110.80
36	1	1489	A	C8-N9-C4	5.52	108.01	105.80
36	1	1483	G	N1-C6-O6	-5.52	116.59	119.90
36	5	2309	A	OP1-P-OP2	5.52	127.88	119.60
36	5	3144	G	N9-C4-C5	5.52	107.61	105.40
36	1	2305	G	N3-C4-N9	5.52	129.31	126.00
36	1	2792	A	C2-N3-C4	5.52	113.36	110.60
1	6	1781	A	C4-C5-C6	5.52	119.76	117.00
36	5	2115	G	N3-C2-N2	-5.52	116.04	119.90
36	5	2116	G	N1-C6-O6	5.52	123.21	119.90
36	5	2935	U	OP1-P-O3'	5.52	117.34	105.20
36	1	2165	G	C8-N9-C4	-5.52	104.19	106.40
1	2	1097	U	O4'-C1'-N1	5.51	112.61	108.20
36	1	2585	G	N3-C4-C5	-5.51	125.84	128.60
1	6	363	G	C5-C6-O6	-5.51	125.29	128.60
36	1	918	C	OP2-P-O3'	5.51	117.33	105.20
36	1	1153	A	C6-C5-N7	-5.51	128.44	132.30
36	1	2836	C	N3-C4-C5	-5.51	119.69	121.90
36	1	3182	G	OP2-P-O3'	5.51	117.32	105.20
36	5	2352	A	C2-N3-C4	-5.51	107.84	110.60
36	5	2408	U	C5-C6-N1	-5.51	119.94	122.70
36	1	936	A	C5-C6-N6	-5.51	119.29	123.70
36	5	1190	A	C5-C6-N6	5.51	128.11	123.70
36	5	1429	G	C8-N9-C4	5.51	108.60	106.40
36	5	1879	A	C8-N9-C4	-5.51	103.60	105.80
36	1	907	G	N3-C4-N9	5.51	129.31	126.00
36	1	2177	G	N1-C6-O6	-5.51	116.59	119.90
36	1	2412	G	OP1-P-O3'	5.51	117.32	105.20
1	6	1096	C	C6-N1-C2	5.51	122.50	120.30
36	5	894	G	N3-C4-N9	5.51	129.31	126.00
36	1	788	C	C2-N1-C1'	-5.51	112.74	118.80
36	1	2321	A	C2-N3-C4	-5.51	107.85	110.60
1	6	1768	G	O5'-P-OP2	5.51	117.31	110.70
36	5	2735	U	C5-C6-N1	5.51	125.45	122.70
36	1	1489	A	N9-C4-C5	-5.50	103.60	105.80
1	6	18	C	C6-N1-C2	-5.50	118.10	120.30
36	5	337	G	N3-C4-C5	-5.50	125.85	128.60
1	2	623	A	O5'-P-OP1	-5.50	100.75	105.70
24	D2	65	LEU	CA-CB-CG	5.50	127.96	115.30
36	1	498	A	N1-C6-N6	-5.50	115.30	118.60
36	1	2943	G	C4-C5-N7	5.50	113.00	110.80
78	Q2	87	ARG	NE-CZ-NH2	5.50	123.05	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2278	C	C4-C5-C6	-5.50	114.65	117.40
36	5	2996	U	N1-C2-O2	5.50	126.65	122.80
36	1	828	A	C8-N9-C4	-5.50	103.60	105.80
36	1	2150	G	N1-C2-N2	-5.50	111.25	116.20
36	1	2838	A	C2-N3-C4	-5.50	107.85	110.60
36	5	1906	G	C5-C6-O6	-5.50	125.30	128.60
36	1	1316	C	N1-C2-N3	5.50	123.05	119.20
1	6	119	A	C2-N3-C4	-5.50	107.85	110.60
36	5	2366	C	C5-C6-N1	5.50	123.75	121.00
36	1	2800	G	C6-N1-C2	-5.50	121.80	125.10
1	6	328	A	O5'-P-OP2	-5.50	100.75	105.70
36	5	578	A	N1-C6-N6	5.50	121.90	118.60
36	5	909	G	N7-C8-N9	-5.50	110.35	113.10
36	1	847	A	C5-C6-N6	-5.50	119.30	123.70
36	1	1432	C	C6-N1-C2	-5.50	118.10	120.30
36	1	2811	A	C8-N9-C4	-5.50	103.60	105.80
36	1	2940	A	C6-N1-C2	-5.50	115.30	118.60
36	1	3119	U	N1-C2-O2	5.50	126.65	122.80
36	5	1928	G	C5-C6-N1	-5.50	108.75	111.50
36	5	3043	C	OP1-P-OP2	-5.50	111.35	119.60
36	1	704	U	C5-C6-N1	-5.50	119.95	122.70
36	1	630	A	C5-C6-N1	5.49	120.45	117.70
36	1	1157	G	N3-C4-N9	-5.49	122.70	126.00
36	1	1931	U	C2-N1-C1'	-5.49	111.11	117.70
36	1	2396	G	C4-C5-N7	-5.49	108.60	110.80
36	1	2672	G	C8-N9-C4	5.49	108.60	106.40
36	1	2862	U	N3-C2-O2	-5.49	118.36	122.20
36	5	586	C	N1-C2-O2	-5.49	115.60	118.90
36	5	1114	U	C5-C4-O4	-5.49	122.60	125.90
36	1	3142	A	C2-N3-C4	-5.49	107.85	110.60
1	2	75	U	C2-N1-C1'	5.49	124.29	117.70
36	1	83	U	N3-C4-C5	5.49	117.89	114.60
36	1	3309	G	C4-C5-N7	5.49	113.00	110.80
1	6	1019	A	C8-N9-C4	5.49	108.00	105.80
36	5	212	G	OP1-P-O3'	5.49	117.28	105.20
36	5	365	A	N9-C4-C5	-5.49	103.60	105.80
36	5	1484	U	C5-C4-O4	-5.49	122.61	125.90
1	2	8	U	O5'-P-OP2	-5.49	100.76	105.70
36	1	1113	G	N3-C2-N2	-5.49	116.06	119.90
1	6	1749	A	C2-N3-C4	-5.49	107.86	110.60
1	6	56	U	C5-C6-N1	-5.49	119.96	122.70
36	5	2135	U	C2-N3-C4	-5.49	123.71	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2572	C	C6-N1-C1'	-5.49	114.22	120.80
36	5	2830	G	OP2-P-O3'	5.49	117.27	105.20
1	2	323	A	C8-N9-C4	-5.49	103.61	105.80
37	3	96	U	OP2-P-O3'	5.49	117.27	105.20
1	6	1003	A	C8-N9-C4	5.49	107.99	105.80
1	6	1783	C	O5'-P-OP1	5.49	117.28	110.70
36	5	651	G	C8-N9-C4	-5.49	104.21	106.40
36	5	1441	G	O5'-P-OP2	-5.49	100.76	105.70
36	5	2148	U	N1-C2-O2	-5.49	118.96	122.80
37	7	38	U	C2-N3-C4	-5.49	123.71	127.00
36	1	192	C	C6-N1-C2	-5.48	118.11	120.30
1	6	597	G	N1-C6-O6	-5.48	116.61	119.90
1	6	1503	A	C5-N7-C8	-5.48	101.16	103.90
36	5	1496	C	OP1-P-OP2	-5.48	111.38	119.60
36	5	2794	G	C4-C5-N7	5.48	112.99	110.80
36	5	2524	A	C4-C5-N7	5.48	113.44	110.70
36	5	3225	C	C2-N1-C1'	5.48	124.83	118.80
1	2	627	C	C5-C4-N4	-5.48	116.36	120.20
4	s2	148	LEU	CA-CB-CG	5.48	127.90	115.30
1	2	402	C	O5'-P-OP2	5.48	117.27	110.70
36	1	1119	C	N3-C4-N4	-5.48	114.17	118.00
36	1	1292	C	C6-N1-C2	5.48	122.49	120.30
36	1	2656	A	C2-N3-C4	5.48	113.34	110.60
36	1	2836	C	N1-C2-N3	5.48	123.03	119.20
59	n3	45	ARG	NE-CZ-NH1	-5.48	117.56	120.30
79	q3	4	ARG	NE-CZ-NH2	-5.48	117.56	120.30
38	4	79	A	N7-C8-N9	5.48	116.54	113.80
61	N5	34	LEU	CA-CB-CG	5.48	127.90	115.30
36	5	981	U	C6-N1-C2	-5.48	117.71	121.00
1	6	308	C	C4-C5-C6	5.47	120.14	117.40
36	5	1064	A	C4-C5-N7	5.47	113.44	110.70
38	8	29	U	C2-N3-C4	-5.47	123.72	127.00
36	1	407	A	N1-C6-N6	5.47	121.88	118.60
36	5	1158	A	C5-C6-N6	-5.47	119.32	123.70
36	5	1371	G	C5-C6-N1	5.47	114.24	111.50
36	1	49	A	C5-C6-N1	-5.47	114.97	117.70
36	5	2345	A	N1-C6-N6	5.47	121.88	118.60
1	2	830	U	C2-N1-C1'	5.47	124.26	117.70
1	2	1258	U	N3-C2-O2	-5.47	118.37	122.20
36	1	2371	G	OP2-P-O3'	5.47	117.23	105.20
1	6	901	G	C6-C5-N7	-5.47	127.12	130.40
1	6	1481	C	C6-N1-C2	-5.47	118.11	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	909	G	C8-N9-C4	5.47	108.59	106.40
36	5	970	A	C8-N9-C4	5.47	107.99	105.80
36	1	72	C	N1-C2-O2	-5.47	115.62	118.90
36	1	2836	C	N3-C4-N4	-5.47	114.17	118.00
1	2	1456	C	C6-N1-C2	-5.46	118.11	120.30
36	1	2733	A	N1-C6-N6	5.46	121.88	118.60
36	1	3029	A	C8-N9-C4	-5.46	103.61	105.80
1	6	185	U	N1-C2-O2	5.46	126.62	122.80
1	6	1596	C	N1-C2-N3	5.46	123.03	119.20
36	5	412	G	N9-C4-C5	5.46	107.59	105.40
36	1	2343	C	C2-N3-C4	-5.46	117.17	119.90
1	6	1414	U	N3-C2-O2	-5.46	118.38	122.20
36	5	1327	C	N1-C2-O2	5.46	122.18	118.90
36	5	2691	A	C8-N9-C4	-5.46	103.61	105.80
36	1	990	U	N3-C4-C5	5.46	117.88	114.60
36	1	1113	G	O5'-P-OP1	-5.46	100.78	105.70
36	1	2121	G	C5-C6-O6	5.46	131.88	128.60
36	1	2786	G	N9-C4-C5	5.46	107.58	105.40
36	5	2634	U	N3-C4-O4	5.46	123.22	119.40
36	1	426	G	N3-C2-N2	5.46	123.72	119.90
1	6	639	U	C2-N1-C1'	5.46	124.25	117.70
36	1	345	G	C6-N1-C2	-5.46	121.82	125.10
36	1	407	A	N9-C4-C5	-5.46	103.62	105.80
1	6	627	C	O5'-P-OP1	-5.46	100.79	105.70
36	5	2830	G	N9-C4-C5	5.46	107.58	105.40
37	7	85	G	O5'-P-OP1	-5.46	100.79	105.70
1	2	720	G	OP1-P-O3'	5.46	117.20	105.20
36	1	859	G	N3-C2-N2	5.46	123.72	119.90
36	1	1515	A	C2-N3-C4	-5.46	107.87	110.60
36	5	702	C	N3-C2-O2	-5.46	118.08	121.90
36	5	782	U	N1-C2-N3	5.46	118.17	114.90
36	5	1138	U	N3-C4-C5	5.46	117.87	114.60
36	5	1929	G	C2-N3-C4	-5.46	109.17	111.90
36	5	1162	U	C5-C6-N1	-5.46	119.97	122.70
1	2	1454	G	C5-C6-O6	5.45	131.87	128.60
36	1	76	G	N3-C4-N9	5.45	129.27	126.00
1	6	638	U	N3-C2-O2	-5.45	118.38	122.20
36	5	1427	U	N3-C4-O4	-5.45	115.58	119.40
36	5	3202	G	C5-C6-O6	5.45	131.87	128.60
1	2	1751	C	N3-C4-C5	5.45	124.08	121.90
36	1	1156	C	N3-C4-N4	-5.45	114.18	118.00
36	5	908	G	O4'-C1'-N9	-5.45	103.84	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3050	U	C5-C4-O4	5.45	129.17	125.90
36	1	400	G	N1-C2-N2	5.45	121.11	116.20
36	1	1365	G	N1-C6-O6	-5.45	116.63	119.90
36	1	1851	G	N3-C4-N9	5.45	129.27	126.00
36	1	2611	U	O5'-P-OP1	5.45	117.24	110.70
36	1	3151	U	O5'-P-OP2	-5.45	100.79	105.70
36	5	2666	C	N1-C2-O2	-5.45	115.63	118.90
36	1	191	U	N1-C2-N3	5.45	118.17	114.90
36	5	815	G	C5-C6-N1	5.45	114.22	111.50
36	5	1178	G	C6-N1-C2	-5.45	121.83	125.10
36	5	2191	U	N3-C2-O2	-5.45	118.39	122.20
36	1	2736	A	O5'-P-OP2	-5.45	100.80	105.70
37	7	101	G	C6-C5-N7	-5.45	127.13	130.40
36	1	2402	A	C4-C5-C6	5.45	119.72	117.00
1	6	1745	G	N3-C4-N9	5.45	129.27	126.00
36	5	30	G	OP1-P-O3'	5.45	117.18	105.20
36	1	2960	C	C4-C5-C6	5.44	120.12	117.40
36	1	2794	G	N3-C2-N2	5.44	123.71	119.90
36	1	3109	G	N7-C8-N9	-5.44	110.38	113.10
1	6	1121	C	N3-C2-O2	-5.44	118.09	121.90
36	5	804	C	C6-N1-C2	5.44	122.48	120.30
36	5	892	U	C6-N1-C2	5.44	124.27	121.00
36	5	2991	A	C8-N9-C4	-5.44	103.62	105.80
36	1	2719	U	C2-N3-C4	-5.44	123.74	127.00
36	1	2846	U	N3-C4-O4	-5.44	115.59	119.40
36	5	395	A	O5'-P-OP2	-5.44	100.80	105.70
36	5	741	U	O5'-P-OP1	-5.44	100.80	105.70
36	5	2531	C	N1-C2-O2	5.44	122.16	118.90
36	5	2816	G	O5'-P-OP1	-5.44	100.80	105.70
36	5	2861	U	N1-C2-O2	-5.44	118.99	122.80
36	5	2258	U	N3-C2-O2	-5.44	118.39	122.20
36	1	634	C	OP2-P-O3'	5.44	117.16	105.20
36	1	859	G	N1-C2-N2	-5.44	111.31	116.20
36	1	947	G	C6-C5-N7	-5.44	127.14	130.40
68	O2	33	ARG	NE-CZ-NH2	-5.44	117.58	120.30
36	5	300	G	N3-C4-N9	-5.44	122.74	126.00
36	5	1719	G	N1-C6-O6	5.44	123.16	119.90
36	5	2190	U	N1-C2-N3	5.44	118.16	114.90
36	5	3133	C	N3-C4-C5	-5.44	119.72	121.90
1	2	1658	G	C4-C5-N7	5.44	112.97	110.80
36	1	2818	U	C5'-C4'-O4'	-5.44	102.58	109.10
36	5	909	G	C5-N7-C8	5.44	107.02	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2619	G	N1-C6-O6	5.44	123.16	119.90
4	S2	113	LEU	CA-CB-CG	5.43	127.80	115.30
36	1	949	C	N1-C2-O2	-5.43	115.64	118.90
36	1	1425	U	N3-C2-O2	-5.43	118.40	122.20
36	1	2186	U	N3-C4-O4	-5.43	115.60	119.40
36	1	2366	C	C4-C5-C6	-5.43	114.68	117.40
1	6	1010	C	O5'-P-OP2	-5.43	100.81	105.70
36	5	419	G	N9-C4-C5	-5.43	103.23	105.40
36	5	1846	C	C4-C5-C6	5.43	120.12	117.40
36	5	2794	G	O4'-C1'-N9	5.43	112.55	108.20
36	1	1519	G	N1-C6-O6	5.43	123.16	119.90
36	1	1838	G	C6-C5-N7	-5.43	127.14	130.40
36	1	2910	A	C5-N7-C8	-5.43	101.18	103.90
36	1	3109	G	C2-N3-C4	5.43	114.62	111.90
36	5	816	A	N9-C4-C5	5.43	107.97	105.80
37	7	26	C	C4-C5-C6	5.43	120.12	117.40
36	1	2585	G	N3-C4-N9	5.43	129.26	126.00
36	1	2942	C	N1-C2-O2	-5.43	115.64	118.90
36	5	1397	C	N1-C2-O2	-5.43	115.64	118.90
1	2	139	C	P-O3'-C3'	5.43	126.22	119.70
1	6	515	A	O5'-P-OP2	-5.43	100.81	105.70
1	6	1127	G	C2-N3-C4	-5.43	109.19	111.90
1	6	1396	U	C6-N1-C2	-5.43	117.74	121.00
1	2	1462	G	N1-C6-O6	5.43	123.16	119.90
36	1	936	A	OP2-P-O3'	5.43	117.14	105.20
36	5	1592	G	C6-N1-C2	5.43	128.36	125.10
1	2	1059	U	C2-N1-C1'	5.43	124.21	117.70
36	1	37	U	OP1-P-O3'	5.43	117.14	105.20
36	1	716	A	N3-C4-C5	5.43	130.60	126.80
36	1	2632	G	N3-C2-N2	5.43	123.70	119.90
36	5	189	G	C8-N9-C4	-5.42	104.23	106.40
1	6	1584	G	OP1-P-O3'	5.42	117.13	105.20
27	D5	95	HIS	N-CA-C	5.42	125.64	111.00
29	D7	29	ARG	NE-CZ-NH1	5.42	123.01	120.30
36	1	754	G	OP2-P-O3'	5.42	117.13	105.20
36	1	1329	U	O4'-C1'-N1	5.42	112.54	108.20
36	1	2995	A	C8-N9-C4	5.42	107.97	105.80
36	5	1415	U	OP1-P-O3'	5.42	117.13	105.20
36	1	325	A	N1-C6-N6	-5.42	115.35	118.60
36	1	2153	U	C6-N1-C2	-5.42	117.75	121.00
1	6	139	C	P-O3'-C3'	5.42	126.20	119.70
36	5	2362	C	N1-C2-O2	5.42	122.15	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2904	U	C5-C6-N1	-5.42	119.99	122.70
1	2	1274	C	C4-C5-C6	5.42	120.11	117.40
36	1	297	G	O4'-C1'-N9	5.42	112.53	108.20
36	1	2959	C	OP2-P-O3'	5.42	117.12	105.20
1	6	144	U	C6-N1-C2	-5.42	117.75	121.00
1	6	539	G	N3-C4-N9	-5.42	122.75	126.00
1	6	1572	G	N1-C6-O6	5.42	123.15	119.90
36	5	2887	A	C4-C5-C6	5.42	119.71	117.00
52	M6	78	ARG	NE-CZ-NH1	5.42	123.01	120.30
36	5	861	C	C5-C4-N4	-5.42	116.41	120.20
36	5	3086	A	N9-C4-C5	-5.42	103.63	105.80
36	1	681	U	C5-C4-O4	-5.42	122.65	125.90
36	1	896	A	O4'-C1'-N9	5.42	112.53	108.20
36	5	869	G	N3-C4-C5	-5.42	125.89	128.60
36	1	1363	A	N1-C6-N6	-5.41	115.35	118.60
36	1	2692	A	C8-N9-C4	-5.41	103.64	105.80
1	6	39	A	O4'-C1'-N9	5.41	112.53	108.20
1	6	397	A	C2-N3-C4	-5.41	107.89	110.60
36	5	328	U	N3-C4-O4	-5.41	115.61	119.40
36	1	1054	A	O5'-P-OP2	-5.41	100.83	105.70
36	1	1911	A	C5-C6-N6	-5.41	119.37	123.70
36	5	1522	U	N3-C2-O2	-5.41	118.41	122.20
36	5	3154	C	N3-C2-O2	-5.41	118.11	121.90
36	1	338	A	OP2-P-O3'	5.41	117.10	105.20
38	4	21	C	N3-C2-O2	5.41	125.69	121.90
36	5	1199	C	C5-C6-N1	-5.41	118.30	121.00
36	5	2930	A	C8-N9-C1'	5.41	137.44	127.70
38	8	19	C	C4-C5-C6	5.41	120.11	117.40
36	5	2153	U	C5-C6-N1	-5.41	120.00	122.70
36	5	2430	A	C8-N9-C4	-5.41	103.64	105.80
36	1	959	C	C5-C6-N1	-5.41	118.30	121.00
1	6	1124	A	C2-N3-C4	-5.41	107.90	110.60
1	6	1514	U	O5'-P-OP1	-5.41	100.83	105.70
36	1	678	G	N1-C6-O6	5.41	123.14	119.90
36	5	1428	A	O5'-P-OP1	-5.41	100.83	105.70
36	5	2804	A	C8-N9-C4	5.41	107.96	105.80
36	5	2981	U	C2-N1-C1'	5.41	124.19	117.70
36	5	637	C	C2-N1-C1'	-5.40	112.86	118.80
36	1	284	A	O4'-C1'-N9	5.40	112.52	108.20
36	1	2415	C	N3-C2-O2	-5.40	118.12	121.90
36	1	2714	G	C8-N9-C1'	5.40	134.02	127.00
1	6	146	U	N3-C4-O4	-5.40	115.62	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	594	U	C2-N3-C4	-5.40	123.76	127.00
36	5	2706	G	O5'-P-OP2	-5.40	100.84	105.70
36	5	2892	A	N1-C6-N6	-5.40	115.36	118.60
36	5	3076	C	N3-C4-N4	-5.40	114.22	118.00
1	2	1144	U	N3-C2-O2	-5.40	118.42	122.20
36	1	947	G	N3-C4-N9	5.40	129.24	126.00
36	1	2237	C	C6-N1-C2	5.40	122.46	120.30
36	1	2278	C	C5-C6-N1	5.40	123.70	121.00
38	4	39	G	N1-C6-O6	-5.40	116.66	119.90
36	5	1379	G	N1-C2-N2	-5.40	111.34	116.20
36	1	69	C	C4-C5-C6	5.40	120.10	117.40
1	6	1164	G	C5-C6-O6	-5.40	125.36	128.60
36	5	416	A	C8-N9-C4	-5.40	103.64	105.80
37	7	111	U	C5-C4-O4	-5.40	122.66	125.90
36	1	916	G	P-O3'-C3'	5.40	126.18	119.70
1	6	1092	A	N1-C6-N6	5.40	121.84	118.60
36	5	1655	G	C5-C6-O6	-5.40	125.36	128.60
36	5	2191	U	N1-C2-O2	5.40	126.58	122.80
1	2	323	A	N7-C8-N9	5.39	116.50	113.80
36	1	392	G	N1-C6-O6	5.39	123.14	119.90
38	4	32	C	N3-C2-O2	5.39	125.68	121.90
1	6	1540	G	N1-C6-O6	-5.39	116.66	119.90
36	5	592	A	N1-C6-N6	5.39	121.84	118.60
1	2	1668	G	N9-C4-C5	5.39	107.56	105.40
1	2	1745	G	C5-C6-O6	-5.39	125.36	128.60
36	1	663	C	N1-C2-O2	-5.39	115.67	118.90
36	1	2132	C	C5-C6-N1	-5.39	118.30	121.00
48	M1	112	LEU	CA-CB-CG	5.39	127.70	115.30
1	6	1428	G	C8-N9-C4	-5.39	104.24	106.40
36	5	411	U	N1-C2-O2	-5.39	119.03	122.80
36	5	520	U	C2-N1-C1'	-5.39	111.23	117.70
36	5	2281	A	O4'-C1'-N9	5.39	112.52	108.20
36	5	2645	G	N1-C6-O6	-5.39	116.66	119.90
36	1	1888	U	C2-N3-C4	-5.39	123.77	127.00
1	6	339	C	N1-C2-O2	-5.39	115.67	118.90
36	5	1148	G	N9-C4-C5	-5.39	103.24	105.40
36	5	2606	G	C5-C6-O6	5.39	131.83	128.60
36	1	1196	C	C5-C6-N1	-5.39	118.31	121.00
36	1	1901	A	N1-C6-N6	-5.39	115.37	118.60
36	1	2305	G	C5-C6-O6	-5.39	125.37	128.60
36	1	2978	U	N3-C2-O2	-5.39	118.43	122.20
36	5	1701	C	C6-N1-C2	-5.39	118.14	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2416	U	C6-N1-C2	-5.39	117.77	121.00
36	5	3366	G	C8-N9-C4	-5.39	104.25	106.40
1	2	73	U	P-O3'-C3'	5.38	126.16	119.70
36	1	719	U	O5'-P-OP1	-5.38	100.86	105.70
36	1	1060	U	C2-N3-C4	-5.38	123.77	127.00
36	1	1585	C	N3-C4-C5	5.38	124.05	121.90
36	1	2257	C	N3-C2-O2	-5.38	118.13	121.90
36	1	2936	A	N1-C6-N6	-5.38	115.37	118.60
36	5	121	A	C8-N9-C4	5.38	107.95	105.80
36	5	698	U	N1-C2-O2	-5.38	119.03	122.80
36	5	1897	G	C5-C6-O6	-5.38	125.37	128.60
1	2	448	C	O5'-P-OP2	-5.38	100.86	105.70
36	1	196	G	N3-C4-N9	5.38	129.23	126.00
36	1	909	G	N7-C8-N9	-5.38	110.41	113.10
36	1	2391	G	C5-C6-O6	5.38	131.83	128.60
1	6	434	G	C5'-C4'-O4'	5.38	115.56	109.10
1	6	801	G	N1-C6-O6	-5.38	116.67	119.90
1	6	1772	C	OP2-P-O3'	5.38	117.03	105.20
37	7	35	C	C5-C6-N1	-5.38	118.31	121.00
38	4	15	G	C5-C6-O6	-5.38	125.37	128.60
41	L4	313	LEU	CA-CB-CG	5.38	127.67	115.30
36	5	2389	C	C2-N3-C4	-5.38	117.21	119.90
68	o2	39	ASP	CB-CG-OD1	-5.38	113.46	118.30
36	1	2192	C	C4-C5-C6	5.38	120.09	117.40
36	1	2944	U	N3-C2-O2	-5.38	118.44	122.20
36	1	2954	U	C6-N1-C2	5.38	124.23	121.00
36	5	214	G	C5-N7-C8	5.38	106.99	104.30
36	5	2278	C	C5-C4-N4	5.38	123.96	120.20
38	8	22	U	O4'-C1'-N1	5.38	112.50	108.20
36	1	286	U	N1-C2-N3	5.38	118.12	114.90
36	5	1855	U	C5-C6-N1	-5.38	120.01	122.70
36	1	881	C	N1-C2-O2	5.37	122.12	118.90
36	1	993	G	O4'-C1'-N9	5.37	112.50	108.20
36	5	1934	G	C2-N3-C4	-5.37	109.21	111.90
36	5	3138	U	C2-N3-C4	-5.37	123.78	127.00
1	2	1573	A	P-O3'-C3'	5.37	126.14	119.70
36	1	295	A	O5'-P-OP1	-5.37	100.87	105.70
36	1	701	G	OP2-P-O3'	5.37	117.02	105.20
36	1	1127	G	N1-C2-N2	5.37	121.03	116.20
1	6	824	G	C4-C5-N7	5.37	112.95	110.80
36	5	654	C	OP2-P-O3'	5.37	117.02	105.20
36	5	690	A	C8-N9-C4	5.37	107.95	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2116	G	N3-C4-N9	5.37	129.22	126.00
36	5	2950	G	N9-C4-C5	-5.37	103.25	105.40
36	1	3079	U	O5'-P-OP1	-5.37	100.87	105.70
36	5	400	G	C8-N9-C4	-5.37	104.25	106.40
36	5	3076	C	N3-C4-C5	5.37	124.05	121.90
36	1	1592	G	C8-N9-C4	-5.37	104.25	106.40
36	1	2411	U	C4-C5-C6	-5.37	116.48	119.70
36	5	1404	G	C5-C6-O6	5.37	131.82	128.60
36	1	163	C	C6-N1-C2	-5.37	118.15	120.30
36	1	196	G	C6-C5-N7	-5.37	127.18	130.40
36	1	2408	U	C2-N1-C1'	5.37	124.14	117.70
36	1	1868	G	C8-N9-C1'	-5.37	120.02	127.00
36	1	2152	A	N9-C4-C5	5.37	107.95	105.80
36	1	3318	G	C8-N9-C4	-5.37	104.25	106.40
1	6	402	C	N3-C4-C5	5.37	124.05	121.90
36	5	420	G	N1-C2-N2	-5.37	111.37	116.20
36	5	2182	A	N9-C4-C5	5.37	107.95	105.80
1	2	1503	A	N1-C6-N6	5.36	121.82	118.60
36	1	651	G	C4-N9-C1'	5.36	133.47	126.50
36	1	1334	U	C5-C6-N1	-5.36	120.02	122.70
36	1	3044	G	N1-C6-O6	-5.36	116.68	119.90
37	3	28	C	N3-C4-N4	5.36	121.75	118.00
1	6	1796	C	N3-C4-N4	-5.36	114.25	118.00
36	5	1368	U	N3-C4-C5	5.36	117.82	114.60
36	5	2141	U	C5-C4-O4	-5.36	122.68	125.90
36	1	681	U	N3-C4-O4	5.36	123.15	119.40
1	6	437	A	N1-C2-N3	5.36	131.98	129.30
1	6	992	A	O5'-P-OP1	-5.36	100.87	105.70
36	1	1891	A	N7-C8-N9	-5.36	111.12	113.80
15	c3	22	ALA	C-N-CD	-5.36	108.81	120.60
36	5	1055	A	O5'-P-OP2	-5.36	100.88	105.70
36	5	159	A	C8-N9-C4	5.36	107.94	105.80
36	5	1900	A	OP1-P-O3'	5.36	116.99	105.20
36	5	2188	A	N9-C1'-C2'	-5.36	106.11	112.00
1	2	497	G	P-O3'-C3'	5.36	126.13	119.70
36	1	2978	U	O4'-C1'-N1	5.36	112.49	108.20
40	L3	266	ARG	NE-CZ-NH1	5.36	122.98	120.30
36	5	189	G	C5-C6-O6	5.36	131.81	128.60
36	5	3179	U	O5'-P-OP1	-5.36	100.88	105.70
36	5	3308	C	C6-N1-C2	-5.36	118.16	120.30
36	1	2952	G	C2-N3-C4	-5.36	109.22	111.90
1	6	385	A	C2-N3-C4	-5.36	107.92	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1539	G	N3-C4-C5	5.36	131.28	128.60
36	5	943	U	C2-N3-C4	-5.36	123.79	127.00
36	5	1371	G	C2-N3-C4	5.36	114.58	111.90
36	5	1495	U	C2-N1-C1'	5.36	124.13	117.70
36	5	2420	C	C5-C4-N4	-5.36	116.45	120.20
36	5	2767	U	N3-C4-O4	-5.36	115.65	119.40
36	1	422	A	C2-N3-C4	5.35	113.28	110.60
1	6	1549	C	C6-N1-C2	-5.35	118.16	120.30
1	2	992	A	C2-N3-C4	-5.35	107.92	110.60
36	5	1420	C	OP2-P-O3'	5.35	116.98	105.20
36	1	625	G	OP1-P-O3'	5.35	116.97	105.20
37	3	96	U	C6-N1-C2	5.35	124.21	121.00
1	6	305	C	C2-N1-C1'	-5.35	112.91	118.80
36	5	101	G	O4'-C1'-N9	5.35	112.48	108.20
36	1	1825	G	O5'-P-OP1	5.35	117.12	110.70
36	1	3207	U	C6-N1-C1'	5.35	128.69	121.20
36	5	1469	C	C4-C5-C6	5.35	120.07	117.40
36	1	2980	U	N1-C2-N3	5.34	118.11	114.90
47	M0	4	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	6	54	C	N3-C4-C5	5.34	124.04	121.90
36	5	1846	C	N1-C2-N3	5.34	122.94	119.20
36	5	2726	C	C4-C5-C6	5.34	120.07	117.40
38	4	85	G	N1-C6-O6	5.34	123.11	119.90
37	7	102	A	C2-N3-C4	-5.34	107.93	110.60
36	1	2731	U	N1-C2-O2	-5.34	119.06	122.80
36	1	2993	G	N9-C4-C5	-5.34	103.26	105.40
38	4	47	C	C5-C6-N1	-5.34	118.33	121.00
1	6	1246	C	N1-C2-O2	5.34	122.11	118.90
1	6	1649	G	N3-C2-N2	5.34	123.64	119.90
24	D2	93	LEU	CA-CB-CG	5.34	127.58	115.30
36	1	878	G	C5-C6-O6	-5.34	125.40	128.60
36	1	2662	G	C6-C5-N7	-5.34	127.20	130.40
36	1	2800	G	N7-C8-N9	-5.34	110.43	113.10
38	4	16	G	N1-C6-O6	5.34	123.10	119.90
81	e1	100	LEU	CA-CB-CG	5.34	127.58	115.30
36	5	1724	U	O4'-C1'-N1	5.34	112.47	108.20
36	5	2647	A	N9-C4-C5	5.34	107.94	105.80
36	5	2831	G	C4-C5-N7	-5.34	108.66	110.80
36	1	2179	C	C5-C4-N4	-5.34	116.46	120.20
38	4	114	G	C8-N9-C4	5.34	108.53	106.40
36	1	279	U	O5'-P-OP2	5.34	117.10	110.70
36	1	592	A	N9-C4-C5	-5.34	103.67	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1082	U	C2-N1-C1'	5.34	124.10	117.70
36	1	1858	A	C4-N9-C1'	5.34	135.91	126.30
36	5	2285	C	C6-N1-C2	-5.34	118.17	120.30
36	1	1349	G	C4-N9-C1'	5.33	133.44	126.50
1	2	704	C	N1-C2-O2	5.33	122.10	118.90
1	2	1600	A	P-O3'-C3'	5.33	126.10	119.70
36	1	2155	G	O5'-P-OP2	-5.33	100.90	105.70
1	6	187	G	P-O3'-C3'	5.33	126.10	119.70
1	6	904	G	N3-C4-N9	5.33	129.20	126.00
36	5	2282	U	C6-N1-C2	5.33	124.20	121.00
36	5	2696	A	O5'-P-OP1	-5.33	100.90	105.70
36	5	2798	C	N3-C4-N4	-5.33	114.27	118.00
1	2	1661	U	OP2-P-O3'	5.33	116.93	105.20
36	1	880	G	C4-N9-C1'	-5.33	119.57	126.50
36	1	953	G	N3-C4-C5	5.33	131.27	128.60
36	1	2619	G	N7-C8-N9	-5.33	110.43	113.10
36	5	3012	A	O5'-P-OP2	-5.33	100.90	105.70
36	1	98	G	N1-C6-O6	-5.33	116.70	119.90
36	1	304	G	C5-C6-N1	5.33	114.17	111.50
36	1	2281	A	O4'-C1'-N9	5.33	112.46	108.20
37	3	82	G	N1-C2-N2	-5.33	111.40	116.20
36	5	1177	G	C8-N9-C4	-5.33	104.27	106.40
36	5	1499	C	N1-C2-O2	-5.33	115.70	118.90
36	1	2400	G	C8-N9-C4	5.33	108.53	106.40
36	5	3076	C	N1-C2-O2	5.33	122.10	118.90
36	1	63	A	N1-C2-N3	-5.33	126.64	129.30
1	6	1091	A	OP2-P-O3'	5.33	116.92	105.20
1	2	542	A	C4-N9-C1'	5.33	135.88	126.30
1	6	1	U	O4'-C1'-N1	5.33	112.46	108.20
1	6	545	A	O5'-P-OP2	-5.33	100.91	105.70
1	6	1634	C	C6-N1-C1'	-5.33	114.41	120.80
51	m5	76	PRO	C-N-CA	-5.33	108.39	121.70
36	1	2650	U	C5-C4-O4	5.32	129.09	125.90
1	6	362	G	C4-N9-C1'	5.32	133.42	126.50
36	5	351	A	C8-N9-C4	5.32	107.93	105.80
36	5	938	C	C2-N3-C4	-5.32	117.24	119.90
52	m6	94	ARG	NE-CZ-NH1	-5.32	117.64	120.30
36	1	1073	U	N1-C2-O2	-5.32	119.08	122.80
36	5	1886	A	C5-C6-N6	-5.32	119.44	123.70
36	1	398	A	N9-C4-C5	-5.32	103.67	105.80
36	1	2945	G	O5'-P-OP1	5.32	117.08	110.70
36	5	3077	A	N1-C6-N6	-5.32	115.41	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3287	U	N1-C2-O2	5.32	126.52	122.80
40	13	334	ARG	NE-CZ-NH1	-5.32	117.64	120.30
1	2	42	G	N1-C6-O6	-5.32	116.71	119.90
36	1	677	A	N1-C6-N6	5.32	121.79	118.60
36	1	1000	C	C6-N1-C1'	-5.32	114.42	120.80
36	5	3075	G	OP1-P-O3'	5.32	116.90	105.20
36	1	637	C	N3-C4-N4	-5.32	114.28	118.00
36	1	785	G	O5'-P-OP2	-5.32	100.92	105.70
36	1	818	C	N1-C2-N3	5.32	122.92	119.20
38	4	140	G	N9-C4-C5	5.32	107.53	105.40
1	6	1600	A	C2-N3-C4	-5.32	107.94	110.60
36	5	2400	G	C4-C5-N7	5.32	112.93	110.80
36	5	2858	U	C2-N1-C1'	5.32	124.08	117.70
36	5	3343	G	N9-C4-C5	-5.32	103.27	105.40
37	7	76	A	O4'-C1'-N9	5.32	112.45	108.20
1	2	1039	A	O4'-C1'-N9	5.32	112.45	108.20
36	1	159	A	N1-C6-N6	5.32	121.79	118.60
36	1	413	U	C5-C6-N1	-5.32	120.04	122.70
36	1	2945	G	N7-C8-N9	-5.32	110.44	113.10
1	2	507	U	N1-C2-O2	5.31	126.52	122.80
1	6	1755	A	C5-C6-N6	-5.31	119.45	123.70
36	5	2802	A	OP2-P-O3'	5.31	116.89	105.20
1	2	1600	A	C5-C6-N1	-5.31	115.04	117.70
36	1	2249	G	C2'-C3'-O3'	5.31	122.20	113.70
36	1	2350	C	C2-N3-C4	-5.31	117.24	119.90
36	5	2182	A	N1-C6-N6	-5.31	115.41	118.60
1	2	404	G	N9-C4-C5	-5.31	103.28	105.40
1	2	973	A	C5-C6-N1	-5.31	115.05	117.70
36	5	297	G	N1-C6-O6	-5.31	116.71	119.90
36	5	1380	G	N9-C4-C5	-5.31	103.28	105.40
36	1	876	A	O5'-P-OP2	-5.31	100.92	105.70
1	6	362	G	N1-C2-N2	-5.31	111.42	116.20
1	6	629	U	O5'-P-OP1	-5.31	100.92	105.70
36	5	439	C	C6-N1-C2	-5.31	118.18	120.30
36	5	631	U	N3-C4-O4	-5.31	115.68	119.40
36	5	1095	U	N3-C2-O2	-5.31	118.48	122.20
36	5	2293	C	N3-C4-N4	5.31	121.72	118.00
36	5	2338	C	N3-C4-N4	5.31	121.72	118.00
1	2	992	A	N3-C4-N9	-5.31	123.16	127.40
36	1	941	G	N9-C4-C5	5.31	107.52	105.40
36	1	973	A	N9-C4-C5	5.31	107.92	105.80
36	1	2302	G	N1-C2-N2	-5.31	111.42	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	3	U	C5-C6-N1	-5.31	120.05	122.70
1	6	1697	G	N3-C4-C5	-5.31	125.95	128.60
36	5	2636	A	O5'-P-OP1	-5.31	100.92	105.70
36	5	3309	G	C5-C6-N1	5.31	114.15	111.50
36	1	197	G	N1-C6-O6	5.31	123.08	119.90
36	1	2409	G	N9-C4-C5	5.31	107.52	105.40
1	2	1455	G	N9-C4-C5	5.30	107.52	105.40
25	D3	111	GLY	N-CA-C	-5.30	99.84	113.10
36	1	2144	A	C5-C6-N6	-5.30	119.46	123.70
36	1	3173	G	C5-N7-C8	-5.30	101.65	104.30
1	6	1103	U	OP2-P-O3'	5.30	116.87	105.20
36	5	267	G	O4'-C1'-N9	-5.30	103.96	108.20
36	5	361	A	N1-C6-N6	-5.30	115.42	118.60
36	5	2956	A	C5-C6-N1	-5.30	115.05	117.70
36	5	3050	U	N3-C2-O2	-5.30	118.49	122.20
36	5	3351	U	C6-N1-C2	-5.30	117.82	121.00
36	1	806	A	O4'-C1'-N9	-5.30	103.96	108.20
36	1	957	C	N3-C4-N4	5.30	121.71	118.00
36	1	1307	G	OP2-P-O3'	-5.30	93.53	105.20
36	5	43	A	C8-N9-C4	-5.30	103.68	105.80
36	5	339	C	C6-N1-C1'	5.30	127.16	120.80
1	2	554	C	N3-C4-C5	-5.30	119.78	121.90
1	2	777	C	C6-N1-C2	-5.30	118.18	120.30
36	1	421	G	N1-C2-N2	-5.30	111.43	116.20
36	1	634	C	N3-C2-O2	-5.30	118.19	121.90
36	1	1484	U	OP2-P-O3'	5.30	116.86	105.20
36	1	2434	U	N3-C4-O4	-5.30	115.69	119.40
6	S4	164	LEU	CA-CB-CG	5.30	127.49	115.30
36	1	99	A	O5'-P-OP1	5.30	117.06	110.70
36	1	608	A	N1-C6-N6	5.30	121.78	118.60
36	1	1114	U	N1-C2-N3	-5.30	111.72	114.90
36	5	2889	C	C2-N3-C4	-5.30	117.25	119.90
36	1	2409	G	N1-C6-O6	-5.30	116.72	119.90
36	1	2954	U	OP1-P-O3'	5.30	116.86	105.20
36	5	3126	C	N3-C4-C5	5.30	124.02	121.90
1	6	1305	U	N1-C2-O2	-5.30	119.09	122.80
36	5	2851	A	N1-C2-N3	5.30	131.95	129.30
47	m0	88	ARG	NE-CZ-NH1	-5.30	117.65	120.30
36	1	1412	G	N1-C6-O6	-5.29	116.72	119.90
36	1	2848	G	O5'-P-OP2	-5.29	100.94	105.70
36	5	86	G	C5-C6-N1	5.29	114.15	111.50
36	5	2315	G	N7-C8-N9	-5.29	110.45	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	933	A	C8-N9-C4	-5.29	103.68	105.80
1	2	1119	G	C8-N9-C4	-5.29	104.28	106.40
36	1	1846	C	C4-C5-C6	5.29	120.05	117.40
36	1	2816	G	O4'-C1'-N9	5.29	112.44	108.20
36	1	2971	A	N1-C6-N6	5.29	121.78	118.60
1	2	1389	C	N3-C2-O2	-5.29	118.20	121.90
1	6	610	G	C8-N9-C1'	-5.29	120.12	127.00
64	N8	116	GLY	N-CA-C	5.29	126.32	113.10
36	5	1306	G	C8-N9-C4	5.29	108.52	106.40
36	1	2200	U	C6-N1-C2	-5.29	117.83	121.00
38	4	125	U	C5-C6-N1	5.29	125.34	122.70
1	6	542	A	C4-C5-N7	5.29	113.34	110.70
21	C9	57	ARG	NE-CZ-NH1	5.29	122.94	120.30
36	1	824	C	N3-C4-N4	-5.29	114.30	118.00
69	O3	67	MET	CG-SD-CE	-5.29	91.74	100.20
1	6	1480	G	C8-N9-C4	-5.29	104.28	106.40
36	5	2369	G	N3-C4-N9	5.29	129.17	126.00
36	5	2831	G	N3-C4-C5	-5.29	125.96	128.60
40	l3	266	ARG	NE-CZ-NH2	-5.29	117.66	120.30
1	6	1535	U	N1-C2-N3	5.29	118.07	114.90
36	5	41	G	OP2-P-O3'	5.29	116.83	105.20
36	5	1365	G	N3-C2-N2	5.29	123.60	119.90
1	2	784	C	N1-C2-O2	-5.28	115.73	118.90
36	1	1140	G	N3-C4-C5	-5.28	125.96	128.60
1	6	1389	C	C2-N1-C1'	5.28	124.61	118.80
36	5	588	G	N3-C4-C5	-5.28	125.96	128.60
36	5	2245	C	N3-C2-O2	-5.28	118.20	121.90
37	7	111	U	C2-N1-C1'	5.28	124.04	117.70
36	1	2305	G	C6-C5-N7	-5.28	127.23	130.40
36	1	2977	G	N7-C8-N9	-5.28	110.46	113.10
41	L4	95	ARG	NE-CZ-NH1	-5.28	117.66	120.30
36	5	413	U	N3-C4-O4	5.28	123.10	119.40
36	5	1889	G	C8-N9-C1'	-5.28	120.13	127.00
1	2	1554	U	N3-C4-C5	-5.28	111.43	114.60
36	1	344	A	N1-C6-N6	-5.28	115.43	118.60
36	1	890	C	O5'-P-OP2	-5.28	100.95	105.70
36	1	1152	G	C4-C5-N7	5.28	112.91	110.80
36	1	1420	C	OP2-P-O3'	5.28	116.82	105.20
38	4	64	U	N1-C2-N3	5.28	118.07	114.90
1	6	1420	C	OP2-P-O3'	5.28	116.81	105.20
36	5	1846	C	OP2-P-O3'	5.28	116.82	105.20
36	1	1452	A	C8-N9-C4	5.28	107.91	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	577	C	C5-C6-N1	-5.28	118.36	121.00
36	5	2883	U	N3-C2-O2	-5.28	118.50	122.20
36	1	1430	U	C5-C6-N1	5.28	125.34	122.70
36	1	3183	A	O5'-P-OP1	-5.28	100.95	105.70
41	L4	139	GLY	N-CA-C	-5.28	99.91	113.10
36	5	431	U	O5'-P-OP2	-5.28	100.95	105.70
36	5	1193	A	C6-C5-N7	-5.28	128.60	132.30
36	5	3244	A	C2-N3-C4	-5.28	107.96	110.60
1	2	553	G	C4-C5-N7	5.28	112.91	110.80
36	1	2904	U	N3-C4-C5	5.28	117.77	114.60
49	M3	47	ALA	C-N-CD	5.28	139.48	128.40
1	6	565	C	O5'-P-OP1	-5.28	100.95	105.70
38	8	18	U	C5-C4-O4	5.28	129.06	125.90
1	2	142	G	N3-C4-N9	-5.27	122.84	126.00
1	6	1614	A	C4-C5-N7	5.27	113.34	110.70
15	C3	22	ALA	C-N-CA	5.27	144.15	122.00
36	1	2373	A	C5'-C4'-O4'	-5.27	102.77	109.10
36	1	2392	C	N3-C4-N4	5.27	121.69	118.00
36	5	528	U	N1-C2-O2	5.27	126.49	122.80
36	5	2385	G	C2-N3-C4	-5.27	109.26	111.90
36	5	3277	U	N3-C2-O2	-5.27	118.51	122.20
37	7	91	G	OP1-P-OP2	5.27	127.51	119.60
36	5	2390	A	OP2-P-O3'	5.27	116.80	105.20
36	1	633	C	C5-C6-N1	-5.27	118.36	121.00
1	6	957	G	C5-C6-N1	-5.27	108.86	111.50
36	5	2167	A	N1-C6-N6	-5.27	115.44	118.60
36	1	54	C	C2-N1-C1'	-5.27	113.00	118.80
36	1	371	G	N9-C4-C5	-5.27	103.29	105.40
36	1	869	G	N3-C4-C5	-5.27	125.97	128.60
36	1	1695	U	C5-C6-N1	-5.27	120.07	122.70
36	1	2731	U	N3-C2-O2	5.27	125.89	122.20
1	6	47	A	O5'-P-OP1	-5.27	100.96	105.70
36	5	2825	C	O5'-P-OP2	-5.27	100.96	105.70
36	1	328	U	OP2-P-O3'	5.27	116.79	105.20
36	1	2700	G	C5-C6-O6	-5.27	125.44	128.60
40	L3	4	ARG	NE-CZ-NH2	-5.27	117.67	120.30
1	2	1486	G	O4'-C1'-N9	5.26	112.41	108.20
36	1	1323	G	N1-C6-O6	-5.26	116.74	119.90
36	1	1329	U	N1-C2-N3	5.26	118.06	114.90
36	1	1381	A	N1-C6-N6	5.26	121.76	118.60
1	6	945	U	N1-C2-O2	5.26	126.49	122.80
1	6	1150	G	C4-N9-C1'	-5.26	119.66	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1149	G	C5-C6-O6	-5.26	125.44	128.60
36	5	1305	U	N3-C2-O2	5.26	125.89	122.20
36	5	2178	A	C8-N9-C4	5.26	107.91	105.80
36	5	2417	U	N3-C4-O4	5.26	123.08	119.40
36	5	2898	G	O4'-C1'-N9	-5.26	103.99	108.20
1	6	65	A	N1-C6-N6	5.26	121.76	118.60
12	c0	88	PRO	N-CA-CB	5.26	109.62	103.30
36	1	676	G	C8-N9-C4	-5.26	104.30	106.40
36	1	1101	G	O5'-P-OP2	-5.26	100.96	105.70
36	1	1437	C	C5-C6-N1	5.26	123.63	121.00
36	5	1879	A	C5-C6-N6	-5.26	119.49	123.70
36	5	3200	G	C5-C6-O6	-5.26	125.44	128.60
36	1	153	U	C6-N1-C2	-5.26	117.84	121.00
36	1	2972	G	N3-C2-N2	-5.26	116.22	119.90
36	5	280	U	C2-N3-C4	-5.26	123.84	127.00
36	5	1143	A	C6-N1-C2	5.26	121.76	118.60
36	5	1842	A	C2-N3-C4	-5.26	107.97	110.60
36	5	3093	C	N1-C2-O2	-5.26	115.74	118.90
36	1	1115	G	C4-N9-C1'	5.26	133.34	126.50
36	5	403	C	OP2-P-O3'	5.26	116.77	105.20
36	5	861	C	O5'-P-OP1	5.26	117.01	110.70
36	5	1051	U	C2-N3-C4	-5.26	123.84	127.00
36	5	1389	G	N1-C6-O6	5.26	123.06	119.90
13	C1	88	ARG	NE-CZ-NH2	-5.26	117.67	120.30
36	1	2357	A	N1-C6-N6	5.26	121.75	118.60
36	1	2700	G	C6-C5-N7	-5.26	127.25	130.40
36	5	1820	U	O4'-C1'-N1	5.26	112.41	108.20
37	7	102	A	N1-C6-N6	5.26	121.75	118.60
37	7	111	U	C6-N1-C1'	-5.26	113.84	121.20
36	1	284	A	C8-N9-C4	-5.25	103.70	105.80
36	1	764	U	P-O3'-C3'	5.25	126.00	119.70
36	1	2184	U	C4-C5-C6	-5.25	116.55	119.70
1	6	1150	G	C8-N9-C4	5.25	108.50	106.40
36	5	25	U	C4-C5-C6	5.25	122.85	119.70
36	5	957	C	N3-C4-C5	5.25	124.00	121.90
36	5	41	G	OP1-P-OP2	-5.25	111.72	119.60
36	5	1495	U	O4'-C1'-N1	5.25	112.40	108.20
36	5	2375	G	N1-C2-N2	-5.25	111.47	116.20
36	5	2989	U	C6-N1-C2	5.25	124.15	121.00
36	1	666	A	N1-C6-N6	-5.25	115.45	118.60
36	1	870	G	C5-C6-O6	-5.25	125.45	128.60
36	1	2371	G	N1-C6-O6	5.25	123.05	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2883	U	O5'-P-OP2	-5.25	100.98	105.70
36	1	3109	G	O5'-P-OP2	5.25	117.00	110.70
1	6	957	G	N3-C2-N2	-5.25	116.23	119.90
36	5	1112	A	C6-C5-N7	-5.25	128.63	132.30
37	7	49	G	O5'-P-OP2	5.25	117.00	110.70
75	o9	23	LEU	CA-CB-CG	5.25	127.37	115.30
36	1	652	G	N3-C4-N9	5.25	129.15	126.00
36	1	2383	C	C5-C6-N1	-5.25	118.38	121.00
36	1	2700	G	N1-C6-O6	5.25	123.05	119.90
36	1	2871	G	O5'-P-OP2	-5.25	100.98	105.70
1	6	163	G	N7-C8-N9	5.25	115.72	113.10
1	6	538	A	O4'-C1'-N9	5.25	112.40	108.20
1	6	760	A	N1-C6-N6	5.25	121.75	118.60
36	1	110	G	C5'-C4'-O4'	5.25	115.39	109.10
1	6	403	G	N3-C2-N2	5.25	123.57	119.90
1	2	704	C	O4'-C1'-N1	5.24	112.39	108.20
49	M3	85	LEU	CA-CB-CG	5.24	127.36	115.30
1	6	1299	G	N3-C4-C5	-5.24	125.98	128.60
1	6	1415	U	N3-C2-O2	-5.24	118.53	122.20
36	5	1180	A	C2-N3-C4	-5.24	107.98	110.60
37	7	21	G	N9-C4-C5	-5.24	103.30	105.40
36	5	1152	G	N1-C2-N3	5.24	127.05	123.90
36	5	2930	A	N1-C2-N3	-5.24	126.68	129.30
37	7	47	C	C2-N3-C4	-5.24	117.28	119.90
36	1	2860	U	C5-C4-O4	-5.24	122.76	125.90
1	6	93	A	C8-N9-C4	5.24	107.90	105.80
4	s2	58	LEU	CA-CB-CG	5.24	127.35	115.30
36	5	1206	G	N9-C4-C5	5.24	107.50	105.40
1	2	1370	U	P-O3'-C3'	5.24	125.98	119.70
36	1	2975	U	N1-C2-O2	5.24	126.47	122.80
36	5	1312	C	C5-C6-N1	5.24	123.62	121.00
36	5	2660	G	C5-C6-O6	-5.24	125.46	128.60
36	1	1148	G	N7-C8-N9	-5.24	110.48	113.10
36	1	1425	U	N3-C4-O4	-5.24	115.73	119.40
37	3	86	U	C6-N1-C1'	-5.24	113.87	121.20
36	5	1404	G	N1-C6-O6	-5.24	116.76	119.90
36	1	295	A	N7-C8-N9	5.23	116.42	113.80
36	1	347	G	C6-N1-C2	-5.23	121.96	125.10
36	5	195	U	C4-C5-C6	5.23	122.84	119.70
36	5	2122	G	N1-C6-O6	-5.23	116.76	119.90
36	5	1381	A	C8-N9-C4	5.23	107.89	105.80
36	5	1520	G	N3-C4-C5	-5.23	125.98	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3010	U	OP2-P-O3'	5.23	116.71	105.20
73	O7	24	ARG	CG-CD-NE	-5.23	100.81	111.80
36	5	1429	G	C2-N3-C4	-5.23	109.28	111.90
36	5	3049	A	N7-C8-N9	-5.23	111.19	113.80
36	1	1081	U	C5-C6-N1	5.23	125.31	122.70
36	1	3177	G	C2-N3-C4	5.23	114.52	111.90
1	6	354	C	N3-C4-N4	-5.23	114.34	118.00
36	5	2660	G	N7-C8-N9	-5.23	110.49	113.10
1	2	426	G	C4-N9-C1'	5.23	133.29	126.50
36	1	34	A	OP2-P-O3'	5.23	116.70	105.20
36	1	637	C	C5-C6-N1	-5.23	118.39	121.00
36	1	1173	U	N3-C4-O4	-5.23	115.74	119.40
36	1	2611	U	C5-C6-N1	-5.23	120.09	122.70
36	1	2752	U	N3-C4-C5	5.23	117.74	114.60
36	5	1884	A	OP2-P-O3'	5.23	116.70	105.20
36	1	1390	A	N1-C6-N6	-5.23	115.46	118.60
36	1	2133	U	C2-N1-C1'	-5.23	111.43	117.70
1	6	305	C	N1-C2-O2	-5.23	115.76	118.90
62	n6	60	ARG	NE-CZ-NH1	-5.23	117.69	120.30
36	1	817	A	N9-C1'-C2'	5.22	120.79	114.00
36	1	1445	U	C2-N3-C4	-5.22	123.86	127.00
1	6	782	U	N3-C2-O2	-5.22	118.54	122.20
36	5	2131	A	N1-C6-N6	5.22	121.73	118.60
38	8	6	U	C2-N3-C4	-5.22	123.87	127.00
1	2	1174	C	N1-C2-O2	5.22	122.03	118.90
36	1	716	A	O4'-C1'-N9	-5.22	104.02	108.20
36	1	2993	G	N3-C2-N2	5.22	123.56	119.90
1	6	194	U	N3-C2-O2	-5.22	118.55	122.20
1	6	362	G	N3-C4-C5	-5.22	125.99	128.60
1	6	1572	G	C6-C5-N7	-5.22	127.27	130.40
36	5	1202	A	O5'-P-OP1	-5.22	101.00	105.70
36	5	1909	A	C8-N9-C4	5.22	107.89	105.80
36	1	1547	G	N7-C8-N9	-5.22	110.49	113.10
36	5	911	C	C6-N1-C2	5.22	122.39	120.30
36	5	2305	G	N3-C2-N2	5.22	123.56	119.90
36	5	2341	A	N9-C4-C5	-5.22	103.71	105.80
36	1	832	G	C8-N9-C4	5.22	108.49	106.40
36	1	1180	A	O4'-C1'-N9	-5.22	104.02	108.20
36	1	1428	A	OP2-P-O3'	5.22	116.68	105.20
36	1	2923	U	C5-C4-O4	-5.22	122.77	125.90
62	N6	83	ASP	CB-CG-OD1	-5.22	113.60	118.30
1	6	646	C	C6-N1-C2	-5.22	118.21	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	858	G	N7-C8-N9	5.22	115.71	113.10
1	6	864	U	N1-C2-O2	5.22	126.45	122.80
36	5	1205	A	C5-C6-N6	-5.22	119.53	123.70
36	5	1511	U	C5-C6-N1	-5.22	120.09	122.70
36	5	2830	G	N3-C4-C5	-5.22	125.99	128.60
36	1	2957	G	C5-N7-C8	5.22	106.91	104.30
36	5	3277	U	N1-C2-O2	5.22	126.45	122.80
36	1	2772	C	O4'-C1'-N1	5.22	112.37	108.20
46	L9	166	ARG	NE-CZ-NH2	5.22	122.91	120.30
36	1	417	A	O5'-P-OP2	-5.21	101.01	105.70
36	1	916	G	C6-N1-C2	5.21	128.23	125.10
36	1	1145	G	C5-C6-O6	-5.21	125.47	128.60
36	1	2935	U	C2-N3-C4	5.21	130.13	127.00
36	5	398	A	C8-N9-C4	-5.21	103.71	105.80
36	5	891	G	N1-C6-O6	-5.21	116.77	119.90
36	5	1171	G	C2-N3-C4	-5.21	109.29	111.90
36	5	2119	A	C5-C6-N6	-5.21	119.53	123.70
36	5	3271	G	O5'-P-OP1	5.21	116.96	110.70
1	2	1200	G	C6-C5-N7	-5.21	127.27	130.40
1	2	1778	G	N1-C6-O6	-5.21	116.77	119.90
36	1	30	G	N1-C2-N2	-5.21	111.51	116.20
36	1	936	A	P-O3'-C3'	5.21	125.95	119.70
36	1	1329	U	C2-N1-C1'	5.21	123.95	117.70
36	1	2883	U	C4-C5-C6	-5.21	116.57	119.70
36	5	2340	U	N3-C2-O2	-5.21	118.55	122.20
1	2	1096	C	C5-C6-N1	5.21	123.61	121.00
1	6	1514	U	N3-C2-O2	-5.21	118.55	122.20
36	5	26	A	O5'-P-OP1	-5.21	101.01	105.70
36	5	1302	A	C8-N9-C4	-5.21	103.72	105.80
40	l3	205	VAL	CB-CA-C	-5.21	101.50	111.40
36	1	1323	G	OP2-P-O3'	5.21	116.66	105.20
36	1	2422	C	N1-C2-O2	5.21	122.03	118.90
36	1	2600	C	C2-N1-C1'	5.21	124.53	118.80
37	7	95	A	C8-N9-C4	5.21	107.88	105.80
36	1	1320	C	O5'-P-OP2	-5.21	101.01	105.70
36	1	1591	G	C5-C6-O6	5.21	131.72	128.60
36	5	2369	G	O5'-P-OP1	-5.21	101.01	105.70
36	5	2692	A	N1-C6-N6	-5.21	115.48	118.60
36	5	2816	G	C4-N9-C1'	-5.21	119.73	126.50
36	5	2857	C	C6-N1-C2	5.21	122.38	120.30
36	5	2944	U	C4-C5-C6	-5.21	116.58	119.70
36	5	3104	U	N3-C4-C5	5.21	117.72	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2586	G	N1-C6-O6	5.20	123.02	119.90
36	1	3136	G	N3-C4-N9	5.20	129.12	126.00
36	5	2812	C	OP1-P-OP2	5.20	127.41	119.60
36	5	2917	G	O5'-P-OP2	-5.20	101.02	105.70
1	2	359	A	N1-C2-N3	-5.20	126.70	129.30
36	1	944	C	C6-N1-C2	-5.20	118.22	120.30
36	1	1152	G	OP1-P-OP2	5.20	127.40	119.60
38	4	30	C	N3-C4-N4	-5.20	114.36	118.00
38	4	42	G	N1-C6-O6	5.20	123.02	119.90
1	6	4	C	O5'-P-OP1	-5.20	101.02	105.70
36	5	376	G	C5-C6-N1	5.20	114.10	111.50
36	5	942	U	C4-C5-C6	5.20	122.82	119.70
36	5	2865	U	N3-C4-C5	5.20	117.72	114.60
38	8	29	U	C5-C6-N1	-5.20	120.10	122.70
36	5	2798	C	C5-C4-N4	5.20	123.84	120.20
1	2	1241	G	O4'-C1'-N9	5.20	112.36	108.20
36	1	2331	C	C5-C6-N1	-5.20	118.40	121.00
1	6	1410	A	N1-C6-N6	5.20	121.72	118.60
36	5	1192	C	C4-C5-C6	5.20	120.00	117.40
36	5	1214	U	C6-N1-C2	-5.20	117.88	121.00
37	7	104	A	N1-C6-N6	5.20	121.72	118.60
36	1	1458	U	C6-N1-C2	5.20	124.12	121.00
36	1	2623	G	C6-C5-N7	-5.20	127.28	130.40
36	1	3222	U	N3-C2-O2	-5.20	118.56	122.20
36	5	426	G	C5-N7-C8	5.20	106.90	104.30
36	5	1522	U	N1-C2-O2	5.20	126.44	122.80
36	5	2732	G	N3-C4-N9	5.20	129.12	126.00
36	5	2930	A	O4'-C1'-N9	5.20	112.36	108.20
36	5	921	A	O4'-C1'-N9	-5.19	104.05	108.20
36	5	2945	G	OP1-P-OP2	-5.19	111.81	119.60
36	1	2935	U	O5'-P-OP2	-5.19	101.03	105.70
36	1	2986	U	C2-N3-C4	-5.19	123.89	127.00
36	1	3195	U	C2-N1-C1'	5.19	123.93	117.70
36	5	712	G	C8-N9-C4	-5.19	104.32	106.40
36	5	1212	A	O5'-P-OP2	-5.19	101.03	105.70
36	5	2632	G	C5-C6-O6	5.19	131.72	128.60
36	5	2689	A	C8-N9-C4	-5.19	103.72	105.80
36	5	2702	A	N9-C4-C5	5.19	107.88	105.80
36	5	2889	C	N3-C4-N4	-5.19	114.36	118.00
36	1	521	A	C4-C5-N7	5.19	113.30	110.70
36	1	2605	G	N3-C2-N2	-5.19	116.27	119.90
36	1	2939	G	N3-C2-N2	-5.19	116.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	589	A	O4'-C1'-N9	-5.19	104.05	108.20
36	5	2639	G	N3-C4-C5	-5.19	126.00	128.60
36	1	963	G	O5'-P-OP1	5.19	116.93	110.70
36	1	2192	C	C2-N3-C4	-5.19	117.31	119.90
36	5	1309	U	N1-C2-O2	-5.19	119.17	122.80
35	SM	134	ASP	CB-CG-OD2	5.19	122.97	118.30
36	1	1124	U	N3-C4-C5	5.19	117.71	114.60
36	1	2541	U	P-O3'-C3'	5.19	125.93	119.70
36	1	2940	A	C5-N7-C8	5.19	106.49	103.90
36	1	3361	G	N3-C4-N9	5.19	129.11	126.00
36	5	1496	C	C2-N1-C1'	5.19	124.51	118.80
1	2	1537	C	C5-C4-N4	-5.19	116.57	120.20
36	1	46	U	C5-C4-O4	5.19	129.01	125.90
36	5	2896	A	N1-C6-N6	-5.19	115.49	118.60
40	l3	2	SER	N-CA-C	-5.19	97.00	111.00
1	2	569	C	C6-N1-C2	-5.18	118.23	120.30
1	2	1559	A	O4'-C1'-N9	5.18	112.35	108.20
36	1	804	C	C6-N1-C1'	5.18	127.02	120.80
36	1	1200	A	O4'-C1'-N9	5.18	112.35	108.20
1	6	407	A	O5'-P-OP2	5.18	116.92	110.70
36	5	630	A	C5-C6-N1	-5.18	115.11	117.70
36	5	2310	U	O5'-P-OP2	-5.18	101.03	105.70
37	7	22	A	N3-C4-C5	-5.18	123.17	126.80
1	2	581	U	C6-N1-C1'	-5.18	113.94	121.20
36	1	1144	U	N3-C4-C5	5.18	117.71	114.60
36	1	1149	G	C4-N9-C1'	-5.18	119.76	126.50
36	1	1604	G	C2-N3-C4	5.18	114.49	111.90
36	1	2714	G	C4-C5-N7	5.18	112.87	110.80
36	1	2817	A	C5-C6-N6	-5.18	119.55	123.70
36	1	2827	U	OP1-P-O3'	5.18	116.60	105.20
36	5	838	G	C6-C5-N7	5.18	133.51	130.40
36	5	2341	A	N1-C2-N3	-5.18	126.71	129.30
36	1	2351	U	N1-C2-O2	5.18	126.43	122.80
1	6	1489	U	C2-N1-C1'	5.18	123.92	117.70
1	2	321	C	C6-N1-C2	-5.18	118.23	120.30
36	5	992	A	C8-N9-C4	5.18	107.87	105.80
36	5	1330	A	N1-C2-N3	-5.18	126.71	129.30
36	5	1538	G	C8-N9-C4	5.18	108.47	106.40
36	5	2989	U	C2-N1-C1'	-5.18	111.48	117.70
36	1	608	A	N9-C4-C5	-5.18	103.73	105.80
36	1	1797	A	N1-C6-N6	-5.18	115.49	118.60
1	6	1032	G	N9-C4-C5	-5.18	103.33	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2365	C	OP1-P-OP2	5.18	127.37	119.60
38	8	88	A	N1-C6-N6	5.18	121.71	118.60
1	6	558	U	P-O3'-C3'	5.18	125.91	119.70
36	5	1370	G	N3-C2-N2	5.18	123.52	119.90
36	5	1588	A	C8-N9-C4	5.18	107.87	105.80
36	1	795	G	N7-C8-N9	-5.17	110.51	113.10
36	1	881	C	N3-C2-O2	-5.17	118.28	121.90
36	1	1399	A	C8-N9-C4	5.17	107.87	105.80
38	4	17	A	C8-N9-C4	5.17	107.87	105.80
1	6	1568	C	C6-N1-C2	-5.17	118.23	120.30
36	5	104	G	C2-N3-C4	-5.17	109.31	111.90
36	5	2648	G	OP1-P-O3'	5.17	116.58	105.20
36	5	2909	U	N1-C2-O2	-5.17	119.18	122.80
36	1	2362	C	C5-C6-N1	5.17	123.59	121.00
36	1	2827	U	N3-C4-O4	-5.17	115.78	119.40
1	6	1020	A	C4-C5-C6	5.17	119.59	117.00
36	5	103	G	N9-C4-C5	5.17	107.47	105.40
1	2	1611	A	C2-N3-C4	-5.17	108.02	110.60
36	5	3218	A	P-O3'-C3'	5.17	125.91	119.70
36	1	2639	G	N9-C4-C5	-5.17	103.33	105.40
36	1	616	G	C5-C6-O6	-5.17	125.50	128.60
36	1	2423	U	C2-N1-C1'	5.17	123.90	117.70
1	6	1414	U	N1-C2-N3	5.17	118.00	114.90
36	5	2290	C	C5-C4-N4	-5.17	116.58	120.20
36	5	3287	U	C5-C6-N1	5.17	125.28	122.70
36	1	2384	A	C4-C5-N7	5.17	113.28	110.70
36	1	2979	U	C5-C6-N1	-5.17	120.12	122.70
37	3	81	U	N1-C2-O2	5.17	126.42	122.80
36	1	827	A	N7-C8-N9	-5.17	111.22	113.80
1	6	858	G	C4-C5-N7	5.17	112.87	110.80
36	5	708	G	C5-C6-O6	-5.17	125.50	128.60
36	5	1533	U	O5'-P-OP2	-5.17	101.05	105.70
36	1	345	G	N3-C4-C5	-5.16	126.02	128.60
36	1	2801	A	OP1-P-OP2	5.16	127.34	119.60
38	4	26	U	N3-C2-O2	-5.16	118.58	122.20
1	6	1034	C	C4-C5-C6	5.16	119.98	117.40
1	6	1549	C	N3-C4-C5	-5.16	119.83	121.90
36	5	1890	U	C4-C5-C6	5.16	122.80	119.70
36	5	2349	U	OP1-P-O3'	5.16	116.56	105.20
36	5	2964	G	N1-C6-O6	-5.16	116.80	119.90
1	2	9	U	O5'-P-OP1	-5.16	101.05	105.70
36	5	426	G	C4-C5-N7	-5.16	108.73	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	926	A	C5-C6-N6	-5.16	119.57	123.70
36	5	1057	A	N9-C4-C5	-5.16	103.73	105.80
36	1	1155	C	N1-C2-O2	-5.16	115.80	118.90
36	1	1458	U	C5-C6-N1	-5.16	120.12	122.70
36	1	2797	C	N1-C2-O2	-5.16	115.80	118.90
1	6	826	U	C6-N1-C2	-5.16	117.90	121.00
36	5	888	A	C5-C6-N1	-5.16	115.12	117.70
36	5	1141	C	O5'-P-OP1	-5.16	101.06	105.70
36	5	1180	A	O4'-C1'-N9	-5.16	104.07	108.20
36	5	2113	A	N1-C2-N3	-5.16	126.72	129.30
1	2	1679	G	C8-N9-C4	-5.16	104.34	106.40
36	5	92	G	C2-N3-C4	5.16	114.48	111.90
37	7	49	G	O4'-C1'-N9	5.16	112.33	108.20
1	2	1189	A	C8-N9-C4	5.16	107.86	105.80
36	1	71	A	N9-C4-C5	5.16	107.86	105.80
36	1	1898	G	O4'-C1'-N9	5.16	112.33	108.20
1	6	403	G	C4-C5-N7	5.16	112.86	110.80
36	1	1784	G	N3-C4-N9	-5.16	122.91	126.00
36	1	3312	U	OP2-P-O3'	5.16	116.54	105.20
36	5	1197	A	C5-C6-N6	-5.16	119.58	123.70
44	17	100	ARG	NE-CZ-NH2	-5.16	117.72	120.30
36	1	1423	C	OP2-P-O3'	5.15	116.54	105.20
36	1	2876	C	N1-C2-O2	5.15	121.99	118.90
1	6	826	U	C5-C6-N1	5.15	125.28	122.70
1	2	1199	G	O5'-P-OP2	-5.15	101.06	105.70
36	1	21	G	C5-C6-O6	5.15	131.69	128.60
36	1	1146	C	O5'-P-OP2	-5.15	101.06	105.70
36	1	2938	G	N3-C2-N2	-5.15	116.29	119.90
72	O6	27	SER	N-CA-C	-5.15	97.09	111.00
1	6	32	U	C2-N3-C4	-5.15	123.91	127.00
1	6	901	G	N1-C6-O6	5.15	122.99	119.90
36	5	1321	G	C5-C6-N1	-5.15	108.92	111.50
1	2	1596	C	C6-N1-C2	-5.15	118.24	120.30
36	1	1349	G	N3-C4-C5	-5.15	126.02	128.60
36	1	1929	G	C8-N9-C4	5.15	108.46	106.40
36	1	3171	U	N3-C2-O2	5.15	125.81	122.20
1	6	1208	A	O4'-C1'-N9	5.15	112.32	108.20
36	5	516	A	N9-C4-C5	-5.15	103.74	105.80
36	5	1178	G	N3-C4-C5	-5.15	126.03	128.60
36	1	2606	G	C6-C5-N7	-5.15	127.31	130.40
1	6	144	U	O4'-C1'-N1	5.15	112.32	108.20
36	1	760	G	O4'-C1'-N9	5.15	112.32	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1002	A	C8-N9-C4	5.15	107.86	105.80
36	1	1435	A	C8-N9-C4	-5.15	103.74	105.80
1	6	1293	U	N3-C4-C5	5.15	117.69	114.60
36	5	519	A	C6-C5-N7	-5.15	128.70	132.30
36	5	1331	U	N3-C4-C5	5.15	117.69	114.60
36	5	2719	U	O4'-C1'-N1	5.15	112.32	108.20
36	1	2927	C	OP2-P-O3'	5.15	116.52	105.20
36	5	883	A	OP1-P-OP2	-5.15	111.88	119.60
36	5	919	U	OP1-P-OP2	-5.15	111.88	119.60
36	5	1177	G	O4'-C1'-N9	5.15	112.32	108.20
36	5	1322	U	N3-C4-O4	-5.15	115.80	119.40
36	5	2757	U	C2-N3-C4	-5.15	123.91	127.00
36	1	2306	C	C6-N1-C2	-5.14	118.24	120.30
36	1	2850	G	O5'-P-OP2	-5.14	101.07	105.70
38	4	51	G	N9-C4-C5	-5.14	103.34	105.40
36	5	993	G	O4'-C1'-N9	5.14	112.31	108.20
36	5	1003	A	C8-N9-C4	5.14	107.86	105.80
36	5	1392	G	N3-C4-N9	5.14	129.09	126.00
36	5	1412	G	C8-N9-C4	-5.14	104.34	106.40
36	1	1168	U	C2-N1-C1'	5.14	123.87	117.70
36	1	1509	A	N1-C6-N6	5.14	121.69	118.60
1	6	1300	A	N1-C6-N6	-5.14	115.51	118.60
1	6	1600	A	P-O3'-C3'	5.14	125.87	119.70
36	5	221	A	C8-N9-C4	5.14	107.86	105.80
36	5	988	U	C5-C4-O4	5.14	128.99	125.90
36	1	805	G	N1-C6-O6	-5.14	116.82	119.90
36	1	2166	A	C2-N3-C4	5.14	113.17	110.60
36	1	2244	A	N1-C6-N6	-5.14	115.52	118.60
36	1	2802	A	OP2-P-O3'	5.14	116.51	105.20
36	1	3009	G	OP2-P-O3'	5.14	116.51	105.20
36	5	2805	G	C8-N9-C4	5.14	108.46	106.40
1	2	795	U	N3-C2-O2	-5.14	118.60	122.20
1	2	1486	G	C4-C5-N7	5.14	112.86	110.80
36	1	676	G	N3-C4-C5	-5.14	126.03	128.60
36	1	1122	U	C2-N3-C4	-5.14	123.92	127.00
36	1	2142	A	N3-C4-C5	-5.14	123.20	126.80
36	1	2201	G	N3-C2-N2	5.14	123.50	119.90
36	1	2625	C	OP1-P-OP2	5.14	127.31	119.60
36	1	2625	C	O5'-P-OP2	-5.14	101.08	105.70
36	5	73	C	C5-C6-N1	-5.14	118.43	121.00
36	5	403	C	OP1-P-OP2	5.14	127.31	119.60
36	5	2142	A	OP1-P-O3'	5.14	116.51	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3005	A	C4-C5-N7	-5.14	108.13	110.70
36	1	1120	A	N1-C6-N6	-5.14	115.52	118.60
36	1	1494	U	C6-N1-C2	5.14	124.08	121.00
36	5	2819	A	OP1-P-OP2	-5.14	111.89	119.60
36	5	3096	C	C2-N3-C4	-5.14	117.33	119.90
1	2	551	G	C4-C5-N7	5.14	112.86	110.80
36	1	664	U	C5-C4-O4	-5.14	122.82	125.90
36	1	2148	U	C5-C6-N1	-5.14	120.13	122.70
36	1	2747	A	C5-C6-N6	5.14	127.81	123.70
36	5	423	A	C5-N7-C8	5.14	106.47	103.90
36	5	1148	G	N7-C8-N9	-5.14	110.53	113.10
1	2	1096	C	C6-N1-C1'	-5.13	114.64	120.80
36	1	600	G	N3-C4-C5	-5.13	126.03	128.60
1	6	87	C	N1-C2-N3	5.13	122.80	119.20
1	6	351	C	N3-C2-O2	-5.13	118.31	121.90
1	6	1139	A	N1-C6-N6	-5.13	115.52	118.60
36	5	3309	G	C8-N9-C1'	-5.13	120.33	127.00
1	6	1743	U	OP2-P-O3'	5.13	116.49	105.20
36	1	1480	G	C4-C5-N7	5.13	112.85	110.80
36	1	2175	U	C5-C6-N1	-5.13	120.13	122.70
1	6	352	A	N1-C6-N6	-5.13	115.52	118.60
1	6	543	C	C4-C5-C6	-5.13	114.83	117.40
1	2	1600	A	OP1-P-O3'	5.13	116.49	105.20
36	1	80	G	N1-C6-O6	-5.13	116.82	119.90
36	1	2374	C	C6-N1-C2	-5.13	118.25	120.30
36	1	2719	U	N1-C2-N3	5.13	117.98	114.90
1	6	965	U	N3-C2-O2	-5.13	118.61	122.20
36	5	392	G	C5-C6-O6	-5.13	125.52	128.60
36	5	1161	G	C5-C6-N1	5.13	114.06	111.50
1	2	736	C	C5-C6-N1	5.13	123.56	121.00
36	1	660	A	N1-C2-N3	-5.13	126.74	129.30
36	1	2334	U	O5'-P-OP2	-5.13	101.08	105.70
1	6	359	A	C8-N9-C4	5.13	107.85	105.80
36	5	2346	C	N3-C4-C5	5.13	123.95	121.90
36	1	2605	G	N1-C2-N2	5.13	120.81	116.20
36	5	676	G	OP2-P-O3'	5.13	116.48	105.20
36	5	1330	A	C5-C6-N6	-5.13	119.60	123.70
36	5	1491	A	OP2-P-O3'	5.13	116.48	105.20
36	5	2621	G	N1-C6-O6	5.13	122.98	119.90
36	5	2969	A	N1-C2-N3	-5.13	126.74	129.30
36	5	3095	U	N3-C4-O4	-5.13	115.81	119.40
36	5	1405	U	C2-N3-C4	-5.12	123.92	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1596	C	C2-N1-C1'	5.12	124.44	118.80
36	1	659	G	N1-C2-N2	-5.12	111.59	116.20
36	1	985	U	N1-C2-N3	-5.12	111.83	114.90
36	1	1157	G	C4-C5-N7	-5.12	108.75	110.80
36	1	2621	G	C5-C6-O6	-5.12	125.53	128.60
36	1	2758	A	N7-C8-N9	-5.12	111.24	113.80
36	5	926	A	N1-C6-N6	5.12	121.67	118.60
36	1	1399	A	C6-N1-C2	5.12	121.67	118.60
36	1	2395	G	N7-C8-N9	-5.12	110.54	113.10
36	1	3280	U	O4'-C1'-N1	5.12	112.30	108.20
38	4	30	C	C6-N1-C2	-5.12	118.25	120.30
1	6	1190	C	C6-N1-C2	5.12	122.35	120.30
36	5	186	U	N1-C2-O2	5.12	126.39	122.80
36	5	679	U	N1-C2-N3	5.12	117.97	114.90
36	5	3309	G	C8-N9-C4	-5.12	104.35	106.40
37	7	103	A	N1-C6-N6	5.12	121.67	118.60
38	8	125	U	C2-N1-C1'	5.12	123.85	117.70
1	2	1456	C	C4-C5-C6	5.12	119.96	117.40
36	1	2952	G	C5-N7-C8	-5.12	101.74	104.30
36	5	1047	A	C5-C6-N6	-5.12	119.60	123.70
36	1	1468	A	OP1-P-OP2	5.12	127.28	119.60
36	5	2136	C	C4-C5-C6	5.12	119.96	117.40
1	2	322	G	OP1-P-O3'	5.12	116.46	105.20
1	2	367	A	N1-C6-N6	5.12	121.67	118.60
36	1	3110	C	C6-N1-C2	-5.12	118.25	120.30
1	6	1418	G	N9-C4-C5	-5.12	103.35	105.40
36	5	3142	A	O5'-P-OP1	-5.12	101.09	105.70
1	2	1559	A	C4-C5-N7	5.12	113.26	110.70
36	1	439	C	N3-C4-N4	5.12	121.58	118.00
36	1	2177	G	C5-C6-N1	5.12	114.06	111.50
1	6	987	G	C5-C6-O6	-5.12	125.53	128.60
36	5	33	G	C5-C6-N1	5.12	114.06	111.50
36	5	407	A	N7-C8-N9	5.12	116.36	113.80
36	5	679	U	C5-C4-O4	5.12	128.97	125.90
36	5	1327	C	N3-C2-O2	-5.12	118.32	121.90
36	5	1374	G	N1-C2-N2	-5.12	111.60	116.20
36	5	1377	G	C8-N9-C4	-5.12	104.35	106.40
36	5	1906	G	N1-C2-N3	5.12	126.97	123.90
36	5	1911	A	N1-C6-N6	5.12	121.67	118.60
36	5	1933	A	N1-C6-N6	5.12	121.67	118.60
36	5	2340	U	C2-N3-C4	-5.12	123.93	127.00
36	5	2892	A	C5-C6-N6	5.12	127.79	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3287	U	C2-N1-C1'	5.12	123.84	117.70
40	l3	3	HIS	N-CA-C	-5.12	97.19	111.00
36	1	426	G	N3-C4-C5	-5.11	126.04	128.60
36	1	505	G	N3-C4-N9	-5.11	122.93	126.00
36	1	1716	U	P-O3'-C3'	5.11	125.84	119.70
36	1	2153	U	N3-C2-O2	-5.11	118.62	122.20
36	1	2385	G	C2-N3-C4	-5.11	109.34	111.90
36	1	3056	U	N1-C2-O2	-5.11	119.22	122.80
38	4	125	U	C6-N1-C1'	-5.11	114.04	121.20
36	5	1154	A	N1-C6-N6	-5.11	115.53	118.60
36	5	2246	G	N1-C6-O6	-5.11	116.83	119.90
36	5	2707	C	C6-N1-C2	5.11	122.34	120.30
1	2	543	C	N1-C2-O2	5.11	121.97	118.90
1	2	737	A	O4'-C1'-N9	5.11	112.29	108.20
36	5	3141	A	C8-N9-C4	-5.11	103.75	105.80
36	1	706	A	C2-N3-C4	-5.11	108.05	110.60
36	1	1901	A	C2-N3-C4	5.11	113.16	110.60
1	6	158	U	C5-C4-O4	-5.11	122.83	125.90
36	5	1152	G	C8-N9-C4	-5.11	104.36	106.40
36	5	2606	G	N1-C6-O6	-5.11	116.83	119.90
36	5	3200	G	N1-C6-O6	5.11	122.97	119.90
36	1	1055	A	C8-N9-C4	5.11	107.84	105.80
1	6	1280	C	C6-N1-C2	-5.11	118.26	120.30
1	2	30	G	C5-C6-O6	-5.11	125.53	128.60
36	1	821	U	N3-C4-O4	-5.11	115.83	119.40
36	1	1480	G	C5-C6-O6	-5.11	125.53	128.60
1	6	891	A	C8-N9-C4	5.11	107.84	105.80
36	5	363	G	OP1-P-O3'	5.11	116.44	105.20
36	5	927	C	N3-C4-C5	5.11	123.94	121.90
36	5	1101	G	N3-C2-N2	5.11	123.47	119.90
36	5	3096	C	C4-C5-C6	5.11	119.95	117.40
18	C6	40	GLU	C-N-CD	-5.11	109.37	120.60
36	1	44	U	N3-C4-O4	-5.11	115.83	119.40
36	1	3041	U	N3-C2-O2	5.11	125.77	122.20
36	1	3129	A	C8-N9-C4	5.11	107.84	105.80
36	1	3334	U	N1-C2-N3	5.11	117.96	114.90
36	1	3361	G	N3-C2-N2	5.11	123.47	119.90
1	6	1749	A	N9-C4-C5	-5.11	103.76	105.80
36	5	1206	G	C5-C6-O6	5.11	131.66	128.60
36	5	1901	A	C8-N9-C1'	-5.11	118.51	127.70
36	5	1931	U	N3-C2-O2	5.11	125.77	122.20
36	5	2524	A	C3'-C2'-C1'	-5.11	97.42	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2531	C	C2-N1-C1'	5.11	124.42	118.80
36	1	74	G	N1-C6-O6	-5.10	116.84	119.90
36	1	422	A	C5-C6-N1	5.10	120.25	117.70
36	1	2642	A	OP2-P-O3'	5.10	116.43	105.20
1	6	647	G	N1-C2-N2	5.10	120.79	116.20
36	1	304	G	N3-C2-N2	-5.10	116.33	119.90
36	1	2314	U	C6-N1-C1'	-5.10	114.06	121.20
36	1	2879	C	N1-C2-O2	-5.10	115.84	118.90
36	5	712	G	N3-C4-C5	-5.10	126.05	128.60
36	5	2323	G	C5-C6-O6	5.10	131.66	128.60
36	5	2342	U	N3-C4-C5	5.10	117.66	114.60
36	5	2892	A	N9-C4-C5	5.10	107.84	105.80
59	n3	42	SER	N-CA-C	5.10	124.78	111.00
36	1	101	G	O4'-C1'-N9	5.10	112.28	108.20
36	1	1313	G	C5-N7-C8	-5.10	101.75	104.30
54	M8	99	THR	N-CA-C	5.10	124.77	111.00
1	6	1172	G	O5'-P-OP1	-5.10	101.11	105.70
36	5	416	A	OP2-P-O3'	5.10	116.42	105.20
36	1	3109	G	C5-C6-N1	5.10	114.05	111.50
1	6	17	C	N3-C2-O2	-5.10	118.33	121.90
36	5	3124	G	N9-C4-C5	5.10	107.44	105.40
38	8	26	U	OP2-P-O3'	5.10	116.42	105.20
1	2	427	C	N3-C2-O2	-5.10	118.33	121.90
1	2	1793	G	N1-C6-O6	-5.10	116.84	119.90
36	1	1102	A	OP1-P-O3'	5.10	116.41	105.20
36	1	1333	C	O5'-P-OP1	5.10	116.82	110.70
36	1	2953	U	N1-C2-O2	-5.10	119.23	122.80
37	7	41	G	N3-C2-N2	5.10	123.47	119.90
1	2	360	A	C4-C5-C6	-5.10	114.45	117.00
36	1	1371	G	N7-C8-N9	-5.10	110.55	113.10
37	3	47	C	O5'-P-OP2	-5.10	101.11	105.70
38	4	148	G	N3-C2-N2	5.10	123.47	119.90
36	5	726	G	N9-C4-C5	-5.10	103.36	105.40
36	5	2618	G	N3-C4-N9	5.10	129.06	126.00
1	2	1217	A	O4'-C1'-N9	-5.09	104.12	108.20
1	2	1629	G	N1-C2-N2	-5.09	111.61	116.20
36	1	2142	A	C2-N3-C4	5.09	113.15	110.60
36	1	2202	C	O5'-P-OP2	5.09	116.81	110.70
36	5	2145	A	C5-C6-N1	5.09	120.25	117.70
1	2	158	U	N3-C2-O2	-5.09	118.64	122.20
36	1	2817	A	O5'-P-OP2	5.09	116.81	110.70
36	5	966	U	O5'-P-OP2	-5.09	101.12	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	971	G	N3-C2-N2	-5.09	116.34	119.90
36	5	1147	G	OP2-P-O3'	5.09	116.40	105.20
36	5	2171	G	C5-C6-O6	5.09	131.66	128.60
36	5	2355	G	C5-C6-N1	5.09	114.05	111.50
36	5	2403	G	N3-C4-N9	5.09	129.06	126.00
36	5	2878	G	C4-C5-C6	-5.09	115.75	118.80
1	2	453	U	C6-N1-C1'	-5.09	114.07	121.20
36	1	212	G	C5-N7-C8	5.09	106.84	104.30
36	1	421	G	C5-C6-N1	5.09	114.05	111.50
36	1	1148	G	N3-C2-N2	5.09	123.46	119.90
36	1	1555	U	OP2-P-O3'	5.09	116.40	105.20
36	1	1908	A	C8-N9-C4	5.09	107.84	105.80
1	6	864	U	C5-C4-O4	5.09	128.95	125.90
1	6	1796	C	C5-C6-N1	-5.09	118.45	121.00
36	5	975	C	OP1-P-OP2	5.09	127.23	119.60
36	5	1113	G	N1-C2-N3	5.09	126.95	123.90
36	5	3141	A	C4-C5-C6	5.09	119.55	117.00
36	1	910	G	C4-C5-N7	-5.09	108.77	110.80
36	1	1184	A	C2-N3-C4	-5.09	108.06	110.60
36	1	1204	A	N1-C6-N6	5.09	121.65	118.60
36	1	1929	G	N9-C4-C5	-5.09	103.36	105.40
1	6	1185	U	N1-C2-O2	5.09	126.36	122.80
1	6	1742	U	OP2-P-O3'	5.09	116.39	105.20
36	5	104	G	C5-C6-O6	-5.09	125.55	128.60
36	5	948	C	OP1-P-OP2	-5.09	111.97	119.60
1	2	359	A	N9-C4-C5	-5.09	103.77	105.80
36	1	60	A	C5-C6-N6	-5.09	119.63	123.70
36	1	76	G	C4-N9-C1'	5.09	133.11	126.50
36	1	217	U	N1-C2-N3	5.09	117.95	114.90
36	1	1399	A	C5-C6-N1	-5.09	115.16	117.70
36	1	2138	A	N9-C4-C5	5.09	107.83	105.80
36	1	3344	A	N1-C6-N6	5.09	121.65	118.60
1	6	977	A	C5-C6-N6	-5.09	119.63	123.70
68	o2	24	ARG	NE-CZ-NH1	-5.09	117.76	120.30
36	1	1467	A	N9-C4-C5	5.08	107.83	105.80
1	6	1091	A	C5-C6-N1	-5.08	115.16	117.70
36	5	1343	A	C2-N3-C4	-5.08	108.06	110.60
37	7	35	C	O5'-P-OP1	5.08	116.80	110.70
37	7	53	U	N1-C2-O2	-5.08	119.24	122.80
36	1	53	G	C5-C6-N1	5.08	114.04	111.50
36	1	118	U	C2-N3-C4	-5.08	123.95	127.00
36	1	709	A	C5-C6-N6	-5.08	119.63	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1319	G	N7-C8-N9	-5.08	110.56	113.10
36	1	1859	A	O5'-P-OP2	-5.08	101.12	105.70
36	1	2651	G	C6-C5-N7	5.08	133.45	130.40
36	5	1158	A	N1-C6-N6	5.08	121.65	118.60
36	5	2169	G	N1-C6-O6	-5.08	116.85	119.90
36	5	3366	G	N3-C4-C5	-5.08	126.06	128.60
38	8	6	U	C5-C4-O4	-5.08	122.85	125.90
68	o2	43	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	2	1144	U	O5'-P-OP1	-5.08	101.13	105.70
1	2	1602	C	N3-C4-C5	5.08	123.93	121.90
36	1	1831	U	C5-C4-O4	5.08	128.95	125.90
36	1	2651	G	N9-C4-C5	5.08	107.43	105.40
36	5	3012	A	OP2-P-O3'	5.08	116.38	105.20
36	1	434	U	N1-C2-O2	5.08	126.36	122.80
1	6	92	A	C8-N9-C4	5.08	107.83	105.80
1	6	1293	U	C5-C6-N1	-5.08	120.16	122.70
36	5	107	A	N1-C6-N6	-5.08	115.55	118.60
1	2	1745	G	C6-C5-N7	-5.08	127.35	130.40
36	1	60	A	N9-C4-C5	-5.08	103.77	105.80
36	1	1838	G	N3-C4-N9	5.08	129.05	126.00
38	4	51	G	C5-C6-O6	-5.08	125.55	128.60
36	5	1294	A	OP2-P-O3'	5.08	116.37	105.20
36	5	2968	G	N1-C6-O6	-5.08	116.85	119.90
36	1	111	C	C2-N3-C4	-5.08	117.36	119.90
36	1	2316	G	O5'-P-OP2	-5.08	101.13	105.70
6	s4	38	LEU	CA-CB-CG	5.08	126.98	115.30
36	5	873	C	P-O3'-C3'	5.08	125.79	119.70
41	l4	206	LEU	CA-CB-CG	5.08	126.98	115.30
36	1	1127	G	N3-C4-C5	5.08	131.14	128.60
36	1	3094	A	C5-C6-N1	5.08	120.24	117.70
1	6	305	C	C6-N1-C1'	5.08	126.89	120.80
36	5	389	A	N9-C4-C5	5.08	107.83	105.80
36	5	2860	U	C4-C5-C6	-5.08	116.66	119.70
36	1	286	U	N3-C2-O2	-5.07	118.65	122.20
36	1	779	G	N3-C4-N9	5.07	129.04	126.00
36	1	2747	A	N9-C4-C5	5.07	107.83	105.80
1	6	1509	C	N1-C2-O2	5.07	121.94	118.90
1	6	1681	A	O4'-C1'-N9	5.07	112.26	108.20
1	6	1751	C	C6-N1-C2	5.07	122.33	120.30
36	5	644	G	C5-N7-C8	5.07	106.84	104.30
36	5	674	G	C2-N3-C4	-5.07	109.36	111.90
36	5	2208	A	O4'-C1'-N9	5.07	112.26	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	626	U	OP1-P-O3'	5.07	116.36	105.20
36	5	2287	C	N3-C4-N4	-5.07	114.45	118.00
36	1	786	A	C5-N7-C8	5.07	106.44	103.90
38	4	23	U	C2-N3-C4	-5.07	123.96	127.00
38	4	28	C	C2-N1-C1'	5.07	124.38	118.80
36	5	644	G	N9-C4-C5	5.07	107.43	105.40
36	5	1207	G	C5-C6-N1	5.07	114.03	111.50
36	5	1368	U	C2-N3-C4	-5.07	123.96	127.00
36	5	1400	G	N3-C4-C5	-5.07	126.06	128.60
36	1	805	G	C6-N1-C2	-5.07	122.06	125.10
36	1	1136	A	C6-N1-C2	-5.07	115.56	118.60
1	2	1773	C	C2-N1-C1'	5.07	124.37	118.80
36	1	1000	C	N3-C4-C5	5.07	123.93	121.90
1	6	1781	A	C8-N9-C4	-5.07	103.77	105.80
36	5	291	C	N3-C4-N4	-5.07	114.45	118.00
36	5	2829	U	N3-C2-O2	-5.07	118.65	122.20
36	5	3309	G	N7-C8-N9	5.07	115.63	113.10
1	2	551	G	C5-N7-C8	-5.07	101.77	104.30
1	2	704	C	N3-C2-O2	-5.07	118.36	121.90
36	1	712	G	N7-C8-N9	-5.07	110.57	113.10
36	1	934	G	C6-C5-N7	-5.07	127.36	130.40
37	3	81	U	C6-N1-C1'	-5.07	114.11	121.20
1	6	782	U	N1-C2-O2	5.07	126.35	122.80
1	6	1000	C	C2-N3-C4	-5.07	117.37	119.90
1	2	6	G	N3-C4-C5	-5.06	126.07	128.60
1	2	1339	C	OP1-P-O3'	5.06	116.34	105.20
36	1	908	G	C8-N9-C1'	-5.06	120.42	127.00
36	1	1183	C	N3-C4-C5	5.06	123.93	121.90
45	L8	65	LEU	CA-CB-CG	5.06	126.95	115.30
1	6	1	U	N3-C2-O2	-5.06	118.66	122.20
1	6	1473	U	N1-C2-O2	5.06	126.34	122.80
1	2	1536	G	C4-N9-C1'	5.06	133.08	126.50
36	1	3302	U	C6-N1-C2	5.06	124.04	121.00
36	5	85	A	N1-C6-N6	5.06	121.64	118.60
36	5	682	U	C5-C6-N1	-5.06	120.17	122.70
36	5	952	A	C4-C5-N7	5.06	113.23	110.70
36	5	1047	A	N1-C6-N6	5.06	121.64	118.60
36	5	1284	C	P-O3'-C3'	5.06	125.78	119.70
36	5	2179	C	O5'-P-OP1	-5.06	101.14	105.70
36	5	2307	G	N3-C2-N2	5.06	123.44	119.90
1	2	98	U	C6-N1-C2	5.06	124.04	121.00
1	2	1399	C	C2-N1-C1'	5.06	124.37	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2369	G	C2-N3-C4	5.06	114.43	111.90
1	6	1164	G	N3-C4-N9	5.06	129.04	126.00
36	5	361	A	N9-C4-C5	5.06	107.82	105.80
36	5	648	C	C5-C4-N4	-5.06	116.66	120.20
36	1	42	C	O5'-P-OP2	5.06	116.77	110.70
36	1	1380	G	N3-C4-C5	5.06	131.13	128.60
36	1	2405	C	N3-C2-O2	-5.06	118.36	121.90
36	5	1239	C	C5-C6-N1	5.06	123.53	121.00
36	5	1319	G	N1-C2-N2	-5.06	111.65	116.20
36	5	2250	G	N1-C6-O6	-5.06	116.86	119.90
36	5	3218	A	C2-N3-C4	-5.06	108.07	110.60
37	7	71	G	OP2-P-O3'	5.06	116.33	105.20
38	8	132	G	N9-C4-C5	5.06	107.42	105.40
38	8	132	G	N1-C6-O6	-5.06	116.86	119.90
36	1	835	G	N9-C4-C5	-5.06	103.38	105.40
36	1	1163	A	O5'-P-OP2	-5.06	101.15	105.70
36	1	2759	U	N1-C2-N3	5.06	117.94	114.90
1	6	1755	A	C5-N7-C8	-5.06	101.37	103.90
36	5	911	C	N3-C4-N4	5.06	121.54	118.00
36	5	1786	G	C5-C6-O6	-5.06	125.56	128.60
36	5	2852	C	O5'-P-OP1	5.06	116.77	110.70
36	1	1409	G	N9-C4-C5	5.06	107.42	105.40
36	1	2964	G	C5-C6-O6	-5.06	125.57	128.60
36	5	2167	A	N9-C4-C5	5.06	107.82	105.80
1	2	15	U	C6-N1-C2	-5.05	117.97	121.00
1	2	30	G	N1-C6-O6	5.05	122.93	119.90
36	1	1346	G	O5'-P-OP2	-5.05	101.15	105.70
36	1	2182	A	O5'-P-OP1	-5.05	101.15	105.70
36	1	2403	G	N3-C4-N9	5.05	129.03	126.00
36	1	2794	G	N1-C6-O6	-5.05	116.87	119.90
1	6	639	U	O4'-C1'-N1	5.05	112.24	108.20
1	6	993	A	O5'-P-OP2	-5.05	101.15	105.70
1	6	1114	G	C5-C6-N1	5.05	114.03	111.50
1	6	1456	C	N3-C2-O2	-5.05	118.36	121.90
1	6	1673	G	N3-C4-C5	-5.05	126.07	128.60
36	5	2191	U	N3-C4-O4	-5.05	115.86	119.40
36	5	3095	U	N3-C4-C5	5.05	117.63	114.60
36	5	3333	G	N1-C6-O6	5.05	122.93	119.90
36	1	2752	U	C5-C6-N1	-5.05	120.17	122.70
36	5	528	U	N3-C2-O2	-5.05	118.66	122.20
36	5	2954	U	C5-C4-O4	-5.05	122.87	125.90
36	1	1444	G	C5-C6-O6	-5.05	125.57	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1520	G	C5-N7-C8	5.05	106.83	104.30
36	1	2305	G	N1-C6-O6	5.05	122.93	119.90
36	1	2698	G	OP1-P-OP2	5.05	127.18	119.60
1	6	17	C	N1-C2-O2	5.05	121.93	118.90
36	1	190	U	C5-C6-N1	-5.05	120.18	122.70
36	1	2144	A	C5-C6-N1	5.05	120.22	117.70
36	1	3078	U	N3-C2-O2	-5.05	118.67	122.20
1	6	142	G	C6-C5-N7	-5.05	127.37	130.40
36	5	2816	G	C2-N3-C4	5.05	114.42	111.90
36	1	54	C	C6-N1-C2	5.05	122.32	120.30
36	1	1131	G	OP1-P-OP2	5.05	127.17	119.60
36	1	2222	A	N1-C6-N6	-5.05	115.57	118.60
36	5	2877	G	N3-C2-N2	5.05	123.43	119.90
38	8	25	G	O5'-P-OP1	5.05	116.76	110.70
36	1	1349	G	N3-C2-N2	5.05	123.43	119.90
36	1	1855	U	N3-C2-O2	-5.05	118.67	122.20
36	1	2424	A	C4-C5-N7	5.05	113.22	110.70
36	1	2522	G	N7-C8-N9	5.05	115.62	113.10
36	1	2598	G	C2-N3-C4	5.05	114.42	111.90
36	1	2875	U	N3-C4-O4	5.05	122.93	119.40
36	1	2950	G	N7-C8-N9	5.05	115.62	113.10
36	1	3362	A	C8-N9-C4	-5.05	103.78	105.80
38	4	25	G	C5-C6-O6	5.05	131.63	128.60
36	5	1116	G	OP2-P-O3'	5.05	116.30	105.20
36	5	2364	G	N9-C4-C5	5.05	107.42	105.40
37	7	70	U	OP2-P-O3'	5.05	116.30	105.20
36	1	939	U	N3-C4-O4	5.04	122.93	119.40
36	1	1895	A	OP1-P-O3'	5.04	116.30	105.20
36	1	1911	A	N9-C4-C5	-5.04	103.78	105.80
36	5	112	U	O4'-C1'-N1	5.04	112.24	108.20
36	5	1399	A	N1-C6-N6	5.04	121.63	118.60
36	1	934	G	O5'-P-OP1	-5.04	101.16	105.70
36	1	1520	G	C2-N3-C4	5.04	114.42	111.90
36	5	295	A	C2-N3-C4	-5.04	108.08	110.60
36	5	1306	G	N3-C4-N9	5.04	129.03	126.00
36	5	1435	A	P-O3'-C3'	5.04	125.75	119.70
36	5	2257	C	P-O3'-C3'	5.04	125.75	119.70
36	1	90	C	N1-C2-O2	5.04	121.92	118.90
36	1	295	A	C8-N9-C4	-5.04	103.78	105.80
36	1	780	A	N1-C6-N6	-5.04	115.58	118.60
36	5	280	U	N3-C4-C5	5.04	117.62	114.60
36	5	1858	A	C8-N9-C4	-5.04	103.78	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2301	U	O5'-P-OP2	-5.04	101.16	105.70
1	6	1092	A	N9-C4-C5	-5.04	103.78	105.80
36	5	2297	U	O5'-P-OP2	-5.04	101.16	105.70
37	7	47	C	N3-C2-O2	-5.04	118.37	121.90
1	2	1291	G	N1-C6-O6	5.04	122.92	119.90
36	1	422	A	N1-C6-N6	-5.04	115.58	118.60
36	1	2349	U	C2-N1-C1'	5.04	123.75	117.70
36	1	2651	G	C4-C5-N7	-5.04	108.78	110.80
36	5	419	G	N3-C4-N9	5.04	129.02	126.00
36	5	1177	G	N3-C4-N9	-5.04	122.98	126.00
36	5	1902	G	C5-C6-N1	5.04	114.02	111.50
36	5	2296	A	C8-N9-C4	-5.04	103.78	105.80
36	5	2393	G	O5'-P-OP1	5.04	116.75	110.70
38	8	25	G	N3-C4-C5	-5.04	126.08	128.60
1	6	308	C	C6-N1-C1'	5.04	126.84	120.80
1	2	970	A	OP2-P-O3'	5.04	116.28	105.20
36	1	88	A	N1-C6-N6	5.04	121.62	118.60
36	1	2537	U	P-O3'-C3'	5.04	125.74	119.70
1	6	609	U	C4-C5-C6	5.04	122.72	119.70
36	5	692	A	N1-C2-N3	-5.04	126.78	129.30
36	1	227	G	N1-C6-O6	5.03	122.92	119.90
36	1	1145	G	C5-C6-N1	5.03	114.02	111.50
36	1	1407	A	N1-C2-N3	-5.03	126.78	129.30
36	1	2249	G	C5-C6-N1	5.03	114.02	111.50
36	1	2954	U	N3-C2-O2	5.03	125.72	122.20
36	1	3214	U	O5'-P-OP2	-5.03	101.17	105.70
1	6	331	A	OP1-P-O3'	5.03	116.28	105.20
1	6	1399	C	C5-C6-N1	5.03	123.52	121.00
1	6	1771	U	C2-N3-C4	-5.03	123.98	127.00
36	5	3010	U	N3-C2-O2	-5.03	118.68	122.20
36	1	990	U	C5-C4-O4	-5.03	122.88	125.90
36	1	3200	G	C4-C5-N7	-5.03	108.79	110.80
36	5	2608	G	OP2-P-O3'	5.03	116.27	105.20
36	1	1420	C	N3-C4-N4	-5.03	114.48	118.00
36	1	2916	U	C5-C4-O4	-5.03	122.88	125.90
36	1	3268	A	C2-N3-C4	-5.03	108.08	110.60
38	4	28	C	C6-N1-C1'	-5.03	114.76	120.80
1	6	163	G	C4-N9-C1'	-5.03	119.96	126.50
1	6	1187	U	N3-C2-O2	-5.03	118.68	122.20
36	5	2990	G	N3-C4-N9	5.03	129.02	126.00
61	n5	115	ARG	NE-CZ-NH1	5.03	122.81	120.30
36	1	2152	A	C5-C6-N6	5.03	127.72	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1421	G	N3-C4-N9	-5.03	122.98	126.00
36	1	681	U	N3-C2-O2	5.03	125.72	122.20
36	1	2818	U	C4-C5-C6	-5.03	116.68	119.70
36	1	3057	U	N1-C2-N3	5.03	117.92	114.90
1	6	403	G	N9-C4-C5	-5.03	103.39	105.40
36	5	1440	G	N1-C6-O6	-5.03	116.88	119.90
36	5	2288	G	C6-N1-C2	-5.03	122.08	125.10
36	5	2399	A	O5'-P-OP2	-5.03	101.17	105.70
36	5	2945	G	C8-N9-C4	5.03	108.41	106.40
1	2	736	C	C2-N1-C1'	5.03	124.33	118.80
36	1	2885	C	C5-C6-N1	-5.03	118.49	121.00
1	6	926	A	C8-N9-C4	5.03	107.81	105.80
1	2	1035	G	N1-C6-O6	-5.02	116.89	119.90
36	1	2957	G	N7-C8-N9	-5.02	110.59	113.10
36	1	57	A	C8-N9-C4	5.02	107.81	105.80
36	1	1507	G	C4-C5-N7	-5.02	108.79	110.80
36	1	1911	A	C4-C5-N7	5.02	113.21	110.70
1	6	96	G	C8-N9-C4	-5.02	104.39	106.40
1	2	1783	C	O5'-P-OP1	5.02	116.72	110.70
36	1	200	C	C6-N1-C1'	-5.02	114.78	120.80
36	1	2323	G	N1-C6-O6	-5.02	116.89	119.90
36	1	2799	A	C4-C5-C6	5.02	119.51	117.00
36	1	3047	U	N3-C2-O2	-5.02	118.69	122.20
38	4	30	C	OP1-P-OP2	5.02	127.13	119.60
43	L6	77	ARG	NE-CZ-NH2	-5.02	117.79	120.30
36	5	368	G	N3-C2-N2	-5.02	116.39	119.90
36	5	3197	G	N1-C6-O6	5.02	122.91	119.90
36	1	93	C	C6-N1-C2	-5.02	118.29	120.30
36	1	874	U	C4-C5-C6	-5.02	116.69	119.70
36	1	1048	A	C4-C5-C6	-5.02	114.49	117.00
36	1	1555	U	N1-C2-O2	-5.02	119.29	122.80
36	1	2953	U	N1-C2-N3	5.02	117.91	114.90
36	5	74	G	N1-C6-O6	-5.02	116.89	119.90
36	5	1174	G	OP2-P-O3'	5.02	116.24	105.20
36	5	1335	C	N1-C2-O2	-5.02	115.89	118.90
36	5	3172	A	C8-N9-C4	5.02	107.81	105.80
37	7	81	U	N1-C2-O2	5.02	126.31	122.80
36	1	280	U	N3-C4-O4	5.02	122.91	119.40
1	6	378	A	N1-C6-N6	5.02	121.61	118.60
1	6	1032	G	N7-C8-N9	-5.02	110.59	113.10
36	5	26	A	N7-C8-N9	-5.02	111.29	113.80
36	5	103	G	N3-C4-N9	-5.02	122.99	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3188	G	N1-C6-O6	-5.02	116.89	119.90
1	2	469	C	N1-C2-O2	-5.01	115.89	118.90
36	1	2309	A	C5-C6-N6	-5.01	119.69	123.70
39	L2	207	VAL	CB-CA-C	-5.01	101.87	111.40
1	6	454	U	O5'-P-OP2	-5.01	101.19	105.70
36	5	2179	C	C6-N1-C2	5.01	122.31	120.30
36	5	2383	C	N3-C4-C5	-5.01	119.89	121.90
36	5	2426	U	N1-C2-O2	5.01	126.31	122.80
36	5	3308	C	N1-C2-N3	5.01	122.71	119.20
36	1	2932	U	O5'-P-OP2	-5.01	101.19	105.70
36	5	1655	G	N1-C6-O6	5.01	122.91	119.90
1	2	1758	U	N3-C2-O2	-5.01	118.69	122.20
36	1	347	G	C2-N3-C4	5.01	114.41	111.90
36	1	896	A	C8-N9-C4	-5.01	103.80	105.80
36	1	944	C	C2-N3-C4	5.01	122.41	119.90
36	1	2865	U	N3-C4-C5	5.01	117.61	114.60
36	5	1604	G	C8-N9-C1'	-5.01	120.49	127.00
1	2	1291	G	C6-C5-N7	-5.01	127.39	130.40
1	2	1324	G	N3-C2-N2	-5.01	116.39	119.90
36	1	421	G	N3-C2-N2	5.01	123.41	119.90
36	1	1117	G	N1-C6-O6	5.01	122.91	119.90
36	1	1362	G	C8-N9-C4	5.01	108.40	106.40
36	5	641	C	O5'-P-OP1	-5.01	101.19	105.70
36	5	1478	C	N1-C2-O2	-5.01	115.89	118.90
36	5	1520	G	O5'-P-OP2	5.01	116.71	110.70
36	5	3102	G	N3-C4-N9	5.01	129.00	126.00
1	2	767	U	N3-C2-O2	-5.01	118.69	122.20
36	1	110	G	N9-C1'-C2'	-5.01	106.49	112.00
36	1	660	A	C2-N3-C4	5.01	113.10	110.60
36	1	1166	G	C5-C6-O6	-5.01	125.60	128.60
36	1	2797	C	C6-N1-C2	5.01	122.30	120.30
1	6	1436	A	C8-N9-C4	-5.01	103.80	105.80
36	5	1454	A	O5'-P-OP2	-5.01	101.19	105.70
36	5	1685	C	N3-C2-O2	-5.01	118.39	121.90
36	1	1336	U	N1-C2-N3	5.00	117.90	114.90
1	6	1034	C	N1-C2-O2	-5.00	115.90	118.90
1	2	1782	A	N1-C6-N6	-5.00	115.60	118.60
36	1	2189	U	N1-C2-N3	5.00	117.90	114.90
36	5	220	G	OP1-P-O3'	5.00	116.21	105.20
36	5	1412	G	C8-N9-C1'	5.00	133.50	127.00
36	5	2816	G	C4-C5-N7	-5.00	108.80	110.80
36	5	2968	G	C5-C6-O6	5.00	131.60	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	706	A	N3-C4-N9	-5.00	123.40	127.40
36	1	814	U	O5'-P-OP2	5.00	116.70	110.70
36	1	826	G	O5'-P-OP1	-5.00	101.20	105.70
36	1	2184	U	C5-C6-N1	5.00	125.20	122.70
36	1	3040	A	OP2-P-O3'	5.00	116.20	105.20
36	1	3309	G	C6-C5-N7	-5.00	127.40	130.40
1	6	1019	A	N7-C8-N9	-5.00	111.30	113.80
1	6	1789	G	C5-N7-C8	5.00	106.80	104.30
36	5	1121	U	N1-C2-O2	-5.00	119.30	122.80
36	5	1484	U	C6-N1-C2	5.00	124.00	121.00
36	5	1889	G	N3-C4-C5	-5.00	126.10	128.60
36	5	2800	G	N3-C4-C5	5.00	131.10	128.60
36	5	2905	U	N3-C4-O4	-5.00	115.90	119.40

There are no chirality outliers.

All (50) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
13	C1	88	ARG	Peptide
16	C4	123	SER	Peptide
16	C4	124	ASP	Peptide
19	C7	22	PRO	Peptide
19	C7	85	VAL	Peptide
27	D5	54	VAL	Peptide
27	D5	94	LYS	Peptide
27	D5	96	SER	Peptide
28	D6	84	VAL	Peptide
28	D6	85	ARG	Peptide
28	D6	97	PRO	Peptide
39	L2	19	HIS	Peptide
43	L6	89	THR	Peptide
44	L7	157	ASN	Peptide
52	M6	110	PRO	Peptide
53	M7	120	ASN	Peptide
64	N8	30	GLY	Peptide
64	N8	93	SER	Peptide
65	N9	19	ASN	Peptide
67	O1	5	LYS	Peptide
78	Q2	29	LYS	Peptide
9	S7	31	SER	Peptide
10	S8	79	ALA	Peptide
34	SR	160	GLU	Mainchain

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Mol	Chain	Res	Type	Group
34	SR	161	LYS	Mainchain
17	c5	52	LYS	Peptide
19	c7	96	SER	Peptide
20	c8	144	ARG	Peptide
22	d0	70	THR	Peptide
25	d3	44	GLY	Peptide
81	e1	146	SER	Peptide
39	l2	143	GLU	Peptide
39	l2	171	GLY	Peptide
42	l5	271	LYS	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
52	m6	110	PRO	Peptide
53	m7	66	SER	Peptide
56	n0	133	ALA	Peptide
59	n3	33	ASN	Peptide
62	n6	111	LEU	Peptide
64	n8	66	ALA	Peptide
65	n9	19	ASN	Peptide
67	o1	64	VAL	Peptide
75	o9	50	ASN	Peptide
2	s0	165	ARG	Peptide
3	s1	130	SER	Peptide
6	s4	77	ARG	Peptide
7	s5	99	MET	Peptide
9	s7	130	VAL	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	18757	754	1
1	6	38238	0	19241	711	0
2	S0	1577	0	1567	124	0
2	s0	1583	0	1578	0	0
3	S1	1709	0	1784	143	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	s1	1722	0	1793	0	0
4	S2	1635	0	1723	111	0
4	s2	1635	0	1723	0	0
5	S3	1734	0	1817	108	0
5	s3	1734	0	1817	0	0
6	S4	2068	0	2154	138	0
6	s4	2068	0	2154	0	0
7	S5	1609	0	1675	134	0
7	s5	1609	0	1675	0	0
8	S6	1799	0	1879	123	0
8	s6	1755	0	1846	0	0
9	S7	1481	0	1572	116	0
9	s7	1491	0	1578	0	0
10	S8	1489	0	1525	102	0
10	s8	1489	0	1525	0	0
11	S9	1494	0	1573	124	0
11	s9	1494	0	1573	0	0
12	C0	773	0	729	48	0
12	c0	762	0	699	0	0
13	C1	1214	0	1259	64	0
13	c1	1168	0	1231	0	0
14	C2	892	0	891	56	0
14	c2	892	0	891	0	0
15	C3	1192	0	1255	70	0
15	c3	1192	0	1255	0	0
16	C4	891	0	883	84	0
16	c4	949	0	985	0	0
17	C5	977	0	1002	66	0
17	c5	1039	0	1050	0	0
18	C6	1105	0	1166	70	0
18	c6	1111	0	1171	0	0
19	C7	926	0	930	64	0
19	c7	906	0	909	0	0
20	C8	1192	0	1222	84	0
20	c8	1192	0	1222	0	0
21	C9	1112	0	1124	90	0
21	c9	1112	0	1124	0	0
22	D0	855	0	917	79	0
22	d0	882	0	939	0	0
23	D1	684	0	672	55	0
23	d1	684	0	672	0	0
24	D2	1021	0	1060	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	d2	1021	0	1060	0	0
25	D3	1121	0	1196	68	0
25	d3	1121	0	1196	0	0
26	D4	1073	0	1132	70	0
26	d4	1073	0	1132	0	0
27	D5	563	0	603	56	0
27	d5	558	0	598	0	0
28	D6	769	0	814	77	0
28	d6	769	0	814	0	0
29	D7	610	0	631	34	0
29	d7	610	0	631	0	0
30	D8	497	0	535	45	0
30	d8	497	0	535	0	0
31	D9	442	0	428	29	0
31	d9	442	0	428	0	0
32	E0	475	0	525	22	0
33	E1	566	0	602	64	0
34	SR	2441	0	2395	134	1
34	sR	2442	0	2392	0	0
35	SM	1104	0	996	58	0
35	sM	680	0	607	0	0
36	1	67355	0	33847	1105	0
36	5	67376	0	33858	1049	1
37	3	2579	0	1304	38	0
37	7	2579	0	1304	37	0
38	4	3353	0	1695	56	1
38	8	3353	0	1695	56	0
39	L2	1914	0	1981	124	0
39	l2	1912	0	1976	0	0
40	L3	3075	0	3142	239	0
40	l3	3075	0	3142	0	0
41	L4	2748	0	2859	170	0
41	l4	2748	0	2859	0	0
42	L5	2375	0	2325	153	0
42	l5	2359	0	2311	0	0
43	L6	1239	0	1326	61	0
43	l6	1248	0	1339	0	0
44	L7	1784	0	1862	91	0
44	l7	1791	0	1869	0	0
45	L8	1804	0	1875	126	0
45	l8	1764	0	1821	0	0
46	L9	1518	0	1587	107	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	l9	1518	0	1587	0	0
47	M0	1705	0	1736	112	0
47	m0	1722	0	1755	0	0
48	M1	1353	0	1383	87	0
48	m1	1353	0	1383	0	0
49	M3	1543	0	1608	111	0
49	m3	1548	0	1613	0	0
50	M4	1053	0	1149	58	0
50	m4	1059	0	1154	0	0
51	M5	1720	0	1779	104	0
51	m5	1720	0	1779	0	0
52	M6	1555	0	1659	97	0
52	m6	1555	0	1659	0	0
53	M7	1420	0	1437	87	0
53	m7	1227	0	1236	0	0
54	M8	1441	0	1543	88	0
54	m8	1441	0	1543	0	0
55	M9	1521	0	1617	73	0
55	m9	1521	0	1617	0	0
56	N0	1445	0	1487	82	0
56	n0	1445	0	1487	0	0
57	N1	1276	0	1323	68	0
57	n1	1276	0	1323	0	0
58	N2	796	0	812	35	0
58	n2	778	0	791	0	0
59	N3	1003	0	1048	58	0
59	n3	1003	0	1048	0	0
60	N4	699	0	640	20	0
60	n4	1038	0	1071	0	0
61	N5	964	0	1025	48	0
61	n5	959	0	1023	0	0
62	N6	993	0	1081	59	0
62	n6	993	0	1081	0	0
63	N7	1092	0	1155	79	0
63	n7	1092	0	1155	0	0
64	N8	1173	0	1215	103	0
64	n8	1173	0	1215	0	0
65	N9	462	0	491	30	0
65	n9	462	0	491	0	0
66	O0	743	0	797	48	0
66	o0	767	0	816	0	0
67	O1	876	0	912	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
67	o1	883	0	918	0	0
68	O2	1020	0	1090	51	0
68	o2	1020	0	1090	0	0
69	O3	850	0	880	41	0
69	o3	850	0	880	0	0
70	O4	880	0	945	45	0
70	o4	880	0	945	0	0
71	O5	969	0	1078	64	0
71	o5	965	0	1067	0	0
72	O6	771	0	849	50	0
72	o6	770	0	846	0	0
73	O7	681	0	683	50	0
73	o7	681	0	683	0	0
74	O8	612	0	682	32	0
74	o8	608	0	671	0	0
75	O9	436	0	475	36	0
75	o9	436	0	475	0	0
76	Q0	417	0	455	20	0
76	q0	417	0	455	0	0
77	Q1	233	0	284	22	0
77	q1	233	0	284	0	0
78	Q2	847	0	916	45	0
78	q2	847	0	916	0	0
79	Q3	694	0	734	49	0
79	q3	694	0	734	0	0
80	e0	491	0	542	0	0
81	e1	608	0	654	0	0
82	m2	750	0	176	0	0
83	p0	1077	0	1041	0	0
84	p1	235	0	51	0	0
85	p2	230	0	52	0	0
86	1	471	0	0	0	0
86	2	122	0	0	0	0
86	3	14	0	0	0	0
86	4	22	0	0	0	0
86	5	505	0	0	0	0
86	6	147	0	0	0	0
86	7	15	0	0	0	0
86	8	13	0	0	0	0
86	C3	1	0	0	0	0
86	D0	1	0	0	0	0
86	D3	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	L2	1	0	0	0	0
86	L3	3	0	0	0	0
86	L4	1	0	0	0	0
86	L5	1	0	0	0	0
86	L7	3	0	0	0	0
86	L8	1	0	0	0	0
86	M0	2	0	0	0	0
86	M1	1	0	0	0	0
86	M3	4	0	0	0	0
86	M5	2	0	0	0	0
86	M6	1	0	0	0	0
86	M7	6	0	0	0	0
86	M9	1	0	0	0	0
86	N0	1	0	0	0	0
86	N3	3	0	0	0	0
86	N5	1	0	0	0	0
86	N8	4	0	0	0	0
86	O1	1	0	0	0	0
86	O3	1	0	0	0	0
86	O4	2	0	0	0	0
86	O7	1	0	0	0	0
86	Q2	1	0	0	0	0
86	S2	1	0	0	0	0
86	S4	1	0	0	0	0
86	S8	1	0	0	0	0
86	SM	1	0	0	0	0
86	c1	1	0	0	0	0
86	c4	1	0	0	0	0
86	c7	2	0	0	0	0
86	c8	2	0	0	0	0
86	d3	1	0	0	0	0
86	d4	1	0	0	0	0
86	d6	1	0	0	0	0
86	l2	2	0	0	0	0
86	l3	1	0	0	0	0
86	l4	2	0	0	0	0
86	l5	2	0	0	0	0
86	l7	1	0	0	0	0
86	l8	1	0	0	0	0
86	m1	2	0	0	0	0
86	m5	2	0	0	0	0
86	m6	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	m7	4	0	0	0	0
86	n0	2	0	0	0	0
86	n3	2	0	0	0	0
86	n6	2	0	0	0	0
86	n8	3	0	0	0	0
86	o1	2	0	0	0	0
86	o3	1	0	0	0	0
86	o4	2	0	0	0	0
86	o7	1	0	0	0	0
86	q0	1	0	0	0	0
86	q3	2	0	0	0	0
86	s1	1	0	0	0	0
86	s6	1	0	0	0	0
86	s8	1	0	0	0	0
86	sM	2	0	0	0	0
87	1	2457	0	0	251	0
87	2	1106	0	0	121	0
87	3	77	0	0	6	0
87	4	98	0	0	8	0
87	5	2464	0	0	245	0
87	6	1113	0	0	103	0
87	7	91	0	0	11	0
87	8	112	0	0	19	0
87	C3	7	0	0	0	0
87	C5	7	0	0	6	0
87	C8	7	0	0	1	0
87	D3	7	0	0	0	0
87	D9	7	0	0	4	0
87	L3	21	0	0	1	0
87	L4	7	0	0	2	0
87	M0	7	0	0	0	0
87	M5	7	0	0	0	0
87	M7	14	0	0	2	0
87	M9	7	0	0	1	0
87	N1	7	0	0	0	0
87	N9	7	0	0	0	0
87	O2	7	0	0	0	0
87	O3	7	0	0	1	0
87	O7	14	0	0	6	0
87	O9	7	0	0	4	0
87	Q2	7	0	0	2	0
87	S8	7	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	SR	7	0	0	0	0
87	c1	7	0	0	0	0
87	c3	7	0	0	0	0
87	c5	7	0	0	0	0
87	c8	7	0	0	0	0
87	d4	7	0	0	0	0
87	d9	7	0	0	0	0
87	l3	21	0	0	0	0
87	l4	14	0	0	0	0
87	l5	21	0	0	0	0
87	l9	7	0	0	0	0
87	m0	14	0	0	0	0
87	m1	7	0	0	0	0
87	m4	7	0	0	0	0
87	m5	7	0	0	0	0
87	m6	7	0	0	0	0
87	m7	7	0	0	0	0
87	m8	7	0	0	0	0
87	n3	7	0	0	0	0
87	n9	7	0	0	0	0
87	o2	7	0	0	0	0
87	o3	7	0	0	0	0
87	o7	7	0	0	0	0
87	o9	7	0	0	0	0
87	q2	7	0	0	0	0
87	s1	7	0	0	0	0
87	s4	7	0	0	0	0
87	s8	7	0	0	0	0
87	s9	7	0	0	0	0
87	sR	7	0	0	0	0
88	D6	1	0	0	0	0
88	D7	1	0	0	0	0
88	D9	1	0	0	0	0
88	E1	1	0	0	0	0
88	O7	1	0	0	0	0
88	Q0	1	0	0	0	0
88	Q2	1	0	0	0	0
88	Q3	1	0	0	0	0
88	d6	1	0	0	0	0
88	d7	1	0	0	0	0
88	d9	1	0	0	0	0
88	e1	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
88	o7	1	0	0	0	0
88	q0	1	0	0	0	0
88	q2	1	0	0	0	0
88	q3	1	0	0	0	0
89	1	20	0	0	0	0
89	5	20	0	0	0	0
All	All	411205	0	297289	8429	2

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 12.

All (8429) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:M6:66:LYS:NZ	52:M6:66:LYS:CE	1.49	1.52
78:Q2:17:CYS:CB	78:Q2:17:CYS:SG	2.09	1.45
36:1:1481:A:O2'	36:1:1858:A:N3	1.85	1.07
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.52	1.03
40:L3:296:THR:HG22	40:L3:298:PHE:H	1.44	0.99
36:1:3182:G:OP1	52:M6:160:ARG:NH2	1.95	0.99
36:5:3274:A:H3'	36:5:3275:U:H5''	1.46	0.97
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.46	0.96
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	2.28	0.96
36:1:3343:G:H21	36:1:3362:A:H2	1.11	0.96
6:S4:49:ARG:NH1	1:6:448:C:OP2	380.14	0.95
1:2:142:G:H22	1:2:173:A:H2	1.13	0.94
44:L7:217:PRO:O	87:5:4003:OHX:N3	260.58	0.94
70:O4:8:ARG:HH11	70:O4:8:ARG:HG2	1.31	0.94
79:Q3:73:THR:HG22	79:Q3:76:ALA:H	1.33	0.93
1:2:1203:A:OP2	87:2:2110:OHX:N5	2.01	0.93
1:6:1588:G:H1	1:6:1608:U:H3	1.10	0.92
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.39	0.92
70:O4:74:ARG:NH2	36:5:1639:C:OP2	200.44	0.92
36:1:979:U:H1'	36:1:980:A:C8	2.06	0.91
36:1:1493:G:O6	75:O9:2:ALA:N	2.03	0.91
1:6:1492:A:HO2'	1:6:1493:A:H8	0.96	0.91
1:6:1010:C:OP2	87:6:2172:OHX:N3	2.03	0.91
1:6:1011:G:OP2	87:6:2122:OHX:N3	2.04	0.91
40:L3:37:ARG:HG2	40:L3:187:SER:H	4.04	0.91
4:S2:140:ARG:NH1	23:D1:1:MET:SD	2.43	0.91
36:1:2875:U:H3	36:1:2952:G:H1	1.19	0.90
51:M5:188:ARG:NH2	36:5:31:C:OP2	122.04	0.90
1:2:1254:U:OP2	14:C2:46:ARG:NH2	2.05	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2273:G:O6	87:5:4198:OHX:N5	2.04	0.90
10:S8:34:ALA:HB2	10:S8:56:ARG:HD3	2.73	0.90
25:D3:64:PRO:O	87:6:2160:OHX:N2	361.38	0.90
75:O9:2:ALA:N	36:5:1493:G:O6	120.48	0.90
36:1:2227:C:OP1	78:Q2:32:LYS:NZ	2.05	0.89
62:N6:112:ASP:HB3	62:N6:115:ARG:HB2	3.69	0.89
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.54	0.89
36:5:3343:G:H21	36:5:3362:A:H2	1.19	0.89
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.04	0.89
11:S9:59:LEU:HD22	11:S9:69:ARG:HA	2.12	0.89
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.16	0.89
11:S9:126:ARG:NH1	1:6:475:A:OP2	423.87	0.89
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.07	0.88
36:1:1790:G:O6	87:1:4168:OHX:N4	2.06	0.88
19:C7:77:GLU:HG2	19:C7:80:ARG:HH21	7.25	0.88
25:D3:23:ARG:HH11	25:D3:23:ARG:HG3	1.38	0.88
50:M4:128:ARG:NH2	36:5:3214:U:OP2	281.44	0.88
36:5:2875:U:H3	36:5:2952:G:H1	1.21	0.88
1:2:1572:G:H1'	7:S5:185:ARG:HH12	1.38	0.88
36:1:2940:A:N7	40:L3:2:SER:N	2.22	0.88
51:M5:183:THR:HG22	51:M5:187:ARG:HB2	1.57	0.87
36:1:3344:A:H2	36:1:3361:G:H21	1.20	0.87
8:S6:163:THR:HG22	8:S6:168:THR:HG22	1.56	0.87
1:2:1202:A:OP1	87:2:2110:OHX:N1	2.07	0.87
40:L3:139:GLN:O	40:L3:141:GLY:N	2.07	0.87
52:M6:160:ARG:NH2	36:5:3182:G:OP1	280.81	0.87
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.10	0.87
26:D4:29:HIS:HB3	26:D4:32:ARG:HB2	4.51	0.87
36:1:2836:C:H5	36:1:2852:C:H42	1.20	0.87
36:5:2258:U:OP2	87:5:3949:OHX:N4	2.07	0.87
36:5:2836:C:H5	36:5:2852:C:H42	1.20	0.86
28:D6:87:ARG:NH1	1:6:1796:C:OP1	345.31	0.86
1:2:1339:C:O2'	1:2:1341:A:N7	2.08	0.86
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.89	0.86
64:N8:21:ARG:NH2	36:5:640:U:OP1	182.34	0.86
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.98	0.86
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.08	0.86
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.08	0.86
21:C9:33:TYR:O	21:C9:35:ASP:N	3.37	0.86
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.09	0.86
36:5:1239:C:H42	36:5:1249:G:H1	1.19	0.86
36:1:2356:A:H61	36:1:2983:C:H5	1.24	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:M4:132:LYS:HD3	36:5:3230:G:H4'	287.72	0.86
36:5:2620:G:O6	87:5:4242:OHX:N4	2.08	0.86
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.56	0.86
36:5:835:G:O2'	36:5:857:G:N2	2.08	0.86
1:2:820:U:H2'	1:2:821:U:H4'	1.56	0.86
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.55	0.85
21:C9:57:ARG:HH11	21:C9:57:ARG:HG3	1.48	0.85
2:S0:9:LEU:HD11	2:S0:14:ALA:HB2	2.55	0.85
52:M6:110:PRO:O	52:M6:112:TYR:N	3.35	0.85
1:2:237:C:H5''	1:2:238:U:H5'	1.59	0.85
1:6:1385:G:N7	87:6:2123:OHX:N6	2.25	0.85
36:1:1233:G:H1	36:1:1255:C:H42	1.22	0.85
56:N0:90:MET:HG3	36:5:1213:G:H4'	318.52	0.85
21:C9:105:LEU:HD13	21:C9:122:ARG:HD3	2.49	0.85
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.59	0.85
54:M8:157:PRO:HD3	64:N8:47:LYS:HB2	2.32	0.84
36:1:1507:G:N7	53:M7:129:THR:HG22	1.92	0.84
36:1:1814:A:H4'	36:1:1815:U:H5'	1.58	0.84
10:S8:50:GLY:HA2	1:6:397:A:O3'	315.80	0.84
36:1:439:C:H3'	36:1:440:A:C8	2.12	0.84
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.59	0.84
17:C5:43:ARG:NH2	1:6:1552:U:OP2	404.30	0.84
36:5:2233:A:OP2	87:5:3963:OHX:N5	2.09	0.84
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.58	0.84
36:5:272:G:OP2	87:5:4075:OHX:N6	2.11	0.84
36:5:2255:A:H5'	36:5:2261:G:H22	1.40	0.84
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	1.60	0.84
36:1:317:A:OP2	72:O6:30:LYS:NZ	2.11	0.84
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.59	0.84
16:C4:38:THR:HG21	1:6:895:G:H21	264.72	0.84
1:2:1385:G:N7	87:2:2131:OHX:N3	2.26	0.84
36:1:368:G:OP1	87:1:3882:OHX:N1	2.10	0.84
19:C7:27:ASP:O	19:C7:31:ASN:ND2	3.54	0.83
47:M0:76:MET:HE1	47:M0:148:VAL:HA	3.48	0.83
65:N9:50:THR:HG22	36:5:1073:U:H1'	206.59	0.83
43:L6:78:ARG:NH1	36:5:3272:C:OP2	247.91	0.83
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.70	0.83
1:6:471:A:OP2	87:6:2104:OHX:N5	2.10	0.83
36:5:2513:U:HO2'	36:5:2592:G:H1	1.22	0.83
1:2:991:G:OP2	87:2:2130:OHX:N1	2.10	0.83
36:5:437:G:H22	36:5:622:A:H61	1.25	0.83
34:SR:184:ASN:HD22	34:SR:185:GLN:H	5.52	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:M4:19:ARG:HA	50:M4:69:THR:HG22	2.62	0.83
36:1:2960:C:OP1	87:1:4001:OHX:N4	2.11	0.83
1:6:151:G:H1	1:6:163:G:H1	1.27	0.83
36:1:1230:G:H1	36:1:1279:C:H42	1.24	0.83
21:C9:57:ARG:NH1	1:6:1479:A:OP1	393.31	0.83
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.59	0.83
49:M3:93:ILE:HG22	49:M3:94:GLY:H	4.56	0.83
60:N4:23:ARG:NH2	60:N4:25:ASP:OD1	3.13	0.83
36:5:3194:C:O2	36:5:3197:G:N2	2.12	0.83
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.59	0.83
36:1:300:G:O6	87:1:4150:OHX:N1	2.12	0.82
42:L5:40:HIS:HD2	42:L5:42:ALA:H	1.26	0.82
34:SR:170:ILE:HG21	34:SR:211:ILE:HD11	1.58	0.82
36:5:1565:G:N1	36:5:1574:C:N3	2.28	0.82
1:6:1681:A:H2	1:6:1720:G:H21	1.27	0.82
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.12	0.82
36:1:1591:G:OP1	70:O4:16:ARG:NH1	2.12	0.82
9:S7:122:HIS:HA	9:S7:125:ILE:HD12	2.24	0.82
33:E1:134:ASN:H	1:6:1251:U:H4'	443.61	0.82
37:3:17:A:OP1	42:L5:2:ALA:N	2.12	0.82
1:2:741:C:O2	9:S7:107:ARG:NH1	2.12	0.82
36:1:3276:G:N7	53:M7:171:ARG:NH1	2.27	0.82
19:C7:8:THR:HG21	1:6:1330:G:H21	419.93	0.82
1:6:755:A:O2'	1:6:756:A:O4'	1.97	0.82
22:D0:74:GLU:HG2	1:6:1429:G:H1'	378.68	0.82
64:N8:3:SER:O	64:N8:6:THR:HB	2.41	0.82
1:2:740:A:H2'	1:2:741:C:H5''	1.62	0.82
1:2:1508:U:O4	87:2:2030:OHX:N5	2.12	0.82
46:L9:75:VAL:HA	46:L9:78:MET:HE2	1.61	0.82
73:O7:87:SER:O	87:O7:103:OHX:N3	2.13	0.82
36:5:3153:U:H4'	36:5:3154:C:H5'	1.62	0.82
24:D2:2:THR:N	1:6:1034:C:HO2'	339.05	0.82
37:3:49:G:N7	42:L5:58:LYS:HG3	1.95	0.82
36:1:3259:U:H6	36:1:3259:U:H5'	1.44	0.81
50:M4:113:THR:HG22	50:M4:116:GLU:H	2.04	0.81
36:1:2794:G:N7	87:1:3932:OHX:N2	2.27	0.81
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.61	0.81
36:1:1064:A:N6	36:1:1096:U:O4	2.13	0.81
1:2:569:C:H41	25:D3:69:ARG:HH12	1.28	0.81
7:S5:216:GLU:OE2	7:S5:219:ARG:NH2	2.14	0.81
15:C3:114:ARG:HH11	15:C3:114:ARG:HG2	1.46	0.81
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.12	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:L2:224:THR:HG21	36:5:2201:G:H21	222.87	0.81
36:1:1196:C:O2	87:1:3993:OHX:N2	2.13	0.81
41:L4:329:PRO:O	41:L4:331:ALA:N	3.40	0.81
39:L2:116:VAL:HG13	39:L2:126:LEU:HB2	2.54	0.81
1:2:702:G:O6	1:2:736:C:N4	2.14	0.81
45:L8:78:PHE:O	45:L8:80:TYR:N	2.13	0.81
25:D3:130:VAL:O	25:D3:131:SER:HB3	1.94	0.81
41:L4:197:ARG:NH1	36:5:1381:A:OP1	109.73	0.81
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.14	0.81
51:M5:49:ARG:NH2	36:5:115:A:OP1	101.37	0.81
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.45	0.81
73:O7:72:ARG:NH1	38:8:95:G:OP2	52.67	0.81
36:1:2123:G:N7	87:1:4199:OHX:N2	2.29	0.80
44:L7:163:LEU:O	44:L7:165:ASP:N	2.14	0.80
71:O5:85:THR:HG22	71:O5:88:LEU:H	1.47	0.80
17:C5:65:LEU:O	87:C5:201:OHX:N2	4.58	0.80
1:2:1595:U:H3	1:2:1600:A:H2	1.30	0.80
1:2:732:G:O6	87:2:2128:OHX:N5	2.15	0.80
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.73	0.80
1:2:1291:G:H8	1:2:1291:G:O5'	1.65	0.80
53:M7:62:ARG:O	87:M7:207:OHX:N1	2.14	0.80
47:M0:3:ARG:NH2	36:5:2854:U:OP2	291.75	0.80
78:Q2:41:ARG:NH1	36:5:284:A:OP2	157.32	0.80
45:L8:81:THR:OG1	45:L8:82:LEU:N	2.65	0.80
36:5:368:G:OP1	87:5:3925:OHX:N4	2.15	0.80
36:5:2975:U:OP1	87:5:4089:OHX:N3	2.14	0.80
40:L3:4:ARG:HG3	40:L3:4:ARG:HH11	3.52	0.80
72:O6:28:TYR:O	87:5:4189:OHX:N2	104.42	0.80
41:L4:145:ILE:HD11	41:L4:148:ILE:HG13	1.63	0.80
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.15	0.80
36:5:3280:U:O2'	36:5:3281:U:H5''	1.82	0.80
78:Q2:12:CYS:SG	78:Q2:17:CYS:HB2	2.83	0.79
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.15	0.79
1:2:895:G:H1	1:2:917:U:H3	1.28	0.79
73:O7:65:ARG:HG3	73:O7:65:ARG:HH11	1.47	0.79
44:L7:134:VAL:O	44:L7:229:PHE:HA	2.87	0.79
21:C9:68:ARG:NH1	1:6:1521:G:O6	414.61	0.79
39:L2:68:LYS:HD3	39:L2:70:ARG:HH21	3.91	0.79
36:1:662:U:OP1	64:N8:8:THR:HG21	1.82	0.79
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.16	0.79
1:2:1588:G:H1	1:2:1608:U:H3	1.28	0.79
36:1:2310:U:OP1	87:1:4139:OHX:N1	2.15	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2818:U:H6	36:5:2818:U:H5'	1.48	0.79
31:D9:19:ARG:NH2	1:6:1597:A:OP1	408.05	0.79
33:E1:97:LYS:NZ	1:6:1253:U:O4	440.99	0.79
56:N0:13:ARG:NH1	37:7:73:C:O2	307.01	0.79
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.16	0.79
41:L4:269:SER:O	41:L4:271:LYS:N	2.13	0.79
1:2:1291:G:N2	1:2:1324:G:H22	1.81	0.79
39:L2:204:MET:HG2	36:5:914:A:C2	196.23	0.79
4:S2:168:ARG:NE	1:6:1098:U:OP2	384.74	0.79
1:2:818:C:N4	1:2:819:G:O6	2.15	0.79
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.30	0.79
1:6:895:G:H1	1:6:917:U:H3	1.28	0.79
26:D4:20:ARG:HE	26:D4:22:GLN:HE21	5.31	0.79
69:O3:48:ARG:HH11	69:O3:48:ARG:HG2	1.46	0.79
77:Q1:9:ARG:HG3	77:Q1:9:ARG:HH11	1.47	0.79
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.16	0.79
25:D3:97:ASP:O	25:D3:100:ASP:HB2	2.13	0.78
36:1:1613:A:OP2	74:O8:46:ARG:NH2	2.16	0.78
41:L4:143:GLU:O	87:L4:402:OHX:N2	2.16	0.78
9:S7:67:LEU:HG	9:S7:94:ALA:HB2	2.05	0.78
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.66	0.78
32:E0:59:GLY:O	32:E0:61:SER:N	3.21	0.78
36:1:2924:U:O4	87:1:4017:OHX:N1	2.15	0.78
1:2:1542:G:N2	1:2:1569:A:OP2	2.15	0.78
16:C4:50:ALA:O	16:C4:52:ARG:N	2.28	0.78
4:S2:137:ILE:HG12	4:S2:138:PRO:HD2	1.65	0.78
15:C3:65:VAL:HG23	15:C3:66:ILE:HG23	6.36	0.78
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.66	0.78
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.64	0.78
36:5:2248:C:OP2	87:5:3979:OHX:N6	2.16	0.78
75:O9:23:LEU:HD22	75:O9:24:PRO:HD2	1.66	0.78
36:5:2971:A:N3	36:5:2971:A:H3'	1.99	0.78
44:L7:216:VAL:HG11	44:L7:227:GLY:HA3	4.31	0.78
36:1:2860:U:H6	36:1:2860:U:H5'	1.47	0.78
6:S4:9:LEU:HB2	6:S4:30:ARG:HB2	1.95	0.78
36:1:364:G:OP1	41:L4:60:THR:HG23	1.84	0.78
36:5:658:G:OP1	87:5:4092:OHX:N5	2.17	0.78
1:6:990:C:OP2	87:6:2122:OHX:N2	2.17	0.78
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.17	0.78
3:S1:181:LEU:O	3:S1:185:THR:N	2.14	0.78
24:D2:15:ASN:HD21	24:D2:71:LYS:HA	1.49	0.78
34:SR:161:LYS:O	34:SR:161:LYS:HG2	1.82	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:S1:154:SER:OG	3:S1:154:SER:O	2.01	0.78
36:1:3375:A:O2'	36:1:3378:C:OP2	2.02	0.77
36:1:2818:U:H6	36:1:2818:U:H5'	1.47	0.77
49:M3:50:PRO:O	49:M3:52:ASP:N	3.44	0.77
25:D3:73:ARG:HH21	25:D3:84:THR:HG22	1.48	0.77
1:6:868:G:H1	1:6:960:U:H3	1.30	0.77
40:L3:346:THR:O	40:L3:348:ARG:N	2.15	0.77
1:2:9:U:O4	87:2:2154:OHX:N6	2.17	0.77
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	2.09	0.77
36:1:1740:U:H1'	36:1:1741:A:H2	1.47	0.77
74:O8:46:ARG:NH2	36:5:1613:A:OP2	131.17	0.77
11:S9:3:ARG:H	11:S9:3:ARG:HD3	2.76	0.77
10:S8:138:ASN:HA	10:S8:141:ARG:HD3	4.68	0.77
61:N5:115:ARG:HH11	61:N5:115:ARG:HG3	1.87	0.77
36:5:979:U:H1'	36:5:980:A:C4	2.18	0.77
13:C1:139:VAL:O	13:C1:140:VAL:HB	1.83	0.77
71:O5:76:GLN:O	71:O5:81:ARG:NH1	2.46	0.77
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.49	0.77
2:S0:56:LYS:HE3	2:S0:158:VAL:HG23	4.23	0.77
72:O6:4:LYS:HD2	72:O6:14:GLY:HA3	2.66	0.77
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH2	2.18	0.77
39:L2:207:VAL:HG21	36:5:916:G:C6	187.37	0.77
36:1:807:A:H61	36:1:934:G:H22	1.30	0.77
1:2:1726:G:N7	87:2:2098:OHX:N4	2.33	0.77
36:5:2996:U:OP1	36:5:2996:U:H4'	1.84	0.77
1:2:823:G:H2'	1:2:824:G:H8	1.50	0.77
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.17	0.77
4:S2:147:ASN:HB3	23:D1:4:ASP:HA	1.67	0.77
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.51	0.77
42:L5:34:LYS:O	42:L5:38:THR:HG23	1.85	0.77
22:D0:105:GLN:HA	22:D0:108:ILE:HD13	6.96	0.77
67:O1:75:ILE:HG12	67:O1:93:VAL:HG13	2.69	0.77
1:2:565:C:O2	87:2:2038:OHX:N5	2.18	0.76
10:S8:36:THR:HB	10:S8:57:ALA:O	1.85	0.76
1:2:1745:G:O6	87:2:2085:OHX:N6	2.18	0.76
71:O5:101:THR:HG22	71:O5:104:GLN:H	1.61	0.76
9:S7:117:THR:HG22	9:S7:120:ALA:H	2.33	0.76
26:D4:14:SER:OG	1:6:783:G:OP2	417.68	0.76
36:1:2120:A:OP2	87:1:4008:OHX:N2	2.18	0.76
78:Q2:50:PHE:O	87:Q2:503:OHX:N2	2.17	0.76
36:1:1898:G:OP2	87:1:3929:OHX:N4	2.18	0.76
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.17	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:L9:22:SER:OG	46:L9:23:ARG:N	2.18	0.76
2:S0:13:ASP:OD1	2:S0:179:ARG:NH2	2.63	0.76
1:6:1726:G:N7	87:6:2148:OHX:N5	2.33	0.76
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.60	0.76
53:M7:25:SER:O	53:M7:29:THR:HG23	1.92	0.76
36:1:830:A:OP1	87:1:4010:OHX:N4	2.18	0.76
53:M7:108:ASP:N	53:M7:152:GLU:OE2	2.87	0.76
1:2:1796:C:H5	28:D6:6:ALA:H	1.33	0.76
74:O8:2:ALA:N	36:5:1613:A:OP1	139.01	0.76
36:5:3049:A:H8	36:5:3049:A:H5'	1.49	0.76
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.18	0.76
36:1:2107:A:H2	36:1:3344:A:H8	1.30	0.76
47:M0:76:MET:HE3	47:M0:148:VAL:HG13	1.66	0.76
36:1:2443:A:N6	36:1:2504:U:O4	2.18	0.76
1:2:190:C:N4	1:2:196:G:O6	2.18	0.76
4:S2:65:GLU:HB2	4:S2:68:ILE:HD12	1.67	0.76
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.66	0.76
11:S9:149:ARG:HG3	1:6:765:G:O6	432.67	0.76
69:O3:75:HIS:HB3	69:O3:80:VAL:HG12	1.68	0.76
51:M5:14:LYS:HE2	36:5:269:G:H5''	132.69	0.76
36:5:510:G:O6	87:5:4024:OHX:N2	2.18	0.76
36:1:2402:A:OP2	87:1:4088:OHX:N6	2.17	0.76
1:2:1290:U:H2'	1:2:1291:G:C8	2.21	0.76
49:M3:128:ARG:NH1	71:O5:109:ILE:O	2.85	0.76
72:O6:97:SER:O	72:O6:99:ARG:N	2.19	0.76
36:5:1541:G:OP2	87:5:4093:OHX:N4	2.19	0.76
36:5:1772:U:H5''	36:5:1773:C:H5'	1.67	0.76
36:5:1806:A:OP2	87:5:4025:OHX:N5	2.19	0.75
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.68	0.75
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.67	0.75
36:5:2123:G:N7	87:5:4099:OHX:N1	2.34	0.75
20:C8:143:ARG:NH2	1:6:1462:G:N7	339.26	0.75
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.19	0.75
1:2:1010:C:OP2	87:2:2130:OHX:N6	2.19	0.75
40:L3:25:ILE:H	40:L3:25:ILE:HD13	1.51	0.75
42:L5:233:ALA:O	42:L5:235:SER:N	2.19	0.75
36:1:1940:G:H21	36:1:3362:A:H8	1.33	0.75
29:D7:37:CYS:O	29:D7:39:GLY:N	2.35	0.75
41:L4:138:ARG:HH21	41:L4:240:PRO:HB2	2.42	0.75
76:Q0:77:ILE:HG22	76:Q0:78:ILE:H	1.52	0.75
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.71	0.75
1:2:862:A:N7	15:C3:64:ARG:NH2	2.34	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:L7:158:LYS:HE2	44:L7:159:GLN:H	1.51	0.75
41:L4:192:GLY:HA2	41:L4:195:ARG:HG3	3.70	0.75
35:SM:26:VAL:HG11	48:M1:49:LYS:HE3	2.21	0.75
73:O7:62:GLY:O	87:O7:103:OHX:N3	35.14	0.75
36:5:1345:G:N7	87:5:4067:OHX:N5	2.35	0.75
1:6:542:A:H8	1:6:543:C:H5'	1.52	0.75
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	1.99	0.75
3:S1:175:GLU:HG2	3:S1:193:ILE:HD11	4.54	0.75
36:1:12:A:OP1	87:1:4204:OHX:N6	2.20	0.75
69:O3:60:ARG:HH21	69:O3:60:ARG:HB2	1.52	0.75
73:O7:25:ARG:HB3	73:O7:25:ARG:HH11	3.69	0.75
36:1:155:G:H1'	72:O6:26:ILE:HD13	1.67	0.74
36:1:1581:C:H2'	36:1:1582:C:H5'	1.69	0.74
68:O2:81:ASP:O	68:O2:84:THR:HG23	1.86	0.74
36:5:3192:U:O4	87:5:4144:OHX:N6	2.19	0.74
1:2:434:G:H5'	25:D3:78:LYS:HB3	1.68	0.74
36:1:2718:U:OP2	87:1:3982:OHX:N3	2.20	0.74
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.19	0.74
41:L4:326:ARG:O	44:L7:41:ARG:NH2	3.73	0.74
54:M8:66:ARG:NH2	36:5:744:A:OP1	166.82	0.74
1:2:301:A:OP2	87:2:2063:OHX:N2	2.20	0.74
35:SM:23:LYS:HD2	35:SM:23:LYS:H	1.51	0.74
45:L8:95:ASN:OD1	45:L8:98:ARG:NH1	4.26	0.74
36:1:623:U:OP1	87:1:4132:OHX:N1	2.20	0.74
36:1:356:C:OP2	87:O9:101:OHX:N1	2.20	0.74
40:L3:120:LYS:NZ	36:5:3001:C:OP1	205.93	0.74
36:5:3295:A:H2'	36:5:3296:A:C8	2.22	0.74
54:M8:30:VAL:O	54:M8:34:THR:HG23	1.86	0.74
36:1:3206:C:O2	56:N0:155:ARG:NH1	2.19	0.74
36:5:3119:U:OP2	87:5:3918:OHX:N3	2.20	0.74
1:2:1613:U:H2'	1:2:1614:A:H5''	1.70	0.74
38:4:62:C:O2	87:4:229:OHX:N5	2.21	0.74
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.70	0.74
1:2:1625:C:OP1	4:S2:91:ARG:NH2	2.20	0.74
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	1.68	0.74
3:S1:144:ARG:NH2	3:S1:207:LEU:O	2.54	0.74
53:M7:69:ARG:HG2	53:M7:79:THR:HG23	5.24	0.74
4:S2:90:THR:O	4:S2:92:ALA:N	2.49	0.74
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.18	0.74
1:6:1508:U:O4	87:6:2055:OHX:N4	2.20	0.74
36:5:2227:C:H2'	36:5:2228:A:H5''	1.68	0.74
21:C9:102:ARG:NH2	1:6:1502:G:N7	406.07	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:S5:64:VAL:HG12	7:S5:89:ILE:HD11	5.52	0.74
36:5:1555:U:O4	36:5:1557:A:N6	2.20	0.74
67:O1:44:MET:HB3	67:O1:77:ARG:NH1	4.19	0.74
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.70	0.73
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.16	0.73
3:S1:137:ILE:HD11	3:S1:172:LEU:HD22	1.69	0.73
45:L8:100:GLU:OE1	45:L8:108:ARG:NH1	2.94	0.73
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	1.70	0.73
63:N7:50:PRO:HD3	63:N7:68:ILE:HG12	1.69	0.73
2:S0:76:ILE:HD13	2:S0:98:ILE:HB	2.69	0.73
40:L3:239:PRO:O	40:L3:242:THR:HG23	1.88	0.73
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.70	0.73
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.68	0.73
36:1:2208:A:N1	87:1:4043:OHX:N2	2.36	0.73
42:L5:270:LYS:HG3	42:L5:273:ARG:HB2	5.63	0.73
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.19	0.73
74:O8:9:LYS:NZ	74:O8:13:GLU:OE2	2.21	0.73
30:D8:36:THR:OG1	30:D8:37:SER:N	2.21	0.73
1:6:383:G:N7	87:6:2150:OHX:N5	2.35	0.73
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.54	0.73
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.24	0.73
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.70	0.73
19:C7:5:ARG:NH1	1:6:1402:G:OP2	409.88	0.73
43:L6:31:ARG:HH11	69:O3:107:ILE:HG22	5.54	0.73
29:D7:56:CYS:HB2	29:D7:61:THR:HG21	1.69	0.73
47:M0:145:LYS:HZ2	47:M0:167:LEU:HD12	4.74	0.73
1:6:1765:A:OP1	87:6:2127:OHX:N2	2.21	0.73
56:N0:108:GLN:NE2	36:5:1322:U:O2	293.92	0.73
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.79	0.73
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	1.87	0.73
1:6:1695:G:H21	1:6:1706:C:H41	1.35	0.73
59:N3:13:ILE:HD12	59:N3:85:TRP:CG	2.24	0.73
18:C6:82:ARG:NH1	18:C6:114:ARG:O	2.76	0.73
10:S8:76:THR:HG22	10:S8:105:ASP:HB3	2.68	0.73
8:S6:49:VAL:HB	8:S6:115:LYS:HG3	4.03	0.73
1:6:915:A:OP1	87:6:2072:OHX:N6	2.21	0.73
39:L2:172:GLY:HA3	79:Q3:68:ALA:H	4.08	0.73
1:2:819:G:O2'	1:2:821:U:OP2	2.04	0.73
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.22	0.73
10:S8:62:THR:HA	10:S8:76:THR:O	2.39	0.72
56:N0:13:ARG:NH2	56:N0:50:LYS:O	3.31	0.72
6:S4:139:VAL:HG13	6:S4:150:PRO:HG3	1.69	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.71	0.72
1:2:1769:U:OP2	87:2:2144:OHX:N1	2.22	0.72
64:N8:76:ASP:HB3	64:N8:116:GLY:HA3	6.65	0.72
33:E1:146:SER:HB3	1:6:1234:A:H4'	435.03	0.72
36:1:1409:G:N7	87:1:4066:OHX:N3	2.37	0.72
1:2:730:G:O6	87:2:2155:OHX:N4	2.22	0.72
18:C6:82:ARG:HH22	18:C6:114:ARG:HB2	1.54	0.72
61:N5:115:ARG:NH1	61:N5:119:THR:OG1	2.28	0.72
1:2:471:A:OP2	87:2:2075:OHX:N4	2.22	0.72
65:N9:23:LYS:HB3	65:N9:24:PRO:HD3	3.75	0.72
27:D5:95:HIS:ND1	27:D5:96:SER:O	2.21	0.72
72:O6:58:ILE:HG22	72:O6:90:MET:HG3	2.91	0.72
36:5:1840:U:OP2	87:5:4040:OHX:N4	2.22	0.72
1:2:452:A:OP2	87:2:2037:OHX:N5	2.23	0.72
2:S0:185:ARG:HG3	23:D1:47:PRO:HD3	1.69	0.72
63:N7:15:ARG:NH2	70:O4:83:ASN:OD1	2.22	0.72
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.21	0.72
36:1:2107:A:H2	36:1:3344:A:C8	2.06	0.72
36:1:1215:U:H2'	36:1:1216:C:H5''	1.69	0.72
39:L2:193:ARG:NH2	36:5:2181:C:OP1	197.98	0.72
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.72	0.72
1:2:794:U:O2'	1:2:795:U:O2	2.07	0.72
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.21	0.72
1:6:1280:C:H2'	1:6:1281:G:H8	1.54	0.72
36:5:990:U:O4	87:5:4184:OHX:N6	2.23	0.72
54:M8:170:ARG:HA	54:M8:174:ARG:HD2	2.31	0.72
5:S3:53:THR:HG22	5:S3:91:VAL:HG11	2.58	0.72
39:L2:209:HIS:HD2	39:L2:211:HIS:H	1.35	0.72
11:S9:108:ARG:HB2	11:S9:111:THR:HG23	2.55	0.72
69:O3:15:SER:HB3	69:O3:29:LEU:HD12	1.72	0.72
29:D7:28:PRO:HB3	1:6:959:U:H5''	351.96	0.72
18:C6:39:VAL:HG12	18:C6:41:PRO:HD2	5.90	0.72
1:6:1680:G:O6	87:6:2190:OHX:N1	2.23	0.72
8:S6:87:ARG:NH2	1:6:161:U:OP2	315.51	0.72
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.21	0.72
36:1:1495:U:H5	36:1:1835:A:N1	1.87	0.72
8:S6:2:LYS:HB2	8:S6:108:VAL:HG22	1.70	0.72
1:2:823:G:H2'	1:2:824:G:C8	2.24	0.72
44:L7:88:ARG:HD2	44:L7:90:LYS:O	1.96	0.72
36:1:2734:A:OP1	87:1:4006:OHX:N3	2.23	0.72
7:S5:61:TYR:OH	30:D8:52:ASP:OD1	2.21	0.72
87:1:3957:OHX:N6	44:L7:217:PRO:O	2.23	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:L2:70:ARG:NH2	36:5:2522:G:O6	176.20	0.72
1:2:1239:U:O4	87:2:2046:OHX:N2	2.23	0.72
21:C9:115:GLU:OE1	21:C9:123:ARG:NH1	5.49	0.72
21:C9:16:ASN:OD1	21:C9:56:LYS:NZ	2.23	0.72
1:2:1585:U:H3	1:2:1611:A:H2	1.38	0.72
36:1:528:U:H2'	36:1:529:A:C8	2.25	0.72
21:C9:42:GLY:HA2	21:C9:84:LYS:HE2	3.97	0.72
76:Q0:92:ASP:O	76:Q0:105:PRO:HG3	1.90	0.71
10:S8:172:ARG:NH1	1:6:330:G:OP2	280.79	0.71
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.23	0.71
36:1:239:G:O2'	36:1:240:U:OP1	2.09	0.71
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	2.21	0.71
1:2:213:A:OP2	87:2:2115:OHX:N2	2.23	0.71
34:SR:33:LEU:HB3	34:SR:45:TRP:HB2	1.72	0.71
36:5:2311:G:OP2	87:5:4198:OHX:N1	2.22	0.71
1:6:67:A:O2'	1:6:69:G:OP1	2.05	0.71
25:D3:124:VAL:HG12	25:D3:125:VAL:H	1.55	0.71
16:C4:51:ASP:OD1	1:6:902:G:N1	283.53	0.71
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	1.72	0.71
6:S4:117:GLU:O	6:S4:120:SER:OG	2.08	0.71
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.23	0.71
28:D6:79:ILE:HA	28:D6:84:VAL:HB	1.72	0.71
36:1:1765:U:H5''	55:M9:43:LYS:HE2	1.72	0.71
40:L3:218:ILE:HG12	40:L3:276:THR:HG23	2.70	0.71
47:M0:36:LEU:HD21	47:M0:69:ARG:HH11	1.54	0.71
36:1:107:A:OP1	49:M3:39:ARG:NH1	2.23	0.71
34:SR:14:GLU:HG2	34:SR:309:VAL:HG13	3.91	0.71
31:D9:21:CYS:HB2	31:D9:39:CYS:HB3	1.89	0.71
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.72	0.71
43:L6:31:ARG:NH1	69:O3:107:ILE:HG22	6.21	0.71
6:S4:104:ASP:HB3	6:S4:106:LYS:H	1.73	0.71
1:2:1041:G:H2'	1:2:1042:G:C8	2.25	0.71
36:1:978:G:O2'	36:1:979:U:O2	2.08	0.71
87:2:2030:OHX:N4	87:2:2145:OHX:N2	2.38	0.71
71:O5:10:ARG:NH1	71:O5:60:GLU:OE1	2.23	0.71
36:1:917:A:OP2	87:1:4143:OHX:N2	2.24	0.71
6:S4:98:ASN:ND2	6:S4:116:ASP:OD1	2.24	0.71
45:L8:71:VAL:HG22	45:L8:76:ALA:HB2	1.73	0.71
36:1:3166:C:H42	36:1:3284:G:H1	1.35	0.71
1:2:150:U:OP1	26:D4:123:LYS:NZ	2.21	0.71
36:1:3138:U:H2'	36:1:3139:A:H5''	1.71	0.71
1:6:1202:A:OP1	87:6:2131:OHX:N2	2.23	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
63:N7:21:LYS:HD3	63:N7:47:GLU:HA	1.73	0.71
44:L7:108:LEU:HD21	44:L7:115:THR:HG23	1.73	0.71
47:M0:171:TRP:O	47:M0:174:THR:HB	1.90	0.71
36:5:2211:U:H5	36:5:2234:G:O6	1.74	0.71
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.30	0.71
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.73	0.71
27:D5:71:ILE:HG21	27:D5:76:ALA:HB2	3.25	0.71
36:1:1238:C:N4	36:1:1245:A:OP2	2.23	0.71
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	1.90	0.71
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.23	0.71
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.23	0.71
51:M5:98:LEU:HD23	51:M5:128:LYS:HD2	2.17	0.71
1:2:1533:C:H4'	1:2:1539:G:N1	2.06	0.71
7:S5:94:THR:HB	7:S5:114:ILE:HG13	1.73	0.70
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.24	0.70
1:2:833:U:OP2	87:2:2140:OHX:N4	2.24	0.70
17:C5:44:ARG:NH2	17:C5:82:ASN:O	3.06	0.70
41:L4:193:LYS:NZ	38:8:21:C:OP1	108.96	0.70
24:D2:27:ILE:HD11	24:D2:61:ILE:HD12	1.73	0.70
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.35	0.70
52:M6:110:PRO:O	52:M6:113:ASP:N	5.19	0.70
1:2:1521:G:O6	21:C9:68:ARG:NH1	2.24	0.70
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.71	0.70
1:2:1234:A:H4'	33:E1:146:SER:HB3	1.73	0.70
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.23	0.70
56:N0:77:VAL:HG11	56:N0:106:LEU:HD12	1.73	0.70
1:6:301:A:OP2	87:6:2094:OHX:N1	2.25	0.70
7:S5:57:SER:O	7:S5:59:VAL:N	2.24	0.70
48:M1:17:LEU:HD21	48:M1:19:LEU:HD21	2.05	0.70
36:5:2846:U:O2'	87:5:4053:OHX:N1	2.23	0.70
16:C4:80:HIS:ND1	16:C4:113:GLY:O	2.24	0.70
23:D1:60:ARG:HA	23:D1:65:SER:HB2	2.28	0.70
36:1:3148:U:O4	87:1:4109:OHX:N2	2.25	0.70
41:L4:354:VAL:HG11	57:N1:143:THR:HG21	1.74	0.70
36:1:1507:G:C8	53:M7:129:THR:HG22	2.25	0.70
87:2:2030:OHX:N4	87:2:2145:OHX:N1	2.38	0.70
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.24	0.70
36:5:2128:C:OP1	87:5:4090:OHX:N3	2.24	0.70
36:1:718:G:C2	36:1:721:G:H1'	2.27	0.70
36:1:2318:U:O4	87:1:4039:OHX:N2	2.24	0.70
39:L2:70:ARG:HH11	39:L2:72:ARG:HE	4.57	0.70
22:D0:53:LYS:HB2	22:D0:92:ASP:HB2	2.60	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:D0:95:ALA:HB1	22:D0:99:ILE:HG13	3.83	0.70
36:1:3074:G:OP1	87:1:4038:OHX:N1	2.24	0.70
38:4:70:G:O6	87:O7:103:OHX:N4	2.25	0.70
56:N0:23:LYS:O	57:N1:146:ASN:ND2	2.23	0.70
9:S7:64:VAL:HG22	9:S7:94:ALA:HB1	2.96	0.70
1:2:434:G:N7	87:2:2047:OHX:N4	2.40	0.70
36:1:2206:G:H1	36:1:2237:C:H42	1.40	0.70
27:D5:71:ILE:HG23	27:D5:73:GLY:H	7.26	0.70
1:2:1620:C:OP2	87:2:2165:OHX:N6	2.25	0.70
2:S0:83:GLN:HG2	2:S0:99:ALA:HB1	1.74	0.70
42:L5:120:LYS:O	42:L5:248:ARG:NH2	3.02	0.70
8:S6:136:LYS:NZ	1:6:66:U:OP1	336.53	0.70
3:S1:175:GLU:O	3:S1:187:LYS:NZ	2.24	0.70
1:2:1382:A:H5'	22:D0:60:THR:HG22	1.74	0.70
36:1:2528:G:N7	87:1:4183:OHX:N3	2.40	0.70
41:L4:170:LYS:HG3	41:L4:175:HIS:HB2	2.41	0.70
36:5:945:C:H2'	36:5:946:U:C6	2.27	0.70
40:L3:296:THR:HG22	40:L3:298:PHE:N	2.05	0.70
21:C9:42:GLY:HA2	21:C9:84:LYS:HG3	1.74	0.70
1:2:789:A:O2'	6:S4:106:LYS:NZ	2.25	0.70
46:L9:13:PRO:HD2	46:L9:16:VAL:HG22	1.72	0.70
20:C8:23:ASP:OD1	20:C8:25:ASN:ND2	3.54	0.70
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.25	0.70
36:5:299:G:N7	87:5:4189:OHX:N1	2.39	0.70
11:S9:159:ALA:HB3	11:S9:162:SER:HB3	3.66	0.70
47:M0:24:ARG:HG3	47:M0:24:ARG:HH11	1.57	0.70
56:N0:137:ARG:HG2	56:N0:139:TYR:CE1	2.47	0.69
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.24	0.69
1:6:86:A:OP2	87:6:2189:OHX:N1	2.25	0.69
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.27	0.69
70:O4:41:ARG:HA	70:O4:56:THR:HG22	3.66	0.69
56:N0:137:ARG:HG2	56:N0:139:TYR:CZ	2.87	0.69
24:D2:6:VAL:HG13	24:D2:34:ILE:HD11	2.03	0.69
58:N2:59:ASP:O	58:N2:61:THR:N	2.23	0.69
17:C5:111:MET:HG2	20:C8:119:ILE:HG13	4.99	0.69
27:D5:55:PRO:O	27:D5:57:TYR:N	2.21	0.69
58:N2:89:LEU:HD22	58:N2:93:ILE:HD11	1.74	0.69
28:D6:26:CYS:HB2	28:D6:28:LYS:H	3.78	0.69
26:D4:3:ASP:O	26:D4:5:VAL:N	2.23	0.69
1:2:1720:G:O6	87:2:2081:OHX:N5	2.25	0.69
9:S7:58:LEU:HD12	9:S7:90:VAL:HG22	1.74	0.69
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	1.72	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:S7:35:LYS:O	9:S7:37:GLU:N	2.24	0.69
43:L6:129:GLU:OE2	43:L6:130:ILE:N	2.26	0.69
7:S5:36:ALA:HB1	7:S5:42:LEU:HD12	5.08	0.69
3:S1:35:PRO:HB3	3:S1:231:LEU:HD11	3.59	0.69
36:1:2310:U:OP1	87:1:4139:OHX:N2	2.26	0.69
2:S0:124:THR:HA	2:S0:146:LEU:HB2	1.75	0.69
6:S4:159:THR:HB	6:S4:227:VAL:HG23	1.73	0.69
37:3:4:U:H2'	37:3:5:G:C8	2.28	0.69
36:1:1952:G:H3'	36:1:1953:G:H5''	1.74	0.69
17:C5:126:VAL:O	17:C5:127:ARG:HB2	2.34	0.69
8:S6:70:PRO:O	8:S6:98:ARG:NH1	2.26	0.69
51:M5:71:ARG:NH2	36:5:32:U:O3'	140.55	0.69
1:6:1696:G:O2'	1:6:1698:G:N7	2.23	0.69
53:M7:33:ALA:HB1	53:M7:117:ILE:HG12	1.75	0.69
73:O7:55:ARG:NH1	36:5:353:G:O6	113.12	0.69
36:1:1724:U:H1'	36:1:1725:C:C6	2.27	0.69
20:C8:49:LYS:NZ	20:C8:79:TYR:O	2.26	0.69
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.25	0.69
24:D2:105:THR:HG23	24:D2:110:ILE:HG12	1.75	0.69
53:M7:126:ARG:HD2	53:M7:140:GLU:OE2	1.93	0.69
1:2:1240:U:OP2	87:2:2143:OHX:N1	2.26	0.69
1:6:1662:G:O6	87:6:2064:OHX:N6	2.25	0.69
36:1:3259:U:H5'	36:1:3259:U:C6	2.27	0.69
6:S4:9:LEU:HD12	6:S4:30:ARG:HA	2.23	0.69
31:D9:33:LYS:HE2	31:D9:34:TYR:CZ	3.49	0.69
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.37	0.69
36:1:73:C:C2	49:M3:59:ARG:HD3	2.28	0.69
70:O4:38:LEU:H	70:O4:38:LEU:HD12	3.36	0.69
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	1.93	0.69
1:6:453:U:O4	87:6:2063:OHX:N4	2.25	0.69
63:N7:27:LYS:HB3	63:N7:42:LEU:HB2	2.70	0.69
36:1:295:A:H1'	72:O6:82:ARG:HH11	1.57	0.69
11:S9:149:ARG:O	11:S9:151:ASP:N	2.26	0.69
36:1:2236:G:OP1	87:1:4118:OHX:N6	2.25	0.69
75:O9:19:GLN:NE2	38:8:53:A:OP1	90.67	0.69
27:D5:41:ILE:HG23	27:D5:42:LEU:H	1.58	0.69
36:5:1149:G:N2	36:5:1198:C:N3	2.37	0.69
1:2:1067:C:H2'	1:2:1068:C:H6	1.56	0.69
26:D4:88:THR:HA	26:D4:91:LEU:HD12	1.75	0.69
53:M7:40:GLU:HB3	53:M7:43:LYS:HG3	1.73	0.69
23:D1:74:GLN:HB2	23:D1:79:LEU:HB2	1.75	0.69
77:Q1:23:ARG:O	87:5:4002:OHX:N2	264.88	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1041:G:OP1	87:6:2176:OHX:N4	2.26	0.69
1:2:656:G:O2'	1:2:657:U:O4'	2.11	0.69
66:O0:26:GLY:O	66:O0:30:THR:HG23	1.99	0.69
55:M9:27:ASN:O	87:M9:202:OHX:N6	2.26	0.69
20:C8:70:VAL:HA	20:C8:73:MET:HE2	1.74	0.69
36:1:1374:G:O6	64:N8:10:LYS:NZ	2.23	0.69
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.37	0.68
41:L4:60:THR:HG23	36:5:364:G:OP1	129.13	0.68
40:L3:347:SER:HB3	40:L3:350:ALA:H	1.58	0.68
9:S7:62:VAL:HG12	9:S7:63:PRO:HD2	1.73	0.68
29:D7:29:ARG:HG3	29:D7:29:ARG:HH11	1.58	0.68
36:1:1103:A:N6	36:1:1363:A:O2'	2.27	0.68
47:M0:99:ILE:HG13	47:M0:123:HIS:HB2	4.95	0.68
16:C4:87:GLY:HA3	16:C4:120:PRO:HG2	2.41	0.68
36:1:2548:C:OP2	39:L2:93:LYS:NZ	2.25	0.68
36:1:3065:G:O6	87:1:4135:OHX:N6	2.26	0.68
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.75	0.68
75:O9:48:LYS:O	87:O9:101:OHX:N1	5.03	0.68
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.22	0.68
34:SR:238:ASP:OD2	34:SR:258:THR:OG1	2.33	0.68
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.22	0.68
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.20	0.68
22:D0:35:GLU:OE2	22:D0:57:ARG:NH2	3.14	0.68
1:2:1680:G:O6	87:2:2109:OHX:N5	2.26	0.68
7:S5:119:ASP:O	7:S5:123:VAL:HG23	3.13	0.68
51:M5:172:ARG:HD2	36:5:30:G:O5'	111.16	0.68
1:2:1199:G:O6	22:D0:67:THR:HG23	1.93	0.68
23:D1:3:ASN:HD21	23:D1:7:GLN:HB3	3.03	0.68
87:2:2030:OHX:N6	87:2:2145:OHX:N5	2.42	0.68
41:L4:182:LEU:HD13	41:L4:223:PRO:HG2	1.75	0.68
36:1:1103:A:H4'	36:1:1103:A:OP2	1.92	0.68
70:O4:20:ILE:HD11	70:O4:34:HIS:CE1	2.29	0.68
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.76	0.68
9:S7:13:PRO:HB3	9:S7:14:THR:HB	1.73	0.68
36:5:2895:G:H2'	36:5:2896:A:H5''	1.76	0.68
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.75	0.68
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.29	0.68
36:5:3274:A:H3'	36:5:3275:U:C5'	2.21	0.68
36:1:883:A:H5'	53:M7:133:HIS:HA	1.76	0.68
3:S1:128:LYS:HE2	3:S1:132:ASP:HB3	1.76	0.68
3:S1:157:GLN:O	3:S1:159:SER:N	2.25	0.68
39:L2:193:ARG:NH1	36:5:2174:G:OP2	191.09	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:154:G:OP1	8:S6:2:LYS:NZ	2.23	0.68
36:5:1556:C:H2'	36:5:2169:G:N1	2.09	0.68
33:E1:91:ILE:HG12	33:E1:92:LYS:HG2	6.70	0.68
1:2:420:A:OP1	8:S6:96:SER:OG	2.07	0.68
36:5:2236:G:OP1	87:5:4248:OHX:N3	2.26	0.68
36:5:1238:C:O2'	36:5:1239:C:OP1	2.11	0.68
64:N8:42:ARG:HH21	36:5:2799:A:H1'	192.77	0.68
44:L7:158:LYS:HD2	44:L7:159:GLN:HA	4.51	0.68
1:2:1502:G:O6	21:C9:102:ARG:NH2	2.27	0.68
18:C6:58:ASP:O	18:C6:60:PHE:N	2.26	0.68
19:C7:50:ILE:O	19:C7:54:THR:HG23	2.03	0.68
39:L2:209:HIS:CD2	39:L2:211:HIS:H	2.12	0.68
34:SR:164:ASP:O	34:SR:166:SER:N	2.73	0.68
44:L7:110:ARG:NH2	36:5:1364:C:OP1	223.45	0.68
11:S9:116:LEU:O	11:S9:118:LEU:N	3.43	0.68
36:1:3316:A:O2'	36:1:3317:U:OP2	2.09	0.68
1:2:900:A:OP1	16:C4:43:THR:OG1	2.07	0.68
42:L5:105:ILE:O	42:L5:109:THR:HG23	1.97	0.68
1:6:1670:G:N7	87:6:2191:OHX:N4	2.41	0.68
70:O4:52:GLN:HG2	36:5:1639:C:H5'	197.23	0.68
36:1:3215:A:H8	50:M4:121:MET:HE1	1.59	0.68
42:L5:56:THR:O	42:L5:58:LYS:N	2.27	0.68
36:1:269:G:H5''	51:M5:14:LYS:HE2	1.76	0.68
62:N6:45:ILE:HD11	62:N6:122:LYS:HB2	1.74	0.68
1:6:1762:A:H1'	1:6:1783:C:H5'	1.76	0.68
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.35	0.68
46:L9:70:THR:HG21	36:5:3122:A:N1	325.23	0.68
36:5:2810:C:OP1	87:5:4080:OHX:N3	2.27	0.68
1:6:1533:C:H4'	1:6:1539:G:N1	2.09	0.68
1:6:1754:A:H4'	1:6:1755:A:O5'	1.94	0.68
28:D6:58:VAL:HG22	28:D6:59:TYR:H	2.23	0.68
36:5:2520:A:H2'	36:5:2521:U:C6	2.29	0.68
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.75	0.67
13:C1:125:VAL:HA	13:C1:139:VAL:O	1.94	0.67
1:2:514:G:H1	1:2:543:C:H5	1.41	0.67
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.27	0.67
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.58	0.67
23:D1:3:ASN:ND2	23:D1:7:GLN:HB3	3.25	0.67
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.26	0.67
36:5:604:G:N7	87:5:4168:OHX:N2	2.42	0.67
34:SR:22:SER:OG	34:SR:70:ASP:HA	2.26	0.67
36:5:2112:U:H4'	36:5:2113:A:H5'	1.74	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
63:N7:135:ARG:HB3	63:N7:135:ARG:HH21	3.39	0.67
36:5:410:U:O4	87:5:4102:OHX:N1	2.27	0.67
33:E1:103:LEU:HD23	33:E1:105:TYR:HB2	2.82	0.67
1:6:755:A:H2'	1:6:756:A:H8	1.59	0.67
36:5:1878:G:OP1	87:5:3958:OHX:N5	2.27	0.67
36:5:3:U:H3	38:8:156:U:H3	1.42	0.67
36:1:3243:A:H4'	40:L3:95:THR:HG22	1.76	0.67
1:2:915:A:OP1	87:2:2093:OHX:N3	2.27	0.67
2:S0:182:LEU:HB3	2:S0:188:LEU:HD23	1.75	0.67
3:S1:51:SER:HB3	3:S1:57:ALA:H	2.72	0.67
10:S8:48:THR:HG21	10:S8:54:LYS:HE3	1.76	0.67
36:5:1313:G:O6	87:5:4163:OHX:N6	2.27	0.67
36:5:1556:C:H2'	36:5:2169:G:H1	1.58	0.67
64:N8:27:LYS:NZ	36:5:801:A:OP1	154.91	0.67
36:1:2112:U:H4'	36:1:2113:A:H5'	1.77	0.67
59:N3:48:ARG:HH11	59:N3:48:ARG:HG3	2.39	0.67
26:D4:62:THR:HA	26:D4:69:SER:HA	1.75	0.67
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.77	0.67
54:M8:134:GLY:O	54:M8:137:THR:OG1	2.46	0.67
25:D3:91:GLY:O	25:D3:93:LEU:N	2.27	0.67
8:S6:155:ASP:OD2	8:S6:155:ASP:N	2.28	0.67
64:N8:94:ALA:HA	64:N8:121:VAL:HG13	1.77	0.67
49:M3:56:PRO:HG3	49:M3:74:GLY:O	1.93	0.67
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.44	0.67
36:5:980:A:H2'	36:5:981:U:C2	2.30	0.67
36:1:2754:G:OP2	87:1:4006:OHX:N6	2.26	0.67
36:5:1196:C:OP1	87:5:4236:OHX:N6	2.28	0.67
36:1:543:C:H42	36:1:548:G:H1	1.42	0.67
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.27	0.67
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.76	0.67
2:S0:41:ARG:HH11	2:S0:45:VAL:HG21	2.23	0.67
1:6:1239:U:O4	87:6:2098:OHX:N1	2.27	0.67
1:2:1537:C:N3	87:2:2153:OHX:N3	2.43	0.67
1:2:770:A:OP2	87:2:2137:OHX:N6	2.27	0.67
41:L4:36:HIS:O	41:L4:40:THR:HG23	2.08	0.67
1:2:348:U:O4	87:2:2126:OHX:N5	2.28	0.67
36:1:980:A:H2'	36:1:981:U:N1	2.10	0.67
69:O3:48:ARG:NH1	69:O3:48:ARG:HG2	2.06	0.67
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	3.50	0.67
36:5:2840:C:OP1	87:5:4138:OHX:N3	2.27	0.67
36:1:330:G:OP2	87:1:4042:OHX:N2	2.28	0.67
46:L9:36:LYS:NZ	46:L9:152:GLU:OE1	2.81	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1665:U:O4	87:6:2125:OHX:N6	2.28	0.67
36:5:1024:G:N7	36:5:1027:A:N6	2.42	0.67
2:S0:52:LYS:HD3	23:D1:82:VAL:HA	3.18	0.67
1:2:706:A:N1	1:2:734:A:N6	2.43	0.67
25:D3:126:LYS:HA	25:D3:131:SER:HA	1.77	0.67
47:M0:175:ASN:OD1	47:M0:176:LEU:N	5.32	0.67
3:S1:48:VAL:HG21	3:S1:61:LEU:HD22	4.49	0.67
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	2.08	0.67
36:5:528:U:H2'	36:5:529:A:C8	2.30	0.67
49:M3:166:ALA:N	64:N8:135:GLU:OE1	2.21	0.67
37:3:39:C:N3	48:M1:70:THR:HG22	2.08	0.67
36:5:2444:C:H42	36:5:2503:G:H1	1.43	0.67
1:6:213:A:OP2	87:6:2151:OHX:N1	2.27	0.67
1:2:1681:A:H2'	1:2:1682:U:H5'	1.75	0.67
42:L5:64:ILE:HG13	42:L5:109:THR:HG21	2.81	0.67
36:1:562:C:H2'	36:1:563:U:H6	1.59	0.67
40:L3:332:ARG:HH11	40:L3:332:ARG:HG2	1.58	0.67
66:O0:9:SER:OG	66:O0:10:ILE:N	2.71	0.67
36:5:2209:U:O4	87:5:3963:OHX:N4	2.27	0.67
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.76	0.67
74:O8:22:THR:HG22	74:O8:74:LYS:HB3	4.64	0.67
36:1:2677:G:H2'	36:1:2679:A:H2	1.60	0.67
63:N7:14:VAL:HG13	70:O4:86:LYS:HG3	3.26	0.67
1:6:193:U:C2	1:6:195:G:H1'	2.30	0.67
1:2:372:G:OP1	24:D2:88:LYS:NZ	2.28	0.67
36:1:276:U:O2	51:M5:93:LYS:NZ	2.26	0.67
9:S7:89:HIS:ND1	9:S7:168:SER:OG	2.22	0.66
16:C4:85:ALA:H	16:C4:119:THR:CG2	2.08	0.66
45:L8:33:ASN:O	45:L8:35:GLY:N	3.20	0.66
62:N6:52:ARG:O	62:N6:54:ASP:N	2.27	0.66
19:C7:105:GLN:HA	19:C7:108:ASP:HB2	2.38	0.66
34:SR:16:HIS:CE1	34:SR:37:SER:HB2	2.31	0.66
36:5:155:G:H5''	36:5:156:G:C8	2.30	0.66
9:S7:56:LYS:HB2	9:S7:88:ARG:HD3	1.77	0.66
36:1:239:G:O6	87:1:4034:OHX:N3	2.28	0.66
36:5:3128:G:OP2	87:5:4159:OHX:N3	2.28	0.66
48:M1:143:ARG:NH2	37:7:5:G:OP1	292.36	0.66
56:N0:39:SER:OG	37:7:98:C:OP1	285.97	0.66
40:L3:36:ASP:OD1	40:L3:38:SER:OG	2.11	0.66
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.28	0.66
36:1:776:U:H5	36:1:2719:U:O2	1.78	0.66
1:2:872:G:O6	87:2:2125:OHX:N3	2.27	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.25	0.66
1:2:1600:A:H4'	1:2:1601:G:OP1	1.95	0.66
36:5:343:U:OP2	87:5:3925:OHX:N3	2.28	0.66
1:2:538:A:H5'	1:2:543:C:H42	1.60	0.66
22:D0:67:THR:HG23	1:6:1199:G:O6	402.57	0.66
40:L3:18:PRO:HG2	40:L3:20:LYS:HD2	2.57	0.66
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.24	0.66
87:5:3943:OHX:N5	87:5:4233:OHX:N3	2.43	0.66
87:5:3943:OHX:N1	87:5:4233:OHX:N3	2.42	0.66
1:6:1524:A:H2'	1:6:1525:A:C8	2.30	0.66
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.28	0.66
55:M9:170:ARG:HH12	1:6:814:A:H2'	321.85	0.66
41:L4:232:SER:OG	41:L4:233:LEU:N	2.27	0.66
40:L3:71:GLU:OE1	40:L3:357:LYS:NZ	2.27	0.66
67:O1:44:MET:O	67:O1:46:THR:N	3.16	0.66
69:O3:73:ARG:HG3	69:O3:82:ARG:HG3	1.76	0.66
36:1:871:U:H2'	36:1:872:U:C6	2.30	0.66
41:L4:179:LEU:HD22	41:L4:183:LYS:HG2	2.24	0.66
19:C7:26:LEU:HD13	19:C7:59:LYS:HG3	1.76	0.66
47:M0:84:ALA:O	47:M0:140:THR:HG22	1.98	0.66
54:M8:154:GLY:O	54:M8:159:LYS:HE2	1.95	0.66
36:1:2973:G:N7	87:1:4098:OHX:N2	2.44	0.66
1:2:732:G:O2'	1:2:733:A:O4'	2.12	0.66
36:5:979:U:H1'	36:5:980:A:N3	2.10	0.66
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.30	0.66
59:N3:48:ARG:NH2	36:5:3043:C:OP2	252.14	0.66
87:5:3943:OHX:N5	87:5:4233:OHX:N6	2.43	0.66
34:SR:25:THR:OG1	34:SR:26:SER:N	3.33	0.66
57:N1:68:THR:HG22	57:N1:71:SER:H	2.28	0.66
2:S0:71:GLU:O	2:S0:73:VAL:N	2.25	0.66
25:D3:73:ARG:HE	25:D3:84:THR:HG22	1.92	0.66
41:L4:59:GLN:OE1	73:O7:55:ARG:NH2	2.38	0.66
5:S3:137:VAL:HG22	5:S3:151:LYS:HG3	2.22	0.66
73:O7:24:ARG:NH1	36:5:361:A:OP1	121.20	0.66
5:S3:37:VAL:HG12	5:S3:50:ILE:HA	3.45	0.66
36:1:829:U:H3	36:1:895:A:H62	1.41	0.66
44:L7:158:LYS:CE	44:L7:159:GLN:H	2.08	0.66
42:L5:270:LYS:HB3	37:7:1:G:O2'	322.87	0.66
36:5:1581:C:OP2	36:5:1581:C:H4'	1.95	0.66
36:1:1308:A:C8	36:1:1308:A:OP2	2.49	0.66
36:1:2771:U:O2'	36:1:2772:C:O5'	2.14	0.66
9:S7:86:GLN:HG2	9:S7:87:ASP:H	1.61	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:S7:119:THR:HG23	1:6:639:U:OP2	369.57	0.66
2:S0:140:ASN:HD22	4:S2:62:PRO:HD3	4.81	0.66
1:2:1760:G:C2'	1:2:1761:U:H5'	2.26	0.66
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.27	0.66
57:N1:89:LEU:HD23	57:N1:91:LEU:HD11	1.77	0.66
65:N9:14:ARG:NH2	65:N9:18:ARG:HD2	2.11	0.66
57:N1:17:ARG:HH11	57:N1:17:ARG:HG2	3.54	0.66
1:2:1657:U:H4'	1:2:1658:G:O5'	1.94	0.66
1:6:1535:U:H4'	1:6:1535:U:OP1	1.96	0.66
1:2:16:G:O6	4:S2:203:LYS:NZ	2.28	0.66
45:L8:48:ARG:NH2	36:5:2588:U:OP1	183.92	0.66
7:S5:35:GLN:O	7:S5:37:GLN:N	3.01	0.66
36:1:1581:C:H2'	36:1:1582:C:C5'	2.25	0.66
55:M9:62:ARG:NH2	36:5:3068:U:OP2	172.70	0.66
1:6:823:G:H2'	1:6:824:G:O4'	1.95	0.66
1:6:578:U:H4'	1:6:579:A:H5'	1.77	0.66
1:2:142:G:N2	1:2:173:A:H2	1.89	0.66
15:C3:65:VAL:O	15:C3:67:THR:N	3.40	0.66
33:E1:144:CYS:HB3	33:E1:147:VAL:HG13	1.76	0.66
2:S0:84:ARG:HH21	2:S0:201:LEU:HD12	3.63	0.66
53:M7:122:ALA:HB3	53:M7:143:PRO:HB2	2.30	0.66
1:6:833:U:O4	87:6:2102:OHX:N5	2.28	0.66
75:O9:5:LYS:HD3	75:O9:13:MET:HE1	1.79	0.65
22:D0:71:PRO:O	22:D0:72:ASN:ND2	4.92	0.65
1:2:734:A:H5''	1:2:735:C:OP1	1.97	0.65
41:L4:60:THR:HG21	41:L4:77:VAL:HG22	1.77	0.65
2:S0:185:ARG:H	23:D1:45:ALA:H	1.91	0.65
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.24	0.65
40:L3:94:GLU:HB3	52:M6:152:VAL:HG11	1.79	0.65
48:M1:82:ARG:HB3	48:M1:112:LEU:HB2	4.29	0.65
8:S6:164:LYS:N	8:S6:167:LYS:O	2.19	0.65
40:L3:129:ALA:O	36:5:3150:A:H5'	212.14	0.65
1:6:1542:G:N2	1:6:1569:A:OP2	2.29	0.65
53:M7:109:ALA:HA	53:M7:112:LEU:HD22	1.78	0.65
1:2:1606:C:H2'	1:2:1607:G:C8	2.32	0.65
1:2:1331:A:OP1	19:C7:45:ARG:NH2	2.29	0.65
1:2:527:A:OP2	87:2:2052:OHX:N4	2.29	0.65
34:SR:199:ILE:HA	34:SR:215:GLY:HA3	1.78	0.65
36:1:819:U:OP1	73:O7:10:LYS:NZ	2.29	0.65
64:N8:46:ASP:O	64:N8:47:LYS:HB3	2.16	0.65
36:1:911:C:N4	39:L2:3:ARG:HD3	2.11	0.65
1:2:1683:C:O2'	1:2:1684:U:O5'	2.14	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
63:N7:9:LYS:HB3	63:N7:25:ILE:HD12	1.79	0.65
36:1:410:U:O4	87:1:4056:OHX:N5	2.29	0.65
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.31	0.65
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.77	0.65
1:2:1795:U:O2	28:D6:10:ARG:HD2	1.96	0.65
34:SR:184:ASN:HD22	34:SR:185:GLN:N	5.43	0.65
1:6:1720:G:O6	87:6:2095:OHX:N4	2.30	0.65
47:M0:41:ALA:O	47:M0:139:ARG:NH2	2.80	0.65
2:S0:157:ASP:OD2	23:D1:60:ARG:NH2	2.29	0.65
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.29	0.65
36:5:3152:U:O2	87:5:4225:OHX:N5	2.29	0.65
1:2:1370:U:H4'	1:2:1371:A:H5'	1.78	0.65
36:1:2320:A:H2	79:Q3:16:VAL:HG13	1.61	0.65
36:1:595:G:N1	36:1:609:G:H5''	2.11	0.65
1:2:149:C:O2'	8:S6:132:ARG:NH1	2.29	0.65
1:2:623:A:OP2	87:2:2156:OHX:N4	2.29	0.65
69:O3:49:ILE:HG23	69:O3:100:ILE:HG13	1.78	0.65
15:C3:101:HIS:O	15:C3:105:ASN:ND2	2.22	0.65
39:L2:209:HIS:HD2	39:L2:211:HIS:N	1.94	0.65
41:L4:354:VAL:O	41:L4:358:THR:HG23	1.96	0.65
36:5:1877:U:H5''	36:5:1878:G:H5'	1.78	0.65
1:2:1564:U:H2'	1:2:1565:C:C6	2.30	0.65
36:5:1414:G:O6	87:5:4147:OHX:N1	2.28	0.65
24:D2:23:ARG:NH1	24:D2:66:ASN:HA	3.36	0.65
27:D5:49:ARG:NH2	27:D5:53:GLU:OE2	4.73	0.65
3:S1:171:ILE:HA	3:S1:174:LYS:HE3	1.77	0.65
48:M1:15:GLU:HB3	48:M1:130:VAL:HG22	1.81	0.65
16:C4:102:LEU:HD11	28:D6:45:VAL:HG12	3.59	0.65
9:S7:114:ARG:O	9:S7:117:THR:HB	2.86	0.65
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.77	0.65
54:M8:58:ASN:HB3	54:M8:144:ARG:NH2	2.64	0.65
36:1:600:G:N7	87:1:4096:OHX:N1	2.45	0.65
36:5:1387:G:OP1	87:5:4200:OHX:N3	2.29	0.65
36:1:2573:G:O6	87:1:3997:OHX:N3	2.29	0.65
16:C4:111:ARG:NH1	28:D6:57:SER:O	5.17	0.65
40:L3:92:TYR:O	40:L3:155:ALA:HA	1.97	0.65
41:L4:299:ILE:HG23	54:M8:39:ARG:HB3	1.92	0.65
36:1:1553:U:H4'	36:1:1554:U:H5'	1.79	0.65
2:S0:31:VAL:HG23	2:S0:150:ASP:HA	1.78	0.65
34:SR:29:GLN:HG3	34:SR:32:LEU:HB2	1.79	0.65
36:1:291:C:OP1	51:M5:68:ARG:NH1	2.29	0.65
36:1:3122:A:N1	46:L9:70:THR:HG21	2.12	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:3376:A:OP2	87:1:3904:OHX:N5	2.29	0.65
1:2:1672:G:H2'	1:2:1673:G:C8	2.32	0.65
61:N5:51:VAL:HG21	71:O5:62:GLN:HB3	2.25	0.65
75:O9:26:TRP:HA	75:O9:29:LEU:HD23	4.66	0.65
15:C3:91:LEU:HD12	15:C3:125:LEU:HD12	2.84	0.65
36:1:1278:A:O2'	36:1:1279:C:O5'	2.14	0.65
87:2:2030:OHX:N3	87:2:2145:OHX:N5	2.44	0.65
47:M0:61:SER:HB2	47:M0:63:GLU:HG2	1.79	0.65
20:C8:12:GLN:NE2	20:C8:14:ILE:O	4.28	0.65
1:2:855:A:C2	1:2:857:U:H1'	2.32	0.65
1:2:868:G:OP1	15:C3:121:ARG:NH1	2.29	0.65
42:L5:95:TRP:CH2	42:L5:181:PRO:HD3	4.25	0.65
45:L8:161:GLU:OE2	51:M5:26:ARG:NH2	2.55	0.65
6:S4:194:THR:O	6:S4:195:ILE:HB	1.96	0.65
36:5:1014:U:H3	36:5:1036:A:H61	1.45	0.65
7:S5:23:VAL:O	7:S5:34:GLN:NE2	2.27	0.65
36:1:801:A:O2'	87:1:3980:OHX:N2	2.30	0.65
36:1:3358:U:H2'	36:1:3359:A:O4'	1.97	0.65
29:D7:36:LYS:HB3	29:D7:43:ILE:HG22	1.78	0.65
1:6:711:U:H5'	1:6:712:G:OP2	1.97	0.65
36:5:3287:U:H2'	36:5:3288:G:H5'	1.78	0.65
7:S5:91:GLU:HA	7:S5:94:THR:HG23	1.77	0.65
36:1:2107:A:C2	36:1:3344:A:H8	2.13	0.65
62:N6:38:GLU:HG2	62:N6:39:LEU:HD23	1.77	0.65
37:3:60:G:H2'	37:3:61:G:H8	1.61	0.65
36:1:612:U:OP1	43:L6:21:THR:HB	1.97	0.65
36:5:2771:U:O2'	36:5:2772:C:O5'	2.15	0.65
40:L3:116:ARG:HG2	40:L3:175:LYS:HB2	1.79	0.65
42:L5:107:ARG:HH21	42:L5:110:LEU:HD23	1.62	0.65
1:6:484:C:H42	1:6:503:G:H1	1.44	0.65
40:L3:81:THR:O	40:L3:81:THR:HG22	2.10	0.65
70:O4:8:ARG:HG2	70:O4:8:ARG:NH1	2.07	0.64
1:2:591:A:H2'	1:2:592:A:C8	2.31	0.64
47:M0:63:GLU:HB2	36:5:2853:A:H5'	297.54	0.64
1:6:1280:C:H2'	1:6:1281:G:C8	2.31	0.64
36:1:1427:U:OP2	64:N8:4:ARG:NH2	2.23	0.64
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.80	0.64
1:6:991:G:OP2	87:6:2172:OHX:N2	2.30	0.64
1:2:1760:G:H2'	1:2:1761:U:H5'	1.78	0.64
46:L9:57:VAL:HG23	46:L9:68:LEU:HG	1.80	0.64
6:S4:118:GLU:HA	6:S4:121:TYR:CE1	3.43	0.64
3:S1:157:GLN:H	3:S1:160:HIS:HB2	1.61	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:S0:41:ARG:NH1	2:S0:45:VAL:HG21	2.91	0.64
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.33	0.64
9:S7:46:ILE:HG12	9:S7:60:ILE:HG23	2.98	0.64
1:6:700:C:O2	1:6:738:G:N2	2.18	0.64
65:N9:20:GLY:O	65:N9:21:ILE:HB	2.74	0.64
36:1:742:G:N7	87:1:3974:OHX:N1	2.44	0.64
26:D4:57:VAL:HB	26:D4:60:PHE:HE2	4.09	0.64
64:N8:77:LYS:O	64:N8:79:TRP:N	2.48	0.64
5:S3:108:LYS:HG2	5:S3:113:LEU:HD12	1.79	0.64
9:S7:132:PRO:O	9:S7:133:THR:OG1	4.79	0.64
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.79	0.64
39:L2:70:ARG:HD2	39:L2:72:ARG:HE	3.72	0.64
1:6:1679:G:O6	87:6:2190:OHX:N3	2.30	0.64
21:C9:42:GLY:HA2	21:C9:84:LYS:HB2	2.50	0.64
3:S1:72:ASP:OD1	28:D6:59:TYR:OH	2.15	0.64
1:2:649:U:O2'	1:2:650:U:O5'	2.11	0.64
66:O0:15:ALA:O	66:O0:18:ILE:HG22	1.98	0.64
1:2:1535:U:O2'	1:2:1536:G:N3	2.29	0.64
36:1:837:A:OP1	79:Q3:5:THR:OG1	2.14	0.64
1:2:1542:G:N2	1:2:1568:C:H1'	2.13	0.64
3:S1:119:THR:HB	3:S1:143:THR:HG23	1.79	0.64
3:S1:169:SER:O	3:S1:173:THR:HG23	2.43	0.64
1:2:1585:U:N3	1:2:1611:A:H2	1.94	0.64
36:1:3066:U:O4	87:1:4135:OHX:N5	2.30	0.64
11:S9:29:LYS:O	11:S9:33:GLU:HG2	5.07	0.64
36:1:1235:U:H4'	36:1:1236:G:H5'	1.80	0.64
44:L7:241:LYS:NZ	36:5:576:C:OP1	275.65	0.64
41:L4:191:LYS:HG3	41:L4:194:TYR:CZ	4.53	0.64
87:1:3968:OHX:N1	38:4:31:G:OP2	2.31	0.64
5:S3:94:ARG:NH2	35:SM:134:ASP:OD1	2.27	0.64
56:N0:23:LYS:O	56:N0:24:LEU:HB2	1.96	0.64
8:S6:63:MET:HE1	8:S6:106:LEU:HD13	2.38	0.64
24:D2:10:ALA:HB1	24:D2:27:ILE:HD12	1.78	0.64
5:S3:42:THR:OG1	5:S3:44:THR:O	6.09	0.64
51:M5:96:ARG:HG2	51:M5:96:ARG:HH11	1.62	0.64
54:M8:178:ARG:HD3	64:N8:50:PRO:HB2	2.63	0.64
87:1:4080:OHX:N1	72:O6:28:TYR:O	2.30	0.64
45:L8:78:PHE:O	45:L8:79:GLN:HB3	2.48	0.64
47:M0:73:ASN:O	47:M0:77:THR:HG23	1.97	0.64
36:1:2418:G:O6	87:1:4118:OHX:N1	2.31	0.64
36:5:409:A:OP2	87:5:4102:OHX:N3	2.31	0.64
56:N0:71:LYS:NZ	36:5:563:U:OP1	342.38	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2736:A:O2'	57:N1:68:THR:HG21	1.97	0.64
1:2:623:A:OP1	87:2:2156:OHX:N1	2.31	0.64
36:5:1717:U:H2'	36:5:1718:G:C8	2.33	0.64
54:M8:76:ALA:HA	54:M8:79:LYS:HD2	4.06	0.64
36:5:955:U:H2'	36:5:956:U:C6	2.33	0.64
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.80	0.64
87:6:2122:OHX:N6	87:6:2172:OHX:N5	2.45	0.64
61:N5:115:ARG:HD3	61:N5:121:LYS:HE2	2.92	0.64
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.31	0.64
5:S3:141:LYS:HB2	5:S3:144:ALA:HA	6.13	0.64
50:M4:92:GLU:OE2	50:M4:92:GLU:N	2.27	0.64
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.80	0.64
36:1:3214:U:H2'	50:M4:121:MET:HE3	1.80	0.64
36:1:1794:G:H4'	39:L2:191:LEU:HD13	1.80	0.64
1:6:1160:A:H2'	1:6:1161:C:C6	2.33	0.64
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.30	0.64
28:D6:5:ARG:NH2	1:6:1793:G:O2'	335.38	0.64
17:C5:119:PHE:HE1	20:C8:119:ILE:HG23	2.17	0.64
2:S0:90:ALA:HA	2:S0:95:ALA:HB3	1.92	0.64
36:1:2810:C:OP1	87:1:4082:OHX:N6	2.30	0.64
38:8:16:G:O6	87:8:215:OHX:N6	2.31	0.64
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.32	0.64
36:1:1674:G:OP2	87:1:3946:OHX:N2	2.31	0.64
36:1:1841:A:H2	75:O9:45:ARG:HH22	1.43	0.64
36:5:2264:U:OP2	87:5:3957:OHX:N4	2.30	0.64
2:S0:52:LYS:NZ	23:D1:82:VAL:O	2.29	0.64
40:L3:140:ASP:OD2	40:L3:141:GLY:N	4.20	0.64
1:2:197:A:H61	10:S8:138:ASN:ND2	1.96	0.64
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	2.30	0.64
2:S0:64:ILE:HG23	2:S0:73:VAL:HG11	2.23	0.64
24:D2:89:TRP:O	24:D2:93:LEU:HB2	5.29	0.64
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.30	0.64
36:1:3155:U:H3'	36:1:3156:U:H4'	1.80	0.64
1:6:1767:G:OP1	1:6:1770:U:H4'	1.98	0.64
11:S9:143:ILE:HG12	1:6:768:C:C2	418.03	0.64
46:L9:147:SER:HB2	46:L9:187:ILE:HD11	1.79	0.64
79:Q3:4:ARG:NH1	36:5:837:A:OP2	238.49	0.63
9:S7:55:LYS:HE2	9:S7:87:ASP:HA	2.26	0.63
58:N2:43:VAL:HG23	58:N2:49:ASN:HB3	2.29	0.63
27:D5:66:VAL:HA	27:D5:71:ILE:HG22	5.92	0.63
87:5:3943:OHX:N2	87:5:4233:OHX:N4	2.45	0.63
53:M7:67:ILE:HD12	53:M7:82:ARG:CZ	2.45	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1488:G:H3'	1:2:1515:A:H61	1.62	0.63
36:5:2568:C:N4	36:5:2574:G:O6	2.30	0.63
36:1:2534:G:H2'	36:1:2535:A:H8	1.63	0.63
36:5:1734:G:O6	87:5:3970:OHX:N5	2.31	0.63
36:5:2528:G:N7	87:5:4208:OHX:N3	2.45	0.63
52:M6:72:HIS:O	52:M6:74:ARG:NH1	2.31	0.63
12:C0:41:TYR:O	12:C0:45:ALA:N	2.79	0.63
1:2:116:U:H2'	1:2:117:U:C6	2.33	0.63
49:M3:58:VAL:HG13	36:5:75:G:H5''	88.50	0.63
20:C8:41:ARG:HD3	1:6:1565:C:OP1	369.70	0.63
7:S5:93:LEU:HD23	7:S5:172:ILE:HG23	2.85	0.63
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.80	0.63
65:N9:2:ALA:HB2	36:5:2818:U:H5''	211.50	0.63
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.81	0.63
87:5:3943:OHX:N1	87:5:4233:OHX:N4	2.46	0.63
62:N6:60:ARG:NH1	36:5:200:C:OP1	86.75	0.63
62:N6:55:GLU:HB2	62:N6:108:LYS:HB3	2.16	0.63
1:2:1490:C:H4'	1:2:1491:U:OP1	1.97	0.63
63:N7:88:ASP:O	63:N7:121:ARG:NH2	2.31	0.63
87:2:2035:OHX:N2	10:S8:17:LYS:O	2.31	0.63
52:M6:10:ASP:OD2	52:M6:37:ARG:NH2	2.86	0.63
36:1:1352:A:H4'	36:1:1353:U:OP1	1.96	0.63
52:M6:68:ARG:NH1	36:5:2988:C:OP1	218.21	0.63
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.81	0.63
87:5:3974:OHX:N3	87:5:4242:OHX:N5	2.46	0.63
9:S7:9:LEU:O	9:S7:10:SER:OG	4.22	0.63
52:M6:181:ALA:O	52:M6:183:ALA:N	2.32	0.63
1:6:1042:G:N2	1:6:1077:C:O2	2.31	0.63
70:O4:98:GLN:O	70:O4:102:LYS:N	3.05	0.63
7:S5:225:ARG:NH2	30:D8:58:GLU:HB2	5.97	0.63
14:C2:54:ARG:O	14:C2:56:GLU:N	2.27	0.63
1:6:754:A:N6	1:6:793:A:N7	2.41	0.63
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.80	0.63
78:Q2:99:GLN:OE1	78:Q2:102:GLN:NE2	2.30	0.63
36:5:3078:U:O2'	87:5:4195:OHX:N1	2.30	0.63
36:1:1170:A:OP2	87:1:3957:OHX:N5	2.32	0.63
62:N6:112:ASP:HB2	62:N6:115:ARG:H	1.64	0.63
17:C5:69:GLU:OE1	87:C5:201:OHX:N6	2.31	0.63
36:1:2248:C:OP2	87:1:3880:OHX:N3	2.31	0.63
36:1:3103:A:OP2	87:1:4167:OHX:N1	2.31	0.63
3:S1:76:SER:OG	3:S1:78:ASP:OD1	2.13	0.63
36:5:783:A:OP2	87:5:4193:OHX:N6	2.31	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3358:U:H2'	36:5:3359:A:C8	2.33	0.63
36:1:980:A:OP2	36:1:980:A:H8	1.81	0.63
87:6:2122:OHX:N6	87:6:2172:OHX:N3	2.46	0.63
87:5:4021:OHX:N5	87:5:4216:OHX:N2	2.46	0.63
54:M8:170:ARG:O	54:M8:171:LYS:HB2	3.20	0.63
47:M0:174:THR:CG2	47:M0:176:LEU:H	2.11	0.63
41:L4:338:LYS:O	41:L4:340:GLY:N	2.32	0.63
53:M7:26:PHE:HE1	53:M7:120:ASN:HA	1.90	0.63
36:5:1650:G:N7	87:5:4181:OHX:N3	2.47	0.63
36:1:1355:A:H5''	36:1:1356:U:H5	1.63	0.63
41:L4:98:ARG:HD2	41:L4:99:MET:O	1.97	0.63
36:5:3276:G:OP2	36:5:3276:G:H2'	1.98	0.63
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.63	0.63
42:L5:34:LYS:HA	57:N1:27:LEU:HD11	2.50	0.63
87:5:4021:OHX:N6	87:5:4216:OHX:N2	2.46	0.63
1:6:158:U:O2'	1:6:159:U:H3'	1.99	0.63
42:L5:22:ARG:NH2	42:L5:28:THR:OG1	2.32	0.63
35:SM:79:SER:OG	35:SM:79:SER:O	3.90	0.63
3:S1:103:MET:HB3	3:S1:215:VAL:HG13	2.04	0.63
36:1:1454:A:H5''	36:1:1455:U:H5'	1.81	0.63
1:6:151:G:H22	1:6:163:G:N2	1.96	0.63
1:6:755:A:H2'	1:6:756:A:C8	2.33	0.63
27:D5:49:ARG:O	27:D5:53:GLU:HB2	2.17	0.63
53:M7:24:VAL:HG13	53:M7:86:LYS:HG2	1.80	0.63
4:S2:166:THR:HG23	4:S2:201:ASN:HB3	2.56	0.63
39:L2:79:ASN:O	39:L2:82:VAL:HG13	1.98	0.63
36:1:1938:U:O4	87:1:3912:OHX:N2	2.32	0.63
87:6:2122:OHX:N2	87:6:2172:OHX:N1	2.46	0.63
71:O5:78:LYS:HA	71:O5:81:ARG:HD3	2.46	0.63
1:6:151:G:N2	1:6:163:G:N2	2.47	0.63
1:2:829:A:O2'	1:2:830:U:OP2	2.12	0.63
73:O7:28:HIS:CG	73:O7:31:LYS:HG3	3.29	0.63
1:6:320:U:H2'	1:6:321:C:C2	2.34	0.63
6:S4:246:LEU:HD21	6:S4:254:ARG:CZ	2.28	0.63
79:Q3:56:THR:HB	79:Q3:63:THR:OG1	2.89	0.63
11:S9:138:LYS:HE2	26:D4:67:GLY:HA3	1.81	0.63
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.56	0.63
1:6:729:G:O2'	1:6:730:G:O5'	2.15	0.63
36:1:2827:U:O4	87:1:3866:OHX:N3	2.32	0.63
40:L3:299:ASP:OD1	40:L3:301:THR:HG23	2.07	0.63
36:5:595:G:H1	36:5:609:G:H5''	1.63	0.63
51:M5:190:THR:O	51:M5:194:GLN:HG2	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1814:A:OP1	87:1:4090:OHX:N2	2.32	0.62
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.81	0.62
1:6:542:A:C8	1:6:543:C:H5'	2.32	0.62
2:S0:167:LYS:HB3	2:S0:168:HIS:CD2	2.54	0.62
1:6:218:A:H2'	1:6:219:A:H5''	1.81	0.62
52:M6:121:PRO:HA	52:M6:124:LEU:HD22	2.19	0.62
10:S8:26:LYS:O	10:S8:29:LEU:HB3	1.99	0.62
21:C9:28:LEU:O	21:C9:29:GLU:HB2	2.34	0.62
36:1:2157:G:O6	39:L2:152:SER:HB3	1.98	0.62
2:S0:198:MET:SD	19:C7:85:VAL:HG11	2.38	0.62
37:3:28:C:H1'	37:3:55:A:H61	1.63	0.62
17:C5:68:PRO:O	87:C5:201:OHX:N1	6.52	0.62
36:1:1581:C:O2	36:1:1582:C:H5'	1.99	0.62
87:5:4021:OHX:N6	87:5:4216:OHX:N4	2.47	0.62
48:M1:137:ARG:NH2	37:7:44:C:OP2	296.69	0.62
4:S2:206:THR:HG21	1:6:14:C:OP2	376.43	0.62
36:1:3346:U:H3	36:1:3359:A:H61	1.46	0.62
11:S9:143:ILE:HG22	11:S9:145:SER:H	1.64	0.62
26:D4:47:VAL:HG23	26:D4:48:TYR:HD2	1.64	0.62
71:O5:118:ILE:O	71:O5:119:LYS:HB2	1.99	0.62
28:D6:84:VAL:O	28:D6:86:VAL:N	2.31	0.62
11:S9:3:ARG:HB2	11:S9:3:ARG:HH21	3.77	0.62
40:L3:77:THR:HG23	40:L3:326:GLY:O	1.99	0.62
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.81	0.62
37:3:60:G:H2'	37:3:61:G:C8	2.34	0.62
36:1:3174:A:H2'	36:1:3175:U:H5'	1.82	0.62
1:6:1799:U:H4'	1:6:1800:A:H2'	1.81	0.62
36:1:3087:A:P	87:1:4181:OHX:N5	2.71	0.62
36:5:2573:G:N7	87:5:4194:OHX:N6	2.46	0.62
1:2:647:G:N2	1:2:687:G:H22	1.96	0.62
58:N2:19:VAL:HG12	58:N2:105:LEU:HD22	2.60	0.62
22:D0:69:LYS:HE2	22:D0:80:GLU:HB2	1.81	0.62
53:M7:36:ILE:HD11	53:M7:95:LEU:HD11	1.80	0.62
5:S3:7:LYS:HE3	22:D0:27:THR:HG21	2.71	0.62
3:S1:51:SER:HA	3:S1:57:ALA:H	1.65	0.62
19:C7:105:GLN:O	19:C7:109:LEU:N	2.67	0.62
49:M3:27:ASP:HB2	49:M3:31:LYS:HG3	3.35	0.62
15:C3:55:ARG:HD3	29:D7:47:PHE:CD1	2.59	0.62
1:6:546:U:H2'	1:6:547:U:C6	2.35	0.62
1:2:66:U:C5	8:S6:173:PRO:HG3	2.34	0.62
41:L4:140:HIS:NE2	41:L4:246:ARG:HG2	3.65	0.62
1:2:919:A:H5'	16:C4:18:ARG:HH12	1.64	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1614:C:H2'	36:5:1615:C:H6	1.65	0.62
36:1:2518:C:OP1	87:1:4208:OHX:N5	2.32	0.62
40:L3:43:LEU:HD22	40:L3:203:VAL:HG11	1.81	0.62
1:6:1645:G:OP2	87:6:2184:OHX:N3	2.32	0.62
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.81	0.62
36:5:1688:U:H2'	36:5:1689:U:C6	2.35	0.62
36:1:2767:U:O2'	78:Q2:30:ALA:O	2.18	0.62
25:D3:23:ARG:HD2	25:D3:26:GLU:OE1	2.64	0.62
1:2:1424:A:H1'	4:S2:92:ALA:HB1	1.81	0.62
59:N3:81:GLN:O	59:N3:98:ASN:ND2	2.32	0.62
3:S1:110:LEU:HD11	3:S1:213:ARG:HD2	1.81	0.62
42:L5:294:ALA:O	42:L5:296:GLN:N	2.29	0.62
58:N2:82:LYS:NZ	36:5:1686:U:O4	163.43	0.62
58:N2:31:ALA:O	58:N2:33:TYR:N	2.33	0.62
77:Q1:6:ARG:O	77:Q1:10:THR:HG23	2.05	0.62
55:M9:74:ARG:NH1	36:5:1942:U:OP2	209.91	0.62
1:2:1796:C:OP2	28:D6:5:ARG:NH1	2.31	0.62
1:2:1595:U:N3	1:2:1600:A:H2	1.94	0.62
36:1:1724:U:OP2	55:M9:128:LYS:NZ	2.33	0.62
52:M6:65:ASN:OD1	52:M6:67:THR:HB	1.99	0.62
1:2:1650:U:H2'	1:2:1651:A:C8	2.35	0.62
36:5:2822:U:OP2	87:5:3954:OHX:N1	2.33	0.62
1:6:500:C:O2'	1:6:501:U:O4'	2.18	0.62
36:5:1152:G:H22	36:5:1200:A:H61	1.47	0.62
67:O1:13:THR:HG22	67:O1:72:ARG:HD3	1.79	0.62
40:L3:247:ARG:HD3	36:5:1888:U:OP1	210.82	0.62
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.51	0.62
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.32	0.62
41:L4:141:ARG:O	41:L4:144:LYS:NZ	10.04	0.62
36:1:1688:U:H2'	36:1:1689:U:C6	2.35	0.62
29:D7:29:ARG:NH1	29:D7:29:ARG:HG3	2.14	0.62
36:1:1119:C:OP2	87:1:3953:OHX:N1	2.32	0.62
46:L9:113:GLU:OE1	46:L9:115:ARG:NE	2.82	0.62
36:5:3136:G:OP2	87:5:4106:OHX:N3	2.33	0.62
47:M0:156:ARG:HG2	47:M0:163:GLN:HG2	2.12	0.62
62:N6:37:LYS:H	62:N6:37:LYS:HD3	1.65	0.62
54:M8:185:LYS:NZ	36:5:779:G:OP1	180.19	0.62
22:D0:60:THR:HG22	1:6:1382:A:H5''	437.66	0.62
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.00	0.62
41:L4:150:LEU:HD12	41:L4:249:ILE:HG12	1.82	0.62
42:L5:148:ILE:HG23	42:L5:151:GLN:HB3	2.73	0.62
36:1:1310:G:O6	87:1:4027:OHX:N1	2.32	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:739:G:O6	87:5:3967:OHX:N6	2.33	0.62
66:O0:27:TYR:OH	66:O0:55:GLU:OE1	2.40	0.62
36:1:1345:G:N2	41:L4:307:GLN:OE1	2.31	0.62
52:M6:182:ASN:OD1	52:M6:186:ALA:HB2	6.64	0.62
13:C1:75:VAL:HG12	13:C1:119:VAL:HA	2.02	0.62
36:5:2537:U:O2'	36:5:2538:U:O4'	2.15	0.62
53:M7:29:THR:HG22	53:M7:87:SER:OG	1.99	0.62
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.81	0.62
8:S6:67:VAL:HG23	8:S6:68:LEU:O	2.21	0.62
62:N6:37:LYS:H	62:N6:37:LYS:CD	2.12	0.62
68:O2:91:THR:HG22	68:O2:92:TYR:CD2	2.34	0.62
44:L7:102:VAL:HG12	44:L7:130:ILE:HD12	4.33	0.62
36:5:23:A:OP1	87:5:3907:OHX:N4	2.33	0.62
36:1:1798:A:H2'	36:1:1799:A:C8	2.35	0.62
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.24	0.62
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	2.19	0.62
1:2:477:A:H61	1:2:511:A:H61	1.46	0.62
45:L8:181:LYS:HD3	38:8:154:C:H5''	150.24	0.62
5:S3:70:THR:HG22	5:S3:86:LEU:HB2	3.39	0.62
1:6:1305:U:OP2	1:6:1306:C:N4	2.26	0.62
36:5:776:U:H5	36:5:2719:U:O2	1.83	0.62
36:5:1235:U:H4'	36:5:1236:G:H5'	1.81	0.62
40:L3:345:ASN:OD1	40:L3:347:SER:HB2	2.00	0.61
53:M7:105:LYS:HB3	53:M7:107:LEU:HD13	2.11	0.61
33:E1:109:ASP:HB2	33:E1:113:LYS:HD2	3.07	0.61
14:C2:81:ASP:O	14:C2:83:GLU:N	2.60	0.61
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.81	0.61
2:S0:112:THR:HG22	2:S0:115:PHE:HB2	2.42	0.61
25:D3:27:ASN:OD1	25:D3:31:LYS:NZ	2.33	0.61
87:1:3957:OHX:N3	44:L7:217:PRO:O	2.32	0.61
53:M7:62:ARG:NH1	36:5:412:G:OP1	160.26	0.61
59:N3:10:LYS:NZ	59:N3:53:SER:OG	2.57	0.61
41:L4:126:ILE:HD11	41:L4:233:LEU:HD13	2.92	0.61
36:5:2569:A:H4'	36:5:2570:U:H5'	1.82	0.61
36:1:3169:U:H2'	36:1:3170:A:O4'	2.00	0.61
36:1:2592:G:H4'	36:1:2594:C:C2	2.35	0.61
36:1:2617:U:H5	36:1:2621:G:OP2	1.81	0.61
1:2:176:C:OP1	87:2:2072:OHX:N3	2.32	0.61
1:6:770:A:OP2	87:6:2139:OHX:N3	2.33	0.61
1:6:1171:A:H2'	1:6:1172:G:C8	2.35	0.61
9:S7:150:GLN:HB3	9:S7:181:ILE:HD12	1.82	0.61
36:5:129:U:O4	87:5:3933:OHX:N4	2.34	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3263:G:O6	87:5:4120:OHX:N2	2.33	0.61
20:C8:135:GLY:HA3	1:6:1559:A:H5''	366.61	0.61
7:S5:37:GLN:OE1	18:C6:53:LEU:HD22	2.07	0.61
36:5:1170:A:OP2	87:5:4003:OHX:N4	2.33	0.61
31:D9:19:ARG:HD2	31:D9:32:ARG:HD2	2.07	0.61
1:2:1041:G:OP1	87:2:2148:OHX:N5	2.33	0.61
11:S9:163:PRO:O	11:S9:165:GLY:N	2.32	0.61
20:C8:120:ARG:HD2	35:SM:58:GLU:OE1	2.53	0.61
1:6:1542:G:N2	1:6:1568:C:H1'	2.16	0.61
5:S3:70:THR:HG23	5:S3:86:LEU:HD22	1.82	0.61
36:5:2960:C:OP1	87:5:3973:OHX:N5	2.33	0.61
36:5:1802:C:H2'	36:5:1803:C:C6	2.35	0.61
13:C1:6:THR:O	13:C1:8:GLN:N	2.31	0.61
55:M9:101:VAL:O	55:M9:104:ARG:NH1	2.32	0.61
62:N6:111:LEU:HD23	62:N6:116:LYS:HG3	1.83	0.61
17:C5:33:PHE:O	17:C5:36:LEU:HD22	4.07	0.61
40:L3:103:THR:HG21	40:L3:147:GLU:OE2	2.08	0.61
41:L4:20:LEU:HD11	41:L4:252:GLU:HG3	1.99	0.61
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.01	0.61
1:2:1783:C:H2'	1:2:1784:C:H6	1.66	0.61
87:5:3943:OHX:N2	87:5:4233:OHX:N6	2.49	0.61
53:M7:125:GLN:HB2	53:M7:141:SER:HB2	1.89	0.61
6:S4:179:LYS:N	6:S4:194:THR:O	2.33	0.61
64:N8:22:ILE:HD12	36:5:1114:U:H5''	192.18	0.61
8:S6:10:ASN:HB3	8:S6:128:THR:HA	3.06	0.61
36:5:3035:A:OP2	87:5:4052:OHX:N5	2.33	0.61
1:6:1350:U:H2'	1:6:1351:G:C8	2.35	0.61
21:C9:52:GLY:O	21:C9:54:PHE:N	2.29	0.61
36:1:1577:G:H2'	36:1:1578:C:O4'	1.99	0.61
28:D6:10:ARG:NE	1:6:1795:U:O2	329.06	0.61
36:1:1064:A:H4'	36:1:1065:A:O5'	1.99	0.61
8:S6:153:VAL:O	8:S6:155:ASP:N	2.33	0.61
45:L8:161:GLU:HA	45:L8:164:VAL:HG22	2.03	0.61
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.82	0.61
1:6:138:A:N6	1:6:266:A:H61	1.98	0.61
11:S9:17:ARG:O	11:S9:23:ARG:NH2	2.34	0.61
1:2:1483:A:H2'	1:2:1484:G:C8	2.35	0.61
1:6:880:C:OP2	87:6:2110:OHX:N2	2.34	0.61
42:L5:285:ARG:NH1	37:7:62:U:O3'	341.75	0.61
36:1:2371:G:O6	87:1:3871:OHX:N3	2.33	0.61
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	2.25	0.61
1:2:1274:C:C5	35:SM:95:SER:HA	2.35	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1556:C:H2'	36:1:2169:G:H1	1.65	0.61
6:S4:104:ASP:HB2	6:S4:108:ARG:H	1.66	0.61
36:1:291:C:OP2	51:M5:128:LYS:NZ	2.34	0.61
36:5:3241:G:H2'	36:5:3245:A:H8	1.66	0.61
51:M5:8:GLU:HG3	51:M5:50:ARG:HH12	4.68	0.61
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.24	0.61
1:2:625:C:H2'	1:2:626:U:C6	2.35	0.61
57:N1:129:LYS:HB2	36:5:1098:A:O5'	253.68	0.61
66:O0:34:LEU:HD23	66:O0:59:TYR:HB3	1.80	0.61
36:1:431:U:OP1	69:O3:65:ARG:NH1	2.31	0.61
6:S4:3:ARG:HB3	1:6:93:A:H1'	326.61	0.61
1:6:363:G:OP1	87:6:2113:OHX:N1	2.33	0.61
1:6:489:C:O2'	1:6:490:C:O4'	2.18	0.61
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.65	0.61
36:1:1171:G:O6	87:1:3957:OHX:N2	2.34	0.61
36:1:437:G:H2'	36:1:438:A:C8	2.35	0.61
36:5:438:A:H2'	36:5:494:G:H21	1.66	0.61
2:S0:136:ALA:HB1	2:S0:141:ILE:HB	1.82	0.61
36:5:2549:G:C8	36:5:2549:G:H5'	2.35	0.61
42:L5:106:ALA:O	42:L5:110:LEU:HB2	2.01	0.61
54:M8:178:ARG:CD	64:N8:50:PRO:HB2	3.13	0.61
36:1:2947:G:H4'	36:1:2947:G:OP2	2.00	0.61
45:L8:101:THR:HG22	45:L8:104:GLU:H	1.65	0.61
3:S1:178:GLY:O	3:S1:179:SER:HB2	4.71	0.61
1:2:761:G:OP1	11:S9:54:ARG:NH1	2.30	0.61
6:S4:251:GLU:O	6:S4:255:ARG:HG2	4.03	0.61
36:5:1919:G:N7	87:5:4073:OHX:N4	2.48	0.61
36:1:1631:C:H5''	36:1:1632:A:H5''	1.81	0.61
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.35	0.61
36:1:223:U:O4	87:1:4196:OHX:N5	2.34	0.61
87:6:2122:OHX:N2	87:6:2172:OHX:N5	2.49	0.61
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.33	0.61
54:M8:185:LYS:HD3	54:M8:186:VAL:HG23	1.83	0.61
36:5:3049:A:C8	36:5:3049:A:H5'	2.33	0.61
87:5:4021:OHX:N3	87:5:4216:OHX:N1	2.49	0.61
42:L5:268:GLU:O	42:L5:270:LYS:N	3.73	0.61
42:L5:269:SER:OG	37:7:1:G:N2	317.02	0.61
3:S1:70:LEU:HA	3:S1:73:LEU:HG	1.82	0.61
1:6:822:U:H2'	1:6:823:G:H5''	1.83	0.61
36:1:2767:U:OP2	87:1:4133:OHX:N2	2.34	0.61
1:2:5:U:H2'	1:2:6:G:H8	1.65	0.61
1:2:1207:C:H4'	1:2:1208:A:O5'	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:295:SER:HB2	34:SR:300:THR:HB	1.82	0.61
34:SR:123:ILE:HG22	34:SR:133:VAL:HG22	2.15	0.61
20:C8:142:GLY:O	20:C8:145:ARG:HD2	2.01	0.61
36:1:2514:U:OP2	36:1:2586:G:N2	2.33	0.61
50:M4:20:VAL:HG22	50:M4:68:LEU:HB2	1.83	0.61
5:S3:222:VAL:HG11	34:SR:229:LYS:HA	2.47	0.61
52:M6:110:PRO:O	52:M6:111:PRO:C	3.75	0.61
11:S9:82:ARG:HH11	11:S9:149:ARG:HD2	5.97	0.61
36:1:2818:U:C6	36:1:2818:U:H5'	2.33	0.61
1:6:542:A:H1'	1:6:543:C:H5'	1.83	0.61
16:C4:131:GLY:O	16:C4:133:ARG:N	3.25	0.61
36:1:2278:C:OP1	87:1:3956:OHX:N3	2.34	0.61
27:D5:55:PRO:HG3	27:D5:88:ILE:HG23	6.64	0.61
10:S8:10:LYS:HG2	13:C1:133:LYS:HE3	2.01	0.61
25:D3:12:ALA:O	25:D3:16:ARG:HG3	1.99	0.61
13:C1:59:PRO:HG2	13:C1:60:PHE:CE2	2.36	0.61
27:D5:59:TYR:HD2	27:D5:60:VAL:N	1.98	0.61
46:L9:90:MET:O	46:L9:91:ARG:HD2	2.94	0.61
9:S7:164:TYR:CE1	9:S7:165:LYS:HG3	4.18	0.61
34:SR:246:SER:HB3	34:SR:251:TRP:HB2	3.43	0.61
1:2:1410:A:H5''	18:C6:118:ILE:HD13	1.82	0.61
34:SR:89:LEU:HD22	34:SR:113:VAL:HG23	1.83	0.61
36:5:1765:U:H4'	36:5:1765:U:OP1	2.01	0.61
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.83	0.61
59:N3:15:LEU:HD23	59:N3:53:SER:HB3	1.82	0.61
45:L8:33:ASN:HA	36:5:2549:G:N2	211.62	0.61
57:N1:17:ARG:O	57:N1:18:ASP:HB2	2.01	0.61
78:Q2:3:ASN:HB2	78:Q2:92:GLU:HG3	1.83	0.61
17:C5:77:ARG:NH1	1:6:1241:G:OP2	384.79	0.61
36:1:1636:U:H5''	63:N7:73:LYS:NZ	2.16	0.61
36:1:1618:G:H4'	38:4:129:C:H1'	1.82	0.61
56:N0:166:LYS:O	56:N0:167:ARG:HB2	2.01	0.61
10:S8:52:ASN:OD1	87:6:2137:OHX:N3	310.74	0.61
36:1:299:G:N7	87:1:4080:OHX:N2	2.48	0.60
1:2:701:U:H3	1:2:737:A:H61	1.47	0.60
39:L2:204:MET:HE3	39:L2:209:HIS:HB2	1.82	0.60
1:2:885:G:H21	16:C4:123:SER:HB2	1.66	0.60
36:5:528:U:H2'	36:5:529:A:H8	1.65	0.60
10:S8:39:GLY:N	10:S8:60:ILE:O	2.29	0.60
71:O5:59:ASN:O	71:O5:63:ARG:HG2	3.99	0.60
33:E1:90:LYS:HB2	33:E1:93:HIS:CE1	11.90	0.60
66:O0:45:ALA:O	66:O0:48:THR:HG23	5.24	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.82	0.60
36:5:1093:A:H4'	36:5:1093:A:OP1	2.01	0.60
1:2:458:G:OP2	26:D4:105:ARG:NH2	2.34	0.60
1:6:825:U:O2'	1:6:826:U:OP2	2.14	0.60
87:5:3979:OHX:N2	87:5:4198:OHX:N1	2.49	0.60
87:5:3979:OHX:N4	87:5:4198:OHX:N3	2.49	0.60
36:1:13:A:H8	36:1:13:A:H5''	1.65	0.60
54:M8:34:THR:HG22	54:M8:49:LEU:HD21	1.83	0.60
66:O0:13:LYS:HB3	66:O0:100:ILE:HG22	2.66	0.60
36:5:3155:U:OP1	87:5:4225:OHX:N4	2.34	0.60
47:M0:210:ILE:HA	47:M0:217:PHE:HE2	1.67	0.60
29:D7:49:HIS:CD2	1:6:958:U:H5'	343.33	0.60
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.34	0.60
36:1:1286:A:N3	36:1:1287:A:H1'	2.17	0.60
72:O6:2:THR:OG1	72:O6:3:VAL:N	2.35	0.60
1:2:326:G:OP1	13:C1:57:LYS:NZ	2.33	0.60
1:2:1358:G:H2'	1:2:1359:C:C6	2.36	0.60
1:6:140:A:N6	1:6:281:G:OP1	2.34	0.60
87:6:2122:OHX:N4	87:6:2172:OHX:N3	2.49	0.60
1:2:1339:C:O2'	1:2:1340:U:OP1	2.19	0.60
36:5:1564:U:H2'	36:5:1565:G:C8	2.36	0.60
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.35	0.60
1:2:1046:G:OP1	3:S1:157:GLN:NE2	2.31	0.60
52:M6:65:ASN:ND2	36:5:2988:C:OP1	221.05	0.60
1:2:127:G:N7	8:S6:202:ARG:NH2	2.49	0.60
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.38	0.60
10:S8:16:ALA:HB2	1:6:354:C:H5''	298.18	0.60
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.01	0.60
36:5:1754:G:OP1	87:5:4077:OHX:N1	2.34	0.60
36:1:3151:U:OP2	40:L3:132:LYS:NZ	2.31	0.60
36:1:3152:U:O2	87:1:4144:OHX:N4	2.34	0.60
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.29	0.60
11:S9:171:ARG:HE	11:S9:174:ARG:HB2	4.69	0.60
1:6:1492:A:O2'	1:6:1493:A:H8	1.74	0.60
17:C5:69:GLU:OE1	87:C5:201:OHX:N4	2.34	0.60
48:M1:21:ILE:HG22	48:M1:23:VAL:HG22	1.82	0.60
26:D4:47:VAL:HG23	26:D4:48:TYR:CD2	2.37	0.60
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.83	0.60
1:6:1057:U:O2'	1:6:1059:U:OP1	2.19	0.60
36:1:2563:G:H5''	45:L8:27:THR:HG23	1.84	0.60
36:5:1815:U:O2'	36:5:1816:A:OP2	2.18	0.60
61:N5:38:LEU:HD11	61:N5:40:LEU:HD13	1.84	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:377:G:O6	87:2:2077:OHX:N5	2.33	0.60
7:S5:89:ILE:HD12	7:S5:90:ILE:H	1.92	0.60
41:L4:138:ARG:HB3	41:L4:138:ARG:HH11	3.57	0.60
1:6:513:U:H2'	1:6:514:G:C8	2.36	0.60
4:S2:90:THR:HG23	4:S2:92:ALA:H	1.65	0.60
34:SR:112:SER:OG	34:SR:153:GLN:NE2	2.34	0.60
26:D4:44:LEU:HA	26:D4:47:VAL:HG13	3.59	0.60
44:L7:40:LYS:HE2	44:L7:170:GLU:OE1	4.07	0.60
18:C6:93:HIS:ND1	18:C6:101:SER:OG	2.27	0.60
36:1:1919:G:N7	87:1:4013:OHX:N5	2.49	0.60
1:6:417:A:H4'	1:6:418:G:O5'	2.01	0.60
41:L4:16:THR:HG23	41:L4:18:ASN:H	2.34	0.60
1:6:1672:G:H2'	1:6:1673:G:C8	2.37	0.60
45:L8:193:LYS:HB3	36:5:7:C:H5''	122.63	0.60
36:5:436:A:H61	36:5:623:U:H3	1.47	0.60
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.66	0.60
78:Q2:46:LYS:HD3	78:Q2:54:THR:HB	2.31	0.60
36:5:3358:U:H2'	36:5:3359:A:H8	1.64	0.60
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.60	0.60
36:1:2897:A:H2'	36:1:2899:C:H5''	1.82	0.60
13:C1:33:ARG:NH1	13:C1:53:TYR:O	3.31	0.60
38:8:157:U:H2'	38:8:158:U:C6	2.37	0.60
1:6:918:U:H2'	1:6:919:A:H8	1.66	0.60
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.29	0.60
28:D6:10:ARG:NH1	28:D6:36:ILE:HG13	2.89	0.60
56:N0:12:ARG:HD2	56:N0:22:PRO:HG2	4.09	0.60
7:S5:152:GLY:O	7:S5:154:ALA:N	2.35	0.60
51:M5:38:ARG:NH2	38:8:143:U:OP1	109.05	0.60
7:S5:73:THR:HG23	18:C6:114:ARG:HG3	1.83	0.60
1:2:1479:A:OP1	21:C9:57:ARG:NH1	2.34	0.60
19:C7:27:ASP:OD2	19:C7:30:THR:HG22	2.02	0.60
58:N2:42:LYS:HG2	58:N2:46:ALA:HA	3.20	0.60
1:6:1756:A:O5'	1:6:1756:A:H8	1.85	0.60
1:2:1207:C:H42	1:2:1456:C:H5	1.49	0.60
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.16	0.60
71:O5:31:LEU:O	71:O5:35:LYS:N	2.73	0.60
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.83	0.60
47:M0:201:SER:OG	47:M0:203:LYS:HD2	2.01	0.60
36:1:3224:G:O6	87:1:3891:OHX:N4	2.35	0.60
36:5:2705:A:OP2	87:5:3900:OHX:N2	2.35	0.60
36:1:2404:A:N3	36:1:2404:A:H2'	2.17	0.60
36:1:1035:G:H3'	36:1:1036:A:H8	1.66	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:C6:115:THR:O	18:C6:117:LEU:N	3.36	0.60
87:2:2089:OHX:N3	87:2:2130:OHX:N6	2.49	0.60
34:SR:211:ILE:HG22	34:SR:223:TRP:HD1	1.67	0.60
1:2:65:A:OP1	8:S6:176:GLN:NE2	2.32	0.60
17:C5:111:MET:HG2	20:C8:119:ILE:CG1	5.10	0.60
2:S0:41:ARG:HE	2:S0:45:VAL:HB	1.65	0.60
36:5:1025:A:H3'	36:5:1026:A:H4'	1.82	0.60
52:M6:10:ASP:CG	52:M6:37:ARG:HH21	2.62	0.60
62:N6:116:LYS:HG2	62:N6:126:LEU:HD22	1.84	0.60
34:SR:95:ALA:O	34:SR:96:THR:HB	3.36	0.60
66:O0:99:ASP:N	66:O0:99:ASP:OD2	2.81	0.60
50:M4:59:ASN:O	50:M4:62:GLN:HG2	4.90	0.60
59:N3:74:MET:HG3	59:N3:102:ILE:HD13	1.84	0.60
78:Q2:74:CYS:CB	78:Q2:77:CYS:SG	3.23	0.60
11:S9:134:ILE:HD13	11:S9:141:VAL:O	3.17	0.60
36:1:595:G:H1	36:1:609:G:H5''	1.67	0.60
79:Q3:2:ALA:HB2	36:5:853:G:N7	251.11	0.60
1:2:1291:G:N2	1:2:1324:G:N2	2.49	0.59
2:S0:188:LEU:HD12	2:S0:189:VAL:HG12	1.84	0.59
36:5:3165:A:H61	36:5:3285:C:H42	1.50	0.59
65:N9:16:ALA:O	65:N9:20:GLY:HA3	4.35	0.59
75:O9:44:TRP:CZ3	75:O9:45:ARG:HG3	2.36	0.59
36:1:2415:C:OP1	39:L2:2:GLY:HA2	2.02	0.59
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.02	0.59
49:M3:174:ARG:HB2	72:O6:9:ILE:HD12	1.83	0.59
5:S3:176:LEU:HA	5:S3:181:VAL:HG12	3.50	0.59
36:5:1875:G:H2'	36:5:1876:U:H5''	1.84	0.59
12:C0:87:VAL:O	12:C0:89:ALA:N	5.03	0.59
36:5:2211:U:O4	87:5:3963:OHX:N4	2.35	0.59
87:5:4021:OHX:N5	87:5:4216:OHX:N1	2.49	0.59
11:S9:133:HIS:NE2	1:6:513:U:OP1	447.70	0.59
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.67	0.59
36:5:600:G:N2	36:5:603:A:OP2	2.34	0.59
36:1:2510:U:O2'	36:1:2511:A:OP2	2.18	0.59
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	2.03	0.59
1:2:61:A:H8	1:2:269:G:HO2'	1.48	0.59
54:M8:182:LYS:NZ	64:N8:55:LYS:O	2.60	0.59
5:S3:40:ARG:HG3	22:D0:110:PRO:HB3	3.47	0.59
6:S4:181:VAL:HG11	6:S4:225:VAL:HG13	2.09	0.59
36:5:2683:U:H2'	36:5:2684:C:C6	2.37	0.59
22:D0:48:HIS:O	22:D0:48:HIS:ND1	2.35	0.59
52:M6:78:ARG:HH11	52:M6:78:ARG:HB3	1.67	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:M4:55:ARG:HD3	56:N0:70:THR:OG1	2.10	0.59
1:6:190:C:N4	1:6:196:G:O6	2.35	0.59
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.36	0.59
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.66	0.59
1:2:887:A:H1'	16:C4:122:PRO:HB3	1.85	0.59
55:M9:115:ILE:HD11	55:M9:123:LEU:HD12	1.84	0.59
40:L3:46:PHE:CE2	40:L3:205:VAL:HG13	2.98	0.59
36:5:2308:C:O2	87:5:4239:OHX:N1	2.35	0.59
67:O1:19:ARG:HB3	67:O1:35:GLU:HG2	1.84	0.59
36:5:1560:G:O2'	36:5:1561:G:OP1	2.19	0.59
36:5:2818:U:C6	36:5:2818:U:H5'	2.32	0.59
41:L4:271:LYS:HB2	41:L4:274:TYR:HB3	2.08	0.59
36:1:2233:A:OP2	87:1:4043:OHX:N5	2.36	0.59
1:2:68:A:H5'	8:S6:160:ARG:HH12	1.68	0.59
63:N7:2:ALA:O	63:N7:4:PHE:N	2.35	0.59
36:5:1716:U:H5'	36:5:1716:U:H6	1.68	0.59
50:M4:92:GLU:CD	50:M4:92:GLU:H	2.05	0.59
39:L2:52:SER:HB3	39:L2:191:LEU:HD22	1.85	0.59
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	1.83	0.59
46:L9:136:PHE:CE1	46:L9:144:ILE:HG12	5.01	0.59
1:6:404:G:H2'	1:6:405:C:C6	2.37	0.59
46:L9:93:VAL:HG22	76:Q0:82:LEU:HD13	2.71	0.59
36:5:543:C:H42	36:5:548:G:H1	1.48	0.59
48:M1:52:TYR:HA	48:M1:61:ARG:HG3	1.83	0.59
57:N1:39:ILE:HG13	57:N1:102:ARG:HD2	5.51	0.59
1:2:1160:A:H2'	1:2:1161:C:C6	2.38	0.59
42:L5:85:ARG:HH12	42:L5:254:LYS:H	2.95	0.59
23:D1:9:VAL:HG22	23:D1:10:GLU:H	2.39	0.59
87:2:2030:OHX:N3	87:2:2145:OHX:N1	2.50	0.59
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.67	0.59
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	1.84	0.59
1:6:315:A:O2'	87:6:2161:OHX:N1	2.35	0.59
61:N5:136:ALA:HB1	61:N5:141:TYR:CE1	2.37	0.59
33:E1:127:GLY:O	33:E1:129:GLY:N	2.34	0.59
5:S3:72:LEU:HG	12:C0:20:VAL:HG21	2.68	0.59
11:S9:65:LYS:HA	11:S9:70:LEU:HD11	2.30	0.59
12:C0:1:MET:HG2	12:C0:2:LEU:H	1.66	0.59
36:1:3228:C:O2'	36:1:3229:G:OP2	2.20	0.59
21:C9:57:ARG:HH11	21:C9:57:ARG:CG	2.15	0.59
1:2:66:U:H5	8:S6:173:PRO:HG3	1.67	0.59
49:M3:89:TYR:CE1	49:M3:93:ILE:HD11	3.96	0.59
36:1:2854:U:P	47:M0:3:ARG:HH22	2.25	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:187:LEU:HD21	4:S2:218:ILE:HD11	3.74	0.59
1:2:637:C:O2	9:S7:114:ARG:NH2	2.34	0.59
1:6:1699:G:C2	1:6:1701:A:H5''	2.37	0.59
14:C2:89:ILE:HD13	14:C2:90:LYS:H	1.67	0.59
5:S3:22:ASN:OD1	5:S3:34:TYR:OH	2.14	0.59
36:1:409:A:OP2	87:1:4056:OHX:N5	2.36	0.59
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	2.21	0.59
16:C4:107:ARG:HH21	16:C4:107:ARG:HB2	4.29	0.59
36:5:1804:A:H2'	36:5:1805:C:C6	2.38	0.59
36:1:516:A:O3'	44:L7:60:ARG:NH2	2.35	0.59
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.84	0.59
1:6:74:U:H5''	1:6:75:U:OP2	2.02	0.59
36:5:239:G:N7	87:5:4132:OHX:N5	2.50	0.59
33:E1:96:LYS:O	33:E1:97:LYS:HB3	2.34	0.59
10:S8:76:THR:HG21	10:S8:105:ASP:O	5.39	0.59
11:S9:41:GLU:OE2	11:S9:126:ARG:NH2	3.00	0.59
1:2:702:G:HO2'	1:2:703:G:H8	1.51	0.59
1:2:169:A:OP1	8:S6:137:ARG:HG3	2.02	0.59
56:N0:77:VAL:HG11	56:N0:106:LEU:HG	3.25	0.59
3:S1:82:ARG:NH2	3:S1:188:LEU:O	2.64	0.59
1:2:1158:C:OP2	87:2:2172:OHX:N5	2.36	0.59
8:S6:4:ASN:HA	8:S6:15:THR:HG22	1.85	0.59
38:4:103:G:O6	87:4:226:OHX:N4	2.35	0.59
36:5:1952:G:H1	36:5:2094:C:H42	1.50	0.59
8:S6:190:GLN:NE2	1:6:265:A:N7	334.66	0.59
74:O8:45:VAL:HG23	74:O8:52:TYR:HB2	1.84	0.59
22:D0:34:LEU:HD23	22:D0:112:VAL:HG13	1.85	0.59
68:O2:18:LYS:HB3	68:O2:30:GLU:HG2	4.66	0.59
36:1:304:G:N3	36:1:304:G:H5'	2.17	0.59
40:L3:50:LYS:HE2	40:L3:328:ILE:HG22	2.43	0.59
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.18	0.59
40:L3:53:MET:HE1	40:L3:327:CYS:HB3	1.96	0.59
6:S4:88:ASP:HA	6:S4:122:LYS:HZ1	1.68	0.59
1:2:1402:G:OP1	19:C7:10:LYS:NZ	2.36	0.59
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	1.83	0.59
1:2:355:G:OP2	87:2:2035:OHX:N4	2.36	0.59
1:2:1472:C:OP1	7:S5:102:ARG:NH2	2.28	0.59
41:L4:120:TYR:CE2	41:L4:277:PRO:HB3	2.38	0.59
49:M3:185:LYS:NZ	49:M3:189:GLU:OE2	2.35	0.59
36:1:1298:C:O3'	76:Q0:113:ARG:NH1	2.35	0.59
42:L5:234:ASP:OD2	42:L5:234:ASP:N	2.35	0.59
36:1:2216:G:OP1	72:O6:75:LYS:NZ	2.35	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:S4:49:ARG:HG3	6:S4:50:ASN:N	3.55	0.59
3:S1:125:VAL:HG11	3:S1:173:THR:HG22	3.65	0.59
1:2:886:U:O2'	16:C4:121:VAL:O	2.21	0.59
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.33	0.59
57:N1:17:ARG:NH1	57:N1:17:ARG:HG2	3.70	0.59
36:1:612:U:H2'	36:1:613:G:H8	1.67	0.59
36:5:3242:G:H5'	36:5:3245:A:C8	2.38	0.59
67:O1:19:ARG:HD3	67:O1:35:GLU:HG3	2.04	0.59
46:L9:41:ILE:O	46:L9:42:ASP:HB2	2.02	0.59
36:1:2433:U:H1'	51:M5:125:SER:HB3	1.84	0.59
36:1:112:U:O2'	36:1:113:C:OP2	2.19	0.59
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.67	0.59
1:6:230:C:N3	1:6:235:G:N2	2.40	0.59
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.99	0.59
87:8:216:OHX:N2	87:8:223:OHX:N1	2.50	0.59
41:L4:119:ARG:HA	41:L4:122:THR:HG23	1.94	0.59
36:5:1861:G:OP2	87:5:3996:OHX:N2	2.36	0.59
1:2:1244:A:O2'	1:2:1245:G:OP1	2.20	0.59
17:C5:22:LEU:HA	17:C5:25:LEU:HB2	2.85	0.59
36:5:1881:A:OP2	87:5:4031:OHX:N6	2.35	0.59
6:S4:86:PHE:HE2	6:S4:102:VAL:HG23	4.31	0.59
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.85	0.59
40:L3:187:SER:HB3	40:L3:190:GLU:OE1	3.32	0.59
36:5:1564:U:H2'	36:5:1565:G:H8	1.68	0.59
1:6:542:A:C8	1:6:543:C:H2'	2.37	0.59
36:1:3316:A:OP1	36:1:3318:G:N2	2.36	0.59
1:6:831:U:O2'	1:6:832:U:H5'	2.03	0.59
13:C1:5:LEU:O	13:C1:7:VAL:N	2.29	0.59
57:N1:130:ARG:HD3	36:5:1098:A:OP2	255.78	0.59
1:6:1595:U:N3	1:6:1600:A:H2	2.01	0.59
1:2:209:U:H2'	1:2:210:A:C8	2.38	0.59
1:6:1244:A:H3'	1:6:1244:A:N3	2.16	0.59
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.40	0.59
39:L2:206:PRO:HG3	39:L2:213:GLY:HA2	3.64	0.59
3:S1:87:ARG:NH2	3:S1:89:ASP:OD1	5.22	0.59
67:O1:11:GLU:HG2	67:O1:74:ARG:HB2	1.84	0.59
36:5:964:G:OP2	36:5:1115:G:N2	2.30	0.59
13:C1:22:ASN:HB3	13:C1:25:VAL:HG23	2.52	0.59
46:L9:162:GLN:HB2	46:L9:179:ILE:O	2.23	0.59
36:1:1752:A:OP2	87:1:4047:OHX:N3	2.35	0.59
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.69	0.58
1:6:1588:G:OP1	87:6:2126:OHX:N2	2.36	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:702:G:O2'	1:2:703:G:H8	1.86	0.58
10:S8:138:ASN:OD1	10:S8:138:ASN:N	2.36	0.58
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.36	0.58
19:C7:104:ASN:HA	19:C7:107:SER:HB3	4.21	0.58
36:5:3103:A:OP2	87:5:4159:OHX:N4	2.36	0.58
55:M9:109:TYR:CD2	55:M9:114:LYS:HD2	6.12	0.58
36:1:272:G:OP2	87:1:4030:OHX:N3	2.36	0.58
36:5:900:G:H1'	36:5:1589:A:N6	2.18	0.58
1:2:2:A:C2	4:S2:170:ILE:HD12	2.38	0.58
36:5:273:A:N7	87:5:4066:OHX:N3	2.51	0.58
52:M6:18:ARG:NH2	36:5:1318:A:OP1	277.86	0.58
41:L4:259:ASP:OD1	41:L4:259:ASP:N	3.59	0.58
16:C4:29:HIS:ND1	16:C4:29:HIS:O	2.36	0.58
10:S8:176:SER:HB3	1:6:208:U:H4'	286.78	0.58
87:1:4003:OHX:N3	87:1:4172:OHX:N5	2.51	0.58
42:L5:10:SER:HB2	37:7:67:G:H5'	312.35	0.58
9:S7:49:ILE:O	9:S7:57:ALA:N	2.35	0.58
22:D0:72:ASN:HD21	1:6:1429:G:H21	387.82	0.58
17:C5:68:PRO:HG2	17:C5:71:GLU:OE2	2.03	0.58
22:D0:21:LYS:HA	22:D0:94:GLU:HG2	2.38	0.58
3:S1:61:LEU:HG	3:S1:64:ARG:HH21	1.68	0.58
1:2:1370:U:O4	87:2:2120:OHX:N1	2.36	0.58
52:M6:68:ARG:NH1	36:5:2988:C:P	217.02	0.58
36:1:2403:G:H21	36:1:2404:A:H62	1.52	0.58
15:C3:119:GLU:HA	15:C3:122:ILE:HD12	1.85	0.58
2:S0:101:ARG:HH11	2:S0:101:ARG:HG2	3.07	0.58
19:C7:34:LEU:O	19:C7:38:ILE:HG22	2.02	0.58
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CZ3	2.61	0.58
19:C7:14:LYS:HG2	19:C7:69:ILE:HG23	3.39	0.58
36:1:2927:C:H2'	36:1:2928:C:C6	2.38	0.58
36:5:2897:A:H2'	36:5:2899:C:H5''	1.85	0.58
57:N1:83:ARG:HD2	57:N1:85:LEU:HD21	1.84	0.58
36:1:1565:G:N2	36:1:1574:C:N3	2.51	0.58
3:S1:180:THR:HG22	3:S1:181:LEU:HD13	1.84	0.58
36:1:2208:A:N1	87:1:4043:OHX:N4	2.51	0.58
87:5:4002:OHX:N4	87:5:4090:OHX:N2	2.51	0.58
36:1:410:U:O4	87:1:4056:OHX:N2	2.37	0.58
36:1:1062:A:N3	57:N1:130:ARG:NH2	2.50	0.58
87:1:4003:OHX:N6	87:1:4172:OHX:N1	2.51	0.58
4:S2:225:LEU:HD12	24:D2:68:ARG:HA	3.74	0.58
1:2:759:U:OP1	87:2:2159:OHX:N1	2.37	0.58
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	2.11	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:L9:62:ARG:NH2	36:5:3115:C:OP1	331.17	0.58
1:2:1498:G:C2'	1:2:1499:G:H5'	2.33	0.58
11:S9:58:ASP:O	11:S9:61:THR:OG1	2.21	0.58
36:5:3053:G:OP2	87:5:4172:OHX:N3	2.36	0.58
28:D6:50:VAL:O	28:D6:54:SER:N	3.05	0.58
4:S2:123:GLY:HA2	4:S2:126:ARG:NH1	2.18	0.58
48:M1:10:ARG:HA	48:M1:134:PRO:HD2	2.99	0.58
79:Q3:4:ARG:NH2	36:5:838:G:O6	236.77	0.58
36:1:2836:C:H5	36:1:2852:C:N4	1.96	0.58
6:S4:21:ASP:OD1	6:S4:24:SER:OG	2.20	0.58
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.17	0.58
40:L3:70:ARG:HH22	59:N3:120:LYS:HZ1	1.50	0.58
59:N3:13:ILE:HG12	59:N3:53:SER:HB2	1.86	0.58
47:M0:66:GLU:CD	47:M0:69:ARG:HH21	2.06	0.58
36:1:924:G:OP1	87:1:4143:OHX:N5	2.37	0.58
12:C0:55:VAL:HA	12:C0:69:THR:HG23	1.83	0.58
36:1:2320:A:C2	79:Q3:16:VAL:HG13	2.38	0.58
36:1:3087:A:OP1	87:1:4181:OHX:N5	2.35	0.58
36:1:1596:C:H2'	36:1:1597:C:C6	2.37	0.58
1:2:73:U:H1'	1:2:74:U:H5'	1.84	0.58
47:M0:74:LYS:O	47:M0:78:THR:HG23	2.02	0.58
1:2:143:G:N7	8:S6:177:ARG:NH2	2.52	0.58
1:2:11:A:H5'	4:S2:87:GLN:HE21	1.69	0.58
36:1:3278:C:H2'	36:1:3278:C:O2	2.03	0.58
17:C5:18:ARG:NH2	17:C5:38:PRO:HG3	3.44	0.58
41:L4:91:GLY:HA3	41:L4:93:MET:HE1	1.84	0.58
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.18	0.58
72:O6:57:LEU:O	72:O6:61:ILE:HG13	2.70	0.58
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.35	0.58
42:L5:106:ALA:O	42:L5:110:LEU:HD22	3.24	0.58
36:1:1636:U:H5''	63:N7:73:LYS:HZ2	1.67	0.58
59:N3:62:VAL:CG2	59:N3:74:MET:HE1	2.33	0.58
1:2:1562:G:OP1	21:C9:89:ARG:NH2	2.37	0.58
24:D2:82:LYS:O	24:D2:84:GLY:N	2.29	0.58
30:D8:13:ILE:HB	30:D8:29:ARG:HG2	4.82	0.58
36:5:1659:U:H2'	36:5:1660:C:C6	2.38	0.58
1:2:987:G:C2	39:L2:249:SER:HB2	2.38	0.58
87:5:3979:OHX:N6	87:5:4198:OHX:N3	2.52	0.58
26:D4:29:HIS:O	26:D4:31:ASN:N	3.39	0.58
65:N9:46:ALA:O	65:N9:50:THR:HG23	2.94	0.58
15:C3:114:ARG:CG	15:C3:114:ARG:HH11	2.15	0.58
36:1:1556:C:H2'	36:1:2169:G:N1	2.19	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1580:A:OP1	39:L2:68:LYS:NZ	2.37	0.58
3:S1:185:THR:O	3:S1:189:ILE:HG13	2.02	0.58
36:5:1808:G:O6	87:5:4025:OHX:N3	2.35	0.58
3:S1:135:LEU:HD21	3:S1:176:VAL:HG11	1.84	0.58
63:N7:46:ILE:HD11	63:N7:49:TYR:CG	2.39	0.58
36:1:2544:U:H2'	36:1:2545:C:H6	1.66	0.58
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.03	0.58
41:L4:52:VAL:HB	41:L4:99:MET:HE3	1.84	0.58
46:L9:91:ARG:HG2	46:L9:182:SER:HB3	2.60	0.58
55:M9:4:LEU:HA	55:M9:7:GLN:HE21	5.39	0.58
1:2:373:G:N7	87:2:2158:OHX:N6	2.52	0.58
36:1:1509:A:H2'	36:1:1510:G:C8	2.39	0.58
36:5:2397:A:C2	36:5:2873:U:H5'	2.38	0.58
1:6:1370:U:H4'	1:6:1371:A:H4'	1.85	0.58
40:L3:206:ASP:OD1	40:L3:206:ASP:N	2.37	0.58
71:O5:74:LYS:NZ	36:5:128:G:OP2	79.54	0.58
71:O5:101:THR:HG22	71:O5:104:GLN:HB2	2.04	0.58
69:O3:60:ARG:NH2	69:O3:60:ARG:HB2	2.17	0.58
9:S7:31:SER:HB2	9:S7:32:PRO:HD3	1.86	0.58
13:C1:133:LYS:HB2	1:6:337:G:H3'	290.64	0.58
87:2:2133:OHX:N6	10:S8:52:ASN:OD1	2.37	0.58
5:S3:72:LEU:HD22	12:C0:65:TYR:HD1	2.10	0.58
1:2:1665:U:O4	87:2:2135:OHX:N4	2.37	0.58
1:6:705:U:HO2'	1:6:706:A:H8	1.52	0.58
36:1:3389:U:O2'	36:1:3390:G:OP2	2.21	0.58
46:L9:166:ARG:NH2	46:L9:168:ARG:HH12	11.84	0.58
23:D1:74:GLN:OE1	23:D1:83:TRP:N	3.90	0.58
18:C6:82:ARG:NH2	18:C6:114:ARG:HB2	2.18	0.58
27:D5:43:ASP:O	27:D5:45:GLU:N	2.37	0.58
27:D5:58:ARG:HB3	27:D5:103:ARG:NH1	8.89	0.58
51:M5:8:GLU:HG3	51:M5:50:ARG:NH1	4.60	0.58
36:1:2514:U:OP1	45:L8:68:ARG:HD2	2.03	0.58
67:O1:31:ARG:O	67:O1:35:GLU:HB2	2.25	0.58
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.49	0.58
1:6:130:C:HO2'	1:6:137:U:H3	1.52	0.58
44:L7:80:GLN:OE1	57:N1:136:ARG:HB2	3.02	0.58
55:M9:105:LEU:HD12	55:M9:135:LYS:HD2	1.85	0.58
36:5:1194:G:OP1	87:5:4015:OHX:N6	2.37	0.58
28:D6:11:ASN:O	28:D6:11:ASN:ND2	4.31	0.58
1:6:819:G:O2'	1:6:821:U:OP2	2.22	0.58
36:1:2378:C:H2'	36:1:2379:U:C6	2.39	0.58
1:6:1650:U:H2'	1:6:1651:A:C8	2.39	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1525:A:OP1	21:C9:93:HIS:ND1	2.37	0.58
59:N3:32:ARG:HH21	59:N3:32:ARG:HB2	1.67	0.58
50:M4:54:PRO:O	50:M4:56:GLN:NE2	2.37	0.58
7:S5:29:ILE:HG21	18:C6:57:LEU:HD11	1.86	0.58
11:S9:27:GLU:OE1	11:S9:39:LYS:NZ	3.05	0.58
6:S4:100:ARG:NH2	6:S4:122:LYS:HA	2.18	0.58
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	1.86	0.58
63:N7:26:VAL:HG21	63:N7:96:VAL:HB	1.86	0.58
9:S7:133:THR:OG1	9:S7:134:GLU:N	2.36	0.58
51:M5:96:ARG:NH1	51:M5:96:ARG:HG2	2.17	0.58
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.84	0.58
17:C5:21:ASP:N	17:C5:21:ASP:OD1	2.37	0.58
36:1:3089:C:OP1	40:L3:222:LYS:NZ	2.32	0.58
9:S7:111:LYS:O	9:S7:112:ARG:HB2	2.04	0.58
48:M1:94:ARG:C	48:M1:96:PHE:H	2.07	0.58
56:N0:42:TRP:O	56:N0:46:GLN:HG3	2.44	0.58
42:L5:274:GLN:OE1	37:7:60:G:N2	333.98	0.58
1:6:938:G:N7	87:6:2107:OHX:N3	2.52	0.58
15:C3:26:PHE:CE2	15:C3:28:LEU:HB2	2.98	0.58
26:D4:10:ARG:HD2	1:6:778:G:O6	429.75	0.58
36:5:1329:U:H4'	36:5:1330:A:OP1	2.02	0.58
40:L3:188:ILE:HD12	40:L3:189:SER:H	1.68	0.58
36:1:2677:G:H2'	36:1:2679:A:C2	2.38	0.58
36:1:1355:A:H5''	36:1:1356:U:C5	2.38	0.58
62:N6:37:LYS:H	62:N6:37:LYS:HE2	2.41	0.58
55:M9:105:LEU:HD22	55:M9:138:LEU:HD13	1.86	0.58
41:L4:286:VAL:HA	41:L4:289:ILE:HG13	1.86	0.58
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.36	0.58
1:6:846:G:H2'	1:6:847:A:C8	2.39	0.58
36:1:1932:A:H5'	36:1:1933:A:OP2	2.04	0.58
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.33	0.57
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.55	0.57
6:S4:11:ARG:O	6:S4:12:LEU:HB2	2.03	0.57
11:S9:146:PHE:O	11:S9:147:MET:HB2	2.34	0.57
65:N9:23:LYS:HB3	65:N9:24:PRO:CD	3.65	0.57
27:D5:54:VAL:HG13	27:D5:57:TYR:CD1	2.39	0.57
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.04	0.57
36:5:1152:G:N2	36:5:1200:A:H61	2.02	0.57
36:1:2403:G:N2	36:1:2404:A:H62	2.01	0.57
21:C9:39:THR:HA	21:C9:100:ILE:HD12	1.85	0.57
36:5:892:U:OP2	87:5:3917:OHX:N6	2.37	0.57
39:L2:48:ILE:HD13	79:Q3:65:ALA:HB2	2.39	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:S3:182:LEU:H	5:S3:182:LEU:HD12	1.69	0.57
4:S2:103:VAL:HG12	4:S2:190:LEU:HD12	1.84	0.57
36:1:522:A:OP1	87:1:3942:OHX:N5	2.37	0.57
87:1:3971:OHX:N6	87:1:4156:OHX:N4	2.52	0.57
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.85	0.57
1:2:1435:G:O6	12:C0:64:TYR:OH	2.13	0.57
4:S2:53:ILE:HG12	4:S2:73:LEU:HD22	4.13	0.57
35:SM:58:GLU:O	35:SM:62:ARG:HB2	2.90	0.57
49:M3:59:ARG:HD3	36:5:73:C:C2	94.36	0.57
1:6:75:U:O2'	1:6:76:A:O4'	2.22	0.57
10:S8:185:GLU:HG2	13:C1:23:PRO:HG2	1.86	0.57
74:O8:44:LYS:HG2	74:O8:53:THR:HB	2.37	0.57
55:M9:141:HIS:O	55:M9:141:HIS:ND1	3.59	0.57
1:2:1449:U:H2'	1:2:1450:U:C6	2.39	0.57
15:C3:73:ARG:HD3	1:6:859:A:C5	331.35	0.57
49:M3:80:VAL:HG12	49:M3:85:LEU:O	2.05	0.57
1:2:866:G:OP1	15:C3:2:GLY:HA2	2.04	0.57
67:O1:83:GLU:O	67:O1:85:ALA:N	3.71	0.57
49:M3:93:ILE:HG22	49:M3:94:GLY:N	3.99	0.57
36:1:149:U:OP2	51:M5:49:ARG:NH2	2.36	0.57
4:S2:45:VAL:HG21	4:S2:68:ILE:HG23	2.48	0.57
36:1:1495:U:C5	36:1:1835:A:N1	2.71	0.57
6:S4:121:TYR:HA	6:S4:163:ASP:O	2.49	0.57
10:S8:10:LYS:NZ	1:6:339:C:OP2	283.99	0.57
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.05	0.57
1:2:1102:G:OP1	24:D2:76:SER:OG	2.21	0.57
1:2:1754:A:O2'	87:2:2057:OHX:N5	2.37	0.57
36:1:870:G:O6	87:1:3919:OHX:N4	2.36	0.57
36:5:2509:U:H2'	36:5:2510:U:H5''	1.86	0.57
36:5:2425:G:H2'	36:5:2426:U:O4'	2.04	0.57
38:4:79:A:H2'	38:4:80:A:H1'	1.86	0.57
34:SR:157:VAL:HB	34:SR:168:THR:HG22	3.59	0.57
6:S4:242:LYS:N	6:S4:242:LYS:HE3	2.19	0.57
37:7:3:U:H2'	37:7:4:U:H6	1.68	0.57
18:C6:114:ARG:O	18:C6:115:THR:HB	3.90	0.57
36:5:1940:G:H21	36:5:3362:A:H8	1.52	0.57
39:L2:70:ARG:HH22	36:5:2522:G:H1	173.91	0.57
16:C4:117:ASP:HB2	28:D6:44:ILE:HD11	8.65	0.57
46:L9:29:GLY:HA3	46:L9:82:VAL:HG13	2.15	0.57
1:6:1595:U:N3	1:6:1600:A:C2	2.72	0.57
53:M7:138:LYS:NZ	36:5:2356:A:OP1	147.50	0.57
35:SM:46:LYS:HA	36:5:1018:G:H4'	325.38	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:S5:133:VAL:HG22	7:S5:198:LEU:HD13	2.31	0.57
69:O3:13:HIS:HE2	69:O3:28:SER:HG	1.51	0.57
9:S7:38:LEU:HD23	9:S7:41:LEU:HD12	1.86	0.57
64:N8:59:ARG:NH1	36:5:90:C:OP1	152.43	0.57
55:M9:8:LYS:HD2	55:M9:22:VAL:HG23	1.87	0.57
36:1:359:U:O2'	73:O7:16:HIS:ND1	2.33	0.57
78:Q2:12:CYS:SG	78:Q2:17:CYS:CB	3.09	0.57
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	1.98	0.57
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.86	0.57
36:1:1215:U:C2'	36:1:1216:C:H5''	2.33	0.57
27:D5:47:TYR:CZ	27:D5:51:LEU:HD11	3.33	0.57
42:L5:41:LYS:HB2	57:N1:68:THR:O	2.52	0.57
5:S3:137:VAL:HB	5:S3:185:LYS:HB2	1.85	0.57
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.05	0.57
20:C8:26:ILE:HD11	20:C8:30:TYR:HB2	1.87	0.57
21:C9:61:VAL:O	21:C9:65:ILE:HG13	2.04	0.57
1:6:241:U:H2'	1:6:242:U:C6	2.40	0.57
12:C0:7:ASP:O	12:C0:11:ILE:HG12	2.03	0.57
87:1:4032:OHX:N4	87:1:4044:OHX:N1	2.52	0.57
36:5:961:C:O2	87:5:4178:OHX:N4	2.37	0.57
1:2:134:U:OP1	1:2:136:C:N4	2.36	0.57
45:L8:126:SER:O	36:5:120:G:N2	94.02	0.57
36:1:1372:C:OP2	64:N8:7:LYS:HE3	2.05	0.57
36:5:1781:C:H2'	36:5:1782:U:C6	2.39	0.57
1:6:647:G:H22	1:6:687:G:N2	2.02	0.57
52:M6:61:ALA:HB1	52:M6:66:LYS:HG3	2.02	0.57
51:M5:194:GLN:NE2	36:5:99:A:H5'	123.25	0.57
87:2:2089:OHX:N5	87:2:2130:OHX:N2	2.52	0.57
34:SR:211:ILE:HG22	34:SR:223:TRP:CD1	2.39	0.57
36:1:2094:C:H2'	36:1:2095:G:H8	1.68	0.57
23:D1:5:LYS:O	23:D1:7:GLN:N	2.29	0.57
1:6:1762:A:C1'	1:6:1783:C:H5'	2.35	0.57
36:1:671:U:OP2	54:M8:57:ILE:HD12	2.02	0.57
36:1:1014:U:H2'	36:1:1015:U:H5''	1.86	0.57
17:C5:25:LEU:HA	17:C5:28:MET:HE2	2.33	0.57
36:5:2437:G:H1	36:5:2510:U:H3	1.52	0.57
1:6:1130:G:OP2	87:6:2114:OHX:N1	2.37	0.57
24:D2:25:VAL:HG22	24:D2:65:LEU:HD21	4.69	0.57
36:5:495:G:H2'	36:5:496:C:O4'	2.05	0.57
1:2:108:A:H2'	1:2:109:G:C8	2.39	0.57
45:L8:151:VAL:HG13	45:L8:199:ALA:HB2	3.59	0.57
4:S2:183:ALA:HB1	4:S2:211:LEU:HD21	2.19	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:3330:A:H8	36:1:3330:A:H5''	1.69	0.57
1:2:38:C:C2'	1:2:39:A:H5'	2.34	0.57
20:C8:83:ALA:HA	20:C8:86:LEU:HD22	1.91	0.57
1:6:151:G:N2	1:6:163:G:H22	2.01	0.57
1:2:1588:G:OP1	87:2:2116:OHX:N3	2.37	0.57
1:2:513:U:H2'	1:2:514:G:C8	2.40	0.57
1:2:1618:C:O2'	87:2:2165:OHX:N3	2.38	0.57
12:C0:14:TYR:HE2	12:C0:21:VAL:HG22	1.70	0.57
87:1:4003:OHX:N3	87:1:4172:OHX:N3	2.53	0.57
6:S4:95:THR:HG23	6:S4:97:GLU:HG2	6.81	0.57
9:S7:66:SER:O	9:S7:68:ALA:N	3.11	0.57
8:S6:213:ALA:O	8:S6:217:SER:OG	2.62	0.57
16:C4:82:LYS:HG2	16:C4:118:VAL:HG11	3.88	0.57
42:L5:187:THR:O	42:L5:189:GLU:N	2.36	0.57
30:D8:21:SER:N	30:D8:67:ARG:O	3.79	0.57
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	3.48	0.57
10:S8:56:ARG:HH22	1:6:332:U:P	287.36	0.57
11:S9:38:ASN:HB3	11:S9:40:LYS:H	1.69	0.57
28:D6:34:LYS:NZ	1:6:1793:G:N7	323.60	0.57
53:M7:84:PRO:HB2	53:M7:87:SER:HB2	1.95	0.57
1:2:895:G:H21	16:C4:38:THR:HG21	1.69	0.57
3:S1:98:THR:O	3:S1:232:HIS:NE2	3.58	0.57
1:6:514:G:HO2'	1:6:515:A:H8	1.53	0.57
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.40	0.57
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.87	0.57
87:1:3971:OHX:N3	87:1:4156:OHX:N1	2.53	0.57
39:L2:114:SER:HB2	39:L2:169:ILE:HD12	1.86	0.57
10:S8:116:HIS:O	10:S8:146:ARG:NH1	2.36	0.57
36:5:132:C:H2'	36:5:133:U:H5''	1.86	0.57
11:S9:149:ARG:HH11	11:S9:149:ARG:HG2	4.60	0.57
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.86	0.57
1:2:1370:U:H4'	1:2:1371:A:C5'	2.35	0.57
87:1:3947:OHX:N4	52:M6:67:THR:HG23	2.20	0.57
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.87	0.57
25:D3:13:ARG:HA	25:D3:16:ARG:HD3	1.86	0.57
9:S7:99:LEU:HG	9:S7:116:ARG:HG2	4.46	0.57
36:5:1110:U:H2'	36:5:1111:U:C6	2.40	0.57
1:2:693:U:H5'	1:2:694:U:H5'	1.87	0.57
57:N1:28:SER:OG	37:7:9:C:OP1	267.89	0.57
36:1:979:U:H1'	36:1:980:A:N9	2.19	0.57
9:S7:57:ALA:HA	9:S7:89:HIS:O	2.05	0.57
3:S1:181:LEU:HD13	3:S1:181:LEU:H	1.70	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:53:MET:HE1	40:L3:327:CYS:CB	2.49	0.57
3:S1:62:LYS:O	3:S1:64:ARG:N	2.37	0.57
1:6:191:C:O2'	1:6:192:U:O5'	2.22	0.57
4:S2:203:LYS:O	4:S2:206:THR:HG23	2.05	0.57
36:5:3241:G:H2'	36:5:3245:A:C8	2.39	0.57
20:C8:33:THR:HA	20:C8:38:VAL:HG23	1.98	0.57
1:6:1413:U:O2	87:6:2088:OHX:N6	2.38	0.57
36:1:211:A:OP1	41:L4:220:ARG:NH1	2.31	0.57
36:1:770:G:N7	87:1:4095:OHX:N6	2.53	0.57
87:1:4207:OHX:N4	38:4:16:G:OP1	2.38	0.57
42:L5:163:LEU:HD11	42:L5:175:HIS:CG	2.40	0.57
39:L2:140:ASN:OD1	39:L2:142:ASP:HB3	4.85	0.57
36:5:223:U:O4	87:5:4243:OHX:N4	2.38	0.57
36:1:3340:G:O6	87:1:4052:OHX:N4	2.38	0.57
1:2:45:U:O2'	1:2:46:A:H2'	2.04	0.57
33:E1:130:VAL:HG11	33:E1:143:LYS:HG2	1.86	0.56
36:5:3343:G:N2	36:5:3362:A:H2	1.96	0.56
8:S6:173:PRO:HG3	1:6:66:U:C5	334.32	0.56
36:5:437:G:H22	36:5:622:A:N6	1.98	0.56
8:S6:13:GLN:OE1	1:6:151:G:N2	311.27	0.56
42:L5:40:HIS:CE1	57:N1:69:LYS:HB2	2.40	0.56
3:S1:181:LEU:HA	3:S1:184:LEU:HB3	1.86	0.56
1:6:1769:U:OP2	87:6:2145:OHX:N2	2.38	0.56
52:M6:62:THR:HG21	52:M6:68:ARG:HG3	2.04	0.56
36:5:1599:G:OP1	87:5:4137:OHX:N4	2.38	0.56
1:6:686:C:H2'	1:6:687:G:C8	2.40	0.56
26:D4:33:ALA:O	26:D4:34:ASN:ND2	2.34	0.56
1:6:1336:A:OP1	87:6:2179:OHX:N1	2.38	0.56
36:5:2284:C:O2	87:5:4179:OHX:N1	2.38	0.56
45:L8:86:THR:O	45:L8:90:THR:HG23	5.47	0.56
36:5:3132:C:H2'	36:5:3133:C:C6	2.40	0.56
70:O4:46:ASP:OD2	70:O4:80:ARG:NH1	4.55	0.56
15:C3:94:LYS:HE2	1:6:953:G:P	301.82	0.56
36:5:1818:U:H2'	36:5:1819:U:H6	1.70	0.56
36:5:2213:A:H2'	36:5:2214:A:C8	2.40	0.56
5:S3:125:TYR:O	5:S3:129:SER:OG	3.69	0.56
6:S4:205:PHE:HB3	6:S4:221:ARG:HD2	1.86	0.56
39:L2:15:ILE:HG23	39:L2:194:ASN:HD22	5.13	0.56
74:O8:46:ARG:NH1	74:O8:47:GLY:O	2.50	0.56
36:5:2970:C:H4'	36:5:2971:A:N1	2.20	0.56
2:S0:140:ASN:ND2	4:S2:62:PRO:HD3	4.17	0.56
57:N1:42:ILE:HG12	57:N1:96:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:848:C:H2'	1:6:849:C:H6	1.70	0.56
37:3:60:G:OP2	87:3:225:OHX:N3	2.37	0.56
48:M1:23:VAL:O	48:M1:25:GLU:N	2.38	0.56
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.97	0.56
4:S2:230:TRP:CE2	24:D2:68:ARG:HD2	3.30	0.56
36:5:3132:C:H2'	36:5:3133:C:H6	1.70	0.56
7:S5:145:ASP:OD2	7:S5:146:THR:N	2.34	0.56
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	1.87	0.56
36:1:249:U:H1'	36:1:250:U:O2	2.05	0.56
41:L4:207:VAL:HB	41:L4:227:THR:HG22	1.86	0.56
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.09	0.56
45:L8:41:GLN:HG3	45:L8:44:ARG:HH12	1.69	0.56
1:2:359:A:C2	25:D3:38:PHE:HB3	2.41	0.56
36:1:979:U:C2	36:1:980:A:C4	2.93	0.56
87:5:3979:OHX:N4	87:5:4198:OHX:N1	2.53	0.56
36:1:2356:A:N6	36:1:2983:C:H5	1.97	0.56
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	2.37	0.56
8:S6:98:ARG:HD3	8:S6:99:GLY:N	2.29	0.56
47:M0:4:ARG:CZ	47:M0:99:ILE:HD12	2.35	0.56
3:S1:58:SER:HA	3:S1:62:LYS:HD3	1.87	0.56
53:M7:64:ASN:HA	53:M7:67:ILE:HG12	1.87	0.56
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.44	0.56
36:1:1221:A:H3'	36:1:1222:G:C5'	2.36	0.56
34:SR:93:ASP:OD1	34:SR:96:THR:HB	2.05	0.56
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.87	0.56
6:S4:182:TYR:HB2	6:S4:228:ILE:HD13	1.87	0.56
42:L5:94:ASN:OD1	42:L5:97:ALA:N	2.37	0.56
36:1:3084:C:OP2	87:1:3885:OHX:N5	2.38	0.56
87:5:4056:OHX:N3	87:5:4199:OHX:N6	2.52	0.56
36:1:3095:U:H2'	36:1:3096:C:C6	2.40	0.56
67:O1:57:GLN:HG2	36:5:1475:A:H4'	147.13	0.56
36:1:658:G:OP1	87:1:4045:OHX:N4	2.37	0.56
48:M1:51:ARG:NH2	36:5:2682:C:OP2	303.75	0.56
42:L5:208:MET:HG3	42:L5:223:PHE:CZ	2.40	0.56
72:O6:35:ASN:OD1	72:O6:35:ASN:N	3.09	0.56
36:1:3393:U:H2'	36:1:3394:U:C6	2.39	0.56
58:N2:104:ARG:NH1	58:N2:106:ALA:HB2	3.57	0.56
36:1:2550:U:C6	45:L8:37:GLY:HA3	2.41	0.56
5:S3:115:ILE:HD12	5:S3:116:ARG:H	4.57	0.56
36:1:385:A:H2'	36:1:386:A:C8	2.40	0.56
2:S0:37:VAL:HG22	2:S0:149:LEU:HD13	4.62	0.56
1:2:1291:G:H5'	4:S2:119:LYS:HE2	1.88	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:M9:43:LYS:N	55:M9:43:LYS:HD2	4.52	0.56
20:C8:42:TYR:HA	20:C8:85:PHE:HE1	1.70	0.56
70:O4:98:GLN:O	70:O4:102:LYS:HG2	2.05	0.56
6:S4:187:ARG:HH22	1:6:753:A:H62	375.34	0.56
5:S3:28:GLU:HG3	5:S3:65:ARG:HH22	3.73	0.56
63:N7:97:SER:HB3	63:N7:99:GLU:HG3	3.91	0.56
30:D8:32:PHE:O	30:D8:34:GLU:N	3.88	0.56
17:C5:15:HIS:H	17:C5:22:LEU:HD22	5.13	0.56
38:4:77:A:OP2	87:4:227:OHX:N2	2.38	0.56
8:S6:12:SER:HB2	8:S6:124:LEU:HD12	1.87	0.56
36:1:541:U:O4	87:1:4193:OHX:N2	2.38	0.56
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.05	0.56
36:5:619:A:OP2	36:5:619:A:H8	1.88	0.56
34:SR:178:VAL:HB	34:SR:192:PHE:HB2	2.29	0.56
24:D2:79:PHE:O	24:D2:125:ILE:HG22	2.05	0.56
7:S5:158:GLN:HG2	30:D8:66:LEU:HD11	1.88	0.56
39:L2:113:VAL:HG23	39:L2:134:VAL:HG22	2.17	0.56
59:N3:39:VAL:O	59:N3:42:SER:OG	3.84	0.56
36:1:623:U:O5'	87:1:4132:OHX:N3	2.38	0.56
1:2:1235:C:H5'	33:E1:146:SER:HB2	1.86	0.56
12:C0:50:THR:HG21	12:C0:57:THR:OG1	2.05	0.56
75:O9:15:LYS:O	75:O9:19:GLN:HG3	2.51	0.56
36:1:3314:A:OP1	40:L3:174:LYS:HB3	2.05	0.56
40:L3:81:THR:HB	40:L3:321:PHE:HA	2.19	0.56
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.70	0.56
30:D8:12:VAL:HA	30:D8:30:VAL:HG12	1.86	0.56
1:6:845:G:H2'	1:6:846:G:H8	1.71	0.56
1:6:176:C:OP1	87:6:2097:OHX:N6	2.39	0.56
75:O9:50:ASN:O	75:O9:51:ILE:HB	2.08	0.56
1:6:986:G:OP2	87:6:2121:OHX:N2	2.39	0.56
41:L4:285:ASP:OD2	41:L4:288:ARG:HB2	2.06	0.56
3:S1:34:ALA:O	3:S1:41:ARG:NH2	2.99	0.56
1:2:542:A:H5''	1:2:544:A:C8	2.41	0.56
32:E0:28:LYS:HD3	1:6:542:A:N1	430.54	0.56
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.38	0.56
34:SR:153:GLN:HB3	34:SR:202:LEU:HD22	1.87	0.56
36:1:77:A:OP2	49:M3:73:ARG:NH2	2.39	0.56
36:1:1014:U:C2'	36:1:1015:U:H5''	2.36	0.56
87:1:4032:OHX:N6	87:1:4044:OHX:N3	2.54	0.56
1:6:647:G:H1	1:6:687:G:H22	1.53	0.56
6:S4:184:THR:C	6:S4:189:LEU:HD13	2.74	0.56
61:N5:57:LEU:HD23	61:N5:61:LYS:HG2	6.00	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
67:O1:26:LYS:NZ	36:5:1455:U:O2	171.33	0.56
71:O5:87:ALA:O	71:O5:90:ARG:N	3.05	0.56
42:L5:68:THR:HG22	42:L5:70:THR:H	1.70	0.56
26:D4:35:VAL:HG13	26:D4:36:SER:H	1.70	0.56
12:C0:21:VAL:HG12	12:C0:66:TYR:HB2	4.43	0.56
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	3.30	0.56
33:E1:90:LYS:HB2	33:E1:93:HIS:HE1	12.32	0.56
36:1:2898:G:OP2	36:1:2899:C:H5'	2.05	0.56
36:5:1798:A:H2'	36:5:1799:A:C8	2.40	0.56
34:SR:52:GLN:HG2	34:SR:53:LYS:HG3	5.07	0.56
1:2:1550:A:OP2	17:C5:42:ARG:NH2	2.39	0.56
1:6:1637:C:OP2	87:6:2116:OHX:N4	2.39	0.56
26:D4:42:GLU:OE2	26:D4:52:LYS:NZ	2.39	0.56
38:8:79:A:H2'	38:8:80:A:O4'	2.05	0.56
1:2:1236:A:O4'	33:E1:138:ARG:NH2	2.38	0.56
56:N0:115:ARG:HD3	36:5:1295:G:O2'	295.95	0.56
1:2:1347:U:O2	1:2:1516:A:H5'	2.05	0.56
40:L3:293:ASN:HB2	40:L3:304:THR:HA	1.88	0.56
36:5:1596:C:H2'	36:5:1597:C:C6	2.41	0.56
51:M5:58:GLY:HA3	51:M5:142:ILE:HD13	1.88	0.56
14:C2:94:ALA:HB1	14:C2:119:SER:H	1.70	0.56
1:2:852:C:OP1	55:M9:172:ARG:HD3	2.05	0.56
8:S6:142:ARG:HA	8:S6:147:LEU:HD12	1.87	0.56
45:L8:82:LEU:HD12	45:L8:222:PHE:HE2	1.70	0.56
87:2:2043:OHX:N4	87:2:2098:OHX:N3	2.54	0.56
41:L4:138:ARG:HG3	41:L4:244:LEU:O	2.06	0.56
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	2.09	0.56
39:L2:193:ARG:NH2	36:5:2181:C:H5''	196.27	0.56
1:6:484:C:N4	1:6:503:G:H1	2.03	0.56
10:S8:42:ARG:HB3	10:S8:59:ARG:HB2	2.38	0.56
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.06	0.56
36:5:595:G:N1	36:5:609:G:H5''	2.21	0.56
10:S8:26:LYS:HG3	10:S8:29:LEU:HD13	2.24	0.56
16:C4:107:ARG:NH2	16:C4:107:ARG:HB2	4.93	0.56
17:C5:39:ALA:HA	17:C5:42:ARG:HH21	1.71	0.56
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	2.54	0.56
51:M5:143:ARG:HH21	71:O5:92:LEU:HA	1.71	0.56
42:L5:211:LEU:HD22	42:L5:215:ASP:HB3	2.52	0.56
24:D2:41:MET:HG2	24:D2:129:VAL:HG11	2.12	0.56
87:5:3979:OHX:N6	87:5:4198:OHX:N5	2.54	0.56
42:L5:88:ILE:HD13	42:L5:239:ILE:HG22	5.13	0.56
36:1:409:A:OP2	87:1:4056:OHX:N6	2.38	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:624:G:OP2	87:2:2156:OHX:N2	2.39	0.56
36:5:3242:G:H5'	36:5:3245:A:H8	1.70	0.56
36:1:2880:U:H1'	40:L3:250:ALA:HB3	1.88	0.56
3:S1:179:SER:HB3	3:S1:183:GLN:HB3	2.79	0.56
1:6:263:C:H4'	1:6:292:U:H5'	1.87	0.56
39:L2:14:SER:OG	39:L2:15:ILE:N	2.36	0.56
1:6:1691:A:H2'	1:6:1692:G:C8	2.41	0.56
22:D0:82:TYR:HB3	31:D9:52:PHE:HB3	1.86	0.56
52:M6:31:GLN:HG3	52:M6:33:ILE:HD12	1.88	0.56
51:M5:114:ARG:HG2	51:M5:137:PRO:HG3	2.27	0.56
36:1:2698:G:O2'	57:N1:12:ARG:HG3	2.06	0.56
62:N6:113:LYS:HB2	38:8:84:C:H1'	20.03	0.56
1:2:491:C:H42	1:2:496:G:H1	1.53	0.56
33:E1:82:LYS:O	33:E1:84:VAL:N	5.03	0.56
56:N0:6:GLU:OE1	56:N0:99:ARG:NH2	3.24	0.56
1:2:327:U:H2'	1:2:328:A:C8	2.40	0.56
36:5:655:C:H2'	36:5:656:A:C8	2.41	0.56
1:2:1417:A:OP1	87:2:2070:OHX:N5	2.38	0.56
49:M3:9:ILE:HG23	64:N8:34:MET:HE3	1.87	0.56
36:1:288:C:OP1	51:M5:170:LYS:NZ	2.30	0.56
49:M3:124:ILE:HD11	49:M3:126:PHE:CZ	2.41	0.56
36:1:59:G:H2'	38:4:33:A:O2'	2.06	0.56
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.41	0.56
2:S0:118:PRO:HG2	2:S0:141:ILE:HD13	2.16	0.56
87:5:4021:OHX:N3	87:5:4216:OHX:N4	2.53	0.56
36:1:528:U:H2'	36:1:529:A:H8	1.71	0.56
36:1:3138:U:C2'	36:1:3139:A:H5''	2.35	0.56
2:S0:70:PRO:HB2	2:S0:94:GLY:HA3	1.88	0.56
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.38	0.56
50:M4:17:VAL:HG12	50:M4:72:LEU:HB3	1.87	0.56
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.63	0.56
13:C1:59:PRO:HB3	13:C1:66:ILE:HD11	1.87	0.56
41:L4:16:THR:HG23	41:L4:18:ASN:N	3.19	0.56
19:C7:20:TYR:CD1	19:C7:38:ILE:HD12	3.61	0.56
48:M1:162:TRP:CZ2	48:M1:166:LYS:HD2	2.41	0.56
44:L7:118:LYS:HG3	44:L7:191:VAL:HG11	2.05	0.56
36:1:1024:G:N7	87:1:4165:OHX:N6	2.54	0.56
44:L7:136:TYR:CE2	44:L7:231:ASN:HB2	2.41	0.56
34:SR:244:ALA:HB2	34:SR:292:LEU:HB3	6.23	0.56
19:C7:47:ARG:NH1	19:C7:48:ASN:OD1	2.39	0.56
11:S9:52:ILE:HG23	11:S9:76:LEU:HD11	2.66	0.56
6:S4:31:PRO:HD2	6:S4:38:LEU:HD13	2.81	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:784:A:C6	54:M8:93:ILE:HG22	2.41	0.56
42:L5:202:GLY:O	42:L5:206:GLN:HG3	4.99	0.56
36:5:308:A:H5'	36:5:2223:A:O2'	2.06	0.56
1:6:1688:U:H2'	1:6:1689:A:C8	2.40	0.56
36:5:314:U:O4	87:5:4191:OHX:N5	2.39	0.55
2:S0:182:LEU:O	2:S0:186:GLY:HA3	2.06	0.55
8:S6:132:ARG:HD2	1:6:150:U:H1'	327.56	0.55
30:D8:58:GLU:HB3	30:D8:61:ARG:HG3	8.48	0.55
21:C9:52:GLY:HA2	21:C9:55:TYR:HD2	1.71	0.55
55:M9:109:TYR:HB3	55:M9:115:ILE:HG12	4.74	0.55
46:L9:161:LEU:HD13	46:L9:179:ILE:HG21	2.56	0.55
1:2:38:C:H2'	1:2:39:A:H5'	1.88	0.55
71:O5:92:LEU:HB3	71:O5:96:GLU:O	2.06	0.55
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	1.88	0.55
76:Q0:118:THR:OG1	76:Q0:120:GLN:HB2	2.66	0.55
36:1:2611:U:H2'	36:1:2612:U:C6	2.42	0.55
1:2:1623:C:H2'	1:2:1624:C:C6	2.40	0.55
36:5:1450:G:OP1	87:5:4228:OHX:N4	2.39	0.55
87:1:3937:OHX:N5	87:1:4198:OHX:N6	2.54	0.55
30:D8:22:ARG:HD2	1:6:1619:C:C2	344.07	0.55
36:5:1192:C:H5	87:5:4091:OHX:N4	2.05	0.55
6:S4:105:VAL:HG11	6:S4:245:LYS:H	2.13	0.55
40:L3:214:MET:SD	40:L3:281:LYS:HG3	2.46	0.55
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	3.01	0.55
36:1:1103:A:N3	36:1:1103:A:H2'	2.21	0.55
34:SR:70:ASP:OD1	34:SR:71:CYS:N	2.37	0.55
65:N9:14:ARG:CZ	65:N9:18:ARG:HH11	3.91	0.55
1:6:1579:U:OP1	87:6:2183:OHX:N4	2.39	0.55
87:1:3971:OHX:N6	87:1:4156:OHX:N2	2.54	0.55
14:C2:119:SER:OG	1:6:1228:G:OP1	465.14	0.55
36:1:2883:U:H2'	36:1:2884:C:H6	1.70	0.55
36:1:1029:G:H2'	36:1:1030:A:C8	2.42	0.55
14:C2:124:LYS:O	14:C2:126:TRP:N	2.32	0.55
62:N6:87:LYS:HB2	62:N6:97:ILE:HD11	3.79	0.55
36:5:3341:U:H5''	36:5:3342:A:OP2	2.06	0.55
1:2:1345:A:H2'	1:2:1348:A:H62	1.71	0.55
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.32	0.55
36:5:3195:U:H1'	36:5:3196:U:OP1	2.06	0.55
16:C4:30:VAL:HG22	16:C4:39:ILE:HG13	1.88	0.55
10:S8:96:LEU:HD13	10:S8:179:CYS:SG	2.46	0.55
72:O6:25:LYS:HB2	72:O6:28:TYR:CD2	2.74	0.55
56:N0:12:ARG:HB3	56:N0:24:LEU:HD23	1.98	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D4:7:ILE:HG21	26:D4:44:LEU:HD11	4.28	0.55
36:1:2947:G:C2	40:L3:250:ALA:HB1	2.41	0.55
38:4:52:A:N6	75:O9:27:ILE:HD13	2.21	0.55
37:7:3:U:H2'	37:7:4:U:C6	2.41	0.55
6:S4:92:LEU:O	6:S4:95:THR:HG22	6.38	0.55
45:L8:54:GLU:HG2	45:L8:57:ARG:HH21	1.71	0.55
26:D4:56:SER:HB3	26:D4:74:LEU:HB2	1.88	0.55
36:5:22:G:H1'	38:8:104:A:N3	2.20	0.55
38:8:145:U:H2'	38:8:146:U:C6	2.41	0.55
7:S5:186:ASN:ND2	7:S5:187:ILE:HD12	6.03	0.55
36:1:2683:U:H2'	36:1:2684:C:C6	2.41	0.55
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.88	0.55
23:D1:71:ARG:HG3	23:D1:83:TRP:CH2	2.41	0.55
36:1:2108:C:H1'	36:1:3344:A:C8	2.41	0.55
36:5:2234:G:O6	87:5:3963:OHX:N1	2.40	0.55
40:L3:4:ARG:HG3	40:L3:4:ARG:NH1	3.84	0.55
1:6:293:U:OP2	87:6:2137:OHX:N2	2.39	0.55
36:1:3152:U:O2'	36:1:3153:U:H5'	2.07	0.55
36:5:2510:U:O2'	36:5:2511:A:H5''	2.05	0.55
79:Q3:44:LYS:NZ	36:5:1727:G:OP1	231.03	0.55
47:M0:194:GLY:HA3	36:5:1010:G:N3	336.37	0.55
42:L5:108:ARG:CZ	42:L5:253:PHE:HB2	2.36	0.55
36:1:3294:A:H2'	36:1:3295:A:O4'	2.06	0.55
16:C4:91:THR:O	16:C4:93:THR:N	3.04	0.55
79:Q3:83:ILE:HG22	79:Q3:87:ARG:HH12	1.71	0.55
47:M0:80:SER:HB3	47:M0:147:VAL:HG11	2.20	0.55
57:N1:104:GLU:HG2	36:5:989:A:O2'	258.95	0.55
75:O9:4:GLN:HG2	36:5:1588:A:C2	126.43	0.55
22:D0:43:LYS:O	22:D0:47:GLN:HB3	3.00	0.55
36:1:2741:C:O2'	78:Q2:20:HIS:ND1	2.25	0.55
45:L8:134:TYR:CG	45:L8:190:VAL:HG11	3.96	0.55
13:C1:70:ILE:O	13:C1:71:LEU:HD23	2.06	0.55
34:SR:42:LEU:HB2	34:SR:61:PHE:HB2	1.89	0.55
9:S7:168:SER:O	9:S7:172:VAL:HG23	2.52	0.55
1:2:1291:G:H22	1:2:1324:G:H1	1.55	0.55
1:6:1766:A:H5''	87:6:2127:OHX:N3	2.22	0.55
1:2:158:U:O2'	1:2:159:U:H3'	2.06	0.55
1:2:154:G:H5'	8:S6:108:VAL:HG21	1.89	0.55
27:D5:46:LYS:HE2	27:D5:70:LYS:HD2	1.89	0.55
1:6:700:C:H2'	1:6:701:U:C6	2.41	0.55
5:S3:63:GLY:O	5:S3:66:ILE:HG22	4.86	0.55
36:5:129:U:H2'	36:5:130:A:C8	2.42	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:459:G:OP1	26:D4:109:LYS:NZ	2.40	0.55
38:8:6:U:H2'	38:8:7:U:H6	1.71	0.55
2:S0:195:TRP:NE1	2:S0:197:ILE:HD13	3.16	0.55
36:5:2659:G:H4'	36:5:2751:G:O2'	2.06	0.55
43:L6:149:ILE:HG23	43:L6:155:LEU:HD13	2.31	0.55
73:O7:2:GLY:O	73:O7:7:SER:HB3	2.10	0.55
62:N6:71:SER:HB3	62:N6:83:ASP:HB2	1.88	0.55
39:L2:241:ARG:NH2	36:5:2156:C:OP2	216.16	0.55
2:S0:122:ILE:HG23	2:S0:144:ILE:HB	3.09	0.55
11:S9:176:ASN:ND2	1:6:511:A:OP2	465.96	0.55
36:1:3078:U:H4'	36:1:3079:U:O5'	2.03	0.55
33:E1:119:ARG:HH11	33:E1:139:LEU:HD21	1.71	0.55
36:5:622:A:H2'	36:5:623:U:O4'	2.05	0.55
36:5:2971:A:H4'	36:5:2972:G:OP2	2.05	0.55
40:L3:347:SER:CB	40:L3:350:ALA:H	2.52	0.55
58:N2:47:VAL:O	58:N2:49:ASN:N	3.36	0.55
2:S0:88:LYS:HB3	2:S0:202:TYR:CZ	2.83	0.55
40:L3:173:GLN:O	40:L3:175:LYS:N	2.31	0.55
36:1:2544:U:H2'	36:1:2545:C:C6	2.41	0.55
38:4:52:A:H62	75:O9:27:ILE:HD13	1.72	0.55
1:6:987:G:O6	87:6:2121:OHX:N4	2.39	0.55
48:M1:28:ASP:HA	48:M1:31:THR:HG23	1.89	0.55
15:C3:112:LYS:O	15:C3:116:ILE:HD12	3.43	0.55
78:Q2:83:LEU:HD22	78:Q2:84:THR:H	1.71	0.55
36:5:2103:U:H2'	36:5:2104:A:C8	2.42	0.55
54:M8:86:THR:HG22	54:M8:105:ARG:HB2	1.89	0.55
36:5:847:A:H2'	36:5:848:A:C8	2.42	0.55
34:SR:167:VAL:HG23	34:SR:183:LEU:HB2	4.99	0.55
78:Q2:100:LYS:H	78:Q2:100:LYS:HE2	1.70	0.55
64:N8:16:SER:HA	36:5:942:U:N3	170.30	0.55
1:6:565:C:O2	87:6:2160:OHX:N1	2.40	0.55
9:S7:51:VAL:HG23	9:S7:53:GLY:H	4.47	0.55
78:Q2:48:SER:O	87:Q2:503:OHX:N6	2.40	0.55
40:L3:350:ALA:O	40:L3:351:LEU:HB2	2.07	0.55
54:M8:170:ARG:O	54:M8:171:LYS:HB3	2.05	0.55
22:D0:18:GLN:O	22:D0:96:PRO:HB3	3.84	0.55
36:5:2896:A:H5'	36:5:2896:A:C8	2.42	0.55
19:C7:13:SER:HA	19:C7:54:THR:HG22	1.87	0.55
77:Q1:1:MET:HB2	1:6:1783:C:OP2	310.24	0.55
26:D4:60:PHE:O	1:6:523:G:H5'	413.38	0.55
46:L9:28:VAL:HG22	46:L9:33:THR:HB	2.89	0.55
36:5:955:U:H2'	36:5:956:U:H6	1.71	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:77:A:H5'	49:M3:100:ARG:NH1	2.21	0.55
1:2:1488:G:H5'	1:2:1489:U:OP1	2.07	0.55
5:S3:38:GLU:OE1	5:S3:40:ARG:NE	2.30	0.55
30:D8:10:ALA:HA	30:D8:32:PHE:HA	1.89	0.55
1:2:778:G:H22	26:D4:10:ARG:NH2	2.04	0.55
75:O9:10:LYS:HD2	36:5:1833:G:H5''	108.47	0.55
36:1:1307:G:OP1	52:M6:59:ARG:NH1	2.40	0.55
36:1:86:G:O2'	49:M3:11:LYS:HD3	2.05	0.55
36:5:549:U:H2'	36:5:550:A:C8	2.40	0.55
55:M9:89:LEU:HD12	55:M9:90:PRO:HD2	2.60	0.55
6:S4:5:PRO:HB2	6:S4:7:LYS:HE3	1.88	0.55
68:O2:59:SER:OG	36:5:1405:U:OP2	185.83	0.55
36:5:3374:U:O4	87:5:4036:OHX:N5	2.40	0.55
41:L4:319:LYS:O	41:L4:320:ASN:HB2	2.07	0.55
33:E1:97:LYS:HE2	1:6:1231:U:C5	439.06	0.55
77:Q1:9:ARG:CG	77:Q1:9:ARG:HH11	2.27	0.55
42:L5:270:LYS:HG2	37:7:2:G:H5'	319.87	0.55
7:S5:112:ARG:HD3	27:D5:95:HIS:NE2	2.21	0.55
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.88	0.55
27:D5:39:ALA:O	27:D5:72:GLY:N	2.37	0.55
48:M1:86:VAL:HG21	48:M1:112:LEU:HD22	1.88	0.55
36:1:2314:U:O2'	36:1:2315:G:OP1	2.22	0.55
36:5:1363:A:OP2	87:5:4199:OHX:N3	2.40	0.55
1:2:1381:U:H1'	1:2:1516:A:N6	2.21	0.55
16:C4:86:THR:HB	16:C4:91:THR:HG22	2.47	0.55
46:L9:49:ASN:O	46:L9:51:GLN:N	2.40	0.55
56:N0:26:ARG:HH11	57:N1:150:THR:HG21	2.60	0.55
36:1:3195:U:O2'	36:1:3197:G:N2	2.39	0.55
38:8:77:A:H2'	38:8:78:G:O4'	2.07	0.55
2:S0:79:ARG:NH1	2:S0:164:ASN:O	3.53	0.55
11:S9:92:LYS:HA	11:S9:92:LYS:HE3	1.89	0.55
8:S6:21:GLU:O	8:S6:25:ARG:HB2	2.07	0.55
1:2:1181:U:O4	87:2:2118:OHX:N6	2.40	0.55
78:Q2:74:CYS:HB3	78:Q2:77:CYS:SG	2.83	0.55
7:S5:43:PHE:N	7:S5:46:TRP:O	2.74	0.55
1:2:1429:G:H21	22:D0:72:ASN:HD21	1.55	0.55
25:D3:53:VAL:HG23	25:D3:100:ASP:O	2.07	0.55
77:Q1:9:ARG:NH1	77:Q1:9:ARG:HG3	2.18	0.55
11:S9:149:ARG:NE	1:6:765:G:N7	429.71	0.55
87:2:2043:OHX:N1	87:2:2098:OHX:N5	2.55	0.55
1:6:848:C:H2'	1:6:849:C:C6	2.42	0.55
36:5:1064:A:H4'	36:5:1065:A:O5'	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
87:1:4032:OHX:N2	87:1:4044:OHX:N1	2.54	0.55
51:M5:135:VAL:HG13	51:M5:142:ILE:HG12	2.40	0.55
36:5:2726:C:O2'	36:5:2727:A:H2'	2.07	0.55
44:L7:144:ILE:O	44:L7:148:VAL:HG23	2.07	0.55
68:O2:11:LYS:O	68:O2:13:HIS:N	2.40	0.55
36:5:830:A:O2'	36:5:1866:C:H2'	2.05	0.55
40:L3:210:GLU:O	40:L3:213:GLU:HB2	2.79	0.55
1:6:485:A:C5	1:6:486:G:H1'	2.42	0.55
13:C1:73:GLY:HA3	13:C1:86:ILE:HD12	1.89	0.55
1:2:1794:A:H1'	28:D6:79:ILE:HD13	1.89	0.55
1:2:853:G:N7	55:M9:173:ARG:NH2	2.54	0.55
87:2:2089:OHX:N1	87:2:2130:OHX:N4	2.55	0.55
1:6:152:U:C2	1:6:163:G:N2	2.74	0.55
36:1:1230:G:N2	36:1:1279:C:N3	2.43	0.55
72:O6:27:SER:O	72:O6:28:TYR:HB2	2.05	0.55
87:6:2061:OHX:N1	87:6:2148:OHX:N4	2.55	0.55
47:M0:77:THR:HG22	47:M0:85:PHE:HZ	1.71	0.55
1:6:188:A:H2'	1:6:189:C:O4'	2.06	0.55
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	1.88	0.55
87:5:4012:OHX:N6	87:5:4200:OHX:N2	2.55	0.55
52:M6:116:LYS:HG3	52:M6:117:ARG:N	2.20	0.55
47:M0:78:THR:OG1	47:M0:79:VAL:N	3.20	0.55
1:6:1450:U:OP2	87:6:2129:OHX:N4	2.40	0.55
41:L4:216:VAL:HG22	41:L4:227:THR:OG1	5.82	0.55
46:L9:44:THR:HG22	36:5:3186:A:N3	327.40	0.55
36:1:863:C:H2'	36:1:864:G:O4'	2.07	0.55
15:C3:83:GLU:HG3	15:C3:84:ILE:HD13	6.45	0.55
36:5:1081:U:O2'	36:5:1082:U:O5'	2.22	0.55
40:L3:106:TRP:CH2	40:L3:161:LEU:HD13	2.82	0.55
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.42	0.55
63:N7:70:PRO:HG3	63:N7:115:LYS:HB2	1.93	0.55
36:1:2554:A:N7	79:Q3:62:LYS:NZ	2.47	0.55
36:5:2402:A:OP2	87:5:4110:OHX:N3	2.40	0.55
36:5:3275:U:H4'	36:5:3276:G:OP2	2.06	0.54
64:N8:42:ARG:HD2	64:N8:46:ASP:OD2	3.13	0.54
4:S2:39:THR:HB	4:S2:42:GLY:H	1.71	0.54
36:5:2896:A:H8	36:5:2896:A:H5'	1.71	0.54
11:S9:129:ILE:HA	11:S9:134:ILE:CG1	4.26	0.54
14:C2:97:LEU:HD12	14:C2:118:ALA:HB3	2.89	0.54
2:S0:112:THR:HG23	2:S0:114:SER:H	2.04	0.54
1:2:1450:U:OP2	87:2:2061:OHX:N5	2.39	0.54
87:5:4056:OHX:N3	87:5:4199:OHX:N4	2.55	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1477:G:H2'	1:2:1478:G:C8	2.42	0.54
10:S8:103:GLN:HB3	10:S8:164:ARG:HG2	1.88	0.54
36:1:1778:G:O2'	36:1:1780:G:OP2	2.22	0.54
12:C0:23:ALA:O	12:C0:24:LYS:HB3	4.63	0.54
1:2:139:C:O2'	8:S6:187:LYS:NZ	2.39	0.54
64:N8:104:THR:HG21	64:N8:112:ILE:HD11	2.18	0.54
1:6:369:A:O2'	1:6:371:G:OP2	2.17	0.54
36:1:719:U:H6	36:1:719:U:H5''	1.71	0.54
36:1:1524:A:OP1	61:N5:92:LYS:NZ	2.37	0.54
36:1:1567:U:H5	36:1:1568:U:C2	2.24	0.54
23:D1:56:SER:OG	23:D1:59:VAL:HG23	2.07	0.54
36:1:2983:C:OP1	87:1:4189:OHX:N3	2.40	0.54
57:N1:101:CYS:HB3	36:5:990:U:H1'	252.36	0.54
46:L9:8:GLN:NE2	46:L9:69:ARG:HG2	3.13	0.54
17:C5:128:HIS:O	17:C5:130:ARG:HG2	2.07	0.54
36:1:1724:U:H4'	36:1:1725:C:OP1	2.08	0.54
87:5:4012:OHX:N4	87:5:4200:OHX:N1	2.55	0.54
57:N1:39:ILE:HD12	57:N1:102:ARG:HD3	1.88	0.54
58:N2:90:ARG:O	58:N2:91:ASP:HB2	2.08	0.54
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.41	0.54
34:SR:24:ALA:HB2	34:SR:72:THR:HA	1.88	0.54
36:5:1724:U:H1'	36:5:1725:C:C6	2.42	0.54
36:5:908:G:H4'	36:5:909:G:O5'	2.07	0.54
1:2:481:A:H61	1:2:505:A:N6	2.05	0.54
6:S4:64:ILE:HD13	26:D4:17:LEU:HD13	1.89	0.54
1:2:25:C:H4'	1:2:25:C:OP2	2.07	0.54
36:1:2777:G:H5'	36:1:2779:A:OP2	2.07	0.54
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.06	0.54
53:M7:58:ILE:HG13	53:M7:84:PRO:HD2	1.90	0.54
59:N3:13:ILE:HG13	59:N3:14:SER:N	2.46	0.54
23:D1:39:VAL:HG12	23:D1:45:ALA:HA	1.89	0.54
3:S1:70:LEU:HB3	3:S1:79:HIS:HB3	5.23	0.54
87:5:4002:OHX:N6	87:5:4090:OHX:N5	2.55	0.54
49:M3:98:ASP:OD1	49:M3:100:ARG:HG2	2.36	0.54
87:1:4003:OHX:N6	87:1:4172:OHX:N5	2.54	0.54
87:1:4032:OHX:N4	87:1:4044:OHX:N3	2.55	0.54
20:C8:86:LEU:HG	20:C8:99:HIS:HB2	1.89	0.54
59:N3:80:ARG:HD3	59:N3:117:PRO:O	2.80	0.54
1:2:7:G:O6	4:S2:205:ARG:NH2	2.41	0.54
32:E0:39:LEU:O	32:E0:43:ARG:N	2.78	0.54
47:M0:191:LYS:HE2	47:M0:212:GLU:OE2	2.07	0.54
32:E0:18:THR:HG21	1:6:584:C:H1'	390.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:245:ASP:N	4:S2:245:ASP:OD1	2.28	0.54
1:2:799:A:H5''	6:S4:201:HIS:CE1	2.42	0.54
36:1:1789:G:N7	87:1:4168:OHX:N2	2.54	0.54
87:5:3974:OHX:N4	87:5:4242:OHX:N2	2.55	0.54
18:C6:58:ASP:C	18:C6:60:PHE:H	2.11	0.54
36:5:2946:A:H5''	36:5:2947:G:H5'	1.88	0.54
36:5:2093:A:O2'	36:5:2094:C:O4'	2.19	0.54
55:M9:4:LEU:O	55:M9:7:GLN:HG2	5.22	0.54
33:E1:84:VAL:HG23	33:E1:85:TYR:HD1	7.46	0.54
46:L9:26:LYS:HG3	46:L9:35:THR:HG22	1.89	0.54
1:2:927:C:H2'	1:2:928:U:C6	2.43	0.54
35:SM:25:ILE:HG22	48:M1:46:VAL:HG23	2.28	0.54
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	1.89	0.54
50:M4:24:LYS:HE2	50:M4:25:LYS:HE2	1.89	0.54
31:D9:14:TYR:OH	1:6:1553:G:O2'	403.12	0.54
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.41	0.54
29:D7:58:SER:O	29:D7:60:SER:N	3.46	0.54
1:6:470:A:H5''	1:6:470:A:H8	1.72	0.54
1:2:901:G:N2	16:C4:54:GLU:OE1	2.40	0.54
36:5:1409:G:O6	87:5:4162:OHX:N6	2.40	0.54
36:5:408:A:N6	38:8:15:G:H1'	2.22	0.54
64:N8:13:GLY:HA2	36:5:943:U:H3'	164.43	0.54
36:5:501:A:H2'	36:5:502:U:C6	2.42	0.54
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.42	0.54
36:5:958:C:H5'	36:5:2799:A:H2'	1.90	0.54
36:5:438:A:H4'	36:5:439:C:OP2	2.07	0.54
87:2:2030:OHX:N6	87:2:2145:OHX:N2	2.55	0.54
1:2:734:A:H4'	1:2:735:C:H5'	1.88	0.54
1:2:190:C:O2'	1:2:191:C:H5'	2.08	0.54
8:S6:102:VAL:HG13	8:S6:106:LEU:HD12	1.89	0.54
36:1:3139:A:H5'	36:1:3139:A:H8	1.72	0.54
36:1:2989:U:O2'	40:L3:232:ARG:NH2	2.40	0.54
5:S3:144:ALA:HB1	35:SM:101:ASP:OD2	2.07	0.54
1:6:219:A:H2'	1:6:831:U:O2	2.08	0.54
45:L8:68:ARG:O	45:L8:69:LEU:HB2	4.55	0.54
52:M6:18:ARG:O	52:M6:22:VAL:HG13	2.08	0.54
87:1:3937:OHX:N5	87:1:4198:OHX:N2	2.54	0.54
36:1:3082:C:H2'	36:1:3083:G:C8	2.42	0.54
11:S9:36:LEU:O	32:E0:33:ARG:HG3	2.08	0.54
41:L4:334:PHE:CD1	41:L4:339:LEU:HD11	4.72	0.54
36:1:1924:U:OP1	77:Q1:25:LYS:NZ	2.40	0.54
1:6:1657:U:H4'	1:6:1658:G:OP2	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
63:N7:3:LYS:O	63:N7:6:LYS:HG3	2.07	0.54
36:5:2560:C:O2	87:5:4032:OHX:N2	2.41	0.54
1:2:218:A:O2'	1:2:219:A:OP1	2.23	0.54
20:C8:28:ILE:O	20:C8:32:LEU:HG	2.08	0.54
41:L4:33:ASP:O	41:L4:37:THR:HG23	2.06	0.54
63:N7:41:ALA:HB2	63:N7:77:TYR:HE2	5.93	0.54
1:2:131:C:O2'	1:2:132:U:OP1	2.25	0.54
46:L9:92:TYR:HB2	46:L9:142:ASP:HB3	1.89	0.54
43:L6:107:ALA:O	43:L6:109:GLU:HG2	2.08	0.54
49:M3:177:LYS:HA	72:O6:11:LEU:HD13	3.27	0.54
21:C9:47:PRO:HA	1:6:1477:G:O2'	375.94	0.54
87:6:2061:OHX:N5	87:6:2148:OHX:N6	2.55	0.54
3:S1:135:LEU:HA	3:S1:217:LEU:O	2.07	0.54
27:D5:102:THR:HG22	27:D5:103:ARG:H	2.10	0.54
36:1:562:C:H2'	36:1:563:U:C6	2.40	0.54
40:L3:143:GLY:O	40:L3:147:GLU:HG2	2.07	0.54
6:S4:86:PHE:O	6:S4:87:MET:HB2	2.07	0.54
46:L9:126:VAL:HG21	46:L9:161:LEU:HA	1.90	0.54
46:L9:166:ARG:HD2	46:L9:168:ARG:NH1	12.08	0.54
87:1:3937:OHX:N3	87:1:4198:OHX:N6	2.55	0.54
73:O7:2:GLY:N	36:5:2138:A:HO2'	174.23	0.54
36:5:2580:A:O2'	87:5:4130:OHX:N1	2.40	0.54
36:1:3233:C:H2'	36:1:3234:A:C8	2.43	0.54
1:6:794:U:H4'	1:6:795:U:OP2	2.06	0.54
1:6:454:U:H5''	1:6:455:C:C5	2.42	0.54
12:C0:77:ARG:HE	12:C0:83:PRO:HA	6.70	0.54
36:1:1658:G:H2'	36:1:1659:U:C6	2.43	0.54
51:M5:190:THR:HB	51:M5:193:ARG:NH2	2.22	0.54
52:M6:110:PRO:HA	52:M6:113:ASP:OD2	2.07	0.54
1:2:397:A:O3'	10:S8:50:GLY:HA2	2.08	0.54
74:O8:5:ILE:HG22	74:O8:54:LEU:HD13	2.83	0.54
2:S0:184:LEU:HB3	23:D1:45:ALA:HB2	1.89	0.54
87:5:4002:OHX:N6	87:5:4090:OHX:N2	2.55	0.54
1:2:657:U:O2	1:2:677:G:N2	2.40	0.54
56:N0:1:MET:HG2	56:N0:1:MET:O	2.07	0.54
49:M3:91:ARG:CZ	49:M3:97:VAL:HB	2.80	0.54
36:1:2572:C:O2'	36:1:2573:G:O4'	2.26	0.54
24:D2:89:TRP:O	24:D2:93:LEU:HD22	2.08	0.54
21:C9:28:LEU:CD1	21:C9:29:GLU:H	2.21	0.54
1:2:539:G:OP2	1:2:539:G:H8	1.90	0.54
46:L9:77:ASN:HA	46:L9:80:THR:HG23	4.34	0.54
6:S4:185:GLY:N	6:S4:189:LEU:HD13	2.23	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:E1:135:HIS:HB2	33:E1:138:ARG:HB3	1.89	0.54
42:L5:211:LEU:HB3	42:L5:219:PHE:HD2	1.72	0.54
21:C9:6:VAL:HG13	21:C9:66:TYR:CZ	2.72	0.54
36:5:3269:U:H5'	36:5:3271:G:O4'	2.08	0.54
3:S1:146:GLN:O	3:S1:148:ASN:N	2.35	0.54
1:6:1458:G:H5''	1:6:1459:C:OP2	2.07	0.54
36:5:742:G:N7	87:5:4004:OHX:N4	2.55	0.54
36:5:1567:U:H2'	36:5:1568:U:H4'	1.90	0.54
31:D9:6:VAL:O	31:D9:8:PHE:N	4.55	0.54
32:E0:46:ASN:OD1	32:E0:47:VAL:N	2.52	0.54
7:S5:36:ALA:HB1	7:S5:42:LEU:HD21	1.89	0.54
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.90	0.54
36:5:621:A:H2'	36:5:622:A:C8	2.41	0.54
1:6:162:A:H2'	1:6:163:G:C8	2.42	0.54
38:4:68:G:OP2	87:O7:103:OHX:N6	2.40	0.54
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.26	0.54
45:L8:160:ILE:HG23	45:L8:164:VAL:HG13	3.70	0.54
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.72	0.54
71:O5:119:LYS:NZ	71:O5:119:LYS:HA	3.28	0.54
55:M9:104:ARG:NH1	36:5:1949:G:OP1	222.78	0.54
21:C9:30:VAL:HG12	21:C9:54:PHE:CD2	2.42	0.54
87:5:4056:OHX:N1	87:5:4199:OHX:N2	2.55	0.54
39:L2:241:ARG:HG2	36:5:2155:G:OP1	221.83	0.54
78:Q2:83:LEU:HD22	78:Q2:84:THR:N	2.23	0.54
36:1:325:A:H5''	36:1:326:U:OP2	2.08	0.54
63:N7:72:ILE:HD13	63:N7:111:LYS:HG3	1.89	0.54
45:L8:74:THR:HB	45:L8:230:LYS:HZ1	1.72	0.54
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.39	0.54
35:SM:51:ARG:HB2	35:SM:52:PRO:HD2	1.88	0.54
36:5:1103:A:H3'	36:5:1104:G:H5'	1.90	0.54
36:5:1481:A:O4'	36:5:1481:A:OP1	2.25	0.54
14:C2:32:LEU:HD22	14:C2:41:LEU:HD21	2.77	0.54
36:1:3159:C:H2'	36:1:3160:U:C6	2.43	0.54
21:C9:138:GLN:O	21:C9:141:GLU:HG3	4.32	0.54
18:C6:114:ARG:H	18:C6:116:LEU:HD22	1.72	0.54
7:S5:33:VAL:O	7:S5:37:GLN:HB2	2.40	0.54
75:O9:9:ILE:O	75:O9:13:MET:HG3	2.08	0.54
41:L4:269:SER:C	41:L4:271:LYS:H	2.07	0.54
1:2:1783:C:H2'	1:2:1784:C:C6	2.43	0.54
36:1:3060:C:OP1	87:1:4038:OHX:N4	2.41	0.54
66:O0:16:LEU:HB3	66:O0:98:SER:HB2	1.88	0.54
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.30	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:362:U:OP1	73:O7:45:ARG:NH2	2.41	0.54
1:6:219:A:N6	1:6:843:U:C2	2.76	0.54
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.42	0.54
7:S5:163:SER:HB2	30:D8:48:VAL:HG22	1.89	0.54
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.36	0.54
61:N5:103:TYR:HB3	61:N5:135:ILE:HD11	2.35	0.54
14:C2:63:VAL:HG11	14:C2:94:ALA:HB2	1.89	0.54
25:D3:51:GLY:O	25:D3:101:GLU:HA	2.77	0.54
42:L5:155:THR:HG22	42:L5:179:ARG:NH1	2.23	0.54
44:L7:137:GLY:HA3	44:L7:236:ILE:HB	1.90	0.54
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.43	0.54
36:5:863:C:H2'	36:5:864:G:O4'	2.07	0.54
7:S5:73:THR:HG23	18:C6:114:ARG:HB3	3.96	0.54
25:D3:127:VAL:O	25:D3:130:VAL:HG22	2.08	0.54
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.37	0.54
1:6:1765:A:OP2	87:6:2127:OHX:N4	2.41	0.54
36:1:239:G:HO2'	36:1:240:U:P	2.30	0.54
6:S4:163:ASP:HB3	6:S4:166:SER:O	2.08	0.54
36:1:860:G:O5'	39:L2:181:LYS:NZ	2.37	0.54
24:D2:105:THR:HG23	24:D2:110:ILE:HG13	2.96	0.54
40:L3:305:ILE:HG12	40:L3:321:PHE:CZ	2.43	0.54
53:M7:60:PHE:HB3	53:M7:64:ASN:HB3	1.89	0.54
36:5:182:U:H2'	36:5:183:G:C8	2.42	0.54
68:O2:91:THR:HG22	68:O2:92:TYR:HD2	1.71	0.54
6:S4:4:GLY:HA3	1:6:93:A:O2'	330.22	0.54
78:Q2:3:ASN:O	36:5:2655:U:H2'	239.38	0.54
87:1:3971:OHX:N5	87:1:4156:OHX:N2	2.56	0.54
87:5:4056:OHX:N5	87:5:4199:OHX:N6	2.55	0.54
36:1:719:U:C6	36:1:719:U:H5''	2.42	0.54
44:L7:219:LYS:O	44:L7:228:SER:HB2	2.32	0.54
1:2:1015:U:OP1	87:2:2044:OHX:N3	2.41	0.54
52:M6:127:LEU:HD22	56:N0:156:VAL:HG12	1.90	0.54
3:S1:47:LEU:HD12	3:S1:47:LEU:H	2.71	0.54
37:7:95:A:OP2	87:7:226:OHX:N1	2.41	0.54
57:N1:122:GLN:O	57:N1:124:VAL:HG23	6.90	0.54
10:S8:21:PHE:CZ	10:S8:22:ARG:HD3	2.43	0.54
4:S2:140:ARG:HH22	4:S2:228:ASN:HD21	1.55	0.53
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.41	0.53
19:C7:77:GLU:HG2	19:C7:80:ARG:NH2	6.65	0.53
41:L4:283:THR:HG21	41:L4:288:ARG:HH22	7.39	0.53
1:6:1039:A:O2'	1:6:1040:G:OP2	2.21	0.53
36:1:2094:C:H2'	36:1:2095:G:C8	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:S7:15:GLU:O	9:S7:19:GLN:HG2	2.08	0.53
19:C7:104:ASN:O	19:C7:106:THR:N	3.71	0.53
53:M7:31:GLU:CG	53:M7:60:PHE:HA	3.50	0.53
1:2:1678:A:OP1	10:S8:59:ARG:NH1	2.39	0.53
12:C0:58:GLN:HB3	12:C0:65:TYR:HB2	2.64	0.53
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.41	0.53
36:1:1763:U:H5'	36:1:1764:U:OP2	2.08	0.53
41:L4:64:SER:HA	41:L4:75:PRO:HA	1.90	0.53
46:L9:38:LEU:HD13	46:L9:71:VAL:HG13	1.90	0.53
45:L8:213:LYS:O	45:L8:217:THR:HG22	5.88	0.53
15:C3:72:MET:HE3	15:C3:81:ALA:HB1	1.90	0.53
1:2:307:G:OP1	13:C1:90:TYR:OH	2.24	0.53
24:D2:83:ILE:HG12	24:D2:117:ARG:HH12	1.73	0.53
36:1:1240:A:H61	36:1:1244:A:H5''	1.73	0.53
49:M3:16:LYS:O	49:M3:17:HIS:HB2	4.64	0.53
46:L9:94:TYR:CD2	46:L9:98:PRO:HA	2.95	0.53
49:M3:42:ARG:O	49:M3:46:ILE:HB	2.08	0.53
36:5:566:G:N7	87:5:4131:OHX:N5	2.56	0.53
74:O8:58:ASP:OD2	74:O8:61:LYS:N	2.26	0.53
51:M5:28:TRP:O	51:M5:32:GLN:HG2	2.08	0.53
1:6:199:G:HO2'	1:6:200:A:H8	1.56	0.53
36:1:383:G:O6	87:1:4061:OHX:N2	2.41	0.53
66:O0:40:LYS:HD3	66:O0:93:LEU:O	2.39	0.53
36:5:181:U:H1'	36:5:236:G:N2	2.22	0.53
21:C9:32:GLY:H	21:C9:34:VAL:HG12	1.73	0.53
87:5:3974:OHX:N1	87:5:4242:OHX:N2	2.56	0.53
36:5:2234:G:N7	87:5:3963:OHX:N1	2.56	0.53
69:O3:48:ARG:HH11	69:O3:48:ARG:CG	2.20	0.53
40:L3:347:SER:HB2	40:L3:350:ALA:H	2.85	0.53
3:S1:41:ARG:HH22	3:S1:232:HIS:HA	3.42	0.53
51:M5:172:ARG:NH2	36:5:63:A:OP1	104.01	0.53
9:S7:15:GLU:O	9:S7:19:GLN:HG3	3.54	0.53
26:D4:57:VAL:HB	26:D4:60:PHE:CE2	4.95	0.53
1:2:1207:C:N4	1:2:1456:C:H5	2.06	0.53
63:N7:29:HIS:HB2	63:N7:40:HIS:O	2.84	0.53
11:S9:171:ARG:NH1	11:S9:174:ARG:HD3	3.77	0.53
38:8:142:C:H2'	38:8:143:U:C6	2.43	0.53
36:5:2897:A:H2'	36:5:2899:C:C5'	2.38	0.53
36:1:3115:C:OP1	46:L9:62:ARG:NH2	2.41	0.53
1:6:1649:G:N7	87:6:2111:OHX:N2	2.55	0.53
87:1:3971:OHX:N5	87:1:4156:OHX:N1	2.57	0.53
48:M1:166:LYS:C	48:M1:168:ASP:H	2.73	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:8:6:U:H2'	38:8:7:U:C6	2.43	0.53
51:M5:80:THR:HG21	51:M5:87:GLN:HA	1.90	0.53
68:O2:16:LYS:O	68:O2:17:PHE:HB2	4.68	0.53
1:2:248:U:H4'	13:C1:36:LYS:HD3	1.89	0.53
36:1:191:U:H2'	36:1:192:C:C6	2.43	0.53
1:2:1366:U:O2'	21:C9:7:ARG:HD2	2.07	0.53
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.07	0.53
36:5:420:G:OP2	36:5:420:G:O5'	2.25	0.53
64:N8:21:ARG:NH1	36:5:1369:A:OP1	184.04	0.53
40:L3:152:LYS:HD3	40:L3:189:SER:HA	2.03	0.53
36:5:438:A:H2'	36:5:494:G:N2	2.23	0.53
15:C3:114:ARG:NH1	15:C3:114:ARG:HG2	2.16	0.53
1:2:702:G:O6	1:2:737:A:N6	2.41	0.53
1:6:694:U:H3'	1:6:695:U:O2	2.08	0.53
1:6:558:U:H4'	1:6:558:U:OP1	2.08	0.53
20:C8:91:ASP:OD1	20:C8:92:ILE:N	2.74	0.53
2:S0:175:TYR:HE1	2:S0:197:ILE:HG22	1.89	0.53
38:4:106:C:O2'	87:4:233:OHX:N4	2.41	0.53
71:O5:21:LEU:HD22	71:O5:25:LYS:HD2	2.25	0.53
63:N7:54:THR:HG22	63:N7:57:HIS:CE1	3.28	0.53
53:M7:178:ALA:O	53:M7:181:ARG:N	2.42	0.53
1:6:1091:A:H4'	1:6:1092:A:O5'	2.08	0.53
36:5:2697:A:H2'	36:5:2698:G:C8	2.43	0.53
36:1:674:G:O4'	41:L4:117:GLU:HG3	2.09	0.53
34:SR:144:LEU:HD21	34:SR:186:PHE:HB3	4.77	0.53
18:C6:50:GLU:OE1	18:C6:114:ARG:NH1	2.41	0.53
36:1:3344:A:H2	36:1:3361:G:N2	2.00	0.53
22:D0:105:GLN:HG3	22:D0:106:ILE:N	2.24	0.53
48:M1:137:ARG:HG2	48:M1:141:ARG:HB3	1.91	0.53
36:1:1245:A:H3'	36:1:1246:G:H5''	1.89	0.53
1:6:85:A:OP1	87:6:2189:OHX:N4	2.42	0.53
1:2:1518:C:OP2	87:2:2120:OHX:N2	2.42	0.53
53:M7:88:VAL:O	53:M7:92:GLN:HG2	2.08	0.53
57:N1:102:ARG:O	57:N1:102:ARG:HG3	2.86	0.53
87:8:216:OHX:N5	87:8:223:OHX:N3	2.56	0.53
36:1:1564:U:H2'	36:1:1565:G:C8	2.44	0.53
48:M1:166:LYS:O	48:M1:168:ASP:N	3.58	0.53
47:M0:194:GLY:HA3	36:5:1010:G:H21	336.97	0.53
1:2:1367:G:N7	87:2:2108:OHX:N6	2.56	0.53
36:1:1110:U:H2'	36:1:1111:U:C6	2.43	0.53
31:D9:10:HIS:CG	31:D9:11:PRO:HD2	2.44	0.53
20:C8:47:CYS:HB3	20:C8:54:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:M9:3:ASN:OD1	36:5:1471:U:H4'	114.17	0.53
77:Q1:16:LYS:O	77:Q1:20:VAL:HG23	2.35	0.53
48:M1:72:ARG:NH2	37:7:40:C:O2	307.61	0.53
1:6:1451:C:H2'	1:6:1452:U:C6	2.44	0.53
12:C0:76:LEU:HD22	12:C0:79:TYR:HB3	5.60	0.53
5:S3:117:ARG:HE	35:SM:122:GLU:HB3	1.72	0.53
45:L8:50:VAL:HG22	45:L8:52:TRP:CE2	2.43	0.53
4:S2:140:ARG:NH1	23:D1:10:GLU:OE1	5.48	0.53
28:D6:36:ILE:HD11	28:D6:83:ILE:HG22	1.89	0.53
48:M1:49:LYS:HD3	48:M1:62:ASN:HB3	1.90	0.53
36:1:155:G:H5''	36:1:156:G:C8	2.44	0.53
39:L2:68:LYS:HD3	39:L2:70:ARG:NH2	4.46	0.53
40:L3:345:ASN:OD1	40:L3:346:THR:N	2.50	0.53
4:S2:37:PRO:HA	4:S2:65:GLU:OE1	2.70	0.53
36:1:1246:G:H8	36:1:1246:G:OP1	1.90	0.53
36:1:3309:G:O6	40:L3:21:ARG:NH2	2.42	0.53
87:1:3971:OHX:N3	87:1:4156:OHX:N4	2.57	0.53
42:L5:153:THR:HG23	42:L5:160:PHE:CZ	2.43	0.53
34:SR:52:GLN:OE1	34:SR:52:GLN:N	3.14	0.53
62:N6:63:LYS:HE3	62:N6:97:ILE:HD13	1.89	0.53
54:M8:122:ILE:HD11	54:M8:130:ARG:NH1	4.10	0.53
46:L9:112:ILE:HD11	46:L9:134:ILE:HD13	1.89	0.53
54:M8:87:VAL:O	54:M8:107:THR:HG23	2.08	0.53
56:N0:74:ASN:OD1	56:N0:95:ARG:NH1	3.07	0.53
37:3:10:C:OP2	57:N1:26:HIS:HD2	1.91	0.53
46:L9:37:ASN:OD1	46:L9:39:LYS:HB2	2.44	0.53
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.38	0.53
1:6:1590:G:OP2	87:6:2158:OHX:N6	2.41	0.53
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.09	0.53
1:2:740:A:C2'	1:2:741:C:H5''	2.34	0.53
47:M0:30:LYS:HG3	47:M0:63:GLU:OE1	4.20	0.53
61:N5:56:ARG:NH2	38:8:135:G:OP2	82.76	0.53
87:2:2043:OHX:N4	87:2:2098:OHX:N6	2.57	0.53
36:1:1103:A:H1'	36:1:1104:G:OP1	2.08	0.53
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.56	0.53
36:1:118:U:O2	36:1:121:A:H5'	2.09	0.53
36:1:121:A:C2	45:L8:129:PRO:HB3	2.44	0.53
1:2:1214:U:OP1	1:2:1246:C:H1'	2.09	0.53
11:S9:118:LEU:HD23	11:S9:158:PHE:CE1	3.38	0.53
51:M5:93:LYS:O	51:M5:94:TYR:HB3	2.08	0.53
73:O7:45:ARG:NH2	36:5:361:A:O3'	123.64	0.53
5:S3:34:TYR:HE2	5:S3:37:VAL:HG13	3.03	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2746:A:C6	42:L5:148:ILE:HD12	2.43	0.53
36:1:2513:U:O2'	36:1:2592:G:N1	2.28	0.53
10:S8:49:ARG:O	10:S8:52:ASN:ND2	3.00	0.53
46:L9:168:ARG:HD2	36:5:2894:C:OP1	307.12	0.53
41:L4:67:THR:OG1	36:5:2402:A:H5''	173.95	0.53
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	3.64	0.53
36:5:181:U:H1'	36:5:236:G:H22	1.74	0.53
1:2:959:U:C6	15:C3:61:THR:HB	2.43	0.53
45:L8:61:GLN:HA	45:L8:64:ILE:HD12	1.91	0.53
36:1:391:A:OP2	87:1:4146:OHX:N2	2.41	0.53
42:L5:256:THR:HG23	37:7:119:U:OP1	294.40	0.53
39:L2:105:GLY:HA3	39:L2:160:SER:HB3	2.36	0.53
36:1:1615:C:OP1	87:1:4179:OHX:N3	2.42	0.53
64:N8:132:LYS:O	64:N8:136:GLU:HG3	3.33	0.53
43:L6:40:LEU:HD13	43:L6:84:VAL:HG11	2.01	0.53
1:2:1217:A:H8	1:2:1217:A:H5'	1.73	0.53
10:S8:77:ARG:HH11	10:S8:77:ARG:HG3	4.35	0.53
36:5:2440:G:H2'	36:5:2441:A:C8	2.44	0.53
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.43	0.53
36:1:3215:A:C8	50:M4:121:MET:HE1	2.40	0.53
42:L5:58:LYS:HD2	42:L5:93:THR:HG21	1.91	0.53
36:5:3279:A:C2'	36:5:3280:U:H5'	2.39	0.53
87:6:2061:OHX:N2	87:6:2148:OHX:N4	2.57	0.53
36:5:2180:G:H2'	36:5:2181:C:C6	2.44	0.53
36:1:2278:C:OP1	77:Q1:23:ARG:NH1	2.36	0.53
11:S9:129:ILE:HA	11:S9:134:ILE:HG12	4.87	0.53
10:S8:10:LYS:HG2	13:C1:133:LYS:CE	2.78	0.53
36:5:599:C:H2'	36:5:600:G:O4'	2.08	0.53
40:L3:166:ILE:O	40:L3:169:THR:HB	2.08	0.53
26:D4:27:VAL:HG21	26:D4:40:LEU:HD11	1.90	0.53
36:1:2883:U:H2'	36:1:2884:C:C6	2.43	0.53
38:4:107:G:OP2	87:4:233:OHX:N2	2.42	0.53
36:1:1675:G:H2'	36:1:1676:A:C8	2.44	0.53
1:2:199:G:HO2'	1:2:200:A:H8	1.55	0.53
36:1:268:A:C2	51:M5:12:ARG:HB3	2.44	0.53
39:L2:120:PRO:HD3	39:L2:159:SER:HB3	1.91	0.53
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.73	0.53
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	1.89	0.53
36:5:300:G:O6	87:5:4191:OHX:N2	2.41	0.53
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH1	3.28	0.53
1:2:514:G:N1	1:2:543:C:H5	2.05	0.53
58:N2:89:LEU:HD13	58:N2:93:ILE:HD11	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:M3:59:ARG:O	49:M3:60:ALA:HB3	4.64	0.53
19:C7:26:LEU:HD21	19:C7:62:GLN:HG3	4.47	0.53
9:S7:152:VAL:HG23	9:S7:181:ILE:HD11	1.91	0.53
36:5:894:G:N2	36:5:1660:C:OP1	2.41	0.53
56:N0:46:GLN:HG2	56:N0:51:VAL:O	2.09	0.53
15:C3:73:ARG:HD3	1:6:859:A:C6	330.07	0.53
12:C0:24:LYS:HD3	12:C0:63:TYR:CZ	2.95	0.53
4:S2:82:ASN:HB2	4:S2:207:LEU:HD13	1.91	0.53
36:1:1878:G:OP1	87:1:3925:OHX:N4	2.42	0.53
1:2:415:C:O2'	1:2:418:G:O6	2.20	0.53
36:1:2686:A:OP2	87:1:3897:OHX:N2	2.41	0.53
52:M6:84:LEU:HD13	52:M6:102:LEU:HD21	1.91	0.53
87:6:2122:OHX:N4	87:6:2172:OHX:N1	2.57	0.53
1:2:1597:A:OP2	31:D9:32:ARG:NH2	2.42	0.53
87:5:4067:OHX:N1	87:5:4143:OHX:N2	2.57	0.53
36:1:1688:U:H2'	36:1:1689:U:H6	1.73	0.53
12:C0:14:TYR:CE2	12:C0:21:VAL:HG22	2.44	0.53
34:SR:22:SER:OG	34:SR:70:ASP:OD1	2.20	0.53
67:O1:13:THR:CG2	67:O1:72:ARG:HH21	5.68	0.53
34:SR:132:LYS:HD3	34:SR:140:CYS:SG	2.49	0.53
36:5:3074:G:OP1	87:5:4119:OHX:N4	2.41	0.53
87:8:216:OHX:N6	87:8:223:OHX:N3	2.56	0.53
1:6:485:A:N6	1:6:486:G:N3	2.56	0.53
36:1:679:U:O4	87:1:3972:OHX:N1	2.42	0.53
40:L3:66:LYS:HE3	59:N3:124:ASP:OD2	2.09	0.53
57:N1:87:LYS:NZ	36:5:2728:G:N7	213.13	0.53
36:1:1478:C:H2'	36:1:1479:U:H6	1.73	0.53
7:S5:34:GLN:HG2	18:C6:57:LEU:HD13	1.91	0.53
36:5:2249:G:OP1	87:5:4198:OHX:N6	2.42	0.53
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.41	0.53
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.57	0.53
36:1:1507:G:N3	36:1:1507:G:H5'	2.24	0.53
36:5:437:G:N2	36:5:622:A:H61	2.02	0.53
36:1:1555:U:H5''	36:1:1556:C:OP2	2.09	0.53
87:2:2043:OHX:N1	87:2:2098:OHX:N3	2.57	0.53
40:L3:77:THR:CG2	40:L3:327:CYS:HA	2.52	0.53
21:C9:16:ASN:HA	21:C9:56:LYS:NZ	3.09	0.53
5:S3:34:TYR:OH	5:S3:37:VAL:HG22	2.09	0.53
36:1:408:A:OP1	87:1:4056:OHX:N3	2.42	0.53
1:6:219:A:C6	1:6:843:U:H1'	2.43	0.53
9:S7:78:THR:HG22	9:S7:92:PHE:HE1	3.22	0.53
7:S5:163:SER:HB2	30:D8:48:VAL:HG13	3.62	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.91	0.53
45:L8:27:THR:HB	36:5:2563:G:H5''	208.97	0.53
36:1:2403:G:H21	36:1:2404:A:N6	2.07	0.53
34:SR:93:ASP:HB2	34:SR:100:TYR:CE1	2.44	0.53
45:L8:89:GLU:HB3	45:L8:214:LEU:HD11	2.44	0.53
87:5:4056:OHX:N5	87:5:4199:OHX:N2	2.57	0.53
1:2:1474:G:H2'	1:2:1475:A:C8	2.44	0.53
3:S1:24:PHE:HA	3:S1:27:LYS:HG3	3.55	0.53
36:5:3180:A:O2'	36:5:3181:C:H5'	2.09	0.53
1:6:828:U:H2'	1:6:829:A:H5''	1.91	0.53
63:N7:16:GLY:O	63:N7:18:TYR:N	3.21	0.53
39:L2:80:GLU:OE1	79:Q3:73:THR:HB	2.08	0.52
33:E1:102:VAL:O	33:E1:104:SER:N	2.42	0.52
64:N8:18:GLY:O	36:5:1370:G:H5''	175.83	0.52
39:L2:204:MET:CE	39:L2:209:HIS:HB2	2.39	0.52
36:1:911:C:H42	39:L2:3:ARG:HD3	1.72	0.52
1:2:542:A:HO2'	1:2:542:A:H8	1.56	0.52
19:C7:22:PRO:HA	34:SR:216:LYS:HZ3	1.74	0.52
46:L9:70:THR:HG22	36:5:3113:A:H1'	329.44	0.52
36:5:2770:G:H2'	36:5:2771:U:H5'	1.91	0.52
55:M9:101:VAL:HG13	55:M9:104:ARG:NH1	2.24	0.52
1:6:1058:U:H4'	1:6:1059:U:OP1	2.08	0.52
61:N5:38:LEU:O	61:N5:39:LYS:HB2	4.31	0.52
87:8:216:OHX:N2	87:8:223:OHX:N4	2.57	0.52
1:2:72:A:C2	1:2:73:U:N3	2.77	0.52
1:6:1413:U:H4'	1:6:1414:U:OP2	2.08	0.52
45:L8:230:LYS:HG3	45:L8:230:LYS:O	2.79	0.52
19:C7:7:LYS:N	1:6:1316:G:OP1	411.19	0.52
36:5:2533:G:N2	36:5:2546:C:O2	2.37	0.52
5:S3:167:PHE:CE1	5:S3:192:PRO:HB3	2.74	0.52
45:L8:121:SER:O	45:L8:123:GLN:N	2.98	0.52
43:L6:154:LEU:HD23	43:L6:157:GLN:HB2	1.90	0.52
29:D7:41:LEU:H	29:D7:41:LEU:HD23	3.79	0.52
41:L4:229:ASN:OD1	41:L4:231:ALA:N	2.40	0.52
36:1:3:U:C2	38:4:157:U:C2	2.97	0.52
8:S6:27:PHE:O	8:S6:30:LYS:HG2	2.08	0.52
62:N6:51:ARG:HB3	62:N6:115:ARG:NH2	2.25	0.52
1:2:1340:U:C2	1:2:1378:U:H4'	2.45	0.52
87:2:2089:OHX:N5	87:2:2130:OHX:N6	2.57	0.52
25:D3:124:VAL:HG12	25:D3:125:VAL:N	2.24	0.52
1:6:542:A:OP1	1:6:544:A:C5	2.62	0.52
9:S7:50:ASP:N	9:S7:50:ASP:OD1	2.42	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1470:U:OP1	87:5:3958:OHX:N6	2.42	0.52
40:L3:55:THR:O	40:L3:56:ILE:HD12	2.08	0.52
66:O0:13:LYS:O	66:O0:17:VAL:HG23	2.09	0.52
19:C7:106:THR:O	19:C7:109:LEU:HB3	2.09	0.52
36:1:612:U:H2'	36:1:613:G:C8	2.44	0.52
51:M5:104:GLU:OE1	51:M5:161:ALA:HA	2.40	0.52
47:M0:210:ILE:HG12	47:M0:217:PHE:CE2	2.47	0.52
67:O1:13:THR:HG23	67:O1:72:ARG:HH21	5.50	0.52
4:S2:170:ILE:HB	4:S2:197:TYR:HB2	1.91	0.52
1:2:1100:G:O2'	24:D2:76:SER:N	2.42	0.52
49:M3:9:ILE:HG12	64:N8:34:MET:HE1	1.90	0.52
7:S5:186:ASN:OD1	7:S5:188:LYS:HB2	2.36	0.52
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.44	0.52
36:5:585:A:H2'	36:5:586:C:C6	2.44	0.52
51:M5:85:THR:HG23	36:5:44:U:H5''	162.40	0.52
36:5:173:G:H1'	36:5:174:C:H5'	1.91	0.52
36:5:3041:U:H2'	36:5:3042:U:C6	2.44	0.52
1:6:1584:G:H22	1:6:1611:A:P	2.32	0.52
72:O6:62:ARG:O	72:O6:63:ASN:ND2	6.03	0.52
36:1:1541:G:OP2	87:1:4019:OHX:N5	2.42	0.52
36:1:546:C:H5'	36:1:547:G:O4'	2.09	0.52
1:2:1471:A:OP1	7:S5:185:ARG:NH1	2.42	0.52
87:2:2089:OHX:N1	87:2:2130:OHX:N2	2.56	0.52
1:2:1762:A:H1'	1:2:1783:C:H5'	1.90	0.52
36:1:715:A:H5''	64:N8:114:GLY:O	2.09	0.52
46:L9:12:VAL:HG13	46:L9:16:VAL:HG22	2.73	0.52
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.61	0.52
30:D8:42:ARG:NH2	30:D8:58:GLU:O	4.70	0.52
73:O7:31:LYS:O	73:O7:33:THR:HG22	2.09	0.52
29:D7:70:LYS:NZ	1:6:1050:G:OP1	355.68	0.52
57:N1:100:LYS:C	57:N1:102:ARG:H	2.12	0.52
1:6:1600:A:H4'	1:6:1601:G:OP1	2.09	0.52
36:1:20:A:OP2	71:O5:90:ARG:NH1	2.43	0.52
11:S9:176:ASN:HA	11:S9:179:ARG:HG2	5.25	0.52
18:C6:23:LYS:H	18:C6:23:LYS:HE2	5.45	0.52
49:M3:151:ALA:O	49:M3:153:ASP:N	3.85	0.52
6:S4:252:ARG:HD3	6:S4:256:ARG:HH11	5.86	0.52
25:D3:141:GLU:OE2	25:D3:144:ARG:NH2	14.90	0.52
36:1:1808:G:O6	87:1:3981:OHX:N3	2.42	0.52
16:C4:25:ASP:OD1	16:C4:26:THR:N	2.48	0.52
46:L9:84:LYS:HA	46:L9:188:THR:HG23	1.92	0.52
57:N1:30:TYR:OH	57:N1:94:GLU:OE2	2.34	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:E1:103:LEU:HD11	1:6:1252:C:H5'	455.81	0.52
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	3.09	0.52
1:2:639:U:OP1	9:S7:117:THR:OG1	2.25	0.52
68:O2:77:ALA:HB3	68:O2:81:ASP:OD2	2.49	0.52
3:S1:135:LEU:HD21	3:S1:217:LEU:HD12	6.12	0.52
47:M0:77:THR:HG22	47:M0:85:PHE:CZ	2.44	0.52
9:S7:28:GLU:HG2	9:S7:35:LYS:HA	4.43	0.52
1:2:1067:C:H2'	1:2:1068:C:C6	2.41	0.52
27:D5:77:ARG:NH1	1:6:1533:C:OP2	353.48	0.52
14:C2:61:VAL:HA	14:C2:89:ILE:HG22	1.91	0.52
40:L3:332:ARG:O	40:L3:333:LYS:HB2	2.24	0.52
13:C1:5:LEU:HD23	13:C1:7:VAL:HA	8.13	0.52
40:L3:150:ARG:HD2	36:5:3242:G:N7	253.74	0.52
1:2:1274:C:H5	35:SM:95:SER:HA	1.74	0.52
51:M5:38:ARG:NH1	38:8:142:C:OP1	112.83	0.52
6:S4:92:LEU:HB2	6:S4:95:THR:HG21	4.49	0.52
6:S4:38:LEU:O	6:S4:41:SER:OG	2.90	0.52
38:4:137:C:OP2	87:4:233:OHX:N5	2.43	0.52
2:S0:177:LEU:O	2:S0:181:VAL:HG13	2.12	0.52
36:5:1070:U:O4	87:5:4111:OHX:N6	2.42	0.52
1:2:1073:G:H2'	1:2:1074:G:H5''	1.91	0.52
39:L2:109:GLU:HA	39:L2:136:ILE:HG22	2.02	0.52
44:L7:244:ASN:HD22	44:L7:244:ASN:C	2.11	0.52
36:5:1586:G:OP1	87:5:3992:OHX:N3	2.43	0.52
36:5:2407:C:H2'	36:5:2408:U:H6	1.73	0.52
87:1:3875:OHX:N5	51:M5:91:GLU:OE2	2.42	0.52
54:M8:153:PHE:O	54:M8:161:LYS:HG2	4.70	0.52
36:1:817:A:H8	73:O7:15:SER:HG	1.56	0.52
74:O8:32:ASN:ND2	74:O8:32:ASN:O	2.43	0.52
36:5:2534:G:H1	36:5:2545:C:H42	1.57	0.52
1:6:1490:C:H4'	1:6:1491:U:OP1	2.09	0.52
4:S2:140:ARG:HA	23:D1:10:GLU:OE1	2.10	0.52
36:5:2875:U:H2'	36:5:2876:C:O5'	2.09	0.52
1:2:1034:C:HO2'	24:D2:2:THR:N	2.07	0.52
45:L8:79:GLN:HG2	45:L8:80:TYR:N	2.24	0.52
41:L4:283:THR:HG22	41:L4:285:ASP:N	2.20	0.52
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.41	0.52
4:S2:137:ILE:HG12	4:S2:138:PRO:CD	2.39	0.52
44:L7:203:TRP:CD1	44:L7:204:PRO:HD2	2.44	0.52
36:1:715:A:H4'	36:1:716:A:OP1	2.09	0.52
87:5:4002:OHX:N3	87:5:4090:OHX:N5	2.57	0.52
1:6:1238:A:OP2	87:6:2098:OHX:N1	2.43	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:C6:99:GLU:OE2	34:SR:60:SER:HB3	4.39	0.52
67:O1:13:THR:HG22	67:O1:72:ARG:CD	2.40	0.52
36:1:2341:A:OP2	40:L3:247:ARG:NH2	2.42	0.52
40:L3:147:GLU:OE1	40:L3:150:ARG:NH2	2.96	0.52
1:6:826:U:O4	87:6:2067:OHX:N3	2.42	0.52
1:6:417:A:H5'	1:6:418:G:C5	2.44	0.52
36:1:249:U:O2	36:1:250:U:N3	2.40	0.52
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.44	0.52
46:L9:44:THR:HG22	36:5:3186:A:C2	328.03	0.52
1:2:1748:G:O6	87:2:2104:OHX:N4	2.43	0.52
36:1:900:G:H1'	36:1:1589:A:N6	2.25	0.52
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.91	0.52
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.45	0.52
78:Q2:63:LYS:NZ	36:5:2761:G:N7	212.02	0.52
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.39	0.52
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.09	0.52
1:6:660:G:H2'	1:6:661:A:H4'	1.91	0.52
45:L8:163:VAL:O	45:L8:166:LEU:HB2	2.39	0.52
8:S6:24:ILE:O	8:S6:26:VAL:N	2.86	0.52
36:5:407:A:C2	38:8:17:A:H1'	2.45	0.52
44:L7:26:VAL:HG23	44:L7:27:ALA:H	1.75	0.52
36:1:3133:C:H2'	36:1:3134:A:O4'	2.10	0.52
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.08	0.52
36:1:2790:A:OP2	54:M8:181:SER:HB3	2.10	0.52
7:S5:53:VAL:O	7:S5:55:ASP:N	2.95	0.52
7:S5:59:VAL:C	7:S5:61:TYR:H	2.42	0.52
53:M7:32:THR:HG21	53:M7:87:SER:HB3	1.91	0.52
45:L8:108:ARG:O	45:L8:112:GLU:HG3	2.10	0.52
36:1:2207:A:C2'	36:1:2208:A:H5'	2.40	0.52
26:D4:121:THR:HG22	26:D4:123:LYS:HB2	5.02	0.52
22:D0:100:VAL:O	22:D0:104:THR:HG23	2.29	0.52
11:S9:163:PRO:C	11:S9:165:GLY:H	2.13	0.52
12:C0:15:LEU:HD22	12:C0:46:LEU:HD11	1.91	0.52
11:S9:134:ILE:HA	11:S9:158:PHE:HA	1.92	0.52
40:L3:20:LYS:HD3	36:5:3139:A:H4'	223.46	0.52
87:5:4012:OHX:N3	87:5:4200:OHX:N5	2.57	0.52
36:5:3163:A:O2'	36:5:3164:C:H5'	2.09	0.52
9:S7:17:GLU:HG2	9:S7:46:ILE:HG13	2.57	0.52
36:1:3050:U:OP2	87:1:4181:OHX:N4	2.42	0.52
1:6:138:A:H62	1:6:266:A:H61	1.57	0.52
20:C8:145:ARG:HD3	35:SM:68:ARG:NH2	2.25	0.52
63:N7:45:GLY:HA3	63:N7:71:PHE:CZ	2.44	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:73:U:H2'	1:6:74:U:C6	2.44	0.52
34:SR:61:PHE:HD1	34:SR:92:TRP:CE3	2.28	0.52
36:5:173:G:HO2'	36:5:174:C:H6	1.58	0.52
1:2:839:U:C2'	1:2:840:U:H5'	2.39	0.52
59:N3:2:SER:O	59:N3:57:MET:N	5.38	0.52
34:SR:224:ASN:HD21	34:SR:226:ALA:HB3	4.73	0.52
50:M4:22:LEU:HD13	50:M4:32:LEU:HD23	1.91	0.52
38:8:27:U:H6	38:8:27:U:O5'	1.92	0.52
38:4:22:U:OP1	62:N6:12:ARG:NH2	2.41	0.52
9:S7:59:ALA:HB1	9:S7:61:PHE:CE1	2.45	0.52
1:2:1171:A:H2'	1:2:1172:G:C8	2.45	0.52
1:2:1282:U:OP1	87:2:2114:OHX:N5	2.43	0.52
1:2:280:U:O2'	1:2:281:G:OP2	2.24	0.52
7:S5:167:ARG:HH21	30:D8:55:VAL:HG21	3.97	0.52
36:5:2261:G:O2'	36:5:2263:C:N4	2.42	0.52
47:M0:86:HIS:HB3	47:M0:139:ARG:CG	2.39	0.52
40:L3:128:LYS:NZ	36:5:3294:A:OP1	198.48	0.52
45:L8:75:ILE:HD11	51:M5:18:VAL:HG23	2.16	0.52
47:M0:174:THR:HG22	47:M0:176:LEU:H	1.73	0.52
36:1:1951:C:H42	36:1:2095:G:H1	1.57	0.52
1:6:452:A:OP2	1:6:453:U:H5	1.93	0.52
36:5:2418:G:O6	87:5:4248:OHX:N2	2.43	0.52
62:N6:122:LYS:HD2	36:5:186:U:OP1	48.46	0.52
1:2:14:C:O2'	1:2:619:A:N1	2.33	0.52
1:6:217:A:C8	1:6:218:A:C8	2.98	0.52
48:M1:15:GLU:HB2	48:M1:132:ASN:ND2	2.25	0.52
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.45	0.52
1:2:851:U:H2'	1:2:852:C:C6	2.45	0.52
45:L8:134:TYR:CD2	45:L8:190:VAL:HG11	4.55	0.52
36:5:419:G:N7	87:8:214:OHX:N3	2.56	0.52
22:D0:63:LEU:HB2	22:D0:84:MET:HB3	2.45	0.52
10:S8:8:ARG:NH2	10:S8:19:ALA:O	2.43	0.52
74:O8:26:LYS:NZ	74:O8:28:ASN:OD1	2.37	0.52
87:1:3975:OHX:N1	87:1:4155:OHX:N4	2.58	0.52
36:1:1511:U:H5''	36:1:1512:U:H5	1.73	0.52
48:M1:109:HIS:HD2	48:M1:114:ILE:HG21	1.73	0.52
71:O5:82:ALA:O	38:8:38:U:H5	64.76	0.52
1:2:981:U:C2'	1:2:982:U:H5'	2.40	0.52
18:C6:127:LYS:HE2	18:C6:132:LYS:O	4.77	0.52
59:N3:66:LYS:O	59:N3:70:ARG:HG3	2.27	0.52
36:1:566:G:N7	87:1:4002:OHX:N4	2.57	0.52
7:S5:89:ILE:HD12	7:S5:90:ILE:N	2.36	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:S9:39:LYS:HB3	11:S9:43:TYR:CZ	2.64	0.52
8:S6:163:THR:HA	8:S6:168:THR:HG22	2.93	0.52
78:Q2:52:GLY:O	78:Q2:54:THR:HG23	2.10	0.52
3:S1:131:ASP:N	3:S1:131:ASP:OD1	4.26	0.52
16:C4:81:VAL:HG11	16:C4:102:LEU:HD21	1.92	0.52
36:1:3048:A:H5'	40:L3:53:MET:HE3	1.91	0.52
1:2:885:G:OP1	3:S1:136:ARG:NH1	2.43	0.52
51:M5:68:ARG:HA	51:M5:98:LEU:HD21	2.16	0.52
36:5:2278:C:OP1	87:5:4090:OHX:N6	2.43	0.52
20:C8:46:VAL:HG11	20:C8:73:MET:HE3	5.42	0.52
36:1:3309:G:N3	36:1:3309:G:H5''	2.25	0.52
70:O4:102:LYS:HB2	70:O4:103:LYS:HE3	1.90	0.52
21:C9:52:GLY:HA2	21:C9:55:TYR:CD2	2.45	0.52
52:M6:42:ASN:OD1	52:M6:125:ARG:HD3	2.10	0.52
1:2:75:U:H2'	1:2:76:A:O4'	2.10	0.52
20:C8:91:ASP:OD1	20:C8:93:THR:OG1	2.25	0.52
48:M1:94:ARG:O	48:M1:96:PHE:N	2.41	0.52
36:1:1387:G:OP1	87:1:4156:OHX:N6	2.43	0.52
38:4:78:G:H2'	38:4:79:A:C8	2.44	0.52
36:5:1657:C:N4	36:5:1798:A:OP2	2.33	0.52
60:N4:49:ILE:O	60:N4:52:THR:OG1	2.27	0.52
87:1:4028:OHX:N2	87:1:4146:OHX:N5	2.57	0.52
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.40	0.52
36:1:938:C:OP2	64:N8:26:ARG:NH1	2.43	0.52
40:L3:259:HIS:CE1	36:5:2366:C:H5'	218.89	0.52
36:5:339:C:OP1	36:5:1380:G:O2'	2.22	0.52
56:N0:170:THR:HG1	36:5:3185:U:HO2'	305.63	0.52
11:S9:53:ARG:NH2	11:S9:97:LEU:O	2.43	0.52
36:5:1355:A:H1'	36:5:1356:U:OP2	2.09	0.52
42:L5:15:ARG:CZ	36:5:1003:A:H1'	290.90	0.52
67:O1:64:VAL:HG13	36:5:1456:A:N1	162.20	0.52
1:6:1175:U:H2'	1:6:1176:G:C8	2.45	0.52
36:1:806:A:C4	36:1:936:A:C2	2.98	0.52
36:5:1214:U:H2'	36:5:1215:U:C6	2.44	0.52
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.92	0.52
47:M0:86:HIS:ND1	47:M0:139:ARG:NH1	2.65	0.52
45:L8:113:ALA:O	45:L8:115:ALA:N	4.07	0.52
24:D2:30:SER:HA	24:D2:34:ILE:HD12	1.92	0.52
36:1:801:A:OP1	64:N8:27:LYS:NZ	2.34	0.52
9:S7:134:GLU:OE1	15:C3:22:ALA:HB2	2.71	0.52
14:C2:52:LEU:O	14:C2:54:ARG:N	2.34	0.52
55:M9:90:PRO:HG2	55:M9:93:VAL:CG2	3.12	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:191:LYS:HB3	47:M0:213:PHE:CE2	2.45	0.52
36:1:3159:C:H2'	36:1:3160:U:H6	1.75	0.52
36:5:3054:U:OP2	87:5:3906:OHX:N6	2.43	0.52
36:1:3289:G:N7	87:1:4131:OHX:N4	2.57	0.52
10:S8:196:LEU:HD22	10:S8:200:LYS:HD3	8.25	0.52
33:E1:86:THR:HG23	33:E1:87:THR:H	4.24	0.52
73:O7:48:ASN:HA	73:O7:54:LYS:NZ	2.96	0.52
35:SM:84:LYS:HG2	35:SM:86:ASN:N	2.24	0.52
21:C9:108:LEU:O	21:C9:111:ILE:HG22	2.10	0.52
49:M3:107:GLU:OE1	72:O6:18:THR:HG23	2.74	0.52
36:5:2514:U:OP1	36:5:2514:U:H6	1.92	0.52
43:L6:54:TYR:HA	43:L6:65:ILE:CD1	5.99	0.52
87:1:4084:OHX:N4	55:M9:14:VAL:O	2.43	0.52
40:L3:335:ILE:HG13	40:L3:336:VAL:N	2.50	0.52
36:1:847:A:H2'	36:1:848:A:C8	2.45	0.52
36:5:1256:G:O6	36:5:1261:G:N2	2.42	0.52
18:C6:82:ARG:NH1	18:C6:114:ARG:HB2	3.02	0.52
7:S5:57:SER:OG	7:S5:58:LEU:N	3.01	0.52
7:S5:63:GLN:HB3	7:S5:88:PRO:HA	2.15	0.52
1:6:476:U:OP1	1:6:477:A:O2'	2.21	0.52
41:L4:295:ILE:HG23	41:L4:299:ILE:HD11	2.45	0.52
1:2:1798:U:C5	28:D6:38:ARG:NH2	2.78	0.52
41:L4:145:ILE:O	87:L4:402:OHX:N5	2.43	0.52
24:D2:15:ASN:ND2	24:D2:71:LYS:HA	2.23	0.52
87:6:2061:OHX:N1	87:6:2148:OHX:N3	2.58	0.52
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.91	0.52
73:O7:55:ARG:HD3	36:5:353:G:N7	108.58	0.52
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.96	0.52
36:1:871:U:H2'	36:1:872:U:H6	1.75	0.52
73:O7:22:CYS:SG	73:O7:24:ARG:HB2	2.50	0.52
2:S0:167:LYS:HE3	2:S0:168:HIS:CD2	2.77	0.52
2:S0:167:LYS:HE3	2:S0:168:HIS:NE2	2.36	0.52
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.92	0.52
45:L8:160:ILE:HD12	45:L8:164:VAL:HG13	5.54	0.52
61:N5:105:VAL:HG13	61:N5:130:TYR:CG	2.74	0.52
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	1.90	0.52
57:N1:54:HIS:CE1	57:N1:55:LYS:HD3	2.60	0.52
61:N5:64:GLU:O	61:N5:65:GLN:HB2	2.62	0.52
1:2:482:U:H2'	1:2:483:A:H8	1.75	0.52
36:1:2618:G:H5'	47:M0:116:ARG:HH21	1.75	0.52
25:D3:42:PRO:O	25:D3:79:ASN:ND2	2.43	0.52
52:M6:159:LYS:NZ	36:5:3243:A:OP1	268.87	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1912:U:N3	36:5:2122:G:OP2	2.38	0.52
87:1:3950:OHX:N4	87:1:4037:OHX:N5	2.58	0.52
30:D8:40:ILE:HG23	30:D8:62:GLU:HB3	1.91	0.52
1:2:12:U:H2'	1:2:13:C:C6	2.45	0.52
13:C1:129:ARG:O	13:C1:131:ILE:HG12	2.10	0.52
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	1.92	0.51
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	2.01	0.51
87:5:3979:OHX:N2	87:5:4198:OHX:N5	2.58	0.51
38:4:85:G:C8	38:4:85:G:H3'	2.45	0.51
1:2:591:A:H2'	1:2:592:A:H8	1.73	0.51
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	3.05	0.51
36:1:662:U:H2'	36:1:663:C:C6	2.45	0.51
36:5:1807:G:C6	36:5:1808:G:N1	2.78	0.51
24:D2:73:GLY:HA3	24:D2:128:PHE:CZ	2.60	0.51
19:C7:5:ARG:O	19:C7:10:LYS:HE2	2.10	0.51
36:1:715:A:H8	64:N8:115:LYS:HG2	1.75	0.51
72:O6:86:LYS:HD2	72:O6:90:MET:HE1	3.93	0.51
49:M3:39:ARG:NH1	36:5:107:A:OP1	74.11	0.51
6:S4:104:ASP:OD2	6:S4:108:ARG:HB2	2.10	0.51
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.10	0.51
33:E1:109:ASP:O	33:E1:111:GLU:N	2.41	0.51
1:2:1450:U:H2'	1:2:1451:C:C6	2.45	0.51
71:O5:95:PHE:CG	36:5:136:G:H5'	61.93	0.51
36:1:3084:C:H2'	36:1:3085:G:O4'	2.09	0.51
36:1:3095:U:H2'	36:1:3096:C:H6	1.74	0.51
36:1:2697:A:H2'	36:1:2698:G:C8	2.45	0.51
16:C4:25:ASP:N	16:C4:55:SER:HB3	2.25	0.51
1:2:1280:C:H2'	1:2:1281:G:H8	1.76	0.51
57:N1:14:MET:HE2	57:N1:55:LYS:HB2	2.03	0.51
36:5:522:A:OP1	87:5:3940:OHX:N1	2.43	0.51
47:M0:198:LYS:HE2	36:5:1040:A:O2'	333.26	0.51
1:2:629:U:OP1	15:C3:127:ARG:NH2	2.42	0.51
36:1:92:G:H5'	36:1:93:C:H5''	1.91	0.51
34:SR:63:GLY:HA3	34:SR:90:ARG:NH1	2.61	0.51
1:6:736:C:H2'	1:6:737:A:H8	1.75	0.51
1:2:700:C:H42	1:2:738:G:H1	1.58	0.51
14:C2:46:ARG:NH2	1:6:1253:U:OP2	453.23	0.51
87:5:3974:OHX:N1	87:5:4242:OHX:N5	2.58	0.51
72:O6:4:LYS:HD2	72:O6:13:LYS:O	2.09	0.51
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	2.18	0.51
36:1:13:A:OP2	87:1:4204:OHX:N5	2.43	0.51
67:O1:10:ARG:HH12	67:O1:44:MET:HG2	5.09	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2207:A:H2'	36:1:2208:A:H5'	1.93	0.51
47:M0:145:LYS:HD3	47:M0:167:LEU:HD21	1.91	0.51
8:S6:57:ASP:HA	8:S6:107:ALA:H	1.75	0.51
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	1.76	0.51
22:D0:22:ILE:HG22	22:D0:93:LEU:HB2	2.00	0.51
12:C0:53:GLY:O	12:C0:55:VAL:N	2.43	0.51
17:C5:126:VAL:HG13	35:SM:71:ASN:HD21	1.75	0.51
76:Q0:102:ARG:NE	36:5:2896:A:OP1	321.84	0.51
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.63	0.51
1:6:224:C:H42	1:6:837:G:H1	1.58	0.51
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.10	0.51
30:D8:32:PHE:HE2	30:D8:38:ARG:HB3	1.74	0.51
74:O8:24:THR:HG23	74:O8:44:LYS:HB2	2.43	0.51
42:L5:219:PHE:CE1	42:L5:227:LEU:HD11	2.46	0.51
16:C4:16:VAL:HG22	16:C4:33:LEU:HA	1.93	0.51
35:SM:84:LYS:HG2	35:SM:86:ASN:H	1.76	0.51
63:N7:36:HIS:CD2	63:N7:74:VAL:HG11	2.63	0.51
69:O3:38:PRO:HD2	69:O3:39:GLN:OE1	2.10	0.51
46:L9:129:ARG:O	46:L9:132:VAL:HG13	2.13	0.51
49:M3:2:ALA:N	64:N8:30:GLY:HA3	2.25	0.51
2:S0:120:LEU:HD12	2:S0:142:PRO:O	2.11	0.51
71:O5:115:LYS:HB2	71:O5:115:LYS:NZ	2.25	0.51
67:O1:79:ARG:NE	67:O1:79:ARG:H	2.08	0.51
48:M1:155:THR:O	48:M1:159:THR:HG23	5.34	0.51
1:6:595:G:H2'	1:6:596:C:C6	2.45	0.51
1:2:386:G:OP2	10:S8:25:ARG:NH2	2.44	0.51
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.76	0.51
87:2:2089:OHX:N3	87:2:2130:OHX:N4	2.58	0.51
37:3:26:C:H5''	42:L5:56:THR:HB	1.91	0.51
47:M0:48:LEU:HD12	47:M0:142:ASP:HA	1.91	0.51
87:2:2043:OHX:N2	87:2:2098:OHX:N5	2.59	0.51
67:O1:10:ARG:HH12	67:O1:44:MET:CG	4.69	0.51
6:S4:121:TYR:HA	6:S4:164:LEU:HG	1.92	0.51
5:S3:108:LYS:O	5:S3:113:LEU:HB2	2.73	0.51
1:6:320:U:H3'	1:6:321:C:H2'	1.92	0.51
36:5:1614:C:H2'	36:5:1615:C:C6	2.44	0.51
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.75	0.51
87:8:216:OHX:N5	87:8:223:OHX:N1	2.58	0.51
6:S4:141:THR:OG1	6:S4:143:ASP:OD2	2.26	0.51
21:C9:39:THR:OG1	21:C9:43:ASN:ND2	2.44	0.51
4:S2:58:LEU:HD11	4:S2:236:PRO:HG2	1.91	0.51
58:N2:104:ARG:NH2	36:5:1758:G:H5'	119.82	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:E1:135:HIS:HB2	33:E1:138:ARG:CB	2.41	0.51
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.43	0.51
78:Q2:40:LYS:HE3	78:Q2:44:ASP:OD2	2.25	0.51
6:S4:232:GLY:O	6:S4:234:PRO:HD3	2.09	0.51
1:2:1776:A:H2'	1:2:1777:G:C8	2.44	0.51
36:1:709:A:P	54:M8:179:ARG:HH22	2.33	0.51
36:5:815:G:C6	36:5:906:A:C4	2.99	0.51
1:6:624:G:H2'	1:6:625:C:C6	2.45	0.51
42:L5:164:LYS:HG2	42:L5:180:PHE:CZ	2.45	0.51
31:D9:22:ARG:HG2	31:D9:37:ASN:O	2.09	0.51
7:S5:59:VAL:HG12	7:S5:60:ASP:H	2.51	0.51
70:O4:8:ARG:HH21	70:O4:31:ARG:HD2	4.29	0.51
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.10	0.51
36:5:118:U:O2	36:5:121:A:H5'	2.10	0.51
1:2:1594:G:H5''	31:D9:33:LYS:HG3	1.91	0.51
87:8:216:OHX:N6	87:8:223:OHX:N4	2.59	0.51
17:C5:18:ARG:NH1	20:C8:90:ASN:O	2.43	0.51
1:6:1227:A:H4'	1:6:1228:G:H5'	1.90	0.51
36:1:3294:A:H5''	36:1:3294:A:H8	1.75	0.51
1:6:485:A:C6	1:6:486:G:H1'	2.46	0.51
36:1:3160:U:H2'	36:1:3161:C:C6	2.45	0.51
1:2:1280:C:H2'	1:2:1281:G:C8	2.45	0.51
45:L8:130:TYR:HD1	45:L8:202:GLU:HB3	1.75	0.51
36:1:1228:C:H2'	36:1:1229:G:C8	2.45	0.51
26:D4:103:ALA:HB1	26:D4:107:GLN:HB2	2.65	0.51
39:L2:94:ALA:HB3	39:L2:102:LEU:HG	1.91	0.51
1:6:351:C:H4'	1:6:352:A:OP2	2.11	0.51
1:2:1789:G:N7	16:C4:132:ARG:NH2	2.55	0.51
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.43	0.51
36:5:3094:A:H2'	36:5:3095:U:C6	2.45	0.51
36:1:1723:A:OP2	55:M9:103:ARG:NH2	2.43	0.51
1:2:346:G:O6	87:2:2124:OHX:N5	2.43	0.51
36:1:2406:C:H2'	36:1:2407:C:C6	2.45	0.51
62:N6:112:ASP:H	62:N6:115:ARG:HB2	1.76	0.51
36:5:2818:U:H6	36:5:2818:U:C5'	2.19	0.51
26:D4:15:ASN:HD22	26:D4:22:GLN:NE2	3.79	0.51
26:D4:20:ARG:HH11	26:D4:22:GLN:NE2	3.48	0.51
11:S9:109:LEU:HD22	11:S9:113:VAL:HG23	1.91	0.51
4:S2:137:ILE:HD12	4:S2:215:PHE:CE2	5.13	0.51
36:5:2228:A:H2'	36:5:2229:A:C8	2.45	0.51
1:2:214:G:N7	87:2:2115:OHX:N1	2.57	0.51
36:5:945:C:H2'	36:5:946:U:H6	1.73	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
66:O0:30:THR:HA	66:O0:33:SER:HB3	2.66	0.51
9:S7:133:THR:HG22	9:S7:157:LYS:O	4.63	0.51
7:S5:146:THR:HG23	7:S5:157:ARG:HB3	3.56	0.51
26:D4:36:SER:O	26:D4:40:LEU:HG	2.10	0.51
15:C3:127:ARG:NH2	1:6:629:U:OP1	308.46	0.51
16:C4:132:ARG:HB3	1:6:1787:C:OP2	292.79	0.51
36:5:231:G:O6	87:5:4133:OHX:N4	2.43	0.51
41:L4:39:PHE:CD2	41:L4:242:ALA:HB2	2.98	0.51
6:S4:37:LYS:HB2	6:S4:40:GLU:HG2	1.93	0.51
42:L5:226:TYR:HE1	42:L5:236:LEU:HD11	5.74	0.51
53:M7:27:LYS:HE2	53:M7:63:PHE:CD1	3.29	0.51
40:L3:361:THR:HG22	40:L3:371:GLN:HB3	2.11	0.51
36:1:1785:U:H2'	36:1:1786:G:C8	2.46	0.51
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.44	0.51
20:C8:116:LEU:HD23	20:C8:123:ARG:HG2	1.92	0.51
38:8:83:C:H4'	38:8:85:G:C2	2.45	0.51
45:L8:91:PHE:CE1	45:L8:185:ARG:HD2	2.45	0.51
22:D0:42:VAL:HG21	22:D0:55:PRO:HD3	1.92	0.51
31:D9:5:ASN:HB3	31:D9:7:TRP:CZ2	4.48	0.51
7:S5:185:ARG:NH1	1:6:1471:A:OP1	333.87	0.51
1:6:66:U:H4'	1:6:67:A:OP1	2.10	0.51
36:1:263:C:H2'	36:1:264:G:O4'	2.11	0.51
1:2:144:U:H5	8:S6:137:ARG:NH1	2.08	0.51
4:S2:42:GLY:HA2	4:S2:68:ILE:HD11	1.92	0.51
16:C4:92:LYS:HD2	16:C4:121:VAL:HG22	6.17	0.51
46:L9:114:VAL:HB	46:L9:124:ARG:HB2	1.92	0.51
36:5:944:C:O2'	36:5:945:C:H5'	2.09	0.51
49:M3:76:THR:HG23	49:M3:101:ARG:CZ	2.41	0.51
53:M7:141:SER:O	53:M7:143:PRO:HD3	2.35	0.51
1:2:393:C:H2'	1:2:394:C:C6	2.45	0.51
48:M1:47:GLN:HG2	48:M1:67:VAL:HG12	1.92	0.51
10:S8:5:ARG:HG3	10:S8:28:GLU:O	2.10	0.51
1:2:1460:A:OP2	35:SM:68:ARG:HD3	2.11	0.51
36:5:1561:G:H1	36:5:1578:C:N4	2.08	0.51
6:S4:125:LYS:HB2	6:S4:226:PHE:CE2	3.23	0.51
1:2:1498:G:H2'	1:2:1499:G:H5'	1.91	0.51
14:C2:42:ALA:HB2	14:C2:124:LYS:HD2	2.59	0.51
36:1:2777:G:H5''	36:1:2778:G:OP1	2.10	0.51
36:5:2407:C:H2'	36:5:2408:U:C6	2.45	0.51
48:M1:100:GLY:O	48:M1:159:THR:HG21	2.43	0.51
36:1:1228:C:H2'	36:1:1229:G:H8	1.74	0.51
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:M5:73:ARG:O	51:M5:75:VAL:N	4.04	0.51
36:5:150:A:H2'	36:5:151:A:H5'	1.92	0.51
36:5:2752:U:O2	87:5:4231:OHX:N3	2.44	0.51
40:L3:226:PHE:HE2	40:L3:267:ALA:HB1	2.00	0.51
35:SM:41:SER:C	35:SM:43:ASP:H	2.14	0.51
10:S8:137:LYS:O	10:S8:140:GLU:N	3.07	0.51
21:C9:119:LYS:NZ	1:6:1369:U:OP1	441.82	0.51
24:D2:24:GLN:OE1	29:D7:4:VAL:HA	2.11	0.51
1:2:157:A:OP1	26:D4:132:ARG:NH2	2.44	0.51
48:M1:85:LYS:HG3	48:M1:89:TYR:HE2	1.75	0.51
1:6:1157:A:OP2	87:6:2143:OHX:N1	2.43	0.51
36:5:112:U:O2'	36:5:113:C:OP2	2.28	0.51
7:S5:143:ARG:NH1	7:S5:218:GLU:OE2	3.45	0.51
75:O9:9:ILE:HG22	75:O9:13:MET:CE	2.39	0.51
8:S6:13:GLN:CD	1:6:151:G:H21	311.95	0.51
87:5:4067:OHX:N3	87:5:4143:OHX:N4	2.59	0.51
45:L8:108:ARG:HA	45:L8:111:LYS:HD2	4.65	0.51
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.10	0.51
48:M1:137:ARG:HD3	37:7:28:C:OP1	304.21	0.51
7:S5:166:ARG:O	7:S5:170:GLN:HB2	2.11	0.51
66:O0:63:SER:OG	66:O0:65:THR:OG1	2.09	0.51
1:2:5:U:H2'	1:2:6:G:C8	2.44	0.51
11:S9:171:ARG:NH1	11:S9:174:ARG:HG3	2.25	0.51
42:L5:219:PHE:HE1	42:L5:227:LEU:HD11	1.76	0.51
54:M8:96:PHE:CG	54:M8:97:PRO:HD2	2.68	0.51
87:1:4019:OHX:N4	87:1:4057:OHX:N2	2.59	0.51
42:L5:21:ARG:O	42:L5:25:GLU:HG3	2.37	0.51
36:1:3368:U:H4'	36:1:3369:G:H5'	1.92	0.51
1:2:579:A:C8	5:S3:178:ARG:HD2	2.44	0.51
34:SR:114:ASP:OD1	34:SR:115:ILE:N	2.95	0.51
1:2:939:A:H2'	1:2:940:A:C8	2.45	0.51
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.30	0.51
36:1:129:U:O4	87:1:3888:OHX:N5	2.44	0.51
36:1:256:G:N7	87:1:4159:OHX:N4	2.59	0.51
39:L2:112:ILE:HD13	39:L2:135:ILE:HG12	1.92	0.51
34:SR:136:ILE:H	34:SR:136:ILE:HD13	1.74	0.51
48:M1:107:ASP:N	48:M1:107:ASP:OD1	2.43	0.51
36:5:1310:G:N7	87:5:4027:OHX:N4	2.59	0.51
64:N8:96:LYS:O	64:N8:98:THR:N	2.41	0.51
43:L6:68:PRO:HB2	43:L6:71:VAL:HG23	2.37	0.51
1:6:587:C:H2'	1:6:588:U:O4'	2.10	0.51
36:1:2228:A:H2'	36:1:2229:A:C8	2.46	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:C0:51:SER:OG	1:6:1219:A:N3	432.31	0.51
40:L3:296:THR:HG21	40:L3:357:LYS:O	2.37	0.51
7:S5:59:VAL:O	7:S5:60:ASP:HB2	2.10	0.51
63:N7:17:ARG:HG2	70:O4:73:SER:O	2.11	0.51
28:D6:10:ARG:HB3	28:D6:34:LYS:HA	1.92	0.51
36:1:3230:G:H4'	50:M4:132:LYS:HD3	1.92	0.51
36:5:437:G:OP2	36:5:437:G:H8	1.94	0.51
39:L2:222:ALA:HB1	39:L2:224:THR:HG22	5.54	0.51
45:L8:82:LEU:HD13	45:L8:178:ALA:HB1	2.08	0.51
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.76	0.51
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.56	0.51
1:2:1006:C:O2	87:2:2144:OHX:N2	2.44	0.51
49:M3:166:ALA:HB1	64:N8:147:LEU:HD21	2.02	0.51
56:N0:73:LYS:NZ	56:N0:97:VAL:O	3.35	0.51
40:L3:92:TYR:HB2	40:L3:157:VAL:HG22	2.51	0.51
20:C8:145:ARG:HD3	35:SM:68:ARG:CZ	2.41	0.51
1:6:845:G:H2'	1:6:846:G:C8	2.45	0.51
1:2:1102:G:N7	25:D3:2:GLY:N	2.59	0.51
21:C9:65:ILE:HG12	21:C9:71:VAL:HG13	4.91	0.51
36:5:1819:U:H2'	36:5:1820:U:H5'	1.92	0.51
36:5:1471:U:H2'	36:5:1472:U:C6	2.46	0.51
36:5:1232:C:C5	36:5:1261:G:H2'	2.46	0.51
58:N2:103:TYR:OH	36:5:1677:G:OP2	147.36	0.51
13:C1:46:LYS:O	13:C1:50:GLU:HG2	4.04	0.51
10:S8:12:SER:HG	10:S8:14:THR:HG1	1.72	0.51
41:L4:264:SER:OG	41:L4:267:VAL:HG13	2.22	0.51
19:C7:28:PHE:HA	19:C7:55:THR:HG21	3.09	0.51
39:L2:202:VAL:HG13	39:L2:217:GLN:HB3	2.13	0.51
1:6:914:G:H5'	1:6:914:G:C8	2.46	0.51
34:SR:270:LEU:HG	34:SR:271:VAL:H	1.76	0.51
7:S5:43:PHE:CZ	7:S5:90:ILE:HG21	2.46	0.51
28:D6:10:ARG:HD3	28:D6:34:LYS:HA	2.13	0.51
34:SR:161:LYS:HD3	34:SR:164:ASP:HB3	1.93	0.51
4:S2:56:ILE:HA	4:S2:61:LEU:HD12	2.48	0.51
57:N1:142:SER:OG	57:N1:143:THR:N	2.72	0.51
9:S7:35:LYS:NZ	9:S7:39:ARG:HD2	2.26	0.51
10:S8:10:LYS:HG3	1:6:323:A:OP2	287.80	0.51
62:N6:120:GLN:NE2	62:N6:126:LEU:HA	7.93	0.51
36:5:839:C:O2'	36:5:1724:U:OP1	2.20	0.51
1:2:992:A:C2	1:2:1012:U:N3	2.71	0.51
4:S2:176:SER:HB2	4:S2:195:ASP:HB3	2.36	0.51
7:S5:189:THR:OG1	27:D5:98:GLN:OE1	2.22	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:227:GLU:HG3	40:L3:270:ARG:HE	3.97	0.51
2:S0:102:PHE:O	2:S0:103:THR:HB	2.11	0.51
1:2:856:A:N7	9:S7:97:ARG:HB2	2.26	0.51
66:O0:14:LEU:HD21	66:O0:43:ILE:HD13	2.83	0.51
44:L7:196:LYS:HE2	36:5:1100:U:OP2	246.93	0.51
38:8:81:U:H4'	38:8:81:U:OP1	2.10	0.51
36:5:701:G:H2'	36:5:702:C:C6	2.45	0.51
1:2:1646:C:H2'	1:2:1647:U:C6	2.46	0.51
36:5:1573:G:C5	36:5:1574:C:H1'	2.46	0.51
4:S2:159:THR:HG21	1:6:1097:U:O3'	383.77	0.51
36:5:978:G:HO2'	36:5:979:U:P	2.34	0.51
51:M5:14:LYS:HD2	36:5:269:G:C5	140.05	0.51
40:L3:25:ILE:H	40:L3:25:ILE:CD1	2.21	0.51
46:L9:124:ARG:HG2	46:L9:164:ILE:HG12	4.52	0.51
87:5:4012:OHX:N6	87:5:4200:OHX:N5	2.58	0.51
53:M7:31:GLU:HG3	53:M7:60:PHE:HA	3.32	0.51
1:6:377:G:O6	87:6:2113:OHX:N4	2.43	0.51
1:6:919:A:H2'	1:6:920:U:C6	2.46	0.51
22:D0:109:GLU:HB3	22:D0:112:VAL:HB	2.59	0.51
1:2:753:A:OP1	6:S4:220:THR:HG22	2.10	0.51
36:5:1595:U:C2	36:5:1596:C:C5	2.99	0.51
36:1:1240:A:H3'	36:1:1241:U:H5'	1.93	0.51
77:Q1:13:LEU:HD11	77:Q1:17:ARG:CZ	2.41	0.51
36:5:1242:G:H2'	36:5:1243:G:O4'	2.11	0.51
7:S5:128:ASN:OD1	7:S5:130:ILE:HG23	5.39	0.51
1:6:527:A:OP2	87:6:2084:OHX:N5	2.44	0.51
26:D4:55:VAL:HG12	26:D4:75:VAL:HG22	6.93	0.51
36:1:2373:A:OP2	36:1:2373:A:H3'	2.11	0.51
2:S0:105:GLY:N	2:S0:135:GLU:OE2	2.40	0.51
1:2:1604:U:C4	1:2:1605:G:N7	2.79	0.51
48:M1:106:ILE:CD1	48:M1:125:MET:HG2	4.91	0.51
18:C6:49:TYR:HB3	18:C6:53:LEU:HD21	2.00	0.50
36:5:662:U:H2'	36:5:663:C:C6	2.46	0.50
1:2:703:G:H2'	1:2:704:C:H5'	1.93	0.50
1:6:538:A:H2	1:6:540:G:H22	1.59	0.50
9:S7:56:LYS:HB2	9:S7:88:ARG:HH11	2.83	0.50
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.93	0.50
1:2:1163:A:N6	1:2:1164:G:C6	2.79	0.50
49:M3:91:ARG:NH1	49:M3:97:VAL:HB	2.26	0.50
34:SR:43:ILE:HD13	34:SR:60:SER:HA	1.92	0.50
5:S3:142:LEU:O	5:S3:144:ALA:N	2.44	0.50
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.93	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:S4:79:ASP:O	6:S4:81:THR:N	2.44	0.50
11:S9:171:ARG:HH11	11:S9:174:ARG:HB3	4.69	0.50
49:M3:174:ARG:NH1	72:O6:9:ILE:HG21	2.26	0.50
49:M3:119:TYR:HD1	49:M3:145:PHE:CE2	2.80	0.50
36:5:1192:C:C5	87:5:4091:OHX:N6	2.79	0.50
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.38	0.50
44:L7:151:ARG:HD2	44:L7:244:ASN:OD1	3.51	0.50
38:8:26:U:H2'	38:8:27:U:C6	2.47	0.50
62:N6:32:SER:HA	62:N6:49:PRO:HA	2.13	0.50
1:6:872:G:H2'	1:6:873:U:O4'	2.10	0.50
34:SR:214:ALA:HB2	34:SR:220:ILE:HA	1.93	0.50
69:O3:90:PRO:O	69:O3:91:ALA:HB3	2.10	0.50
44:L7:37:ASN:HB3	36:5:597:G:OP1	250.25	0.50
40:L3:67:PHE:CE1	59:N3:88:ARG:HB3	3.40	0.50
12:C0:32:HIS:CD2	12:C0:35:ILE:HB	2.46	0.50
37:7:23:A:H2'	37:7:24:A:C8	2.46	0.50
36:1:371:G:O6	87:1:4180:OHX:N4	2.44	0.50
36:5:2787:G:OP2	87:5:4035:OHX:N6	2.44	0.50
1:6:209:U:H2'	1:6:210:A:C8	2.46	0.50
70:O4:74:ARG:HG2	70:O4:75:ALA:H	2.55	0.50
36:5:1249:G:H2'	36:5:1250:G:H8	1.75	0.50
19:C7:8:THR:HG21	1:6:1330:G:N2	419.93	0.50
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.12	0.50
44:L7:229:PHE:CD1	44:L7:229:PHE:C	3.24	0.50
41:L4:268:ALA:O	41:L4:269:SER:HB2	2.12	0.50
2:S0:28:ASN:O	2:S0:150:ASP:HB3	6.52	0.50
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.93	0.50
16:C4:133:ARG:HH22	1:6:1785:U:P	298.72	0.50
21:C9:86:ARG:NH1	21:C9:90:PRO:O	2.44	0.50
1:2:1097:U:O4	4:S2:201:ASN:ND2	2.45	0.50
20:C8:134:ARG:O	20:C8:136:GLN:N	3.53	0.50
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.11	0.50
10:S8:176:SER:HB2	10:S8:178:ARG:H	3.26	0.50
61:N5:92:LYS:HE3	61:N5:110:VAL:O	2.11	0.50
63:N7:77:TYR:HA	63:N7:80:LEU:HD12	3.31	0.50
46:L9:31:ARG:HH21	46:L9:188:THR:HG22	1.76	0.50
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.47	0.50
71:O5:89:ARG:HD2	38:8:38:U:C4	68.44	0.50
36:1:1231:A:OP2	87:1:4085:OHX:N6	2.44	0.50
40:L3:68:HIS:CD2	40:L3:69:LYS:HG3	2.47	0.50
36:1:3033:A:H2'	36:1:3034:C:C6	2.46	0.50
45:L8:136:LEU:HD13	51:M5:3:ALA:CB	2.63	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
74:O8:77:ARG:O	74:O8:78:LEU:HB2	2.11	0.50
1:2:1178:G:H2'	1:2:1179:G:O4'	2.10	0.50
1:6:539:G:OP2	1:6:539:G:H8	1.94	0.50
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	2.16	0.50
7:S5:167:ARG:HB3	7:S5:167:ARG:HH11	3.94	0.50
36:5:2248:C:H2'	36:5:2273:G:C8	2.46	0.50
34:SR:182:ASN:ND2	34:SR:184:ASN:HD21	5.71	0.50
44:L7:152:GLY:O	44:L7:163:LEU:HG	2.12	0.50
49:M3:50:PRO:HB3	49:M3:138:VAL:O	2.44	0.50
87:6:2061:OHX:N2	87:6:2148:OHX:N6	2.59	0.50
42:L5:270:LYS:O	42:L5:271:LYS:HD3	6.69	0.50
16:C4:43:THR:OG1	16:C4:46:MET:HG3	3.25	0.50
56:N0:71:LYS:NZ	36:5:562:C:O3'	344.34	0.50
2:S0:90:ALA:HB1	2:S0:95:ALA:O	2.36	0.50
36:1:200:C:OP1	62:N6:60:ARG:NH1	2.45	0.50
5:S3:62:ASN:O	5:S3:62:ASN:ND2	4.36	0.50
17:C5:85:ILE:HG22	17:C5:112:LEU:HD23	2.06	0.50
1:2:1274:C:H41	35:SM:95:SER:HA	1.75	0.50
40:L3:250:ALA:HB1	36:5:2947:G:C2	220.34	0.50
36:1:1752:A:OP2	87:1:4047:OHX:N5	2.44	0.50
19:C7:66:VAL:O	19:C7:69:ILE:HG12	2.11	0.50
1:6:1371:A:H5'	1:6:1372:U:OP2	2.11	0.50
46:L9:163:GLN:CD	46:L9:166:ARG:HH11	2.80	0.50
6:S4:95:THR:CG2	6:S4:97:GLU:HG2	6.33	0.50
87:5:4056:OHX:N1	87:5:4199:OHX:N4	2.58	0.50
87:1:3937:OHX:N3	87:1:4198:OHX:N4	2.59	0.50
20:C8:123:ARG:HG3	20:C8:133:VAL:HG21	1.93	0.50
29:D7:2:VAL:O	29:D7:3:LEU:HB2	2.35	0.50
42:L5:99:TYR:CD2	42:L5:199:ILE:HG12	3.11	0.50
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.43	0.50
1:6:1697:G:H8	1:6:1705:C:C2	2.30	0.50
1:6:1258:U:H5	1:6:1259:U:C2	2.30	0.50
87:1:3959:OHX:N1	87:1:4140:OHX:N3	2.60	0.50
1:2:1766:A:H5''	87:2:2091:OHX:N6	2.27	0.50
39:L2:220:GLY:O	39:L2:221:LYS:HG3	2.11	0.50
11:S9:78:ARG:NH1	1:6:764:U:OP2	419.23	0.50
6:S4:126:VAL:HG13	6:S4:158:ASP:O	2.19	0.50
39:L2:80:GLU:HG2	79:Q3:76:ALA:HB1	3.20	0.50
47:M0:76:MET:HE1	47:M0:138:VAL:HG11	1.93	0.50
1:2:1325:A:H2'	1:2:1326:A:C8	2.47	0.50
36:1:2307:G:O2'	36:1:2310:U:OP2	2.30	0.50
36:5:1540:U:OP1	87:5:4093:OHX:N2	2.45	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1785:U:P	16:C4:133:ARG:HH22	2.34	0.50
1:2:793:A:H5''	1:2:794:U:C6	2.47	0.50
36:1:3139:A:H2'	36:1:3140:G:O4'	2.10	0.50
2:S0:168:HIS:HB3	2:S0:203:PHE:CE2	2.46	0.50
48:M1:30:LEU:O	48:M1:34:SER:OG	4.71	0.50
22:D0:118:VAL:HG13	22:D0:119:ALA:H	2.66	0.50
40:L3:250:ALA:HB3	36:5:2880:U:H1'	224.51	0.50
20:C8:145:ARG:HD3	35:SM:68:ARG:NE	3.07	0.50
36:1:2843:U:H5''	36:1:2844:C:OP2	2.11	0.50
46:L9:106:LYS:H	46:L9:109:ALA:HB3	1.76	0.50
45:L8:83:ASP:OD2	45:L8:86:THR:N	3.14	0.50
36:5:501:A:H2'	36:5:502:U:H6	1.76	0.50
1:2:1281:G:H2'	1:2:1282:U:H6	1.76	0.50
10:S8:192:TYR:O	10:S8:196:LEU:HB2	2.10	0.50
79:Q3:35:ALA:HB3	79:Q3:37:TYR:CE2	2.82	0.50
36:1:1080:A:OP1	42:L5:140:ARG:HB2	2.11	0.50
17:C5:100:LYS:HD3	1:6:1183:A:C4	365.51	0.50
34:SR:126:SER:OG	34:SR:127:ARG:N	2.96	0.50
36:1:2585:G:N7	45:L8:47:SER:OG	2.37	0.50
1:2:1615:C:H4'	1:2:1616:G:O5'	2.10	0.50
36:5:2612:U:H2'	36:5:2613:U:O4'	2.11	0.50
42:L5:33:ARG:HD2	37:7:7:G:OP1	272.31	0.50
36:5:1237:G:H22	36:5:1251:A:H2	1.59	0.50
7:S5:37:GLN:HG2	18:C6:53:LEU:HD13	2.18	0.50
25:D3:102:VAL:HG12	25:D3:127:VAL:HG12	1.94	0.50
72:O6:97:SER:C	72:O6:99:ARG:H	2.12	0.50
36:1:3312:U:H5''	40:L3:25:ILE:HD12	1.94	0.50
1:2:515:A:OP2	87:2:2069:OHX:N3	2.45	0.50
3:S1:175:GLU:HG2	3:S1:193:ILE:CD1	3.97	0.50
36:1:598:A:OP1	44:L7:41:ARG:NH1	2.44	0.50
36:1:915:A:H2'	36:1:915:A:N3	2.26	0.50
22:D0:18:GLN:O	22:D0:19:ILE:HG13	4.47	0.50
20:C8:50:ALA:HB2	20:C8:72:ILE:HD12	2.62	0.50
27:D5:43:ASP:O	27:D5:44:GLN:HB3	3.57	0.50
36:1:3317:U:H4'	36:1:3318:G:O5'	2.12	0.50
3:S1:23:PRO:O	3:S1:26:ARG:HB3	2.31	0.50
52:M6:72:HIS:O	52:M6:74:ARG:HD3	2.78	0.50
52:M6:36:VAL:HB	52:M6:108:ILE:HB	4.66	0.50
10:S8:5:ARG:NH2	1:6:334:G:O6	303.85	0.50
66:O0:86:ARG:HH22	79:Q3:44:LYS:HA	2.93	0.50
36:1:191:U:H2'	36:1:192:C:H6	1.75	0.50
18:C6:6:SER:HA	18:C6:23:LYS:HA	2.26	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:787:G:H2'	36:5:788:C:C6	2.47	0.50
36:5:766:U:H4'	36:5:767:U:O5'	2.11	0.50
14:C2:60:VAL:HG22	14:C2:122:VAL:HG22	2.28	0.50
34:SR:74:THR:HG23	34:SR:79:TYR:HB2	1.93	0.50
43:L6:50:LYS:HG2	43:L6:74:VAL:CG2	2.55	0.50
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.96	0.50
36:5:2694:A:C6	36:5:2695:A:C6	2.99	0.50
1:6:9:U:O4	87:6:2147:OHX:N3	2.44	0.50
36:1:2435:G:N7	36:1:2593:A:H2'	2.27	0.50
68:O2:111:ARG:NH2	68:O2:115:LEU:HD21	2.53	0.50
18:C6:113:ASP:CG	18:C6:115:THR:H	2.15	0.50
26:D4:29:HIS:N	26:D4:29:HIS:CD2	3.73	0.50
36:1:1213:G:OP1	56:N0:137:ARG:HD3	2.11	0.50
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.93	0.50
6:S4:11:ARG:NH1	6:S4:21:ASP:OD2	3.99	0.50
1:6:1429:G:H2'	1:6:1430:U:C6	2.46	0.50
1:2:704:C:OP2	1:2:704:C:H3'	2.12	0.50
87:2:2043:OHX:N2	87:2:2098:OHX:N6	2.59	0.50
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.76	0.50
39:L2:192:LYS:HB3	39:L2:193:ARG:NH2	2.25	0.50
20:C8:125:ILE:HG12	35:SM:61:ILE:HB	4.64	0.50
1:2:1459:C:N4	20:C8:139:LYS:HE2	2.27	0.50
1:2:1:U:O4	11:S9:54:ARG:HD3	2.11	0.50
54:M8:65:SER:HA	54:M8:93:ILE:HD13	1.94	0.50
87:1:3937:OHX:N1	87:1:4198:OHX:N4	2.60	0.50
36:1:378:A:N7	36:1:391:A:H2	2.10	0.50
45:L8:163:VAL:HG22	45:L8:166:LEU:HD12	1.93	0.50
1:6:624:G:H2'	1:6:625:C:H6	1.77	0.50
36:1:2941:A:N7	40:L3:256:HIS:HE1	2.09	0.50
38:8:4:C:H2'	38:8:5:U:H6	1.77	0.50
1:6:761:G:O6	87:6:2085:OHX:N1	2.45	0.50
1:6:1255:G:O2'	1:6:1256:A:O5'	2.27	0.50
47:M0:208:ASN:HB2	47:M0:211:ARG:HD2	1.94	0.50
27:D5:79:ALA:O	27:D5:83:LEU:HG	3.32	0.50
27:D5:82:HIS:O	27:D5:85:LYS:N	3.78	0.50
21:C9:4:VAL:HG22	21:C9:5:SER:H	1.77	0.50
87:5:4203:OHX:N4	87:8:224:OHX:N1	2.60	0.50
1:2:912:U:H4'	1:2:913:G:O5'	2.12	0.50
1:6:1392:U:H2'	1:6:1393:C:C6	2.46	0.50
13:C1:123:VAL:HG22	13:C1:142:VAL:HG22	2.59	0.50
19:C7:25:THR:OG1	19:C7:31:ASN:ND2	4.65	0.50
65:N9:50:THR:CG2	36:5:1073:U:H1'	206.58	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D3:69:ARG:NH2	1:6:568:G:N7	365.75	0.50
36:1:1556:C:H5"	36:1:2169:G:N2	2.26	0.50
2:S0:121:VAL:HG23	2:S0:141:ILE:HG21	1.93	0.50
1:6:542:A:H2'	1:6:542:A:OP1	2.11	0.50
58:N2:49:ASN:O	58:N2:51:GLY:N	2.88	0.50
36:1:3139:A:H8	36:1:3139:A:C5'	2.25	0.50
36:1:3139:A:C8	36:1:3139:A:H5'	2.47	0.50
46:L9:13:PRO:HG2	46:L9:16:VAL:HG11	3.85	0.50
9:S7:40:PRO:HB3	55:M9:185:LEU:HD21	1.93	0.50
1:6:1699:G:H1	1:6:1702:A:H5"	1.77	0.50
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.45	0.50
66:O0:17:VAL:HG11	66:O0:92:ILE:HD12	1.93	0.50
6:S4:195:ILE:HG22	6:S4:196:VAL:N	2.78	0.50
9:S7:133:THR:O	9:S7:134:GLU:HB3	2.12	0.50
20:C8:45:LEU:HD11	21:C9:36:ILE:HG22	2.04	0.50
34:SR:23:LEU:HD12	34:SR:292:LEU:HA	1.94	0.50
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.94	0.50
46:L9:49:ASN:OD1	46:L9:51:GLN:N	2.94	0.50
87:7:217:OHX:N3	87:7:226:OHX:N5	2.59	0.50
14:C2:87:PRO:HA	14:C2:140:PHE:HE1	2.15	0.50
87:5:4213:OHX:N4	87:5:4223:OHX:N3	2.59	0.50
36:1:2601:A:H2'	36:1:2602:G:H8	1.76	0.50
1:6:5:U:HO2'	1:6:553:G:HO2'	1.58	0.50
1:6:1053:G:N7	87:6:2197:OHX:N4	2.60	0.50
36:5:3055:U:O2'	36:5:3057:U:OP1	2.23	0.50
38:4:125:U:HO2'	38:4:126:A:P	2.34	0.50
38:8:10:A:H2'	38:8:11:C:C6	2.47	0.50
36:1:743:C:N3	54:M8:141:ARG:NH1	2.59	0.50
1:6:1776:A:H2'	1:6:1777:G:C8	2.46	0.50
1:6:67:A:H2'	1:6:69:G:H5"	1.93	0.50
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.12	0.50
41:L4:139:GLY:O	41:L4:140:HIS:HB2	2.12	0.50
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.52	0.50
16:C4:85:ALA:HB2	16:C4:94:PRO:HA	2.44	0.50
67:O1:46:THR:HG21	67:O1:91:SER:OG	2.22	0.50
7:S5:123:VAL:O	27:D5:58:ARG:HD2	2.11	0.50
1:2:337:G:H3'	13:C1:133:LYS:HB2	1.93	0.50
36:1:3227:A:H2'	36:1:3228:C:H5'	1.93	0.50
36:1:1874:A:OP2	55:M9:21:LYS:HE2	2.12	0.50
87:7:217:OHX:N3	87:7:226:OHX:N6	2.59	0.50
87:1:4028:OHX:N6	87:1:4146:OHX:N5	2.60	0.50
10:S8:2:GLY:N	1:6:393:C:OP2	292.35	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1066:G:OP1	87:5:4227:OHX:N2	2.45	0.50
35:SM:22:PRO:HB3	48:M1:38:GLU:OE1	2.12	0.50
1:2:1407:U:H2'	1:2:1408:G:O4'	2.12	0.50
1:2:260:U:H3'	1:2:261:U:C5'	2.40	0.50
36:1:550:A:N1	36:1:551:A:N6	2.60	0.50
36:5:1020:G:H2'	36:5:1021:G:O4'	2.12	0.50
38:4:145:U:H2'	38:4:146:U:O4'	2.12	0.50
1:2:907:A:H2'	1:2:908:U:C6	2.47	0.50
44:L7:53:LYS:O	44:L7:57:THR:HG23	2.12	0.50
42:L5:122:VAL:HG23	42:L5:123:GLU:N	3.21	0.50
4:S2:228:ASN:ND2	23:D1:1:MET:HB3	2.27	0.50
1:2:1010:C:OP2	87:2:2130:OHX:N5	2.45	0.50
71:O5:85:THR:HB	71:O5:88:LEU:HD12	1.94	0.50
39:L2:70:ARG:HD2	39:L2:72:ARG:NE	4.34	0.50
36:5:980:A:H2'	36:5:981:U:N1	2.26	0.50
19:C7:22:PRO:HA	34:SR:216:LYS:NZ	2.25	0.50
1:6:1151:A:O3'	1:6:1766:A:N6	2.45	0.50
2:S0:189:VAL:HG13	2:S0:190:ASP:N	2.27	0.50
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.47	0.50
1:6:1542:G:H22	1:6:1568:C:H1'	1.77	0.50
36:1:1845:G:H8	36:1:1845:G:H5''	1.77	0.50
1:2:647:G:N2	1:2:687:G:N2	2.59	0.50
58:N2:31:ALA:C	58:N2:33:TYR:H	2.15	0.50
36:1:2563:G:H5''	45:L8:27:THR:CG2	2.42	0.50
36:1:1918:C:OP2	87:1:4013:OHX:N2	2.44	0.50
6:S4:97:GLU:HG3	6:S4:99:PHE:CE2	5.49	0.50
39:L2:145:LYS:HB3	39:L2:157:VAL:HG23	1.94	0.50
36:1:1240:A:H61	36:1:1244:A:C5'	2.24	0.50
1:2:1003:A:H1'	1:2:1005:A:N7	2.27	0.50
24:D2:29:PRO:HB2	24:D2:58:SER:HB2	1.94	0.50
2:S0:62:ARG:HD3	23:D1:37:ALA:O	2.12	0.50
55:M9:180:LYS:HA	55:M9:183:ALA:HB3	1.93	0.50
1:6:992:A:H5'	1:6:992:A:H8	1.77	0.50
36:5:1340:G:H2'	36:5:1341:U:H6	1.77	0.50
79:Q3:6:LYS:HG2	79:Q3:7:LYS:HG3	4.77	0.50
36:1:2623:G:C5	36:1:2624:G:C5	3.00	0.50
63:N7:51:LEU:HB2	63:N7:65:ARG:HD2	1.94	0.50
36:1:1429:G:OP2	41:L4:107:ARG:NH2	2.38	0.50
53:M7:16:SER:HB3	53:M7:149:VAL:HG22	1.94	0.50
52:M6:167:TYR:OH	52:M6:171:LYS:NZ	3.22	0.50
36:1:2663:G:H5'	42:L5:152:ARG:HD3	1.92	0.50
34:SR:276:PRO:HB2	34:SR:278:PHE:CE1	4.16	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:37:ARG:HA	40:L3:186:GLY:HA2	2.90	0.49
21:C9:33:TYR:HD1	21:C9:34:VAL:H	2.60	0.49
36:1:1591:G:OP1	70:O4:37:LYS:NZ	2.42	0.49
15:C3:65:VAL:HG23	15:C3:66:ILE:CG2	6.40	0.49
87:5:4067:OHX:N5	87:5:4143:OHX:N6	2.59	0.49
33:E1:144:CYS:O	33:E1:146:SER:N	2.50	0.49
1:2:1529:C:H2'	1:2:1530:C:C6	2.47	0.49
1:2:1164:G:OP1	7:S5:166:ARG:NH2	2.45	0.49
26:D4:88:THR:O	26:D4:92:VAL:HG13	5.67	0.49
36:5:2549:G:H5'	36:5:2549:G:H8	1.77	0.49
57:N1:71:SER:HB3	57:N1:91:LEU:O	2.12	0.49
10:S8:44:HIS:ND1	1:6:1676:U:OP1	276.05	0.49
36:5:2187:G:OP2	87:5:3973:OHX:N4	2.44	0.49
46:L9:180:TYR:HB2	76:Q0:85:LEU:HD13	1.94	0.49
63:N7:95:VAL:O	63:N7:100:THR:OG1	2.21	0.49
10:S8:55:TYR:HB2	10:S8:176:SER:O	2.56	0.49
87:1:4052:OHX:N6	87:1:4160:OHX:N4	2.60	0.49
54:M8:64:VAL:HG11	54:M8:113:LYS:HD2	1.93	0.49
49:M3:176:GLU:HG2	72:O6:11:LEU:HD22	2.92	0.49
3:S1:29:TRP:HD1	3:S1:47:LEU:HG	1.77	0.49
39:L2:112:ILE:HD11	79:Q3:79:VAL:HG11	6.06	0.49
34:SR:222:LEU:HD23	34:SR:234:LEU:HD13	2.15	0.49
87:5:4203:OHX:N6	87:8:224:OHX:N5	2.60	0.49
8:S6:48:TYR:CZ	8:S6:121:LEU:HD22	5.42	0.49
36:5:1258:U:O2	36:5:1260:A:H8	1.95	0.49
6:S4:156:VAL:O	6:S4:157:ASN:HB2	2.12	0.49
38:4:45:C:H2'	38:4:46:G:O4'	2.12	0.49
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.29	0.49
26:D4:61:ARG:NH2	1:6:530:C:O2	409.85	0.49
41:L4:304:GLN:C	41:L4:306:THR:H	2.43	0.49
36:5:2225:U:H2'	36:5:2226:U:C6	2.46	0.49
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.43	0.49
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.67	0.49
36:5:690:A:H4'	36:5:691:A:OP1	2.12	0.49
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.93	0.49
70:O4:74:ARG:NH2	70:O4:82:ALA:HB2	2.27	0.49
51:M5:180:PHE:O	51:M5:184:LYS:HB2	2.13	0.49
9:S7:51:VAL:HG11	9:S7:168:SER:OG	2.12	0.49
25:D3:96:VAL:HG12	25:D3:127:VAL:HG11	1.94	0.49
36:1:670:C:P	54:M8:147:ARG:NH2	2.85	0.49
22:D0:20:ILE:HG13	22:D0:95:ALA:O	2.12	0.49
5:S3:12:VAL:HG21	31:D9:34:TYR:HB3	2.24	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:L5:76:ALA:CB	42:L5:109:THR:HG22	2.43	0.49
40:L3:30:LYS:NZ	36:5:3139:A:OP2	235.81	0.49
36:5:2770:G:C2'	36:5:2771:U:H5'	2.41	0.49
36:5:2947:G:H4'	36:5:2947:G:OP2	2.12	0.49
16:C4:124:ASP:O	16:C4:125:SER:HB2	2.12	0.49
67:O1:19:ARG:HD3	67:O1:35:GLU:CG	2.63	0.49
87:1:4028:OHX:N6	87:1:4146:OHX:N3	2.60	0.49
36:1:3134:A:OP1	87:1:3899:OHX:N4	2.45	0.49
36:5:2916:U:H5	36:5:2935:U:HO2'	1.56	0.49
77:Q1:4:LYS:HG2	77:Q1:5:TRP:CE3	3.03	0.49
36:5:2204:C:H4'	36:5:2205:U:OP1	2.13	0.49
41:L4:222:VAL:HG22	41:L4:225:VAL:HB	2.56	0.49
36:1:929:A:H2'	36:1:930:U:C6	2.47	0.49
1:2:850:A:H5'	55:M9:165:LYS:HG2	1.94	0.49
1:2:1410:A:H2'	1:2:1411:A:O4'	2.11	0.49
28:D6:87:ARG:NH1	28:D6:92:ARG:HA	2.94	0.49
8:S6:173:PRO:HG3	1:6:66:U:H5	333.87	0.49
1:6:82:U:H2'	1:6:83:G:O4'	2.12	0.49
36:1:440:A:OP2	36:1:440:A:H8	1.94	0.49
47:M0:76:MET:CE	47:M0:148:VAL:HA	2.65	0.49
37:3:49:G:C5	42:L5:58:LYS:HG3	2.47	0.49
16:C4:117:ASP:OD1	16:C4:119:THR:HG23	2.11	0.49
42:L5:268:GLU:C	42:L5:270:LYS:H	3.17	0.49
64:N8:116:GLY:O	64:N8:137:LYS:NZ	5.32	0.49
87:5:4002:OHX:N4	87:5:4090:OHX:N1	2.61	0.49
24:D2:110:ILE:HD13	24:D2:126:LEU:HD11	1.94	0.49
11:S9:129:ILE:HG12	11:S9:134:ILE:HD12	1.93	0.49
6:S4:176:ASP:HB2	6:S4:179:LYS:HZ2	1.77	0.49
21:C9:37:VAL:HG22	21:C9:38:LYS:H	1.77	0.49
36:1:2247:G:OP1	87:1:3880:OHX:N1	2.45	0.49
71:O5:119:LYS:HZ2	71:O5:119:LYS:HA	3.83	0.49
1:2:916:U:H3	16:C4:41:ARG:NH2	2.09	0.49
36:1:3389:U:HO2'	36:1:3390:G:P	2.35	0.49
58:N2:90:ARG:C	58:N2:92:TRP:H	2.53	0.49
21:C9:135:ILE:O	21:C9:139:THR:OG1	2.63	0.49
10:S8:194:ARG:HB3	10:S8:195:ARG:NH1	3.28	0.49
36:1:3280:U:O2'	36:1:3281:U:OP2	2.25	0.49
37:7:86:U:O2	87:7:218:OHX:N4	2.46	0.49
47:M0:205:SER:O	47:M0:209:ASN:HB2	2.13	0.49
36:1:1895:A:O2'	36:1:3053:G:H4'	2.12	0.49
1:2:229:U:H2'	1:2:230:C:C6	2.47	0.49
25:D3:90:ASP:OD2	1:6:567:A:O2'	374.30	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:655:C:H5''	68:O2:26:HIS:HB2	1.93	0.49
46:L9:156:GLN:NE2	46:L9:160:ASP:OD1	4.65	0.49
7:S5:82:PHE:CZ	30:D8:49:ARG:HD2	2.90	0.49
30:D8:49:ARG:HG2	30:D8:52:ASP:OD1	3.07	0.49
36:5:2209:U:H4'	36:5:2210:G:OP1	2.10	0.49
22:D0:72:ASN:ND2	1:6:1429:G:H21	388.01	0.49
25:D3:65:ASN:ND2	25:D3:116:ASP:OD1	2.92	0.49
1:2:516:G:OP2	87:2:2069:OHX:N6	2.45	0.49
6:S4:36:HIS:NE2	6:S4:88:ASP:OD1	2.45	0.49
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.13	0.49
23:D1:32:VAL:HB	23:D1:60:ARG:HD2	2.25	0.49
15:C3:101:HIS:ND1	1:6:950:C:O2'	282.05	0.49
36:5:1716:U:H5'	36:5:1716:U:C6	2.47	0.49
40:L3:169:THR:CG2	40:L3:171:LEU:H	2.34	0.49
35:SM:48:ARG:HA	36:5:1019:G:OP1	334.77	0.49
45:L8:41:GLN:HG3	45:L8:42:PRO:HD2	2.11	0.49
34:SR:128:ASP:OD1	34:SR:130:THR:OG1	2.85	0.49
47:M0:208:ASN:HA	47:M0:211:ARG:HG2	3.61	0.49
36:5:1157:G:H2'	36:5:1158:A:O4'	2.12	0.49
34:SR:206:PRO:HG2	34:SR:247:PRO:HA	3.00	0.49
3:S1:195:LYS:NZ	3:S1:198:GLU:OE2	5.31	0.49
1:6:702:G:N7	87:6:2100:OHX:N4	2.60	0.49
3:S1:50:LYS:O	3:S1:52:THR:N	2.45	0.49
50:M4:21:VAL:HB	50:M4:63:VAL:HG13	1.95	0.49
48:M1:73:GLY:O	48:M1:75:LYS:N	2.45	0.49
23:D1:41:GLU:H	23:D1:41:GLU:CD	2.15	0.49
55:M9:171:ASP:O	55:M9:175:GLN:NE2	2.36	0.49
18:C6:82:ARG:HH12	18:C6:114:ARG:HB2	2.60	0.49
28:D6:36:ILE:HG21	28:D6:78:ALA:HB2	1.95	0.49
36:1:1213:G:H4'	56:N0:90:MET:HG2	1.95	0.49
41:L4:80:GLY:O	36:5:357:A:H1'	130.91	0.49
54:M8:170:ARG:HG3	54:M8:170:ARG:O	3.00	0.49
1:6:1699:G:H22	1:6:1702:A:H5''	1.77	0.49
73:O7:21:ARG:HD2	73:O7:37:CYS:SG	2.58	0.49
36:1:544:C:H1'	36:1:548:G:H22	1.78	0.49
36:1:776:U:C5	36:1:2719:U:O2	2.63	0.49
65:N9:14:ARG:NH2	65:N9:18:ARG:HH11	3.40	0.49
40:L3:116:ARG:HG2	40:L3:175:LYS:CB	2.42	0.49
36:1:2680:A:C2	48:M1:24:GLY:HA3	2.48	0.49
39:L2:83:HIS:HD2	39:L2:84:THR:O	1.95	0.49
66:O0:27:TYR:O	66:O0:31:VAL:HG23	2.13	0.49
25:D3:27:ASN:O	25:D3:31:LYS:HG2	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:918:U:H2'	1:6:919:A:C8	2.47	0.49
87:1:4003:OHX:N3	87:1:4172:OHX:N1	2.61	0.49
17:C5:19:GLY:N	20:C8:93:THR:O	2.43	0.49
1:6:846:G:H2'	1:6:847:A:H8	1.75	0.49
15:C3:94:LYS:HE3	1:6:952:A:H5''	299.27	0.49
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.94	0.49
32:E0:46:ASN:HD21	32:E0:48:THR:HG23	3.40	0.49
1:6:1590:G:H2'	1:6:1591:C:H6	1.78	0.49
38:8:83:C:H4'	38:8:85:G:N3	2.28	0.49
36:1:805:G:H1'	41:L4:73:ARG:NH1	2.27	0.49
36:1:2419:A:H2'	36:1:2420:C:C6	2.47	0.49
47:M0:49:CYS:HB3	47:M0:168:SER:HB3	1.95	0.49
36:5:2101:C:HO2'	36:5:2102:U:P	2.34	0.49
64:N8:88:ASP:O	64:N8:92:LYS:HG3	2.12	0.49
20:C8:52:VAL:HG21	20:C8:69:ILE:HD11	2.54	0.49
36:1:2298:U:O4	36:1:2923:U:H5	1.95	0.49
42:L5:114:GLY:C	42:L5:116:ASP:H	2.16	0.49
43:L6:46:ARG:HG3	43:L6:46:ARG:HH11	2.69	0.49
38:4:143:U:H2'	38:4:144:G:O4'	2.12	0.49
1:2:1082:C:H42	1:2:1091:A:N6	2.10	0.49
62:N6:115:ARG:HG3	62:N6:115:ARG:HH11	2.41	0.49
36:1:270:U:O2'	36:1:318:A:H1'	2.12	0.49
15:C3:33:VAL:HG21	15:C3:66:ILE:HD11	5.35	0.49
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.12	0.49
1:2:929:A:C8	16:C4:123:SER:HA	2.47	0.49
54:M8:170:ARG:NH1	64:N8:56:VAL:O	3.36	0.49
56:N0:77:VAL:HG11	56:N0:106:LEU:CD1	2.41	0.49
34:SR:112:SER:OG	34:SR:153:GLN:HA	2.12	0.49
25:D3:70:LYS:HB3	25:D3:93:LEU:HD22	2.34	0.49
1:6:484:C:H42	1:6:503:G:H22	1.61	0.49
1:2:830:U:O2'	1:2:831:U:OP2	2.23	0.49
44:L7:170:GLU:HG3	44:L7:179:LEU:HB2	1.94	0.49
1:2:1244:A:HO2'	1:2:1245:G:P	2.34	0.49
1:6:1244:A:O2'	1:6:1245:G:O5'	2.26	0.49
70:O4:46:ASP:HB2	70:O4:84:CYS:SG	2.52	0.49
36:5:3195:U:O2'	36:5:3196:U:H5'	2.13	0.49
2:S0:193:GLN:O	2:S0:195:TRP:N	2.46	0.49
1:6:486:G:O6	1:6:488:G:N2	2.38	0.49
48:M1:46:VAL:HG13	48:M1:68:HIS:CE1	2.47	0.49
87:1:4028:OHX:N4	87:1:4146:OHX:N1	2.61	0.49
23:D1:64:GLU:OE2	29:D7:2:VAL:HG13	3.94	0.49
43:L6:50:LYS:HG2	43:L6:74:VAL:HG21	2.07	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:677:A:H4'	36:5:678:G:O5'	2.13	0.49
52:M6:189:ASP:O	52:M6:193:GLN:HG3	2.76	0.49
56:N0:134:ASP:O	56:N0:136:LYS:HG3	2.13	0.49
1:6:1427:A:O2'	1:6:1428:G:OP1	2.25	0.49
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.12	0.49
1:2:652:G:H1	1:2:682:C:H42	1.60	0.49
58:N2:32:SER:HA	58:N2:35:LYS:HB3	1.94	0.49
1:2:1320:U:O2	1:2:1322:A:H5'	2.12	0.49
36:1:2401:A:O3'	41:L4:68:GLY:HA2	2.12	0.49
1:2:1609:U:H2'	1:2:1610:G:O4'	2.12	0.49
57:N1:111:ALA:O	57:N1:115:LYS:HG3	2.87	0.49
44:L7:169:ILE:HD12	44:L7:181:ILE:HA	1.94	0.49
36:5:2137:U:C6	36:5:2141:U:C4	3.01	0.49
13:C1:21:ASN:N	13:C1:21:ASN:OD1	3.37	0.49
10:S8:184:LEU:HB3	10:S8:189:LEU:HB2	1.93	0.49
43:L6:58:LEU:HD12	43:L6:78:ARG:HD3	1.94	0.49
46:L9:171:ASP:CG	46:L9:173:ARG:HH11	2.16	0.49
1:6:1097:U:H4'	1:6:1098:U:H5'	1.94	0.49
47:M0:36:LEU:HD22	47:M0:73:ASN:ND2	3.33	0.49
40:L3:56:ILE:HD13	40:L3:76:VAL:HG21	1.95	0.49
56:N0:71:LYS:O	56:N0:73:LYS:HE2	2.12	0.49
1:6:562:G:OP2	87:6:2155:OHX:N2	2.45	0.49
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.48	0.49
79:Q3:84:ARG:NH1	79:Q3:88:GLU:OE2	2.46	0.49
40:L3:49:TYR:OH	40:L3:166:ILE:HD12	2.12	0.49
38:4:79:A:O3'	38:4:80:A:H4'	2.13	0.49
36:1:359:U:HO2'	73:O7:16:HIS:CE1	2.24	0.49
1:2:1236:A:C1'	33:E1:138:ARG:HH22	2.26	0.49
25:D3:50:LYS:NZ	25:D3:101:GLU:OE1	4.22	0.49
87:1:3975:OHX:N5	87:1:4155:OHX:N2	2.60	0.49
42:L5:226:TYR:HE2	42:L5:236:LEU:HD11	1.78	0.49
24:D2:20:THR:OG1	24:D2:22:LYS:HD3	3.80	0.49
36:5:2561:A:O2'	36:5:2562:A:H5''	2.12	0.49
65:N9:38:LYS:HD3	36:5:1076:C:H4'	214.35	0.49
36:5:3047:U:O2'	36:5:3048:A:H5'	2.13	0.49
66:O0:88:GLY:N	36:5:1729:A:OP1	246.33	0.49
1:2:1629:G:H2'	1:2:1630:U:C6	2.48	0.49
37:3:85:G:O6	87:3:216:OHX:N4	2.46	0.49
48:M1:80:LEU:HD22	48:M1:84:LEU:HG	2.43	0.49
36:5:304:G:N3	36:5:304:G:H5'	2.26	0.49
41:L4:202:ARG:HA	41:L4:202:ARG:NE	2.56	0.49
1:2:827:C:H2'	1:2:828:U:C6	2.47	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1488:G:O2'	70:O4:10:ARG:O	2.29	0.49
7:S5:20:PHE:CD2	7:S5:35:GLN:HG3	2.47	0.49
46:L9:1:MET:HE3	56:N0:139:TYR:HA	1.94	0.49
36:5:2434:U:H5	36:5:2594:C:OP2	1.95	0.49
1:2:739:G:H2'	1:2:740:A:C8	2.47	0.49
63:N7:46:ILE:HG12	63:N7:49:TYR:CD1	3.21	0.49
8:S6:67:VAL:O	8:S6:68:LEU:HB2	2.28	0.49
8:S6:67:VAL:CG2	8:S6:99:GLY:HA2	2.55	0.49
72:O6:54:GLU:HG2	72:O6:90:MET:HE1	3.05	0.49
8:S6:87:ARG:NH1	1:6:159:U:O2'	321.38	0.49
1:2:1238:A:H2'	1:2:1239:U:O4'	2.12	0.49
47:M0:174:THR:OG1	47:M0:175:ASN:O	7.08	0.49
1:2:1459:C:H4'	17:C5:126:VAL:HG11	1.94	0.49
19:C7:109:LEU:O	19:C7:113:LEU:HB2	4.79	0.49
61:N5:105:VAL:HG11	61:N5:126:LEU:HD22	1.94	0.49
40:L3:150:ARG:HG2	40:L3:150:ARG:HH11	1.76	0.49
1:2:887:A:H61	1:2:925:G:H1	1.60	0.49
46:L9:93:VAL:O	46:L9:177:ASP:HA	2.45	0.49
52:M6:16:VAL:HG23	52:M6:42:ASN:O	2.13	0.49
87:1:4032:OHX:N2	87:1:4044:OHX:N5	2.61	0.49
7:S5:157:ARG:HE	7:S5:157:ARG:N	4.31	0.49
2:S0:26:ALA:H	2:S0:149:LEU:HD12	1.77	0.49
87:1:4028:OHX:N2	87:1:4146:OHX:N1	2.61	0.49
36:5:2406:C:H2'	36:5:2407:C:C6	2.48	0.49
1:2:579:A:N7	5:S3:178:ARG:HD2	2.28	0.49
36:1:1305:U:C2	40:L3:257:PRO:HG3	2.48	0.49
36:5:2717:U:OP1	87:5:4069:OHX:N3	2.46	0.49
36:1:627:U:H2'	36:1:628:A:C8	2.48	0.49
45:L8:225:LYS:O	45:L8:229:VAL:HG23	2.12	0.49
36:1:975:C:H2'	36:1:976:U:C6	2.48	0.49
36:5:1483:G:C8	36:5:1485:G:C8	3.00	0.49
1:2:177:U:H1'	8:S6:191:ARG:NH1	2.28	0.49
21:C9:126:GLU:HA	21:C9:129:GLN:HG3	1.95	0.49
47:M0:22:TYR:CE1	36:5:1048:A:H2'	269.27	0.49
1:2:1738:U:H2'	1:2:1739:C:C6	2.48	0.49
7:S5:30:PRO:HB2	7:S5:33:VAL:HG23	1.95	0.49
7:S5:59:VAL:O	7:S5:61:TYR:N	3.21	0.49
64:N8:8:THR:HG21	36:5:662:U:OP1	150.42	0.49
1:2:197:A:H2'	1:2:198:A:C8	2.47	0.49
40:L3:53:MET:HB2	36:5:3049:A:H5''	233.94	0.49
65:N9:23:LYS:HG3	65:N9:24:PRO:HD2	1.95	0.49
36:1:1216:C:H6	36:1:1216:C:H5'	1.78	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:L7:88:ARG:CZ	44:L7:103:LEU:HD13	2.43	0.49
12:C0:45:ALA:O	12:C0:49:LEU:HD23	3.24	0.49
1:6:1699:G:N1	1:6:1701:A:H5''	2.26	0.49
26:D4:62:THR:HG23	1:6:531:C:O2	421.75	0.49
66:O0:51:LEU:HD11	70:O4:90:ILE:HG22	2.84	0.49
40:L3:122:TRP:CE2	40:L3:127:LYS:HE3	2.48	0.49
42:L5:110:LEU:HA	42:L5:113:LEU:HB2	3.20	0.49
63:N7:88:ASP:OD1	63:N7:89:VAL:N	2.45	0.49
36:1:2185:G:O2'	36:1:2314:U:OP2	2.29	0.49
29:D7:67:THR:OG1	29:D7:68:GLY:N	2.45	0.49
62:N6:37:LYS:H	62:N6:37:LYS:CE	2.75	0.49
1:2:1417:A:O3'	18:C6:128:LYS:HE2	2.13	0.49
87:1:3937:OHX:N1	87:1:4198:OHX:N2	2.60	0.49
36:5:408:A:H61	38:8:15:G:H1'	1.75	0.49
87:1:4028:OHX:N4	87:1:4146:OHX:N3	2.60	0.49
74:O8:78:LEU:HD13	74:O8:78:LEU:HA	1.68	0.49
36:1:2242:A:H5''	39:L2:244:GLY:HA3	1.95	0.49
45:L8:24:ASN:O	45:L8:26:LEU:N	3.98	0.49
1:2:943:C:H42	28:D6:15:ARG:HG2	1.78	0.49
69:O3:21:ARG:NH2	36:5:2380:U:OP1	232.43	0.49
36:1:2714:G:H4'	36:1:2715:A:H5''	1.94	0.49
40:L3:308:MET:HE3	40:L3:370:PHE:HB2	4.39	0.49
38:4:2:A:OP2	87:4:224:OHX:N1	2.46	0.49
36:5:770:G:N7	87:5:4096:OHX:N6	2.60	0.49
39:L2:129:ALA:O	39:L2:132:ASN:HB2	2.57	0.49
3:S1:123:ALA:HB2	3:S1:165:ARG:HG2	1.95	0.49
7:S5:109:LYS:O	7:S5:113:ILE:HG13	2.30	0.49
36:5:371:G:O6	87:5:4205:OHX:N5	2.45	0.49
17:C5:122:THR:HG21	1:6:1455:G:OP1	370.35	0.49
87:5:4034:OHX:N3	87:5:4082:OHX:N4	2.60	0.49
36:5:3384:U:H2'	36:5:3385:U:C6	2.48	0.49
77:Q1:7:LYS:NZ	1:6:1774:G:OP1	305.05	0.49
36:1:3362:A:H2'	36:1:3363:U:O4'	2.13	0.49
10:S8:56:ARG:NH2	1:6:332:U:OP2	286.48	0.49
64:N8:47:LYS:HE2	64:N8:48:TYR:CZ	2.48	0.49
41:L4:145:ILE:O	41:L4:145:ILE:HG13	2.11	0.49
73:O7:65:ARG:HG3	73:O7:65:ARG:NH1	2.24	0.49
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.13	0.49
2:S0:21:ASN:HB3	2:S0:24:LEU:HD13	1.95	0.49
40:L3:128:LYS:HE2	36:5:3151:U:OP1	204.16	0.49
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.40	0.49
47:M0:24:ARG:CG	47:M0:24:ARG:HH11	2.26	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:S1:49:ASN:O	3:S1:57:ALA:HB2	2.13	0.49
57:N1:91:LEU:HD12	57:N1:96:ILE:HD11	2.08	0.49
35:SM:102:THR:HG23	35:SM:105:LYS:H	1.77	0.49
49:M3:58:VAL:CG1	36:5:75:G:H5'	87.85	0.49
52:M6:16:VAL:CG2	52:M6:43:ILE:HG12	2.55	0.49
3:S1:29:TRP:CD1	3:S1:47:LEU:HG	2.48	0.49
54:M8:162:ALA:HA	54:M8:163:PRO:HD2	1.64	0.49
42:L5:226:TYR:CE1	42:L5:236:LEU:HD11	5.01	0.49
65:N9:9:ALA:O	65:N9:12:GLN:HG2	2.12	0.49
5:S3:133:GLY:HA2	5:S3:155:GLY:HA3	2.89	0.49
52:M6:184:THR:HG23	52:M6:185:ALA:H	1.94	0.49
72:O6:45:ARG:NH2	72:O6:50:LEU:HA	3.92	0.49
43:L6:148:GLU:O	43:L6:151:LYS:HB2	2.11	0.49
36:1:2673:A:OP1	48:M1:95:ASN:ND2	2.44	0.49
1:2:1309:C:H2'	1:2:1310:U:O4'	2.13	0.49
40:L3:380:MET:HE3	36:5:3369:G:C6	225.64	0.49
73:O7:66:TYR:OH	73:O7:73:ARG:NH2	3.01	0.49
36:5:385:A:H2'	36:5:386:A:C8	2.48	0.49
42:L5:131:LEU:CD2	42:L5:131:LEU:H	2.25	0.49
68:O2:3:SER:HB3	68:O2:71:HIS:NE2	3.06	0.49
1:2:1731:A:H5'	1:2:1732:A:OP2	2.13	0.49
1:6:1639:C:OP1	87:6:2157:OHX:N5	2.46	0.49
28:D6:84:VAL:HG22	28:D6:85:ARG:N	2.27	0.48
15:C3:114:ARG:HD3	15:C3:117:LEU:HD12	3.11	0.48
36:1:2860:U:C6	36:1:2860:U:H5'	2.38	0.48
87:2:2095:OHX:N3	87:2:2115:OHX:N6	2.61	0.48
55:M9:128:LYS:HG2	55:M9:128:LYS:O	2.62	0.48
27:D5:43:ASP:N	27:D5:46:LYS:HD2	2.28	0.48
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.52	0.48
53:M7:51:VAL:HG11	53:M7:88:VAL:HG21	1.94	0.48
21:C9:23:GLN:HG2	21:C9:55:TYR:CG	2.48	0.48
1:2:325:G:H4'	13:C1:83:THR:HG21	1.94	0.48
22:D0:28:SER:HB2	22:D0:112:VAL:HA	2.15	0.48
1:6:594:A:H4'	1:6:595:G:H5'	1.95	0.48
36:1:655:C:H2'	36:1:656:A:C8	2.48	0.48
38:4:1:A:OP1	87:4:224:OHX:N2	2.46	0.48
1:2:772:G:N2	1:2:774:A:O2'	2.42	0.48
71:O5:70:TYR:O	71:O5:73:LYS:HG3	2.13	0.48
5:S3:170:THR:HG23	5:S3:187:LYS:HG2	1.95	0.48
36:5:644:G:H2'	36:5:2372:A:N7	2.27	0.48
11:S9:120:LYS:O	11:S9:121:SER:HB3	2.13	0.48
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	1.93	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:L5:279:LYS:HD3	42:L5:282:ARG:CZ	3.62	0.48
9:S7:16:LEU:O	9:S7:20:VAL:HG23	2.28	0.48
36:1:29:C:H4'	36:1:62:A:H4'	1.95	0.48
15:C3:47:PRO:HG3	15:C3:75:LEU:HD22	1.95	0.48
45:L8:45:ASN:ND2	61:N5:26:VAL:HG22	4.69	0.48
7:S5:202:ALA:O	7:S5:203:LYS:HD2	2.13	0.48
7:S5:58:LEU:O	7:S5:62:VAL:N	2.46	0.48
33:E1:121:CYS:HB3	33:E1:130:VAL:HG11	4.87	0.48
43:L6:80:ASN:HB2	36:5:3272:C:O2	248.81	0.48
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	2.13	0.48
36:1:2717:U:OP1	87:1:3982:OHX:N6	2.45	0.48
6:S4:163:ASP:O	6:S4:164:LEU:HB2	2.13	0.48
66:O0:30:THR:HB	66:O0:91:SER:HB2	1.96	0.48
10:S8:38:ILE:HA	10:S8:60:ILE:O	2.32	0.48
73:O7:31:LYS:O	73:O7:33:THR:HG23	3.42	0.48
36:1:685:G:OP1	49:M3:35:ARG:NH1	2.46	0.48
33:E1:109:ASP:HB2	33:E1:113:LYS:HG2	1.95	0.48
36:5:3242:G:H21	36:5:3245:A:H5''	1.76	0.48
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	1.94	0.48
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.45	0.48
36:1:2403:G:C8	36:1:2870:C:H4'	2.47	0.48
15:C3:39:LYS:O	15:C3:39:LYS:HG3	2.14	0.48
26:D4:10:ARG:HB3	1:6:778:G:O6	428.35	0.48
24:D2:104:LEU:HB2	24:D2:125:ILE:HA	1.96	0.48
57:N1:12:ARG:HD3	57:N1:13:TYR:CE1	2.82	0.48
16:C4:45:GLY:HA2	16:C4:54:GLU:HG2	1.95	0.48
1:6:1590:G:H2'	1:6:1591:C:C6	2.47	0.48
59:N3:68:GLU:CD	59:N3:68:GLU:H	2.16	0.48
57:N1:14:MET:CE	57:N1:55:LYS:HB2	2.43	0.48
36:5:113:C:C2	36:5:319:A:C2	3.01	0.48
56:N0:17:GLU:O	56:N0:20:PRO:HD3	2.23	0.48
9:S7:21:ALA:O	9:S7:24:PHE:HB2	2.39	0.48
28:D6:22:ARG:NH2	28:D6:27:SER:O	2.45	0.48
54:M8:83:VAL:O	54:M8:103:ALA:HA	2.12	0.48
36:1:696:C:HO2'	36:1:697:A:H8	1.60	0.48
1:6:525:A:C6	1:6:526:A:C6	3.02	0.48
1:2:780:A:C8	26:D4:8:ARG:HB3	2.48	0.48
62:N6:91:ASN:O	62:N6:93:ALA:N	2.46	0.48
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.13	0.48
26:D4:19:ALA:HB1	26:D4:81:GLU:OE2	3.58	0.48
1:6:1166:A:H2'	1:6:1167:G:O4'	2.13	0.48
36:1:727:G:H5''	36:1:978:G:OP1	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:E1:143:LYS:HD3	1:6:1254:U:OP1	457.29	0.48
1:2:1796:C:H4'	1:2:1797:A:OP2	2.13	0.48
36:1:1383:G:O3'	41:L4:138:ARG:NH2	2.46	0.48
72:O6:58:ILE:HG22	72:O6:90:MET:CG	3.08	0.48
6:S4:163:ASP:HB3	6:S4:167:GLY:O	4.38	0.48
2:S0:50:VAL:HG23	19:C7:109:LEU:HD21	1.97	0.48
63:N7:73:LYS:NZ	36:5:1637:A:OP2	211.18	0.48
75:O9:27:ILE:HD13	38:8:52:A:N6	79.15	0.48
8:S6:4:ASN:HB3	8:S6:110:ALA:HA	2.48	0.48
1:2:1472:C:H4'	1:2:1473:U:H5'	1.95	0.48
42:L5:68:THR:HB	42:L5:71:GLY:O	2.14	0.48
36:5:2171:G:O6	87:5:4247:OHX:N2	2.46	0.48
36:5:2101:C:O2'	36:5:2102:U:OP1	2.27	0.48
36:1:2142:A:H4'	36:1:2143:A:H5''	1.94	0.48
40:L3:168:LYS:O	40:L3:319:ASN:ND2	2.45	0.48
14:C2:125:ASN:C	14:C2:127:GLY:H	2.16	0.48
1:2:1555:A:OP1	17:C5:47:ARG:HD3	2.14	0.48
10:S8:120:THR:O	87:S8:302:OHX:N4	6.02	0.48
4:S2:226:THR:HG22	24:D2:99:PHE:CZ	4.17	0.48
36:1:608:A:OP1	41:L4:315:LYS:NZ	2.41	0.48
36:1:812:G:N7	87:1:3983:OHX:N1	2.61	0.48
36:5:3166:C:H42	36:5:3284:G:H1	1.60	0.48
1:6:492:A:H2'	1:6:493:U:H5''	1.95	0.48
36:5:117:U:O2	36:5:119:U:H2'	2.14	0.48
77:Q1:3:ALA:HB3	1:6:1773:C:OP1	313.20	0.48
4:S2:54:GLU:OE1	23:D1:11:LEU:HB2	2.74	0.48
4:S2:111:VAL:O	4:S2:136:VAL:HA	2.12	0.48
74:O8:5:ILE:HG21	74:O8:11:PHE:HB2	2.76	0.48
39:L2:188:LYS:HD2	39:L2:189:TYR:CZ	5.09	0.48
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.12	0.48
36:1:1951:C:H5'	36:1:1952:G:OP1	2.13	0.48
40:L3:10:ARG:HD3	40:L3:12:GLY:O	2.12	0.48
14:C2:55:GLY:HA2	14:C2:85:LYS:HD3	1.93	0.48
47:M0:156:ARG:HD3	47:M0:163:GLN:O	2.22	0.48
46:L9:91:ARG:HD2	46:L9:143:GLU:HG3	1.95	0.48
61:N5:132:ALA:O	61:N5:135:ILE:HG22	2.15	0.48
69:O3:19:SER:HB3	36:5:1330:A:OP1	234.07	0.48
36:1:92:G:H5''	36:1:94:G:N7	2.28	0.48
40:L3:261:MET:HE2	52:M6:63:ALA:C	2.34	0.48
36:5:1796:G:O6	87:5:4226:OHX:N5	2.46	0.48
1:6:1745:G:O6	87:6:2079:OHX:N4	2.46	0.48
14:C2:73:LYS:NZ	33:E1:108:VAL:HG13	2.27	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1039:U:H2'	36:1:1040:A:C8	2.48	0.48
4:S2:178:ILE:HB	4:S2:185:LYS:HG3	1.95	0.48
36:5:2730:G:OP2	87:5:3960:OHX:N4	2.46	0.48
1:6:340:U:H2'	1:6:341:A:C8	2.49	0.48
1:2:407:A:H2'	1:2:408:C:C6	2.49	0.48
13:C1:29:LYS:O	13:C1:31:THR:N	2.41	0.48
36:1:2565:U:H2'	36:1:2566:C:C6	2.48	0.48
36:1:1908:A:O5'	36:1:1908:A:H8	1.96	0.48
49:M3:190:LYS:NZ	49:M3:190:LYS:HB2	2.27	0.48
1:2:180:A:H2'	1:2:181:A:O4'	2.13	0.48
36:1:2816:G:N2	36:1:2819:A:OP2	2.46	0.48
70:O4:42:PRO:HB2	70:O4:51:LEU:HD21	1.94	0.48
23:D1:74:GLN:OE1	23:D1:82:VAL:N	4.97	0.48
41:L4:295:ILE:O	41:L4:299:ILE:HG12	2.14	0.48
39:L2:201:GLY:HA2	39:L2:204:MET:SD	2.72	0.48
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.78	0.48
68:O2:105:ARG:NH2	36:5:1412:G:OP1	146.66	0.48
24:D2:73:GLY:O	24:D2:127:GLY:HA3	2.12	0.48
21:C9:16:ASN:HA	21:C9:56:LYS:HZ3	2.32	0.48
41:L4:193:LYS:HE3	41:L4:193:LYS:HB2	1.51	0.48
28:D6:60:PRO:C	28:D6:62:TYR:H	2.16	0.48
11:S9:160:PRO:O	11:S9:167:ALA:HB2	2.13	0.48
40:L3:19:ARG:HB3	40:L3:232:ARG:NH1	2.29	0.48
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.96	0.48
26:D4:49:LYS:HD3	26:D4:49:LYS:H	2.35	0.48
87:1:4133:OHX:N3	87:1:4191:OHX:N4	2.61	0.48
20:C8:134:ARG:NH1	1:6:1559:A:N1	364.66	0.48
36:1:1015:U:O2'	36:1:1017:C:OP2	2.30	0.48
17:C5:15:HIS:O	17:C5:21:ASP:HA	2.14	0.48
52:M6:102:LEU:HD12	52:M6:103:LYS:H	1.79	0.48
36:1:92:G:OP2	36:1:93:C:H5''	2.14	0.48
45:L8:130:TYR:CD1	45:L8:202:GLU:HB3	2.49	0.48
48:M1:85:LYS:O	48:M1:88:GLU:N	2.41	0.48
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.63	0.48
45:L8:136:LEU:HD11	45:L8:162:LEU:O	2.13	0.48
87:7:218:OHX:N5	87:7:224:OHX:N2	2.62	0.48
34:SR:260:ILE:HB	34:SR:274:LEU:HD12	2.61	0.48
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.96	0.48
36:1:772:U:H2'	36:1:773:G:C8	2.49	0.48
62:N6:74:TYR:CD1	62:N6:77:LYS:HG3	2.48	0.48
36:5:1810:A:H2'	36:5:1811:G:C8	2.48	0.48
87:1:4055:OHX:N6	87:1:4163:OHX:N5	2.62	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:S8:152:ILE:O	10:S8:153:GLU:HB2	2.13	0.48
4:S2:67:GLN:O	4:S2:71:THR:HG23	3.71	0.48
24:D2:37:PHE:CE2	24:D2:103:ILE:HD12	2.48	0.48
36:1:1370:G:H5'	64:N8:18:GLY:O	2.13	0.48
21:C9:57:ARG:HG3	21:C9:57:ARG:NH1	2.23	0.48
47:M0:76:MET:CE	47:M0:138:VAL:HG11	2.44	0.48
36:5:2592:G:H4'	36:5:2594:C:C2	2.48	0.48
6:S4:11:ARG:HB2	6:S4:27:TYR:C	3.62	0.48
40:L3:347:SER:O	40:L3:349:LYS:N	2.43	0.48
2:S0:179:ARG:HD3	2:S0:183:ARG:NE	3.75	0.48
4:S2:68:ILE:O	4:S2:72:LEU:HB2	2.14	0.48
1:2:538:A:H8	1:2:543:C:C4	2.31	0.48
22:D0:24:ILE:HG23	22:D0:116:VAL:HG12	5.55	0.48
58:N2:59:ASP:OD1	58:N2:60:GLY:N	4.76	0.48
29:D7:29:ARG:CG	29:D7:29:ARG:HH11	2.23	0.48
1:2:872:G:H2'	1:2:873:U:O4'	2.13	0.48
52:M6:108:ILE:HA	52:M6:109:PRO:HD2	2.20	0.48
72:O6:9:ILE:HG12	72:O6:10:GLY:N	4.41	0.48
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	1.96	0.48
36:1:1732:U:H2'	36:1:1733:G:H5'	1.96	0.48
1:2:74:U:O2'	1:2:75:U:OP2	2.28	0.48
53:M7:138:LYS:O	53:M7:138:LYS:HG2	2.14	0.48
75:O9:4:GLN:NE2	36:5:1833:G:H21	127.04	0.48
1:2:156:A:H2'	1:2:157:A:O4'	2.13	0.48
1:6:1255:G:H4'	1:6:1256:A:OP1	2.13	0.48
7:S5:203:LYS:O	7:S5:205:SER:N	2.90	0.48
13:C1:93:TYR:HB2	13:C1:100:TYR:CE1	2.49	0.48
1:2:1570:A:H2'	1:2:1571:C:O4'	2.13	0.48
36:5:992:A:O2'	36:5:993:G:H5'	2.14	0.48
49:M3:161:ASP:OD2	64:N8:139:ARG:HD3	2.14	0.48
7:S5:140:THR:HA	7:S5:214:LYS:HD2	2.09	0.48
1:2:1136:U:O4	25:D3:112:LYS:HD2	2.14	0.48
40:L3:7:GLU:HG2	36:5:2915:U:C5	258.15	0.48
74:O8:3:ARG:NH2	36:5:1824:U:OP1	148.98	0.48
49:M3:178:LYS:NZ	36:5:2774:C:OP1	151.94	0.48
36:5:3167:A:H2'	36:5:3168:A:O4'	2.12	0.48
26:D4:87:PRO:HD2	26:D4:90:ARG:NH1	2.27	0.48
24:D2:18:GLU:OE1	24:D2:69:LEU:HB3	3.16	0.48
37:3:112:G:OP2	87:3:220:OHX:N1	2.47	0.48
68:O2:41:VAL:HG12	68:O2:46:PHE:CD2	2.84	0.48
36:5:1393:A:C8	36:5:1418:A:C6	3.02	0.48
87:1:4080:OHX:N2	87:1:4150:OHX:N1	2.61	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:L2:116:VAL:HG22	39:L2:126:LEU:HD12	1.96	0.48
1:2:1325:A:H2'	1:2:1326:A:H8	1.79	0.48
2:S0:163:ASN:O	2:S0:165:ARG:N	2.86	0.48
1:2:542:A:N1	32:E0:28:LYS:HD2	2.28	0.48
11:S9:133:HIS:HE2	1:6:513:U:H5'	445.30	0.48
36:1:13:A:H5''	36:1:13:A:C8	2.48	0.48
1:2:1064:G:H2'	1:2:1065:A:C8	2.49	0.48
59:N3:13:ILE:HD11	59:N3:81:GLN:OE1	2.13	0.48
5:S3:33:GLY:O	5:S3:53:THR:HG23	2.13	0.48
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.77	0.48
3:S1:61:LEU:O	3:S1:62:LYS:NZ	2.43	0.48
3:S1:30:PHE:HB3	3:S1:96:LEU:HD22	5.06	0.48
62:N6:52:ARG:HA	62:N6:70:ILE:HG22	2.14	0.48
1:6:824:G:H22	1:6:849:C:H1'	1.79	0.48
36:1:595:G:C8	36:1:609:G:C6	3.02	0.48
36:5:3164:C:H1'	36:5:3165:A:H5'	1.95	0.48
26:D4:57:VAL:HG22	26:D4:60:PHE:HE2	1.79	0.48
49:M3:104:ARG:NH2	36:5:75:G:OP2	89.44	0.48
27:D5:87:GLY:O	27:D5:89:ILE:N	2.45	0.48
1:6:291:G:H2'	1:6:292:U:C6	2.48	0.48
13:C1:54:ILE:HG23	13:C1:55:ASP:N	2.29	0.48
1:2:1157:A:C8	1:2:1157:A:H3'	2.48	0.48
28:D6:50:VAL:HA	28:D6:53:LEU:HB2	3.36	0.48
1:2:711:U:H1'	1:2:712:G:C8	2.49	0.48
3:S1:93:GLY:C	3:S1:95:ASN:H	2.16	0.48
36:5:330:G:OP2	87:5:4050:OHX:N1	2.47	0.48
1:2:1486:G:H1'	1:2:1592:A:O2'	2.14	0.48
69:O3:88:ASN:HB2	36:5:429:U:H4'	216.13	0.48
36:1:3192:U:H2'	36:1:3193:C:C6	2.48	0.48
19:C7:37:GLU:HG3	34:SR:150:TRP:HE1	1.79	0.48
3:S1:84:ILE:HG22	3:S1:86:LEU:HD22	1.96	0.48
59:N3:45:ARG:HD2	59:N3:46:LEU:N	2.41	0.48
36:1:2630:C:H1'	36:1:2758:A:N3	2.28	0.48
1:2:1196:A:H3'	1:2:1196:A:OP2	2.14	0.48
19:C7:82:ASP:O	19:C7:83:GLN:HB2	2.13	0.48
71:O5:24:LEU:HB3	71:O5:51:ILE:HG12	2.76	0.48
11:S9:142:ASN:OD1	1:6:767:U:H5	425.26	0.48
36:5:508:U:H2'	36:5:509:U:C6	2.48	0.48
33:E1:121:CYS:HB2	33:E1:132:LEU:HD21	2.39	0.48
36:1:3274:A:H2'	53:M7:171:ARG:NH1	2.29	0.48
31:D9:45:GLU:OE1	1:6:1433:G:N2	411.14	0.48
4:S2:143:TYR:CD2	4:S2:147:ASN:HA	4.41	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1764:U:H3'	36:5:1765:U:H5''	1.95	0.48
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	1.96	0.48
47:M0:36:LEU:CD1	47:M0:87:LEU:HB3	3.45	0.48
16:C4:12:GLN:HG3	16:C4:111:ARG:HG3	1.95	0.48
36:5:3288:G:O2'	36:5:3289:G:OP2	2.30	0.48
26:D4:44:LEU:HA	26:D4:47:VAL:HG22	1.96	0.48
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	1.96	0.48
36:1:1478:C:H2'	36:1:1479:U:C6	2.48	0.48
6:S4:252:ARG:HD3	6:S4:256:ARG:NH1	5.66	0.48
1:2:779:U:OP2	1:2:780:A:H2	1.96	0.48
39:L2:29:LEU:O	39:L2:123:ARG:NE	2.75	0.48
7:S5:98:MET:HB2	7:S5:105:GLY:O	2.13	0.48
1:2:304:U:OP1	13:C1:136:ARG:HD3	2.13	0.48
1:6:1268:G:H1'	1:6:1448:G:H5''	1.95	0.48
36:5:731:U:H2'	36:5:732:C:H6	1.78	0.48
36:1:1349:G:H5'	41:L4:291:ASN:OD1	2.14	0.48
36:5:3257:C:H2'	36:5:3258:U:O4'	2.14	0.48
36:1:366:A:OP1	41:L4:95:ARG:NH2	2.36	0.48
41:L4:60:THR:HG22	41:L4:61:SER:N	2.29	0.48
36:5:916:G:H5'	36:5:917:A:OP1	2.14	0.48
26:D4:12:VAL:HG23	1:6:783:G:C8	426.29	0.48
40:L3:27:ALA:HB3	40:L3:218:ILE:HG22	1.95	0.48
36:1:2278:C:P	77:Q1:23:ARG:HH12	2.36	0.48
12:C0:47:GLN:O	12:C0:50:THR:OG1	2.30	0.48
1:2:767:U:H6	11:S9:141:VAL:HA	1.79	0.48
36:1:2616:C:H2'	36:1:2617:U:H5'	1.96	0.48
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.96	0.48
36:5:1781:C:H2'	36:5:1782:U:H6	1.78	0.48
70:O4:81:CYS:SG	70:O4:81:CYS:O	2.84	0.48
12:C0:24:LYS:HB2	12:C0:63:TYR:CE1	2.55	0.48
40:L3:259:HIS:NE2	36:5:2366:C:H5'	217.75	0.48
42:L5:279:LYS:HE3	42:L5:282:ARG:NH1	2.29	0.48
42:L5:143:LYS:HE3	42:L5:145:PHE:CZ	2.69	0.48
36:5:253:A:HO2'	36:5:254:A:H8	1.62	0.48
50:M4:97:SER:O	50:M4:101:LYS:HG3	2.50	0.48
17:C5:51:SER:C	17:C5:53:PRO:HD2	4.15	0.48
36:1:2255:A:H5'	36:1:2261:G:H22	1.78	0.48
12:C0:6:GLU:O	12:C0:10:LYS:HD3	5.16	0.48
76:Q0:98:LYS:HD3	76:Q0:115:CYS:HB2	3.67	0.48
30:D8:14:LYS:HG2	30:D8:16:LEU:HD23	5.20	0.48
36:1:3373:U:OP2	67:O1:102:LYS:HE2	2.14	0.48
39:L2:104:LEU:O	39:L2:139:HIS:HE1	1.96	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1522:U:H4'	36:1:1523:U:OP2	2.13	0.48
1:6:40:A:H2'	1:6:41:A:O4'	2.13	0.48
41:L4:110:ASN:HB2	51:M5:201:ARG:O	2.29	0.48
4:S2:139:ILE:CD1	4:S2:191:ALA:HB1	2.43	0.48
23:D1:40:ASP:OD1	23:D1:44:ARG:HB2	2.14	0.48
51:M5:53:TYR:HD1	51:M5:133:ILE:HD13	1.79	0.48
1:2:577:G:H2'	35:SM:99:LYS:NZ	2.29	0.48
10:S8:188:GLU:OE2	13:C1:15:LYS:NZ	2.37	0.48
33:E1:100:LEU:HB3	33:E1:102:VAL:HG22	1.96	0.48
46:L9:75:VAL:HA	46:L9:78:MET:CE	2.40	0.48
1:2:702:G:C6	1:2:737:A:N6	2.82	0.48
9:S7:118:LEU:HB2	1:6:639:U:O2	370.09	0.48
36:1:779:G:OP1	54:M8:185:LYS:NZ	2.47	0.48
87:5:4067:OHX:N5	87:5:4143:OHX:N2	2.62	0.48
39:L2:128:ARG:NH1	36:5:2177:G:OP2	198.42	0.48
6:S4:88:ASP:HA	6:S4:122:LYS:NZ	2.29	0.48
51:M5:68:ARG:HG2	51:M5:68:ARG:HH11	1.79	0.48
3:S1:71:ALA:HB3	16:C4:114:ARG:NH1	2.80	0.48
35:SM:61:ILE:HG13	35:SM:61:ILE:H	1.52	0.48
1:2:420:A:H2'	1:2:421:A:O4'	2.14	0.48
51:M5:109:ARG:NH1	38:8:141:C:OP1	120.72	0.48
66:O0:41:LEU:HD12	66:O0:100:ILE:HD12	4.00	0.48
65:N9:21:ILE:C	65:N9:22:LYS:HZ3	6.25	0.48
27:D5:89:ILE:HB	27:D5:101:TYR:CD1	2.49	0.48
46:L9:182:SER:HB3	76:Q0:85:LEU:HD11	1.96	0.48
63:N7:97:SER:O	63:N7:100:THR:HB	2.14	0.48
1:6:416:A:H4'	1:6:417:A:OP2	2.14	0.48
16:C4:107:ARG:O	16:C4:109:GLY:N	3.66	0.48
1:2:71:A:H2'	1:2:72:A:O4'	2.13	0.48
52:M6:56:ASP:O	52:M6:59:ARG:HG2	2.68	0.48
32:E0:49:LEU:HD12	32:E0:51:ASN:HB2	1.95	0.48
35:SM:41:SER:O	35:SM:43:ASP:N	2.40	0.48
69:O3:16:TYR:OH	69:O3:91:ALA:HB2	2.13	0.48
1:6:209:U:H2'	1:6:210:A:H8	1.79	0.48
36:5:731:U:H2'	36:5:732:C:C6	2.49	0.48
42:L5:143:LYS:HE3	42:L5:145:PHE:HZ	2.04	0.48
36:1:2102:U:H2'	36:1:2103:U:C6	2.49	0.48
36:1:2986:U:H2'	36:1:2987:A:C8	2.49	0.48
42:L5:237:GLU:O	42:L5:241:THR:HB	2.83	0.48
36:5:3216:G:H3'	36:5:3219:G:N3	2.29	0.48
42:L5:60:ILE:HB	42:L5:80:SER:HB3	1.95	0.48
1:2:1114:G:O6	87:2:2073:OHX:N5	2.47	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:188:LEU:HD13	4:S2:196:VAL:HG11	1.95	0.48
51:M5:155:VAL:O	51:M5:162:ARG:NH2	2.43	0.48
63:N7:107:ARG:NH2	36:5:1635:G:OP1	210.31	0.48
1:6:1014:G:H2'	1:6:1015:U:O4'	2.14	0.48
2:S0:89:PHE:O	2:S0:93:THR:HG23	2.52	0.48
57:N1:128:LEU:H	57:N1:128:LEU:HD12	1.79	0.48
36:1:279:U:H2'	36:1:280:U:C6	2.48	0.48
5:S3:124:ARG:O	5:S3:128:GLU:HB2	2.24	0.48
52:M6:27:LEU:HD22	52:M6:101:ARG:HB2	1.95	0.48
50:M4:121:MET:HG3	36:5:3214:U:C4	283.03	0.47
28:D6:79:ILE:HA	28:D6:84:VAL:CB	2.40	0.47
8:S6:173:PRO:O	1:6:79:C:H4'	344.96	0.47
42:L5:40:HIS:CE1	57:N1:69:LYS:HA	3.06	0.47
87:1:3993:OHX:N2	87:3:222:OHX:N5	2.62	0.47
1:2:1482:C:OP2	1:2:1521:G:N1	2.47	0.47
4:S2:111:VAL:HG23	4:S2:137:ILE:HG22	2.89	0.47
8:S6:137:ARG:HH12	1:6:144:U:H5	311.94	0.47
1:2:823:G:O2'	1:2:824:G:O5'	2.32	0.47
53:M7:136:ILE:C	53:M7:137:ASN:HD22	2.47	0.47
15:C3:64:ARG:O	15:C3:64:ARG:HG2	2.14	0.47
1:2:538:A:H8	1:2:543:C:N4	2.12	0.47
1:6:1508:U:H2'	1:6:1509:C:C6	2.49	0.47
1:2:730:G:N3	1:2:730:G:H2'	2.29	0.47
64:N8:4:ARG:NH2	36:5:1427:U:OP2	135.66	0.47
1:6:138:A:H5''	1:6:138:A:N3	2.29	0.47
15:C3:94:LYS:HG2	15:C3:118:ILE:HD13	2.22	0.47
1:2:839:U:H2'	1:2:840:U:H5'	1.95	0.47
9:S7:47:ARG:HB2	9:S7:59:ALA:HB3	1.96	0.47
87:1:3959:OHX:N5	87:1:4140:OHX:N6	2.61	0.47
74:O8:66:ILE:HA	74:O8:69:LEU:HD23	1.96	0.47
5:S3:11:LEU:HD12	22:D0:86:ILE:HG12	2.04	0.47
1:6:419:G:N7	87:6:2119:OHX:N1	2.61	0.47
20:C8:15:LEU:HD22	20:C8:22:VAL:HB	5.05	0.47
36:5:629:U:H2'	36:5:630:A:C8	2.48	0.47
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.47	0.47
7:S5:160:VAL:HG12	30:D8:43:ASN:HB3	2.37	0.47
9:S7:147:ASN:N	9:S7:147:ASN:OD1	2.47	0.47
60:N4:13:ILE:HG12	60:N4:32:GLN:HB2	2.31	0.47
36:1:1610:G:H2'	36:1:1611:G:O4'	2.14	0.47
36:1:3306:U:H2'	36:1:3307:A:H5''	1.96	0.47
1:2:1062:A:OP2	87:2:2164:OHX:N4	2.47	0.47
36:1:735:A:H2'	36:1:736:A:C8	2.49	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3352:U:O4'	36:5:3353:G:C2	2.67	0.47
6:S4:57:ASN:HB2	6:S4:60:GLU:HB2	1.94	0.47
36:1:1480:G:H4'	36:1:1481:A:OP1	2.14	0.47
7:S5:162:VAL:HG22	7:S5:167:ARG:HG3	1.97	0.47
7:S5:25:LEU:N	7:S5:25:LEU:HD13	2.40	0.47
10:S8:36:THR:HG23	10:S8:96:LEU:O	2.14	0.47
39:L2:70:ARG:NH1	39:L2:72:ARG:HH21	7.03	0.47
36:1:2860:U:H2'	36:1:2861:U:H5'	1.96	0.47
22:D0:27:THR:HB	22:D0:88:LYS:CG	2.51	0.47
17:C5:111:MET:HG2	17:C5:119:PHE:CZ	2.50	0.47
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.50	0.47
36:1:2533:G:H2'	36:1:2534:G:O4'	2.14	0.47
52:M6:65:ASN:O	52:M6:68:ARG:HG2	2.20	0.47
7:S5:222:LYS:HA	7:S5:225:ARG:HH11	4.46	0.47
36:1:3242:G:N7	40:L3:150:ARG:HD2	2.29	0.47
41:L4:8:VAL:O	41:L4:16:THR:HB	2.14	0.47
17:C5:18:ARG:HG2	20:C8:92:ILE:HA	2.00	0.47
1:2:778:G:H22	26:D4:10:ARG:HH22	1.60	0.47
6:S4:92:LEU:HB2	6:S4:95:THR:CG2	4.53	0.47
36:1:3082:C:H2'	36:1:3083:G:H8	1.79	0.47
45:L8:74:THR:HB	45:L8:230:LYS:NZ	2.29	0.47
87:7:217:OHX:N1	87:7:226:OHX:N5	2.62	0.47
21:C9:7:ARG:HD2	1:6:1366:U:O2'	425.64	0.47
57:N1:14:MET:HE3	57:N1:58:GLN:HB2	2.36	0.47
43:L6:47:PHE:CD1	43:L6:74:VAL:HG22	2.76	0.47
36:1:805:G:H1'	41:L4:73:ARG:HH11	1.79	0.47
87:5:4034:OHX:N1	87:5:4082:OHX:N4	2.62	0.47
9:S7:143:LEU:HB2	9:S7:147:ASN:O	2.48	0.47
36:1:781:G:N7	87:1:3939:OHX:N5	2.61	0.47
40:L3:108:GLU:O	40:L3:134:SER:OG	2.32	0.47
39:L2:246:LEU:HD13	36:5:2153:U:H5''	233.20	0.47
16:C4:20:TYR:CE1	16:C4:22:SER:HB3	2.50	0.47
1:2:1096:C:O2	1:2:1096:C:H2'	2.12	0.47
45:L8:211:LEU:HD22	45:L8:211:LEU:HA	4.55	0.47
40:L3:315:GLY:HA2	36:5:3379:C:H4'	214.88	0.47
22:D0:74:GLU:HG2	1:6:1429:G:C1'	378.30	0.47
41:L4:181:VAL:HG21	41:L4:224:GLY:HA3	2.25	0.47
1:6:1098:U:C6	1:6:1098:U:H5''	2.49	0.47
1:6:1098:U:H6	1:6:1098:U:H5''	1.79	0.47
36:1:1362:G:O2'	44:L7:158:LYS:HE3	2.13	0.47
53:M7:172:GLN:NE2	69:O3:60:ARG:O	2.35	0.47
6:S4:36:HIS:CD2	6:S4:85:GLY:HA3	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:L5:270:LYS:HE2	42:L5:273:ARG:HB2	6.90	0.47
1:6:1279:C:H2'	1:6:1280:C:O4'	2.14	0.47
1:2:330:G:C6	1:2:331:A:C6	3.03	0.47
12:C0:49:LEU:HB3	12:C0:55:VAL:CG1	2.48	0.47
36:5:1556:C:H5''	36:5:2169:G:H22	1.79	0.47
49:M3:79:GLU:OE1	49:M3:101:ARG:NH2	2.45	0.47
1:6:196:G:C2	1:6:197:A:H1'	2.49	0.47
10:S8:9:HIS:CD2	10:S8:10:LYS:N	2.83	0.47
36:5:3165:A:H61	36:5:3285:C:N4	2.11	0.47
36:1:200:C:H5'	36:1:221:A:C2	2.49	0.47
15:C3:55:ARG:NH1	15:C3:56:ASP:OD2	2.46	0.47
29:D7:47:PHE:CE1	29:D7:49:HIS:HB2	2.86	0.47
33:E1:113:LYS:HD2	33:E1:113:LYS:H	1.80	0.47
71:O5:27:GLU:O	71:O5:31:LEU:HD22	3.40	0.47
36:5:1804:A:H2'	36:5:1805:C:H6	1.78	0.47
21:C9:89:ARG:NH2	1:6:1562:G:OP1	377.33	0.47
71:O5:93:THR:OG1	71:O5:96:GLU:HG3	2.14	0.47
1:2:494:U:O2'	1:2:495:C:O5'	2.30	0.47
36:5:550:A:H2'	36:5:551:A:C8	2.50	0.47
42:L5:155:THR:HG22	42:L5:179:ARG:HH11	1.85	0.47
52:M6:156:LEU:HD22	36:5:3243:A:C8	265.90	0.47
38:4:125:U:H2'	38:4:125:U:O2	2.13	0.47
39:L2:29:LEU:O	39:L2:123:ARG:NH2	2.99	0.47
50:M4:133:LYS:O	50:M4:136:ALA:HB3	2.14	0.47
36:5:985:U:H2'	36:5:986:U:H6	1.79	0.47
64:N8:32:ARG:HD2	36:5:38:U:H4'	158.46	0.47
36:1:3010:U:OP2	87:1:4201:OHX:N5	2.47	0.47
1:2:1649:G:N7	87:2:2050:OHX:N1	2.62	0.47
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.48	0.47
24:D2:90:THR:HB	24:D2:94:LEU:HD12	1.96	0.47
38:4:151:C:C5	61:N5:24:LEU:HD11	2.50	0.47
36:1:712:G:H2'	36:1:713:U:C6	2.48	0.47
59:N3:3:GLY:HA2	59:N3:40:LYS:HB3	6.39	0.47
36:5:3354:U:H4'	36:5:3355:U:H5''	1.96	0.47
42:L5:177:GLU:H	42:L5:177:GLU:HG3	1.52	0.47
2:S0:172:LEU:O	2:S0:176:LEU:HG	2.14	0.47
1:2:512:A:OP2	11:S9:172:VAL:HG13	2.14	0.47
48:M1:164:LYS:HE3	48:M1:171:VAL:HB	1.96	0.47
2:S0:59:LEU:HG	23:D1:79:LEU:HD21	5.14	0.47
36:1:1659:U:H2'	36:1:1660:C:C6	2.49	0.47
36:1:2943:G:OP2	40:L3:2:SER:HB2	2.14	0.47
63:N7:46:ILE:HG12	63:N7:49:TYR:CE1	3.00	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:S9:162:SER:O	11:S9:167:ALA:HB3	2.14	0.47
51:M5:102:ALA:O	51:M5:106:VAL:HG13	2.17	0.47
50:M4:89:ALA:HB1	50:M4:92:GLU:CD	2.35	0.47
48:M1:53:THR:HG23	48:M1:59:ILE:O	2.12	0.47
52:M6:10:ASP:HB2	52:M6:117:ARG:HG3	1.95	0.47
1:2:1473:U:O2'	7:S5:103:ASN:ND2	2.44	0.47
38:4:79:A:H2'	38:4:80:A:O2'	2.14	0.47
36:1:2697:A:H2'	36:1:2698:G:H8	1.79	0.47
35:SM:25:ILE:HG12	37:7:39:C:H5'	291.52	0.47
24:D2:83:ILE:HG12	24:D2:117:ARG:NH1	2.29	0.47
36:1:215:G:OP1	62:N6:12:ARG:HD2	2.14	0.47
22:D0:63:LEU:O	22:D0:83:GLU:HA	2.15	0.47
21:C9:111:ILE:HG23	21:C9:113:ILE:HG12	1.96	0.47
87:1:3950:OHX:N2	87:1:4037:OHX:N6	2.62	0.47
20:C8:116:LEU:HD22	20:C8:116:LEU:H	3.87	0.47
40:L3:62:ARG:O	40:L3:68:HIS:HB2	2.33	0.47
87:1:3959:OHX:N2	87:1:4140:OHX:N4	2.62	0.47
1:2:764:U:OP2	11:S9:78:ARG:NH1	2.47	0.47
1:2:1528:U:OP1	7:S5:109:LYS:HG2	2.14	0.47
68:O2:123:LYS:HA	68:O2:126:LEU:HD12	2.82	0.47
36:1:1821:U:N3	70:O4:67:LYS:HD3	2.28	0.47
78:Q2:2:VAL:N	78:Q2:90:HIS:O	2.48	0.47
36:1:1043:C:O3'	47:M0:90:ARG:NH1	2.47	0.47
36:1:138:U:H2'	36:1:139:G:C8	2.49	0.47
36:5:261:U:H2'	36:5:262:U:C6	2.49	0.47
54:M8:138:LEU:HD23	36:5:728:G:H21	179.75	0.47
36:1:535:G:O6	87:1:4060:OHX:N3	2.47	0.47
49:M3:8:PRO:HA	54:M8:164:ARG:O	2.50	0.47
43:L6:131:LYS:HE2	43:L6:131:LYS:HA	5.25	0.47
36:1:2969:A:N7	39:L2:215:ASN:ND2	2.62	0.47
36:5:2314:U:O4	87:5:3979:OHX:N5	2.48	0.47
87:5:3974:OHX:N3	87:5:4242:OHX:N2	2.62	0.47
36:1:1211:U:H2'	36:1:1212:A:C8	2.49	0.47
1:6:755:A:O2'	1:6:756:A:OP1	2.33	0.47
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	2.06	0.47
1:2:1291:G:H2'	1:2:1292:G:H8	1.79	0.47
41:L4:181:VAL:O	41:L4:182:LEU:CB	2.61	0.47
74:O8:46:ARG:HH21	74:O8:51:LEU:HB2	2.52	0.47
47:M0:16:PRO:HD3	47:M0:128:ARG:NH1	4.31	0.47
87:5:4067:OHX:N3	87:5:4143:OHX:N6	2.62	0.47
1:6:542:A:H1'	1:6:543:C:OP1	2.14	0.47
16:C4:136:ARG:HD2	1:6:1769:U:O2	304.03	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:309:VAL:HB	34:SR:311:ARG:NH1	2.51	0.47
42:L5:64:ILE:HD13	42:L5:144:VAL:HG21	1.95	0.47
36:5:2568:C:O2'	36:5:2569:A:O5'	2.28	0.47
36:1:1454:A:H5''	36:1:1455:U:C5'	2.45	0.47
1:2:919:A:H2'	1:2:920:U:C6	2.50	0.47
5:S3:59:LEU:HA	5:S3:66:ILE:HB	3.71	0.47
55:M9:104:ARG:NH1	36:5:1949:G:H5''	220.35	0.47
36:5:3242:G:N2	36:5:3245:A:H5''	2.30	0.47
61:N5:39:LYS:HG3	36:5:13:A:H4'	120.36	0.47
36:1:2414:G:H2'	36:1:2415:C:O4'	2.14	0.47
42:L5:85:ARG:HD3	42:L5:86:TYR:CE2	2.50	0.47
36:1:112:U:O2'	36:1:113:C:P	2.71	0.47
15:C3:36:GLN:O	15:C3:39:LYS:N	4.31	0.47
87:1:4032:OHX:N6	87:1:4044:OHX:N5	2.62	0.47
39:L2:143:GLU:O	39:L2:145:LYS:HG2	2.13	0.47
1:6:1150:G:O6	87:6:2116:OHX:N5	2.47	0.47
40:L3:161:LEU:HD22	40:L3:178:LEU:HD11	1.97	0.47
14:C2:32:LEU:O	14:C2:36:LEU:N	2.41	0.47
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	2.13	0.47
57:N1:48:ILE:HG13	57:N1:94:GLU:HG2	2.26	0.47
58:N2:100:THR:O	58:N2:101:ASN:HB2	2.15	0.47
53:M7:4:TYR:CE1	53:M7:16:SER:HB2	2.57	0.47
36:1:2986:U:H2'	36:1:2987:A:H8	1.79	0.47
42:L5:165:GLY:HA2	42:L5:168:ASP:HB2	1.96	0.47
37:7:91:G:H2'	37:7:92:A:C8	2.49	0.47
37:3:106:U:H2'	37:3:107:C:C6	2.50	0.47
1:6:104:A:OP2	1:6:308:C:N4	2.44	0.47
33:E1:98:VAL:HG22	33:E1:99:LYS:H	1.78	0.47
36:1:1340:G:H2'	36:1:1341:U:H6	1.79	0.47
64:N8:128:ARG:HB2	72:O6:8:ALA:CB	4.76	0.47
56:N0:113:ARG:HB2	56:N0:114:HIS:CD2	2.50	0.47
36:5:2239:G:OP2	87:5:4192:OHX:N6	2.48	0.47
38:4:91:C:H2'	38:4:92:A:C8	2.50	0.47
36:5:937:G:N3	36:5:963:G:H1'	2.30	0.47
1:2:1175:U:H2'	1:2:1176:G:C8	2.49	0.47
38:4:67:U:H5''	73:O7:84:SER:O	2.15	0.47
36:5:3189:G:H2'	36:5:3190:C:O4'	2.14	0.47
36:1:661:G:P	64:N8:12:ARG:HH22	2.37	0.47
36:1:1840:U:OP2	87:1:3977:OHX:N5	2.47	0.47
28:D6:37:LYS:O	28:D6:38:ARG:HD2	2.15	0.47
71:O5:78:LYS:HA	71:O5:81:ARG:CD	2.38	0.47
36:1:1233:G:H1	36:1:1255:C:N4	2.00	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:894:U:H2'	1:2:895:G:C8	2.50	0.47
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.47	0.47
71:O5:85:THR:HG22	71:O5:88:LEU:HB2	2.32	0.47
48:M1:90:GLN:OE1	48:M1:172:LEU:HD11	2.15	0.47
42:L5:269:SER:OG	37:7:1:G:C2	316.35	0.47
58:N2:47:VAL:C	58:N2:49:ASN:H	2.52	0.47
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.95	0.47
9:S7:44:LYS:HG3	9:S7:63:PRO:HD3	2.74	0.47
36:1:3112:G:O2'	46:L9:70:THR:HB	2.15	0.47
1:6:837:G:O6	87:6:2102:OHX:N1	2.48	0.47
36:5:2771:U:H2'	36:5:2772:C:C6	2.49	0.47
36:1:729:C:O2'	54:M8:79:LYS:HE2	2.15	0.47
48:M1:59:ILE:HD12	48:M1:65:ILE:HD11	2.31	0.47
17:C5:33:PHE:CE1	17:C5:112:LEU:HD13	3.10	0.47
46:L9:90:MET:HG2	46:L9:181:VAL:HA	1.96	0.47
75:O9:27:ILE:HD13	38:8:52:A:H62	78.37	0.47
1:2:1525:A:OP1	21:C9:82:GLY:HA2	2.15	0.47
1:2:432:G:H2'	1:2:433:C:O4'	2.14	0.47
41:L4:339:LEU:HA	41:L4:342:LYS:HB3	4.66	0.47
1:2:1386:G:OP2	19:C7:44:LYS:NZ	2.47	0.47
1:6:874:C:H2'	1:6:875:G:C8	2.50	0.47
36:1:1770:G:H5'	36:1:1771:C:OP2	2.14	0.47
79:Q3:36:ARG:HG2	79:Q3:48:LYS:HD2	3.75	0.47
1:6:654:C:H2'	1:6:655:G:C8	2.50	0.47
1:2:1029:U:OP2	28:D6:12:LYS:NZ	2.43	0.47
1:6:1690:G:H1	1:6:1711:C:H42	1.60	0.47
1:6:532:U:H2'	1:6:533:U:O4'	2.14	0.47
36:5:1938:U:O4	87:5:3951:OHX:N1	2.48	0.47
36:1:2105:G:C2'	36:1:2106:A:H5'	2.44	0.47
14:C2:132:GLU:H	14:C2:132:GLU:CD	2.16	0.47
14:C2:132:GLU:HA	14:C2:135:MET:HB2	1.97	0.47
41:L4:208:VAL:O	41:L4:251:THR:HG23	2.15	0.47
1:6:1489:U:H5'	1:6:1494:C:H1'	1.97	0.47
45:L8:36:ILE:O	45:L8:38:GLN:HG2	2.14	0.47
55:M9:18:GLY:HA3	36:5:1874:A:H5''	136.66	0.47
36:1:1942:U:O2'	36:1:3345:G:O2'	2.22	0.47
18:C6:82:ARG:HH22	18:C6:114:ARG:HG3	4.37	0.47
18:C6:53:LEU:HG	18:C6:53:LEU:H	1.33	0.47
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.14	0.47
7:S5:73:THR:HG21	18:C6:114:ARG:HE	5.92	0.47
33:E1:103:LEU:HD13	33:E1:131:PHE:HD2	6.21	0.47
33:E1:106:TYR:CZ	33:E1:131:PHE:HZ	3.18	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:609:U:O2'	25:D3:23:ARG:HD3	2.15	0.47
1:2:79:C:H4'	8:S6:173:PRO:O	2.14	0.47
1:2:733:A:H4'	1:2:734:A:C5	2.50	0.47
25:D3:124:VAL:O	25:D3:125:VAL:HG23	2.14	0.47
2:S0:31:VAL:HG21	1:6:1040:G:H5''	383.47	0.47
3:S1:133:TYR:CZ	3:S1:181:LEU:HD12	4.68	0.47
36:1:2443:A:N6	36:1:2504:U:C4	2.81	0.47
32:E0:28:LYS:HE2	1:6:542:A:H61	430.07	0.47
87:1:4132:OHX:N5	87:1:4164:OHX:N6	2.63	0.47
46:L9:117:PHE:O	46:L9:120:ASP:HB2	2.15	0.47
36:1:1216:C:H6	36:1:1216:C:C5'	2.28	0.47
47:M0:36:LEU:HD12	47:M0:87:LEU:HB3	3.36	0.47
63:N7:21:LYS:NZ	63:N7:47:GLU:O	3.05	0.47
22:D0:17:GLN:HA	22:D0:97:VAL:HG12	1.95	0.47
9:S7:35:LYS:HZ2	9:S7:39:ARG:HD2	1.80	0.47
1:6:1698:G:N2	1:6:1699:G:N7	2.62	0.47
3:S1:134:VAL:HB	3:S1:219:LYS:HB2	1.97	0.47
10:S8:54:LYS:HG2	10:S8:175:GLN:O	2.15	0.47
36:1:2339:C:P	59:N3:48:ARG:HG2	2.54	0.47
59:N3:48:ARG:HG3	36:5:2339:C:OP2	247.63	0.47
34:SR:16:HIS:CE1	34:SR:43:ILE:HG12	2.50	0.47
40:L3:232:ARG:HG2	40:L3:233:TRP:CD1	2.50	0.47
2:S0:84:ARG:NH2	2:S0:201:LEU:HD12	3.76	0.47
8:S6:164:LYS:O	8:S6:166:GLU:N	2.47	0.47
1:6:484:C:H42	1:6:503:G:N2	2.12	0.47
48:M1:21:ILE:HG13	48:M1:37:LEU:HD11	1.97	0.47
53:M7:64:ASN:O	53:M7:67:ILE:HG12	2.84	0.47
36:5:1710:C:H2'	36:5:1711:C:H6	1.80	0.47
7:S5:93:LEU:HD23	7:S5:93:LEU:HA	2.25	0.47
63:N7:85:TYR:HE2	63:N7:129:TRP:CE2	3.06	0.47
21:C9:28:LEU:HB3	21:C9:29:GLU:H	3.66	0.47
1:6:546:U:H2'	1:6:547:U:H6	1.78	0.47
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.14	0.47
5:S3:48:VAL:HB	5:S3:86:LEU:HD12	1.95	0.47
62:N6:120:GLN:CD	62:N6:126:LEU:HA	8.20	0.47
62:N6:125:LYS:O	62:N6:126:LEU:HG	2.25	0.47
9:S7:162:ILE:HA	9:S7:165:LYS:HG3	1.97	0.47
36:1:3353:G:HO2'	36:1:3354:U:P	2.37	0.47
36:5:1560:G:C6	36:5:1580:A:N6	2.83	0.47
71:O5:95:PHE:CD2	36:5:136:G:H5'	63.28	0.47
4:S2:58:LEU:HD22	23:D1:15:ARG:HG3	1.97	0.47
61:N5:57:LEU:HD22	61:N5:62:VAL:HG22	4.54	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:L4:334:PHE:CG	41:L4:339:LEU:HD11	4.91	0.47
1:2:130:C:O2'	1:2:131:C:OP1	2.23	0.47
57:N1:119:ALA:O	57:N1:122:GLN:N	2.46	0.47
46:L9:188:THR:HB	46:L9:189:GLU:H	3.40	0.47
35:SM:84:LYS:HB2	35:SM:84:LYS:HE3	4.74	0.47
17:C5:12:PHE:CZ	48:M1:85:LYS:HE2	9.05	0.47
39:L2:221:LYS:NZ	36:5:2965:U:O2	213.28	0.47
36:1:2662:G:H2'	36:1:2663:G:C8	2.50	0.47
87:5:4034:OHX:N1	87:5:4082:OHX:N2	2.62	0.47
1:2:780:A:H8	26:D4:8:ARG:HB3	1.78	0.47
52:M6:98:ALA:HA	52:M6:101:ARG:NH1	2.39	0.47
1:2:1055:U:O4	87:2:2164:OHX:N3	2.48	0.47
36:1:2105:G:O2'	36:1:2106:A:H5'	2.14	0.47
1:6:221:A:C2'	1:6:222:A:H5'	2.44	0.47
62:N6:3:LYS:NZ	62:N6:5:SER:O	3.37	0.47
35:SM:35:ALA:O	35:SM:37:VAL:N	2.92	0.47
11:S9:153:GLU:O	11:S9:156:ILE:HG13	2.15	0.47
1:6:808:U:H2'	1:6:809:A:C8	2.49	0.47
1:2:226:A:H2'	1:2:227:U:H5'	1.96	0.47
36:1:1818:U:H2'	36:1:1819:U:O4'	2.14	0.47
36:1:1819:U:O4	87:1:4040:OHX:N6	2.47	0.47
48:M1:139:THR:HG22	48:M1:146:GLY:O	2.58	0.47
36:1:1560:G:O2'	36:1:1561:G:H5'	2.14	0.47
6:S4:131:LEU:HA	6:S4:131:LEU:HD22	1.76	0.47
1:6:94:U:H2'	1:6:95:G:O4'	2.15	0.47
78:Q2:59:HIS:O	78:Q2:61:LYS:HG2	6.13	0.47
36:5:996:A:C2	36:5:1054:A:C4	3.03	0.47
9:S7:77:LEU:O	9:S7:81:LEU:HG	2.15	0.47
36:1:792:G:H2'	36:1:793:C:C6	2.49	0.47
42:L5:261:THR:OG1	42:L5:264:GLN:HG3	2.17	0.47
68:O2:43:ARG:NH1	36:5:1368:U:H5'	194.56	0.47
49:M3:68:LYS:HE2	36:5:699:A:OP1	97.86	0.47
36:1:1506:A:C2	36:1:1513:G:C2	3.03	0.47
39:L2:80:GLU:HG3	79:Q3:66:GLY:HA2	1.97	0.47
51:M5:184:LYS:H	51:M5:186:GLY:H	1.63	0.47
1:2:514:G:O2'	1:2:515:A:H5'	2.15	0.47
87:O9:101:OHX:N5	36:5:357:A:OP2	116.53	0.47
36:5:3364:C:OP1	87:5:3943:OHX:N1	2.47	0.47
36:1:1355:A:H4'	36:1:1356:U:O5'	2.14	0.47
1:2:712:G:H2'	1:2:713:A:O4'	2.14	0.47
39:L2:15:ILE:HG23	39:L2:194:ASN:ND2	5.80	0.47
36:1:1615:C:H2'	36:1:1616:U:C6	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1675:G:H2'	36:1:1676:A:H8	1.79	0.47
1:2:981:U:H2'	1:2:982:U:H5'	1.97	0.47
37:7:112:G:OP2	87:7:220:OHX:N2	2.48	0.47
65:N9:38:LYS:HG3	65:N9:38:LYS:O	3.99	0.47
36:1:2242:A:H5'	39:L2:243:THR:HG23	1.97	0.47
1:6:1208:A:N1	1:6:1455:G:N2	2.60	0.47
1:6:53:G:H2'	1:6:54:C:O4'	2.14	0.47
36:1:1498:A:H2'	36:1:1499:C:C6	2.50	0.47
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.62	0.47
36:5:1701:C:H2'	36:5:1702:U:O4'	2.14	0.47
1:2:1397:U:C4	1:2:1399:C:H1'	2.50	0.47
36:5:1276:U:H2'	36:5:1277:C:C6	2.50	0.47
36:5:2304:C:C5	36:5:2305:G:C6	3.03	0.47
1:2:1328:G:OP1	5:S3:159:HIS:N	2.20	0.47
47:M0:152:LEU:HA	47:M0:152:LEU:HD23	1.73	0.47
1:2:720:G:H2'	1:2:720:G:N3	2.30	0.47
45:L8:195:SER:O	45:L8:195:SER:OG	2.47	0.47
46:L9:17:THR:HG21	50:M4:3:THR:HB	1.96	0.47
8:S6:58:LYS:O	8:S6:59:GLN:HB2	2.14	0.47
1:6:71:A:H2'	1:6:72:A:O4'	2.14	0.47
1:6:1030:A:H4'	1:6:1031:U:OP2	2.14	0.47
18:C6:115:THR:HG23	18:C6:118:ILE:O	5.00	0.47
1:2:142:G:H5''	8:S6:139:ASN:ND2	2.29	0.47
33:E1:131:PHE:HB2	1:6:1253:U:OP1	456.50	0.47
73:O7:69:HIS:ND1	73:O7:72:ARG:NH2	2.63	0.47
47:M0:86:HIS:HB3	47:M0:139:ARG:HG3	1.96	0.47
26:D4:12:VAL:HG13	26:D4:23:PHE:HB3	2.08	0.47
3:S1:71:ALA:HB3	16:C4:114:ARG:HH12	2.62	0.47
35:SM:57:ASN:O	35:SM:61:ILE:HG22	5.75	0.47
31:D9:33:LYS:HD3	31:D9:34:TYR:CE2	2.50	0.47
11:S9:134:ILE:N	11:S9:134:ILE:HD12	4.23	0.47
66:O0:98:SER:OG	66:O0:100:ILE:HG23	2.40	0.47
57:N1:68:THR:HG22	57:N1:71:SER:N	2.79	0.47
3:S1:197:ILE:HG22	3:S1:210:ILE:HD13	3.08	0.47
40:L3:154:TYR:CD1	36:5:3242:G:H2'	261.60	0.47
9:S7:162:ILE:HB	9:S7:169:PHE:HE2	1.79	0.47
16:C4:122:PRO:O	16:C4:124:ASP:N	2.48	0.47
1:2:1157:A:O2'	1:2:1158:C:OP1	2.29	0.47
15:C3:54:LEU:HB3	15:C3:60:VAL:HG11	2.91	0.47
1:2:1516:A:O2'	1:2:1517:U:H5'	2.15	0.47
36:5:2103:U:H2'	36:5:2104:A:H8	1.77	0.47
36:5:1481:A:H2'	36:5:1858:A:H1'	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:3159:C:OP1	87:1:4149:OHX:N1	2.47	0.47
10:S8:8:ARG:HG3	10:S8:8:ARG:O	2.15	0.47
43:L6:52:VAL:HG11	43:L6:65:ILE:HG13	2.34	0.47
34:SR:220:ILE:HB	34:SR:234:LEU:HB2	2.20	0.47
87:5:4203:OHX:N6	87:8:224:OHX:N3	2.62	0.47
25:D3:90:ASP:OD2	32:E0:12:GLY:HA2	2.18	0.47
1:2:1082:C:H42	1:2:1091:A:H62	1.63	0.47
40:L3:84:VAL:HG13	40:L3:162:VAL:HB	1.96	0.47
36:5:345:G:H2'	38:8:25:G:O2'	2.15	0.47
36:1:1317:A:O2'	36:1:1318:A:H3'	2.15	0.47
63:N7:104:PRO:O	63:N7:108:GLU:HG3	2.15	0.47
37:3:64:A:H3'	47:M0:204:GLY:O	2.14	0.47
36:1:1438:U:H2'	36:1:1439:U:C6	2.49	0.47
36:1:530:G:N7	87:1:3918:OHX:N6	2.62	0.47
45:L8:152:LEU:HB3	45:L8:180:VAL:HG11	1.97	0.47
1:2:524:U:H2'	1:2:526:A:OP2	2.15	0.47
51:M5:159:ARG:HG3	51:M5:159:ARG:H	1.56	0.47
36:5:2973:G:N7	87:5:4117:OHX:N1	2.62	0.47
1:6:653:C:H42	1:6:677:G:H1	1.62	0.47
38:4:133:G:H4'	61:N5:55:ASN:ND2	2.29	0.47
7:S5:81:ARG:HD3	7:S5:82:PHE:CE2	2.50	0.47
14:C2:46:ARG:HE	33:E1:102:VAL:CG2	6.06	0.47
1:6:577:G:N1	87:6:2160:OHX:N4	2.62	0.47
36:5:1573:G:C6	36:5:1574:C:H1'	2.49	0.47
41:L4:93:MET:HB2	36:5:658:G:N2	146.29	0.47
4:S2:147:ASN:HB3	23:D1:4:ASP:CA	2.43	0.47
22:D0:102:ARG:HG3	22:D0:103:ILE:N	4.72	0.47
36:1:3048:A:C5'	40:L3:53:MET:HE3	2.45	0.47
1:6:1699:G:H2'	1:6:1700:C:H5'	1.97	0.47
63:N7:27:LYS:HD2	63:N7:28:PRO:HD2	1.97	0.47
70:O4:20:ILE:HA	70:O4:20:ILE:HD13	1.61	0.47
2:S0:71:GLU:HA	2:S0:95:ALA:N	2.30	0.47
63:N7:4:PHE:O	63:N7:5:LEU:HB2	4.65	0.47
53:M7:67:ILE:HD11	36:5:1447:G:H3'	165.58	0.47
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.50	0.47
19:C7:87:GLU:HG2	19:C7:88:VAL:O	2.15	0.47
53:M7:36:ILE:CD1	53:M7:95:LEU:HD11	2.44	0.47
36:1:1933:A:OP2	87:1:3883:OHX:N6	2.48	0.47
9:S7:113:PRO:HG2	9:S7:116:ARG:HD2	1.97	0.47
14:C2:124:LYS:C	35:SM:169:ALA:HB2	8.00	0.47
36:1:2683:U:H2'	36:1:2684:C:H6	1.79	0.47
75:O9:4:GLN:HE21	36:5:1833:G:H21	127.37	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:C1:69:LYS:C	13:C1:70:ILE:HD12	2.67	0.47
1:2:481:A:H61	1:2:505:A:H62	1.62	0.47
36:5:1409:G:N7	87:5:4162:OHX:N6	2.62	0.47
1:2:417:A:H4'	1:2:418:G:O5'	2.14	0.47
72:O6:59:ASP:O	72:O6:63:ASN:HB2	2.70	0.47
36:5:702:C:O2	36:5:788:C:H4'	2.15	0.47
34:SR:106:HIS:CE1	34:SR:126:SER:HB3	2.99	0.47
34:SR:109:ASP:HB2	34:SR:127:ARG:HD2	1.97	0.47
2:S0:66:ALA:HB2	23:D1:37:ALA:HB2	1.98	0.47
36:5:3219:G:H4'	36:5:3220:G:H5'	1.96	0.47
1:2:1029:U:O4	87:2:2168:OHX:N3	2.47	0.47
40:L3:339:ARG:HG2	40:L3:340:LYS:O	2.15	0.47
36:1:1856:C:H2'	36:1:1857:C:H6	1.80	0.47
20:C8:17:LEU:O	20:C8:20:THR:N	3.14	0.47
36:5:2924:U:O4	87:5:4060:OHX:N2	2.48	0.47
36:5:1813:A:H2'	36:5:1814:A:H5''	1.96	0.47
1:6:1071:U:H2'	1:6:1072:C:C6	2.51	0.47
1:6:841:U:H2'	1:6:842:C:C6	2.50	0.47
12:C0:3:MET:SD	12:C0:8:ARG:NH1	2.88	0.47
63:N7:60:LYS:HD2	63:N7:60:LYS:HA	1.75	0.47
36:1:2775:U:H2'	36:1:2776:C:C6	2.50	0.47
8:S6:154:ARG:HD3	1:6:78:A:C8	341.54	0.47
36:5:2250:G:C2'	36:5:2251:G:H5'	2.45	0.47
18:C6:50:GLU:OE2	18:C6:82:ARG:NH2	2.69	0.46
1:2:138:A:N6	1:2:266:A:H61	2.13	0.46
70:O4:74:ARG:HD2	70:O4:85:VAL:HG21	3.81	0.46
40:L3:187:SER:OG	40:L3:190:GLU:HG3	2.15	0.46
56:N0:137:ARG:HD3	36:5:1213:G:OP1	325.86	0.46
9:S7:98:ILE:HG12	9:S7:121:VAL:HG21	2.18	0.46
36:1:1863:G:N1	36:1:1866:C:OP2	2.46	0.46
1:2:1762:A:C1'	1:2:1783:C:H5'	2.45	0.46
8:S6:2:LYS:HE2	8:S6:17:GLU:OE2	4.53	0.46
66:O0:9:SER:OG	66:O0:12:GLN:HB3	3.81	0.46
1:6:217:A:O2'	1:6:218:A:O5'	2.26	0.46
54:M8:57:ILE:HG21	54:M8:57:ILE:HD13	1.55	0.46
87:5:4012:OHX:N3	87:5:4200:OHX:N1	2.63	0.46
1:2:961:U:H5''	15:C3:71:ILE:HD12	1.97	0.46
6:S4:247:SER:OG	6:S4:250:GLU:HG3	2.15	0.46
46:L9:115:ARG:NH1	46:L9:123:ILE:HD13	2.29	0.46
36:5:1802:C:H2'	36:5:1803:C:H6	1.78	0.46
20:C8:26:ILE:O	20:C8:31:ALA:HB2	2.33	0.46
20:C8:35:ILE:O	20:C8:38:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1673:G:O5'	1:6:1673:G:H8	1.99	0.46
46:L9:166:ARG:HH21	46:L9:168:ARG:NH1	11.18	0.46
1:6:647:G:H1	1:6:687:G:H1	1.62	0.46
61:N5:57:LEU:HA	61:N5:57:LEU:HD12	1.63	0.46
6:S4:61:VAL:HA	6:S4:64:ILE:HD12	3.19	0.46
18:C6:34:SER:OG	21:C9:7:ARG:O	2.95	0.46
36:5:2507:C:O2'	36:5:2508:U:OP1	2.28	0.46
36:5:174:C:H42	36:5:244:G:H1	1.64	0.46
62:N6:12:ARG:HG2	36:5:215:G:OP1	88.62	0.46
36:5:2734:A:OP1	87:5:4047:OHX:N6	2.48	0.46
49:M3:83:ALA:HA	49:M3:117:LYS:HE3	1.96	0.46
62:N6:102:SER:O	62:N6:103:LYS:HD3	2.92	0.46
1:6:336:G:H2'	1:6:338:C:H5	1.80	0.46
1:2:1119:G:O6	87:2:2147:OHX:N1	2.49	0.46
36:5:2746:A:H2'	36:5:2747:A:O4'	2.15	0.46
36:1:3004:C:H4'	40:L3:99:LEU:O	2.15	0.46
36:5:3227:A:H2'	36:5:3228:C:H5'	1.98	0.46
36:5:1728:G:H5''	36:5:1730:G:O4'	2.15	0.46
45:L8:94:PHE:CZ	45:L8:200:LEU:HG	2.50	0.46
36:5:913:A:H2	36:5:2134:G:N3	2.13	0.46
35:SM:70:ASN:O	35:SM:74:LYS:HD3	2.16	0.46
1:6:645:C:H2'	1:6:646:C:H6	1.80	0.46
36:1:261:U:H2'	36:1:262:U:C6	2.50	0.46
68:O2:8:LYS:HE3	68:O2:8:LYS:HB2	1.51	0.46
36:1:1299:U:H2'	36:1:1300:G:O4'	2.16	0.46
18:C6:115:THR:HG22	18:C6:116:LEU:N	5.17	0.46
1:6:475:A:H2'	1:6:476:U:O4'	2.15	0.46
28:D6:5:ARG:NH1	1:6:1796:C:OP2	340.94	0.46
36:1:2763:U:H5'	54:M8:176:ARG:HG3	1.96	0.46
2:S0:146:LEU:HD21	2:S0:173:ILE:HG21	1.96	0.46
36:5:981:U:H2'	36:5:982:C:H6	1.79	0.46
68:O2:101:SER:O	68:O2:105:ARG:HG3	2.14	0.46
53:M7:69:ARG:HG2	53:M7:79:THR:CG2	4.41	0.46
29:D7:61:THR:HG23	29:D7:62:ILE:H	2.45	0.46
1:6:1680:G:O6	87:6:2190:OHX:N4	2.48	0.46
71:O5:6:ALA:O	71:O5:10:ARG:HG3	2.31	0.46
23:D1:60:ARG:HG2	23:D1:65:SER:HB2	1.95	0.46
47:M0:24:ARG:NH1	47:M0:24:ARG:HG3	2.28	0.46
36:5:806:A:H5''	36:5:936:A:H61	1.81	0.46
36:1:2737:C:H4'	57:N1:68:THR:OG1	2.16	0.46
5:S3:22:ASN:O	5:S3:26:THR:OG1	2.22	0.46
1:6:1541:G:C6	1:6:1542:G:N1	2.83	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:950:C:H2'	1:6:951:A:C8	2.50	0.46
6:S4:77:ARG:HH11	6:S4:77:ARG:HG3	4.40	0.46
27:D5:60:VAL:HG13	27:D5:101:TYR:HB2	2.15	0.46
55:M9:110:ARG:HA	55:M9:115:ILE:HG22	1.97	0.46
39:L2:48:ILE:HG13	39:L2:48:ILE:O	2.14	0.46
42:L5:153:THR:HG23	42:L5:160:PHE:HZ	1.80	0.46
33:E1:135:HIS:ND1	33:E1:138:ARG:HD2	2.31	0.46
79:Q3:42:CYS:SG	79:Q3:44:LYS:HG3	3.96	0.46
12:C0:16:PHE:HD2	12:C0:76:LEU:HD23	1.81	0.46
25:D3:79:ASN:HB3	25:D3:81:LYS:H	1.80	0.46
36:1:2766:U:O4	87:1:4037:OHX:N2	2.47	0.46
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.48	0.46
8:S6:48:TYR:CE2	8:S6:121:LEU:HD22	5.03	0.46
16:C4:89:THR:O	16:C4:128:LYS:HE2	2.39	0.46
1:2:264:G:N7	87:2:2033:OHX:N1	2.63	0.46
36:5:3018:C:C4	36:5:3019:U:C4	3.02	0.46
36:1:3178:A:C2	52:M6:115:LYS:HG2	2.50	0.46
36:1:199:A:C4	36:1:201:A:C8	3.04	0.46
34:SR:44:SER:O	34:SR:58:VAL:HG13	4.46	0.46
43:L6:43:LEU:HD21	43:L6:85:ILE:HG13	1.99	0.46
55:M9:35:ALA:O	55:M9:36:ASN:ND2	6.30	0.46
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.16	0.46
10:S8:106:ALA:HB2	10:S8:165:LEU:HG	2.21	0.46
1:2:112:A:O2'	1:2:113:U:H5'	2.14	0.46
1:2:380:U:C5	11:S9:5:PRO:HA	2.49	0.46
35:SM:85:SER:O	35:SM:87:THR:N	2.47	0.46
60:N4:5:ILE:HD12	60:N4:10:GLY:HA2	1.96	0.46
1:6:1727:G:H2'	1:6:1728:A:C8	2.51	0.46
1:2:978:A:H2'	1:2:979:A:O4'	2.15	0.46
36:5:920:A:OP1	36:5:922:U:H5	1.98	0.46
36:1:2288:G:H2'	36:1:2289:U:C6	2.51	0.46
11:S9:87:SER:OG	11:S9:90:LYS:HB2	3.26	0.46
25:D3:103:LEU:HD23	25:D3:103:LEU:HA	2.09	0.46
42:L5:4:GLN:H	42:L5:4:GLN:CD	2.16	0.46
54:M8:165:ILE:HD11	54:M8:172:PHE:HB3	1.97	0.46
43:L6:55:LEU:HD12	43:L6:64:LEU:HD13	2.75	0.46
6:S4:71:LYS:HB2	6:S4:75:LYS:O	2.15	0.46
23:D1:18:SER:HG	23:D1:54:ALA:H	1.63	0.46
16:C4:129:LYS:HE2	87:6:2172:OHX:N2	281.59	0.46
36:5:2875:U:C2'	36:5:2876:C:O5'	2.63	0.46
45:L8:81:THR:HG1	45:L8:82:LEU:H	3.17	0.46
36:1:1554:U:H4'	36:1:1555:U:OP1	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:C4:81:VAL:HG13	16:C4:115:ILE:HG12	5.23	0.46
87:5:4024:OHX:N4	87:5:4216:OHX:N3	2.63	0.46
20:C8:140:THR:HA	20:C8:143:ARG:NH1	2.44	0.46
40:L3:70:ARG:HH12	59:N3:120:LYS:HZ2	1.64	0.46
31:D9:21:CYS:HA	31:D9:30:LEU:HD21	2.51	0.46
11:S9:162:SER:OG	11:S9:163:PRO:O	2.33	0.46
36:5:2112:U:C4'	36:5:2113:A:H5'	2.44	0.46
36:5:1024:G:N2	36:5:1026:A:OP2	2.49	0.46
78:Q2:14:GLY:O	78:Q2:18:ARG:HG3	4.26	0.46
40:L3:19:ARG:HG3	40:L3:273:HIS:NE2	2.31	0.46
1:2:1518:C:OP1	87:2:2120:OHX:N5	2.49	0.46
3:S1:140:ILE:O	3:S1:210:ILE:HA	2.15	0.46
52:M6:58:LEU:HA	52:M6:72:HIS:CD2	2.95	0.46
3:S1:113:MET:HE2	3:S1:142:PHE:CE2	5.63	0.46
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.81	0.46
26:D4:7:ILE:HD11	26:D4:43:LYS:HD2	1.96	0.46
78:Q2:33:ALA:O	78:Q2:34:SER:HB3	2.14	0.46
33:E1:94:LYS:HB3	33:E1:95:HIS:H	1.52	0.46
11:S9:171:ARG:HE	11:S9:174:ARG:CB	5.36	0.46
36:5:3131:U:H2'	36:5:3132:C:C6	2.51	0.46
24:D2:38:LEU:HD23	24:D2:41:MET:HE3	2.14	0.46
22:D0:82:TYR:OH	31:D9:44:ARG:HD2	3.32	0.46
44:L7:191:VAL:O	44:L7:191:VAL:HG12	2.15	0.46
44:L7:228:SER:HA	44:L7:232:ARG:HH21	3.00	0.46
87:1:3910:OHX:N6	51:M5:32:GLN:O	2.48	0.46
36:1:2366:C:H5'	40:L3:259:HIS:CE1	2.50	0.46
29:D7:3:LEU:HD22	29:D7:3:LEU:HA	1.66	0.46
27:D5:97:LYS:HG3	27:D5:98:GLN:H	1.80	0.46
52:M6:193:GLN:O	52:M6:196:ALA:HB3	2.40	0.46
4:S2:139:ILE:HD11	4:S2:191:ALA:O	3.97	0.46
36:5:3027:A:H2'	36:5:3028:G:O4'	2.15	0.46
36:1:3187:A:H5''	50:M4:8:LYS:HE2	1.96	0.46
14:C2:129:GLU:O	14:C2:133:LEU:HD13	2.15	0.46
56:N0:117:ARG:H	56:N0:117:ARG:HG2	2.15	0.46
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	1.97	0.46
87:2:2074:OHX:N6	87:2:2161:OHX:N5	2.63	0.46
1:2:1561:U:OP1	87:2:2178:OHX:N3	2.48	0.46
1:6:1363:U:O2'	1:6:1364:G:H5'	2.14	0.46
1:6:30:G:H2'	1:6:31:C:C6	2.50	0.46
36:5:378:A:N7	36:5:391:A:H2	2.13	0.46
41:L4:178:LEU:HD23	41:L4:178:LEU:HA	2.17	0.46
21:C9:118:PRO:C	21:C9:120:GLY:H	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:C2:46:ARG:HE	33:E1:102:VAL:HG21	5.36	0.46
1:2:895:G:H2'	1:2:896:U:C6	2.50	0.46
46:L9:75:VAL:HA	46:L9:78:MET:HE3	2.46	0.46
25:D3:69:ARG:HD2	25:D3:116:ASP:OD2	2.88	0.46
36:5:2971:A:H5''	36:5:2972:G:O5'	2.15	0.46
71:O5:101:THR:HG22	71:O5:104:GLN:N	2.30	0.46
2:S0:116:LYS:HB2	2:S0:118:PRO:HD3	2.29	0.46
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.14	0.46
1:2:1769:U:O2	16:C4:136:ARG:HD2	2.15	0.46
53:M7:53:ASP:O	87:M7:208:OHX:N3	2.48	0.46
3:S1:22:ASP:HA	3:S1:23:PRO:HD3	2.01	0.46
45:L8:33:ASN:HA	36:5:2549:G:C2	211.40	0.46
2:S0:84:ARG:HD3	2:S0:203:PHE:O	3.95	0.46
15:C3:101:HIS:HA	15:C3:104:ARG:HH11	1.80	0.46
87:5:4012:OHX:N4	87:5:4200:OHX:N2	2.63	0.46
5:S3:64:ARG:NH2	5:S3:65:ARG:HB2	6.31	0.46
33:E1:109:ASP:OD1	33:E1:109:ASP:N	2.48	0.46
36:1:1114:U:H5''	64:N8:22:ILE:HD12	1.97	0.46
20:C8:40:ARG:HB3	21:C9:45:MET:SD	2.56	0.46
36:1:3228:C:H4'	36:1:3229:G:O5'	2.14	0.46
1:6:647:G:N2	1:6:687:G:N2	2.63	0.46
36:1:96:G:P	64:N8:34:MET:HB2	2.56	0.46
47:M0:194:GLY:O	47:M0:196:PHE:N	4.51	0.46
47:M0:194:GLY:C	47:M0:196:PHE:H	3.17	0.46
34:SR:24:ALA:CB	34:SR:72:THR:HA	2.44	0.46
54:M8:122:ILE:HD13	54:M8:122:ILE:HA	1.71	0.46
22:D0:38:SER:O	22:D0:42:VAL:HG23	2.16	0.46
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.50	0.46
87:5:4001:OHX:N2	87:5:4192:OHX:N1	2.64	0.46
38:4:91:C:H2'	38:4:92:A:H8	1.80	0.46
1:2:102:U:O4	1:2:360:A:H2'	2.16	0.46
36:5:2376:G:O2'	36:5:2377:G:H5'	2.15	0.46
36:1:2707:C:H2'	36:1:2708:C:H6	1.80	0.46
1:2:948:G:H2'	1:2:949:C:O4'	2.15	0.46
52:M6:88:VAL:O	52:M6:90:HIS:N	2.48	0.46
1:2:1145:U:O2'	4:S2:89:GLN:O	2.17	0.46
51:M5:178:HIS:HD1	51:M5:178:HIS:H	1.64	0.46
43:L6:3:ALA:HB1	68:O2:75:LEU:HD13	2.23	0.46
36:1:1074:U:O2'	36:1:1075:A:H2'	2.15	0.46
18:C6:129:PHE:CE1	22:D0:78:THR:HA	2.59	0.46
42:L5:46:THR:CG2	36:5:1078:U:H4'	239.02	0.46
36:5:2505:U:H2'	36:5:2506:U:C5	2.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1477:A:OP1	36:1:3075:G:O2'	2.30	0.46
16:C4:31:THR:HA	16:C4:38:THR:HA	1.98	0.46
36:1:2444:C:H3'	36:1:2445:A:H5''	1.97	0.46
2:S0:139:VAL:HG13	2:S0:141:ILE:HG13	2.49	0.46
3:S1:41:ARG:NH2	3:S1:97:LEU:HD11	2.30	0.46
3:S1:201:THR:O	3:S1:203:ASP:N	2.49	0.46
45:L8:108:ARG:O	45:L8:112:GLU:N	2.89	0.46
45:L8:108:ARG:NE	45:L8:112:GLU:OE2	2.33	0.46
47:M0:145:LYS:HZ2	47:M0:167:LEU:CD1	3.84	0.46
44:L7:103:LEU:HD23	44:L7:103:LEU:HA	1.85	0.46
27:D5:68:ARG:HD3	27:D5:68:ARG:HA	1.69	0.46
49:M3:75:PHE:HA	49:M3:101:ARG:HH12	1.80	0.46
49:M3:87:ALA:O	49:M3:91:ARG:HG3	2.23	0.46
55:M9:166:ASN:HD21	55:M9:170:ARG:NH1	6.78	0.46
1:6:830:U:H2'	1:6:831:U:H5'	1.98	0.46
1:6:149:C:H2'	1:6:150:U:H6	1.80	0.46
1:6:699:U:O4	87:6:2075:OHX:N1	2.48	0.46
44:L7:143:THR:HG21	44:L7:237:ASN:HB3	1.97	0.46
36:1:1846:C:OP1	36:1:1849:C:N4	2.44	0.46
1:6:1645:G:H22	1:6:1756:A:H2	1.62	0.46
1:2:93:A:H4'	1:2:94:U:OP2	2.15	0.46
45:L8:240:ASN:OD1	45:L8:241:LYS:N	2.48	0.46
1:6:825:U:HO2'	1:6:826:U:P	2.36	0.46
53:M7:75:GLU:HG2	53:M7:76:PHE:CE2	3.04	0.46
11:S9:61:THR:HG22	24:D2:97:ARG:NH2	2.31	0.46
36:1:1595:U:C2	36:1:1596:C:C5	3.04	0.46
36:5:618:C:H2'	36:5:619:A:N7	2.31	0.46
62:N6:83:ASP:O	62:N6:84:LYS:HB2	2.26	0.46
1:6:488:G:N2	1:6:499:U:H3	2.13	0.46
12:C0:80:LEU:O	12:C0:82:LEU:N	2.48	0.46
21:C9:66:TYR:HA	21:C9:124:ILE:HB	1.96	0.46
4:S2:121:VAL:O	4:S2:125:ILE:HG13	2.16	0.46
61:N5:142:ILE:HD13	61:N5:142:ILE:HA	1.76	0.46
36:5:2935:U:H2'	36:5:2935:U:O2	2.15	0.46
87:2:2074:OHX:N6	87:2:2161:OHX:N2	2.63	0.46
36:1:2158:A:H5'	36:1:2160:G:O4'	2.15	0.46
17:C5:49:MET:HB3	17:C5:50:THR:H	4.36	0.46
46:L9:2:LYS:HA	46:L9:60:GLY:O	2.15	0.46
36:1:1414:G:N7	87:1:4122:OHX:N2	2.63	0.46
17:C5:60:LEU:HD23	17:C5:76:VAL:HG21	3.06	0.46
64:N8:65:GLN:O	64:N8:66:ALA:HB3	2.76	0.46
1:2:320:U:H2'	1:2:321:C:C6	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:M3:171:ARG:HD3	49:M3:171:ARG:HA	1.55	0.46
1:6:194:U:O2	1:6:194:U:H2'	2.15	0.46
1:6:1561:U:H4'	1:6:1599:C:H4'	1.97	0.46
47:M0:19:LYS:HE3	47:M0:26:VAL:HG22	3.69	0.46
8:S6:33:GLY:HA2	8:S6:51:LYS:HE2	1.97	0.46
1:6:163:G:H8	1:6:163:G:O5'	1.98	0.46
25:D3:53:VAL:HG13	25:D3:72:VAL:HB	2.34	0.46
3:S1:131:ASP:HB3	3:S1:180:THR:HG23	1.96	0.46
63:N7:46:ILE:HD11	63:N7:49:TYR:N	2.76	0.46
40:L3:238:LEU:HB3	40:L3:242:THR:HG21	2.35	0.46
36:1:1145:G:O2'	68:O2:45:ARG:O	2.32	0.46
54:M8:170:ARG:HH11	64:N8:56:VAL:HG23	1.81	0.46
8:S6:87:ARG:N	8:S6:91:GLU:OE1	2.46	0.46
28:D6:60:PRO:O	28:D6:62:TYR:N	2.49	0.46
44:L7:73:GLY:O	57:N1:143:THR:HB	2.18	0.46
36:1:2278:C:P	77:Q1:23:ARG:NH1	2.89	0.46
36:1:1408:G:P	68:O2:33:ARG:HH22	2.39	0.46
27:D5:58:ARG:HB3	27:D5:103:ARG:HH11	8.20	0.46
1:2:868:G:H1	1:2:960:U:H3	1.64	0.46
9:S7:17:GLU:OE2	9:S7:45:SER:HB2	2.16	0.46
36:1:3242:G:N2	36:1:3245:A:H5''	2.30	0.46
20:C8:31:ALA:CB	20:C8:58:ALA:HB2	2.56	0.46
1:6:825:U:O2'	1:6:826:U:P	2.73	0.46
61:N5:135:ILE:O	61:N5:139:ILE:HG22	2.16	0.46
87:1:4003:OHX:N5	87:1:4172:OHX:N5	2.64	0.46
36:5:2397:A:C5	36:5:2873:U:H6	2.33	0.46
21:C9:63:ARG:O	21:C9:67:MET:HE3	2.15	0.46
1:2:199:G:O2'	1:2:200:A:H8	1.98	0.46
8:S6:30:LYS:NZ	8:S6:34:GLN:OE1	2.45	0.46
67:O1:64:VAL:HG23	67:O1:65:LYS:HB2	5.20	0.46
45:L8:162:LEU:HD23	51:M5:7:LEU:HD21	1.98	0.46
36:1:3059:G:H4'	36:1:3373:U:O2'	2.16	0.46
68:O2:119:VAL:O	68:O2:122:PRO:HD3	2.49	0.46
57:N1:105:PHE:O	57:N1:109:VAL:HG23	2.16	0.46
71:O5:103:LYS:NZ	36:5:153:U:OP2	73.96	0.46
36:5:2099:A:H2'	36:5:2100:A:H5''	1.98	0.46
36:5:2192:C:H2'	36:5:2193:U:O4'	2.16	0.46
45:L8:72:PRO:HA	45:L8:73:PRO:HD3	1.82	0.46
41:L4:34:ILE:O	41:L4:38:VAL:HG23	2.16	0.46
1:2:1228:G:H5'	14:C2:45:LEU:HB3	1.98	0.46
5:S3:78:LYS:NZ	12:C0:33:GLU:HG2	2.31	0.46
36:1:2186:U:H2'	36:1:2187:G:O4'	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
72:O6:74:LYS:HD2	72:O6:80:PHE:HD2	2.06	0.46
5:S3:203:PRO:HB3	1:6:1332:C:H4'	428.47	0.46
87:1:3963:OHX:N3	87:1:4072:OHX:N4	2.63	0.46
50:M4:31:LYS:HD3	50:M4:51:ALA:HB1	2.96	0.46
56:N0:82:ASP:OD1	56:N0:87:THR:HB	2.16	0.46
36:5:94:G:H2'	36:5:95:A:C8	2.51	0.46
36:1:1664:G:H2'	36:1:1665:C:C6	2.51	0.46
61:N5:50:ALA:HB2	71:O5:79:ASP:HB3	5.73	0.46
1:2:1253:U:H2'	1:2:1254:U:H6	1.80	0.46
10:S8:76:THR:HG23	10:S8:108:PRO:HG2	2.71	0.46
60:N4:25:ASP:OD2	60:N4:25:ASP:N	4.21	0.46
72:O6:25:LYS:HB3	36:5:156:G:OP2	88.97	0.46
51:M5:49:ARG:NH1	36:5:149:U:OP2	101.20	0.46
41:L4:180:LYS:HE3	41:L4:180:LYS:HB3	2.62	0.46
22:D0:102:ARG:O	22:D0:106:ILE:HG22	2.16	0.46
22:D0:108:ILE:HD12	22:D0:108:ILE:HA	3.98	0.46
4:S2:53:ILE:O	4:S2:56:ILE:N	2.49	0.46
56:N0:155:ARG:NH2	56:N0:172:TYR:HA	2.30	0.46
4:S2:91:ARG:HB3	4:S2:91:ARG:HE	1.31	0.46
30:D8:35:ASP:OD1	30:D8:37:SER:HB3	7.72	0.46
64:N8:74:ASN:HB3	64:N8:115:LYS:HB2	1.98	0.46
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.97	0.46
1:6:824:G:N2	1:6:849:C:H1'	2.31	0.46
2:S0:202:TYR:O	2:S0:203:PHE:CD2	2.69	0.46
36:1:1845:G:O2'	73:O7:5:THR:HB	2.16	0.46
49:M3:73:ARG:NH2	36:5:77:A:N7	81.41	0.46
5:S3:64:ARG:O	5:S3:67:ASN:N	2.48	0.46
36:1:386:A:H8	36:1:386:A:O5'	1.99	0.46
44:L7:221:LYS:O	44:L7:228:SER:O	4.94	0.46
36:1:2687:G:N7	87:1:3897:OHX:N5	2.64	0.46
59:N3:66:LYS:HB3	59:N3:68:GLU:OE1	2.15	0.46
87:1:3959:OHX:N1	87:1:4140:OHX:N4	2.63	0.46
36:5:2198:A:OP2	87:5:4192:OHX:N4	2.49	0.46
1:2:926:A:OP1	1:2:1016:C:O2'	2.23	0.46
1:6:407:A:H2'	1:6:408:C:C6	2.51	0.46
1:6:1133:A:H2'	1:6:1134:C:O4'	2.16	0.46
55:M9:30:SER:O	55:M9:34:GLN:HG2	4.60	0.46
36:1:2167:A:OP1	51:M5:72:LYS:NZ	2.46	0.46
1:2:1586:A:H2'	1:2:1587:A:C8	2.50	0.46
36:1:2357:A:H2'	36:1:2358:A:C8	2.51	0.46
75:O9:31:THR:O	75:O9:32:ASN:HB2	2.15	0.46
36:5:736:A:C5	36:5:737:G:H1'	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:L6:171:PRO:HG2	69:O3:9:VAL:CG2	3.02	0.46
36:1:619:A:H5''	36:1:620:U:OP1	2.16	0.46
68:O2:19:ARG:NH2	36:5:1433:A:OP1	166.65	0.46
50:M4:38:ILE:HD11	56:N0:150:PHE:CE2	2.51	0.46
50:M4:39:ILE:HD12	50:M4:43:LYS:HB3	1.97	0.46
36:5:1661:G:H2'	36:5:1662:G:C8	2.51	0.46
18:C6:7:VAL:HG21	18:C6:92:TYR:HA	2.98	0.46
11:S9:154:LYS:HB2	11:S9:154:LYS:HE3	1.72	0.46
36:1:2689:A:N3	36:1:2689:A:H2'	2.29	0.46
40:L3:387:LEU:HD12	40:L3:387:LEU:H	1.81	0.46
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.45	0.46
39:L2:242:ARG:O	36:5:2154:U:H5''	225.42	0.46
36:1:1338:C:OP2	87:1:4197:OHX:N2	2.49	0.46
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.49	0.46
18:C6:113:ASP:OD2	18:C6:115:THR:N	2.49	0.46
7:S5:55:ASP:HB3	7:S5:58:LEU:HD12	1.98	0.46
36:1:1658:G:O6	87:1:4168:OHX:N3	2.49	0.46
1:2:1795:U:N3	28:D6:9:GLY:O	2.48	0.46
1:2:735:C:OP2	1:2:735:C:H2'	2.15	0.46
45:L8:81:THR:O	45:L8:222:PHE:HZ	3.68	0.46
1:2:144:U:H5	8:S6:137:ARG:HH12	1.64	0.46
36:1:1103:A:C8	44:L7:158:LYS:HD3	2.51	0.46
44:L7:159:GLN:O	44:L7:160:ARG:C	2.53	0.46
22:D0:97:VAL:HG13	22:D0:98:GLN:H	2.36	0.46
27:D5:42:LEU:O	27:D5:44:GLN:N	2.49	0.46
1:6:1237:G:H2'	1:6:1238:A:C8	2.50	0.46
36:5:2841:G:OP2	87:5:4138:OHX:N1	2.48	0.46
1:2:14:C:H2'	1:2:15:U:C6	2.51	0.46
42:L5:111:GLN:C	42:L5:113:LEU:H	2.18	0.46
36:5:1716:U:O2'	36:5:1717:U:O5'	2.30	0.46
49:M3:100:ARG:NH1	36:5:76:G:O2'	84.77	0.46
36:1:1355:A:H5'	36:1:1357:G:H1'	1.97	0.46
35:SM:77:THR:O	35:SM:79:SER:N	3.81	0.46
13:C1:101:GLU:OE2	25:D3:16:ARG:NH2	2.63	0.46
30:D8:32:PHE:CE2	30:D8:38:ARG:HB3	2.51	0.46
9:S7:96:ARG:HB3	1:6:856:A:N6	365.46	0.46
39:L2:15:ILE:HD12	39:L2:15:ILE:HA	4.61	0.46
25:D3:38:PHE:HB3	1:6:359:A:C2	325.91	0.46
36:1:3392:U:H2'	36:1:3393:U:H6	1.80	0.46
54:M8:93:ILE:HG23	36:5:784:A:C6	151.31	0.46
78:Q2:8:ARG:HH21	78:Q2:83:LEU:HD13	5.05	0.46
51:M5:112:ASN:O	51:M5:138:GLN:NE2	2.90	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1172:G:H21	21:C9:88:VAL:CG2	2.29	0.46
43:L6:176:PHE:H	50:M4:117:ARG:NH2	5.41	0.46
36:1:128:G:H2'	36:1:129:U:O4'	2.15	0.46
14:C2:40:GLY:HA3	14:C2:125:ASN:HB3	1.96	0.46
42:L5:143:LYS:HG3	42:L5:172:TYR:HD2	1.80	0.46
42:L5:261:THR:HG23	42:L5:264:GLN:OE1	2.16	0.46
38:4:10:A:H2'	38:4:11:C:C6	2.51	0.46
1:2:256:A:H2'	1:2:257:A:O4'	2.16	0.46
36:1:3246:G:O6	87:1:4107:OHX:N4	2.48	0.46
36:1:2259:A:OP2	87:1:3931:OHX:N2	2.48	0.46
33:E1:88:PRO:HA	33:E1:89:LYS:HA	4.67	0.46
56:N0:101:ALA:O	56:N0:105:THR:HG23	2.16	0.46
64:N8:75:LEU:HD13	64:N8:118:ILE:HD13	1.97	0.46
10:S8:136:SER:HB3	10:S8:139:ALA:HB3	1.98	0.46
36:1:1706:C:H2'	36:1:1707:A:O4'	2.15	0.46
36:1:1176:C:H2'	36:1:1177:G:N2	2.31	0.46
43:L6:158:TYR:OH	50:M4:114:ASP:OD2	2.22	0.46
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.80	0.46
40:L3:186:GLY:O	40:L3:191:LYS:HE2	2.16	0.46
28:D6:36:ILE:HD12	28:D6:36:ILE:H	5.79	0.46
54:M8:176:ARG:HG3	36:5:2763:U:H5'	182.83	0.46
1:2:702:G:C2	1:2:703:G:H1'	2.50	0.46
1:2:462:G:OP1	11:S9:3:ARG:HG2	2.16	0.46
22:D0:106:ILE:O	22:D0:107:THR:OG1	2.30	0.46
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.31	0.46
72:O6:99:ARG:HB3	72:O6:100:HIS:H	1.45	0.46
74:O8:11:PHE:CZ	74:O8:43:PHE:HB3	2.51	0.46
1:2:543:C:O2	1:2:543:C:H5'	2.16	0.46
50:M4:48:GLY:CA	50:M4:53:VAL:HG13	2.89	0.46
1:2:655:G:H4'	1:2:656:G:H5'	1.97	0.46
8:S6:153:VAL:HG21	8:S6:175:ILE:HG21	3.72	0.46
36:1:543:C:N4	36:1:548:G:H1	2.10	0.46
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	1.97	0.46
14:C2:57:ALA:O	14:C2:85:LYS:HE3	2.84	0.46
29:D7:49:HIS:CE1	29:D7:70:LYS:HG2	2.91	0.46
11:S9:17:ARG:NH1	1:6:4:C:O2'	389.42	0.46
1:2:692:C:H2'	1:2:693:U:O4'	2.16	0.46
6:S4:107:GLY:HA2	6:S4:189:LEU:HG	2.09	0.46
49:M3:9:ILE:HG12	64:N8:34:MET:CE	2.46	0.46
63:N7:115:LYS:NZ	63:N7:119:GLU:OE2	2.49	0.46
61:N5:92:LYS:HG3	36:5:1831:U:P	100.93	0.46
49:M3:46:ILE:CG2	49:M3:49:ARG:HB2	3.04	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
59:N3:68:GLU:N	59:N3:68:GLU:OE1	2.31	0.46
36:1:846:A:H2'	36:1:847:A:O4'	2.16	0.46
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.46	0.46
48:M1:85:LYS:HG3	48:M1:89:TYR:CE2	2.51	0.46
4:S2:177:GLY:O	4:S2:195:ASP:HA	2.16	0.46
69:O3:89:LEU:HA	69:O3:90:PRO:HD3	1.74	0.46
36:5:3353:G:O2'	36:5:3356:G:H5'	2.16	0.46
87:5:4001:OHX:N4	87:5:4192:OHX:N3	2.64	0.46
1:2:4:C:OP2	4:S2:200:SER:OG	2.33	0.46
1:6:1503:A:H2'	1:6:1504:G:O4'	2.16	0.46
41:L4:23:PRO:O	41:L4:24:ALA:HB3	2.20	0.46
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.50	0.46
36:5:2584:G:H3'	36:5:2585:G:H4'	1.98	0.46
1:2:484:C:H42	1:2:503:G:H22	1.62	0.46
1:2:1413:U:H4'	1:2:1414:U:OP2	2.16	0.46
1:6:751:G:H2'	1:6:752:A:C8	2.51	0.46
36:5:3072:C:H2'	36:5:3073:A:O4'	2.16	0.46
1:2:889:U:H2'	1:2:890:C:O4'	2.16	0.46
36:5:392:G:O6	87:5:4068:OHX:N3	2.49	0.46
1:6:1572:G:H2'	1:6:1572:G:N3	2.30	0.46
41:L4:318:LEU:HD23	41:L4:318:LEU:HA	1.63	0.46
36:1:1192:C:O2	87:1:4050:OHX:N3	2.49	0.46
9:S7:30:SER:HB3	9:S7:34:LEU:HD12	2.62	0.46
36:1:1887:A:OP2	87:1:3890:OHX:N4	2.49	0.46
4:S2:99:LYS:HA	4:S2:117:THR:HA	2.38	0.46
19:C7:52:GLY:HA3	1:6:1389:C:O2'	423.67	0.46
1:2:1153:G:H5'	28:D6:85:ARG:HD2	1.97	0.46
42:L5:40:HIS:CD2	42:L5:42:ALA:H	2.17	0.46
56:N0:23:LYS:HA	57:N1:146:ASN:HD21	2.55	0.46
67:O1:46:THR:HG23	67:O1:47:ASP:H	3.94	0.46
3:S1:126:THR:CG2	3:S1:136:ARG:HE	2.40	0.46
36:1:916:G:H5'	36:1:917:A:OP1	2.16	0.46
3:S1:128:LYS:HG3	3:S1:134:VAL:HG22	1.97	0.46
20:C8:27:LYS:NZ	1:6:1539:G:H1	352.92	0.46
41:L4:126:ILE:HG13	41:L4:238:LEU:HD13	2.16	0.46
5:S3:144:ALA:HB2	1:6:579:A:H61	393.12	0.46
45:L8:160:ILE:HG12	45:L8:160:ILE:H	1.49	0.46
1:6:697:C:OP2	87:6:2075:OHX:N5	2.48	0.46
36:5:956:U:OP1	87:5:4154:OHX:N2	2.49	0.46
3:S1:82:ARG:HA	3:S1:104:ASP:O	2.60	0.46
53:M7:24:VAL:CG1	53:M7:86:LYS:HG2	2.46	0.46
1:2:892:A:C6	1:2:893:U:C4	3.03	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:S3:60:GLY:HA3	5:S3:65:ARG:HB3	3.27	0.46
36:1:3168:A:C2'	36:1:3169:U:H5'	2.46	0.46
36:1:2616:C:H3'	36:1:2617:U:O2	2.15	0.46
61:N5:136:ALA:O	61:N5:139:ILE:HG23	2.16	0.46
19:C7:20:TYR:CZ	19:C7:38:ILE:HG13	2.50	0.46
51:M5:31:ARG:HG3	51:M5:129:TYR:OH	3.78	0.46
67:O1:53:PRO:O	67:O1:57:GLN:HG3	2.16	0.46
21:C9:66:TYR:HD1	21:C9:67:MET:HE2	1.81	0.46
10:S8:21:PHE:CE1	10:S8:22:ARG:HD3	2.51	0.46
31:D9:10:HIS:ND1	31:D9:11:PRO:HD2	2.31	0.46
54:M8:153:PHE:O	54:M8:161:LYS:HD2	2.16	0.46
36:1:2395:G:H5''	40:L3:255:TRP:CD1	2.51	0.46
36:1:627:U:H4'	36:1:1399:A:O2'	2.16	0.46
36:1:2261:G:H21	36:1:2262:A:N6	2.14	0.46
68:O2:22:SER:HA	68:O2:28:VAL:HG12	2.62	0.46
76:Q0:111:ARG:HG3	76:Q0:112:LYS:HD2	1.98	0.46
36:1:677:A:C8	36:1:786:A:C6	3.04	0.46
70:O4:55:SER:OG	70:O4:69:HIS:HB3	2.16	0.46
36:5:999:G:C6	36:5:1000:C:N4	2.84	0.46
1:2:811:A:C2	1:2:858:G:H1'	2.51	0.46
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	3.18	0.46
50:M4:23:ILE:O	50:M4:29:ALA:HA	2.16	0.46
51:M5:15:GLN:HB2	72:O6:51:SER:HB2	2.77	0.46
2:S0:82:GLY:O	2:S0:86:VAL:HG22	2.28	0.46
8:S6:20:ASP:HB3	8:S6:23:ARG:HB2	2.08	0.46
1:6:1119:G:O6	87:6:2177:OHX:N2	2.48	0.46
41:L4:30:ILE:N	54:M8:25:TYR:OH	2.59	0.46
36:1:1758:G:H1	36:1:1767:C:H42	1.64	0.46
18:C6:40:GLU:HG3	18:C6:41:PRO:HA	1.98	0.45
1:2:1202:A:N6	1:2:1457:C:H5''	2.30	0.45
38:4:85:G:O6	62:N6:112:ASP:HB3	2.15	0.45
1:2:1797:A:OP2	28:D6:10:ARG:NH2	2.49	0.45
9:S7:49:ILE:HG22	9:S7:175:LYS:HD3	5.17	0.45
1:2:1433:G:N2	31:D9:45:GLU:OE1	2.48	0.45
36:1:1580:A:H5'	36:1:2522:G:N7	2.30	0.45
1:2:196:G:O2'	1:2:197:A:P	2.74	0.45
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.98	0.45
36:1:1103:A:H62	36:1:1363:A:H1'	1.80	0.45
2:S0:187:ALA:O	2:S0:188:LEU:HD22	2.15	0.45
47:M0:24:ARG:O	47:M0:25:ALA:HB3	4.53	0.45
1:6:711:U:H3'	1:6:712:G:H8	1.81	0.45
36:5:3165:A:N6	36:5:3285:C:H42	2.12	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:L5:289:LYS:HD2	47:M0:206:LEU:HD23	1.97	0.45
36:5:3078:U:H4'	36:5:3079:U:O5'	2.16	0.45
36:5:2572:C:O2'	36:5:2573:G:OP2	2.31	0.45
9:S7:140:VAL:HG22	9:S7:150:GLN:HG2	3.81	0.45
11:S9:171:ARG:HA	11:S9:174:ARG:HB2	2.62	0.45
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CH2	2.83	0.45
15:C3:36:GLN:HG2	15:C3:54:LEU:HD21	2.73	0.45
63:N7:6:LYS:HB3	63:N7:7:ALA:H	1.60	0.45
36:5:1480:G:H4'	36:5:1481:A:OP1	2.16	0.45
36:5:420:G:OP1	36:5:420:G:O5'	2.32	0.45
36:5:2439:A:N6	36:5:2508:U:H3	2.13	0.45
49:M3:105:ASN:OD1	49:M3:107:GLU:HG2	2.70	0.45
1:2:1061:A:H2'	1:2:1062:A:H5'	1.98	0.45
1:2:105:A:H2'	1:2:106:U:O4'	2.16	0.45
1:6:884:A:O2'	1:6:885:G:H5'	2.16	0.45
37:3:79:A:C2	37:3:102:A:C4	3.04	0.45
1:2:1229:G:O2'	1:2:1255:G:N2	2.48	0.45
64:N8:73:LEU:HD11	64:N8:78:LEU:HA	3.79	0.45
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	1.98	0.45
1:2:1349:G:H2'	1:2:1350:U:C6	2.51	0.45
4:S2:186:LYS:HD2	4:S2:186:LYS:HA	2.45	0.45
45:L8:245:LYS:HE3	45:L8:245:LYS:HB3	1.82	0.45
1:2:1727:G:H2'	1:2:1728:A:C8	2.51	0.45
1:2:187:G:OP2	10:S8:142:LYS:NZ	2.49	0.45
37:3:19:C:H2'	37:3:20:A:H8	1.81	0.45
1:6:1491:U:H4'	1:6:1492:A:H5''	1.98	0.45
36:5:1565:G:N2	36:5:1566:A:H1'	2.31	0.45
22:D0:71:PRO:HB3	31:D9:41:GLN:HG2	2.95	0.45
1:6:639:U:H5	1:6:695:U:C6	2.34	0.45
1:6:1151:A:O2'	1:6:1766:A:N7	2.38	0.45
8:S6:71:THR:HG22	8:S6:72:ARG:H	4.27	0.45
1:2:1761:U:O2'	1:2:1762:A:OP2	2.28	0.45
87:2:2095:OHX:N1	87:2:2115:OHX:N2	2.64	0.45
9:S7:39:ARG:HH12	55:M9:188:ASP:HB2	1.81	0.45
36:1:1546:A:N7	51:M5:71:ARG:NH1	2.65	0.45
1:6:1698:G:O2'	1:6:1699:G:O5'	2.32	0.45
36:1:353:G:N7	73:O7:55:ARG:HD3	2.31	0.45
40:L3:332:ARG:NH1	40:L3:333:LYS:HD2	2.79	0.45
1:6:187:G:H8	1:6:187:G:O5'	1.99	0.45
36:5:358:G:N2	36:5:361:A:OP2	2.44	0.45
1:6:223:U:H2'	1:6:224:C:C6	2.51	0.45
16:C4:11:SER:OG	16:C4:12:GLN:N	4.43	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:393:C:H4'	1:2:1673:G:O2'	2.17	0.45
6:S4:195:ILE:O	6:S4:196:VAL:HG23	3.81	0.45
36:5:1716:U:H3'	36:5:1716:U:P	2.56	0.45
47:M0:156:ARG:CG	47:M0:163:GLN:HG2	2.85	0.45
5:S3:70:THR:HG23	5:S3:86:LEU:HB2	1.99	0.45
35:SM:68:ARG:HG2	1:6:1460:A:OP1	337.12	0.45
61:N5:40:LEU:HB3	61:N5:41:ALA:H	3.39	0.45
31:D9:16:LYS:HG2	31:D9:16:LYS:H	2.41	0.45
15:C3:26:PHE:HE1	15:C3:60:VAL:H	3.72	0.45
15:C3:2:GLY:O	1:6:866:G:H5''	330.25	0.45
57:N1:120:LYS:C	57:N1:122:GLN:H	3.01	0.45
77:Q1:17:ARG:HA	77:Q1:20:VAL:HG23	1.97	0.45
36:5:198:A:N3	36:5:218:G:O2'	2.48	0.45
1:2:416:A:H5'	1:2:417:A:N7	2.31	0.45
87:1:4019:OHX:N6	87:1:4057:OHX:N2	2.64	0.45
1:2:1438:G:H4'	5:S3:178:ARG:O	2.17	0.45
41:L4:361:HIS:O	56:N0:28:ARG:NH2	2.52	0.45
36:1:3281:U:H2'	36:1:3282:U:C6	2.50	0.45
37:3:11:A:O2'	37:3:13:A:OP2	2.27	0.45
19:C7:2:GLY:N	1:6:1312:A:OP1	391.92	0.45
36:5:177:U:OP2	87:5:4018:OHX:N6	2.48	0.45
1:2:1391:A:H2'	1:2:1392:U:C6	2.51	0.45
22:D0:23:ARG:HD2	22:D0:90:TYR:CD1	2.51	0.45
1:2:1718:G:H2'	1:2:1719:A:H8	1.81	0.45
5:S3:172:THR:HA	5:S3:184:ILE:O	2.32	0.45
36:1:1247:U:H2'	36:1:1268:G:O6	2.16	0.45
42:L5:183:TRP:CZ3	42:L5:185:PHE:HA	7.29	0.45
73:O7:64:MET:O	73:O7:68:LYS:HB3	3.92	0.45
30:D8:5:THR:O	30:D8:7:VAL:N	3.61	0.45
36:1:2284:C:H5''	36:1:2285:C:OP2	2.16	0.45
36:5:2775:U:H2'	36:5:2776:C:C6	2.51	0.45
48:M1:116:TYR:CD2	48:M1:122:ILE:HD11	2.51	0.45
36:1:1441:G:C2'	36:1:1442:U:H5'	2.46	0.45
8:S6:43:ASP:OD1	8:S6:43:ASP:N	2.50	0.45
36:5:2256:A:OP2	36:5:2256:A:H2'	2.15	0.45
36:1:534:U:O2	56:N0:146:LYS:HA	2.16	0.45
36:1:2599:U:H2'	36:1:2600:C:C6	2.52	0.45
52:M6:3:VAL:HG13	52:M6:4:GLU:H	1.82	0.45
18:C6:50:GLU:CD	18:C6:114:ARG:HH11	2.19	0.45
79:Q3:73:THR:HG22	79:Q3:75:ALA:N	2.75	0.45
4:S2:151:PRO:CD	23:D1:9:VAL:HG21	3.02	0.45
36:5:663:C:H2'	36:5:664:U:C6	2.51	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:83:ALA:HA	34:SR:89:LEU:HD23	1.98	0.45
8:S6:176:GLN:HG2	1:6:169:A:C5'	328.53	0.45
3:S1:131:ASP:OD2	3:S1:180:THR:HB	4.64	0.45
1:2:639:U:OP1	9:S7:118:LEU:N	2.49	0.45
87:5:4093:OHX:N3	87:5:4201:OHX:N1	2.64	0.45
46:L9:164:ILE:HA	46:L9:164:ILE:HD13	1.73	0.45
87:5:4002:OHX:N3	87:5:4090:OHX:N1	2.63	0.45
20:C8:5:VAL:HG23	27:D5:42:LEU:HD23	1.99	0.45
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.17	0.45
1:6:1237:G:H2'	1:6:1238:A:H8	1.81	0.45
36:1:2392:C:HO2'	40:L3:266:ARG:HH22	1.57	0.45
6:S4:194:THR:HG22	6:S4:231:GLN:HB2	1.98	0.45
40:L3:116:ARG:NH1	40:L3:122:TRP:CD1	3.18	0.45
53:M7:52:LEU:HD22	53:M7:88:VAL:HG11	3.17	0.45
1:6:1228:G:H2'	1:6:1228:G:N3	2.32	0.45
2:S0:193:GLN:C	2:S0:195:TRP:H	2.19	0.45
51:M5:150:TRP:CH2	51:M5:151:ILE:HD12	4.63	0.45
36:5:420:G:OP2	36:5:420:G:OP1	2.34	0.45
36:5:3041:U:H2'	36:5:3042:U:H6	1.80	0.45
47:M0:116:ARG:HH21	36:5:2618:G:H5'	229.72	0.45
87:5:4034:OHX:N3	87:5:4082:OHX:N6	2.64	0.45
36:1:1906:G:N2	36:1:1909:A:N1	2.62	0.45
10:S8:150:ALA:O	10:S8:152:ILE:HG13	2.16	0.45
39:L2:9:ARG:NH1	36:5:912:G:OP2	180.51	0.45
1:6:103:A:H4'	1:6:104:A:O5'	2.16	0.45
74:O8:12:LEU:HD12	74:O8:15:THR:HG21	7.50	0.45
27:D5:74:SER:OG	1:6:1534:G:OP2	344.56	0.45
36:5:1643:A:H4'	36:5:1822:C:H5'	1.98	0.45
36:1:2097:U:H2'	36:1:2098:C:C6	2.51	0.45
36:5:2403:G:N2	36:5:2404:A:N7	2.62	0.45
38:4:122:U:H2'	38:4:123:G:H8	1.80	0.45
1:2:1519:U:H2'	1:2:1520:U:C5	2.51	0.45
45:L8:224:ASP:OD1	45:L8:224:ASP:N	2.50	0.45
7:S5:32:GLU:H	7:S5:32:GLU:CD	2.20	0.45
36:5:1128:U:H2'	36:5:1129:A:O4'	2.16	0.45
46:L9:174:LYS:HB2	76:Q0:127:LEU:HD11	1.98	0.45
42:L5:119:TYR:CZ	42:L5:135:VAL:HG23	2.85	0.45
18:C6:114:ARG:H	18:C6:116:LEU:CD2	2.29	0.45
7:S5:25:LEU:HD21	7:S5:29:ILE:HD12	3.27	0.45
7:S5:68:ILE:HD12	7:S5:70:VAL:O	2.39	0.45
36:1:1789:G:O6	87:1:4168:OHX:N4	2.49	0.45
50:M4:121:MET:HE1	36:5:3215:A:O5'	277.27	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D6:87:ARG:HB3	28:D6:91:ASP:HB2	2.03	0.45
53:M7:28:ASN:O	53:M7:32:THR:HG22	2.17	0.45
87:1:4080:OHX:N6	87:1:4150:OHX:N3	2.64	0.45
37:3:27:A:P	42:L5:57:ASN:H	2.39	0.45
36:1:1093:A:N3	36:1:1096:U:N3	2.64	0.45
1:2:569:C:H41	25:D3:69:ARG:NH1	2.06	0.45
36:5:2970:C:HO2'	36:5:2971:A:H2	1.63	0.45
41:L4:60:THR:HG22	41:L4:61:SER:H	1.82	0.45
68:O2:105:ARG:O	68:O2:109:LEU:HB2	2.16	0.45
87:5:4067:OHX:N1	87:5:4143:OHX:N4	2.64	0.45
24:D2:7:LEU:HD13	24:D2:74:VAL:HG23	2.43	0.45
47:M0:23:ASN:O	47:M0:24:ARG:HB2	2.16	0.45
36:5:186:U:OP2	87:5:3910:OHX:N4	2.49	0.45
63:N7:4:PHE:HE2	66:O0:63:SER:HB3	2.47	0.45
36:1:685:G:P	49:M3:35:ARG:NH1	2.90	0.45
36:1:2767:U:H2'	36:1:2768:U:C6	2.50	0.45
21:C9:45:MET:HE3	21:C9:46:PRO:HD2	1.98	0.45
46:L9:103:ILE:HG13	46:L9:136:PHE:CE2	2.51	0.45
11:S9:171:ARG:HA	11:S9:171:ARG:HE	3.06	0.45
1:2:208:U:H2'	1:2:209:U:C6	2.52	0.45
1:6:647:G:N2	1:6:687:G:H22	2.14	0.45
9:S7:68:ALA:O	9:S7:72:LYS:HG3	2.28	0.45
45:L8:34:PHE:O	45:L8:41:GLN:NE2	2.49	0.45
33:E1:136:LYS:O	33:E1:138:ARG:HB2	2.15	0.45
36:5:1081:U:HO2'	36:5:1082:U:C5'	2.28	0.45
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.99	0.45
87:1:4019:OHX:N3	87:1:4057:OHX:N1	2.65	0.45
87:1:3975:OHX:N1	87:1:4155:OHX:N2	2.64	0.45
48:M1:109:HIS:CD2	48:M1:114:ILE:HG21	2.52	0.45
36:1:2395:G:H4'	40:L3:258:ALA:HB1	1.98	0.45
36:5:1348:U:C5	36:5:1355:A:C5	3.04	0.45
73:O7:48:ASN:HA	73:O7:54:LYS:HZ1	2.28	0.45
24:D2:24:GLN:HA	24:D2:63:VAL:O	2.39	0.45
40:L3:257:PRO:HG2	40:L3:261:MET:HE1	1.98	0.45
36:1:256:G:H4'	71:O5:111:PHE:HZ	1.80	0.45
12:C0:32:HIS:HD2	12:C0:35:ILE:HB	1.80	0.45
27:D5:83:LEU:HD23	27:D5:83:LEU:HA	1.78	0.45
87:1:4055:OHX:N4	87:1:4163:OHX:N1	2.65	0.45
36:1:3321:C:H2'	36:1:3322:A:O4'	2.17	0.45
1:6:29:U:H2'	1:6:30:G:H8	1.80	0.45
36:1:2358:A:H2'	36:1:2359:C:O4'	2.16	0.45
50:M4:37:GLU:CG	50:M4:38:ILE:H	2.29	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:L7:113:SER:HA	44:L7:205:PHE:O	2.55	0.45
38:8:48:A:O2'	38:8:50:C:OP2	2.25	0.45
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.42	0.45
36:1:428:A:H2'	36:1:429:U:C6	2.51	0.45
76:Q0:106:ARG:HB2	76:Q0:106:ARG:HE	1.51	0.45
49:M3:188:ARG:NH1	49:M3:192:GLU:OE1	2.47	0.45
22:D0:36:ASN:HA	22:D0:39:SER:HB3	3.60	0.45
41:L4:118:LYS:HE2	36:5:694:C:OP2	106.87	0.45
60:N4:57:LYS:HE3	60:N4:57:LYS:HB2	1.54	0.45
42:L5:5:LYS:HE2	42:L5:5:LYS:HA	1.99	0.45
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.37	0.45
36:1:999:G:O2'	36:1:1000:C:H5'	2.16	0.45
36:5:1222:G:O6	87:5:4129:OHX:N1	2.50	0.45
36:1:539:C:H2'	36:1:540:U:C6	2.52	0.45
36:1:1481:A:H2'	36:1:1481:A:N3	2.31	0.45
8:S6:157:VAL:HG22	8:S6:173:PRO:HD2	1.98	0.45
36:5:2211:U:OP2	87:5:4222:OHX:N1	2.50	0.45
17:C5:68:PRO:O	87:C5:201:OHX:N5	6.58	0.45
36:1:1555:U:H5	36:1:1559:A:H61	1.63	0.45
36:1:1580:A:H5'	36:1:2522:G:C5	2.52	0.45
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.16	0.45
26:D4:20:ARG:HB3	26:D4:76:TYR:CD2	2.86	0.45
61:N5:115:ARG:NH1	61:N5:115:ARG:HG3	2.47	0.45
36:5:979:U:H4'	36:5:980:A:H5'	1.97	0.45
51:M5:10:LEU:HD13	51:M5:19:LEU:HD11	1.97	0.45
36:1:624:G:OP2	87:1:4132:OHX:N3	2.50	0.45
72:O6:55:ARG:O	72:O6:58:ILE:HD13	2.16	0.45
72:O6:86:LYS:HA	72:O6:86:LYS:HD3	2.24	0.45
1:2:329:G:H2'	1:2:330:G:C8	2.52	0.45
37:3:4:U:H2'	37:3:5:G:H8	1.78	0.45
36:5:2206:G:C2'	36:5:2207:A:H5'	2.46	0.45
36:5:2206:G:O2'	36:5:2207:A:H5'	2.16	0.45
48:M1:37:LEU:HD12	48:M1:67:VAL:HG23	1.97	0.45
1:6:1160:A:H2'	1:6:1161:C:H6	1.78	0.45
47:M0:216:TYR:CD2	47:M0:217:PHE:N	2.81	0.45
52:M6:54:TYR:CD2	52:M6:58:LEU:HD22	2.67	0.45
20:C8:41:ARG:NH2	21:C9:36:ILE:O	2.84	0.45
6:S4:77:ARG:HD2	6:S4:82:TYR:CE1	4.57	0.45
6:S4:187:ARG:NH2	1:6:753:A:H62	374.60	0.45
26:D4:47:VAL:HG22	26:D4:48:TYR:CD2	3.56	0.45
21:C9:22:LEU:HB3	21:C9:55:TYR:HD1	1.80	0.45
56:N0:166:LYS:O	56:N0:167:ARG:CB	2.64	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D4:105:ARG:O	26:D4:109:LYS:HG3	2.17	0.45
14:C2:75:VAL:O	14:C2:79:ALA:N	2.66	0.45
4:S2:205:ARG:NH2	1:6:7:G:N7	369.54	0.45
21:C9:139:THR:O	21:C9:142:GLU:HG3	5.25	0.45
19:C7:6:THR:OG1	19:C7:7:LYS:N	2.50	0.45
2:S0:178:ALA:HA	2:S0:181:VAL:HG22	2.18	0.45
36:1:1486:G:N7	87:1:4155:OHX:N2	2.64	0.45
41:L4:304:GLN:O	41:L4:305:ALA:HB3	2.16	0.45
77:Q1:2:ARG:HD2	1:6:1773:C:OP2	310.56	0.45
28:D6:12:LYS:O	28:D6:12:LYS:HG2	2.17	0.45
34:SR:245:PHE:O	34:SR:294:TRP:HD1	2.00	0.45
36:1:1853:U:H5''	36:1:1854:C:OP1	2.16	0.45
36:1:945:C:H2'	36:1:946:U:C6	2.52	0.45
43:L6:26:ARG:NH2	36:5:607:A:OP1	251.00	0.45
36:1:955:U:H2'	36:1:956:U:C6	2.52	0.45
8:S6:131:LYS:O	60:N4:83:THR:N	2.40	0.45
38:8:92:A:H2'	38:8:93:U:O4'	2.17	0.45
36:5:2816:G:C8	36:5:2869:U:H3'	2.52	0.45
1:2:1509:C:H2'	1:2:1510:U:O4'	2.17	0.45
37:3:87:G:O2'	56:N0:119:ARG:NH2	2.50	0.45
59:N3:135:VAL:HG11	60:N4:26:SER:HB3	1.99	0.45
49:M3:116:LEU:HD23	49:M3:116:LEU:HA	2.08	0.45
29:D7:15:GLU:OE1	29:D7:15:GLU:HA	2.44	0.45
44:L7:155:LYS:HB3	44:L7:155:LYS:HE2	1.68	0.45
36:5:1778:G:O2'	36:5:1780:G:OP2	2.30	0.45
49:M3:133:PRO:O	49:M3:135:ALA:N	3.45	0.45
79:Q3:20:SER:O	79:Q3:24:ARG:HB2	2.76	0.45
7:S5:73:THR:C	7:S5:75:GLY:H	2.55	0.45
8:S6:139:ASN:HA	8:S6:142:ARG:HB2	2.11	0.45
51:M5:186:GLY:O	51:M5:190:THR:HG23	2.17	0.45
1:2:1797:A:N1	28:D6:87:ARG:HD2	2.31	0.45
72:O6:30:LYS:C	72:O6:32:ALA:H	3.38	0.45
36:1:1072:G:H21	65:N9:50:THR:HB	1.80	0.45
41:L4:144:LYS:HG2	41:L4:145:ILE:H	5.88	0.45
34:SR:159:ASN:OD1	34:SR:163:ASP:HA	2.17	0.45
36:1:1899:G:N7	87:1:3929:OHX:N3	2.64	0.45
22:D0:70:THR:HG23	1:6:1280:C:O2'	389.63	0.45
1:2:329:G:H2'	1:2:330:G:H8	1.80	0.45
68:O2:33:ARG:HH22	36:5:1408:G:P	160.53	0.45
9:S7:39:ARG:HH22	55:M9:185:LEU:HD22	2.85	0.45
36:1:1426:C:H4'	41:L4:40:THR:HB	1.99	0.45
40:L3:21:ARG:HD3	40:L3:269:GLN:OE1	2.39	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1657:U:C4	87:2:2088:OHX:N4	2.85	0.45
8:S6:164:LYS:HB3	8:S6:167:LYS:O	2.63	0.45
1:6:1564:U:H2'	1:6:1565:C:C6	2.51	0.45
1:6:138:A:H62	1:6:266:A:N6	2.14	0.45
36:1:1631:C:OP2	63:N7:48:ARG:NH2	2.49	0.45
21:C9:40:SER:HB2	21:C9:96:ALA:HA	2.30	0.45
1:2:710:U:H2'	1:2:711:U:H5'	1.98	0.45
20:C8:87:ASN:OD1	20:C8:99:HIS:HA	2.34	0.45
45:L8:214:LEU:HA	45:L8:214:LEU:HD12	1.69	0.45
36:5:1817:G:O2'	36:5:1818:U:OP2	2.29	0.45
87:1:4084:OHX:N2	87:1:4154:OHX:N4	2.65	0.45
25:D3:79:ASN:CG	25:D3:81:LYS:HG3	2.37	0.45
19:C7:33:ARG:NH2	34:SR:109:ASP:OD1	2.50	0.45
87:5:4203:OHX:N2	87:8:224:OHX:N5	2.63	0.45
38:4:126:A:O2'	38:4:128:U:OP1	2.35	0.45
36:1:1947:G:H1	36:1:2101:C:H42	1.64	0.45
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.98	0.45
4:S2:88:LYS:HD3	4:S2:89:GLN:O	4.92	0.45
36:1:2357:A:H2'	36:1:2358:A:H8	1.81	0.45
69:O3:59:VAL:O	69:O3:61:GLY:N	2.63	0.45
13:C1:2:SER:HB2	13:C1:81:HIS:CD2	2.52	0.45
45:L8:159:PRO:HG3	51:M5:43:THR:O	4.35	0.45
1:2:843:U:H2'	1:2:844:A:C8	2.51	0.45
64:N8:35:ALA:HB2	36:5:39:A:H5''	167.87	0.45
1:2:1017:U:H2'	1:2:1018:U:C6	2.52	0.45
1:2:1480:G:H3'	1:2:1481:C:C6	2.52	0.45
25:D3:109:ARG:HD3	1:6:571:G:O2'	359.57	0.45
36:5:169:U:H4'	36:5:170:G:OP1	2.15	0.45
38:8:124:G:OP2	87:8:222:OHX:N2	2.50	0.45
1:6:1431:C:H1'	1:6:1437:U:O4	2.16	0.45
36:5:1719:G:H2'	36:5:1720:U:O4'	2.17	0.45
1:6:1628:U:H2'	1:6:1629:G:C8	2.51	0.45
42:L5:194:LEU:O	42:L5:197:SER:HB3	2.16	0.45
73:O7:60:GLY:O	87:O7:104:OHX:N6	2.50	0.45
54:M8:94:PHE:CZ	64:N8:119:PRO:HD3	2.77	0.45
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	2.23	0.45
1:6:282:C:H2'	1:6:283:U:O4'	2.16	0.45
54:M8:151:ARG:HD2	36:5:781:G:OP1	161.45	0.45
36:5:65:A:C4	36:5:110:G:N7	2.84	0.45
52:M6:106:GLU:HG2	52:M6:106:GLU:H	1.46	0.45
76:Q0:88:LYS:HB3	76:Q0:88:LYS:HE3	3.72	0.45
11:S9:6:ARG:HB2	11:S9:6:ARG:HH11	2.86	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:L6:18:LEU:N	43:L6:18:LEU:HD22	2.31	0.45
65:N9:58:LYS:HA	65:N9:58:LYS:HD2	1.51	0.45
25:D3:133:LEU:HA	25:D3:133:LEU:HD22	2.12	0.45
36:5:328:U:O4	87:5:4023:OHX:N1	2.50	0.45
7:S5:73:THR:HG23	18:C6:114:ARG:CG	2.46	0.45
36:1:2939:G:OP2	40:L3:2:SER:O	2.34	0.45
36:5:1238:C:HO2'	36:5:1239:C:P	2.35	0.45
36:1:438:A:C5	36:1:439:C:C5	3.05	0.45
16:C4:84:ARG:HA	16:C4:119:THR:HG22	2.56	0.45
26:D4:12:VAL:HA	26:D4:23:PHE:HB3	2.62	0.45
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.98	0.45
67:O1:43:HIS:O	67:O1:44:MET:HE2	5.92	0.45
45:L8:107:GLU:O	45:L8:111:LYS:HG2	2.16	0.45
47:M0:36:LEU:HD11	47:M0:69:ARG:HD3	1.98	0.45
1:2:150:U:H2'	1:2:151:G:O4'	2.17	0.45
42:L5:95:TRP:CH2	42:L5:161:GLY:HA2	2.52	0.45
54:M8:178:ARG:HD3	54:M8:178:ARG:HA	1.55	0.45
1:6:1350:U:H2'	1:6:1351:G:H8	1.80	0.45
40:L3:250:ALA:HB1	36:5:2947:G:N3	219.11	0.45
61:N5:82:LEU:HD11	61:N5:135:ILE:HG21	1.98	0.45
36:1:1509:A:O2'	36:1:1510:G:H5'	2.17	0.45
36:5:2396:G:N2	36:5:2985:C:C2	2.84	0.45
28:D6:7:SER:HB2	28:D6:11:ASN:H	1.82	0.45
6:S4:95:THR:O	6:S4:97:GLU:HG3	2.16	0.45
36:5:1757:A:H2'	36:5:1758:G:C8	2.52	0.45
56:N0:84:ARG:HG3	36:5:1295:G:OP1	295.47	0.45
87:1:3975:OHX:N5	87:1:4155:OHX:N6	2.65	0.45
58:N2:100:THR:HA	36:5:1677:G:OP1	141.04	0.45
87:1:3959:OHX:N5	87:1:4140:OHX:N3	2.65	0.45
36:1:551:A:C4	36:1:552:G:C8	3.04	0.45
41:L4:304:GLN:O	41:L4:306:THR:N	2.95	0.45
36:1:655:C:H2'	36:1:656:A:H8	1.81	0.45
36:5:2775:U:H2'	36:5:2776:C:H6	1.82	0.45
53:M7:30:ARG:HA	53:M7:119:VAL:CG1	2.60	0.45
52:M6:119:VAL:HG23	56:N0:164:SER:HB3	1.99	0.45
36:1:2699:G:OP2	87:1:3905:OHX:N1	2.50	0.45
36:1:1734:G:N7	87:1:3913:OHX:N5	2.64	0.45
36:5:256:G:H2'	36:5:257:U:C6	2.52	0.45
15:C3:123:HIS:CE1	15:C3:141:TYR:HD2	2.34	0.45
7:S5:41:LYS:O	7:S5:67:PRO:HB2	2.16	0.45
36:5:29:C:H4'	36:5:62:A:H4'	1.97	0.45
31:D9:24:CYS:HB2	1:6:1434:U:H4'	410.97	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:S3:75:LYS:HB3	12:C0:22:VAL:HG22	2.34	0.45
25:D3:132:LEU:O	25:D3:136:TRP:N	2.74	0.45
36:1:2578:U:OP1	87:1:4148:OHX:N5	2.49	0.45
2:S0:126:PRO:HG2	2:S0:151:SER:HB3	2.10	0.45
36:5:748:U:H2'	36:5:749:C:C6	2.52	0.45
55:M9:130:ASN:O	55:M9:131:ALA:HB3	2.17	0.45
55:M9:10:LEU:HD12	55:M9:10:LEU:HA	1.81	0.45
1:6:1096:C:H6	1:6:1096:C:H2'	1.60	0.45
13:C1:17:PRO:HG3	13:C1:63:LEU:HD11	1.99	0.45
60:N4:63:ILE:HB	60:N4:64:THR:H	3.92	0.45
7:S5:37:GLN:CD	18:C6:53:LEU:HD22	2.51	0.45
41:L4:138:ARG:NH2	41:L4:240:PRO:HB2	2.34	0.45
45:L8:156:ASP:OD1	45:L8:183:LYS:HG2	2.52	0.45
16:C4:114:ARG:HA	28:D6:62:TYR:CZ	2.52	0.45
22:D0:96:PRO:HG2	22:D0:99:ILE:HD11	7.16	0.45
1:6:86:A:O2'	1:6:87:C:H5'	2.17	0.45
36:5:2207:A:H62	36:5:2236:G:H1	1.63	0.45
36:1:109:A:H4'	36:1:110:G:OP1	2.16	0.45
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.17	0.45
36:5:1013:G:H2'	36:5:1014:U:O4'	2.16	0.45
40:L3:173:GLN:O	40:L3:173:GLN:HG3	2.12	0.45
6:S4:246:LEU:HB3	6:S4:250:GLU:HB2	1.97	0.45
53:M7:92:GLN:HA	53:M7:95:LEU:HD12	1.98	0.45
15:C3:55:ARG:HD2	15:C3:56:ASP:OD1	4.55	0.45
40:L3:153:LYS:HD3	40:L3:154:TYR:CE2	2.52	0.45
53:M7:75:GLU:HG2	53:M7:76:PHE:CD2	2.98	0.45
55:M9:114:LYS:HB3	55:M9:114:LYS:HE2	1.68	0.45
20:C8:95:GLY:O	87:C8:201:OHX:N2	2.50	0.45
67:O1:85:ALA:O	67:O1:87:ASN:N	3.30	0.45
36:5:90:C:C2'	36:5:91:G:H5'	2.46	0.45
30:D8:22:ARG:HD2	1:6:1619:C:O2	343.00	0.45
44:L7:140:SER:O	44:L7:144:ILE:HG13	2.75	0.45
6:S4:124:GLY:HA2	6:S4:142:HIS:HE1	1.90	0.45
40:L3:258:ALA:O	40:L3:259:HIS:CD2	2.93	0.45
57:N1:9:SER:O	57:N1:55:LYS:HE3	2.17	0.45
1:2:297:U:OP1	6:S4:37:LYS:HD3	2.17	0.45
1:2:1558:U:O4	17:C5:122:THR:HG23	2.17	0.45
1:6:751:G:C2	1:6:752:A:C4	3.04	0.45
1:6:1309:C:H2'	1:6:1310:U:O4'	2.17	0.45
39:L2:69:TYR:OH	36:5:2557:A:OP1	191.84	0.45
38:4:37:A:H5''	38:4:39:G:O4'	2.16	0.45
34:SR:205:SER:HB3	34:SR:210:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1796:G:H5''	36:1:1797:A:OP1	2.17	0.45
1:2:224:C:H2'	1:2:225:A:C8	2.52	0.45
36:1:1095:U:N3	57:N1:127:GLN:HG2	2.32	0.45
36:5:374:A:N3	36:5:376:G:H5''	2.32	0.45
1:2:1147:A:H2'	1:2:1148:C:C6	2.52	0.45
5:S3:54:ARG:HD2	5:S3:57:ASP:OD1	3.69	0.45
1:6:43:A:H4'	1:6:99:C:OP1	2.17	0.45
67:O1:84:ASP:OD1	67:O1:84:ASP:N	2.67	0.45
52:M6:138:LEU:HA	52:M6:138:LEU:HD12	1.57	0.45
44:L7:98:LYS:HE2	44:L7:98:LYS:HB2	3.27	0.45
1:2:425:A:H5'	1:2:425:A:H8	1.80	0.45
7:S5:58:LEU:HD11	7:S5:167:ARG:HH12	2.61	0.45
52:M6:113:ASP:OD2	52:M6:113:ASP:N	2.50	0.45
64:N8:6:THR:CG2	64:N8:8:THR:HG23	2.40	0.45
7:S5:216:GLU:O	7:S5:220:VAL:HG23	2.58	0.45
2:S0:33:GLN:C	2:S0:34:GLU:HG2	2.37	0.45
11:S9:149:ARG:HG3	1:6:765:G:C6	431.70	0.45
36:1:2443:A:N6	36:1:2503:G:C2	2.85	0.45
7:S5:112:ARG:HD3	1:6:1529:C:OP1	374.18	0.45
1:2:1585:U:N3	1:2:1611:A:C2	2.77	0.45
45:L8:144:GLU:O	45:L8:173:MET:HE3	3.76	0.45
27:D5:88:ILE:O	27:D5:104:ALA:N	2.49	0.45
62:N6:39:LEU:HA	62:N6:42:GLN:HB2	1.97	0.45
36:1:2112:U:O2'	87:1:3958:OHX:N1	2.50	0.45
1:2:1370:U:H1'	1:2:1371:A:OP2	2.16	0.45
1:2:622:A:H4'	1:2:623:A:OP1	2.16	0.45
9:S7:131:PHE:O	9:S7:133:THR:N	2.49	0.45
36:1:1845:G:H5'	36:1:1846:C:H5'	1.98	0.45
7:S5:222:LYS:HG3	7:S5:225:ARG:NH2	2.32	0.45
3:S1:212:VAL:O	3:S1:214:LYS:N	2.48	0.45
36:1:2947:G:N3	40:L3:250:ALA:HB1	2.32	0.45
48:M1:152:HIS:ND1	37:7:55:A:O2'	330.37	0.45
21:C9:93:HIS:NE2	21:C9:95:ASP:OD1	3.27	0.45
24:D2:14:ILE:HA	24:D2:25:VAL:HG21	1.98	0.45
51:M5:143:ARG:HH21	71:O5:92:LEU:HD23	1.81	0.45
42:L5:211:LEU:HA	42:L5:211:LEU:HD23	1.84	0.45
36:5:1192:C:C5	87:5:4091:OHX:N4	2.84	0.45
61:N5:92:LYS:HD2	61:N5:112:THR:HG23	1.99	0.45
6:S4:64:ILE:HG12	26:D4:18:LEU:HG	1.99	0.45
36:1:1878:G:C3'	36:1:1879:A:H5'	2.47	0.45
36:1:709:A:O2'	64:N8:57:GLY:HA3	2.16	0.45
24:D2:24:GLN:HE22	29:D7:4:VAL:HA	4.10	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:L8:137:ASN:OD1	51:M5:3:ALA:N	2.41	0.45
1:6:1255:G:O2'	1:6:1256:A:H8	2.00	0.45
2:S0:62:ARG:HG3	2:S0:62:ARG:HH11	2.48	0.45
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.26	0.45
17:C5:52:LYS:HG3	17:C5:53:PRO:HD3	1.98	0.45
45:L8:94:PHE:HB3	45:L8:189:LEU:HD11	2.36	0.45
1:6:885:G:H2'	1:6:886:U:C6	2.52	0.45
72:O6:34:SER:OG	72:O6:37:THR:HG23	3.68	0.45
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.99	0.45
70:O4:65:VAL:HG12	70:O4:70:LYS:HE2	3.29	0.45
1:2:446:A:N6	1:2:461:G:H21	2.15	0.45
29:D7:20:LYS:O	29:D7:20:LYS:HG2	2.17	0.45
38:4:73:U:OP1	62:N6:24:SER:OG	2.25	0.45
36:5:2871:G:H5''	36:5:2872:A:H5''	1.99	0.45
36:1:629:U:H2'	36:1:630:A:C8	2.52	0.45
36:5:3175:U:H3	36:5:3277:U:H3	1.64	0.45
1:2:114:C:H5'	1:2:114:C:H6	1.81	0.45
36:1:841:A:OP2	87:1:4175:OHX:N2	2.50	0.45
6:S4:32:SER:HB2	6:S4:83:PRO:HD3	1.99	0.45
1:2:287:G:O2'	1:2:288:A:OP2	2.31	0.45
7:S5:94:THR:CB	7:S5:114:ILE:HG13	2.45	0.45
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.51	0.45
1:2:701:U:H3	1:2:737:A:N6	2.15	0.45
36:5:284:A:H4'	36:5:285:A:C2	2.52	0.45
41:L4:182:LEU:HD11	41:L4:223:PRO:HG2	2.82	0.45
56:N0:23:LYS:HD2	56:N0:25:PHE:CZ	2.52	0.45
2:S0:124:THR:HB	2:S0:174:TRP:HE1	2.84	0.45
1:2:538:A:C8	1:2:543:C:C4	3.05	0.45
36:1:357:A:OP2	87:O9:101:OHX:N4	2.50	0.45
6:S4:36:HIS:CG	6:S4:85:GLY:HA3	2.51	0.45
2:S0:76:ILE:HD11	2:S0:98:ILE:HD12	2.89	0.45
63:N7:26:VAL:HG22	63:N7:42:LEU:O	2.41	0.45
36:5:2169:G:O6	87:5:3955:OHX:N5	2.50	0.45
1:2:1445:G:C5	33:E1:91:ILE:HB	2.52	0.45
62:N6:39:LEU:HD13	62:N6:43:TYR:HE2	2.20	0.45
36:5:2568:C:N4	36:5:2574:G:C6	2.85	0.45
36:5:200:C:H5'	36:5:221:A:C2	2.52	0.45
10:S8:58:LEU:HD11	1:6:1676:U:H5''	270.98	0.45
36:5:3347:A:H61	36:5:3358:U:H3	1.65	0.45
19:C7:85:VAL:HG12	19:C7:87:GLU:H	1.82	0.45
13:C1:6:THR:CB	13:C1:9:SER:HB3	2.47	0.45
1:2:1359:C:OP1	21:C9:130:ARG:NH1	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
71:O5:90:ARG:NH1	36:5:20:A:OP2	86.45	0.45
54:M8:64:VAL:HG22	54:M8:96:PHE:CZ	2.52	0.45
6:S4:191:ARG:HD3	6:S4:245:LYS:HB2	1.98	0.45
36:5:549:U:H2'	36:5:550:A:H8	1.81	0.45
5:S3:117:ARG:HE	35:SM:126:ASP:CB	6.02	0.45
13:C1:72:THR:HA	13:C1:123:VAL:O	2.17	0.45
70:O4:42:PRO:HB2	70:O4:51:LEU:CD2	2.47	0.45
36:5:2404:A:H2'	36:5:2405:C:O5'	2.16	0.45
1:2:570:A:H5''	1:2:571:G:OP2	2.17	0.45
28:D6:17:HIS:ND1	28:D6:18:VAL:O	2.50	0.45
1:2:611:U:OP1	25:D3:19:ARG:NH2	2.49	0.45
58:N2:21:SER:HA	58:N2:24:GLU:OE2	2.17	0.45
36:1:2539:C:H5'	36:1:2541:U:O4	2.17	0.45
36:1:243:G:H2'	36:1:244:G:O4'	2.17	0.45
36:1:3200:G:O6	87:1:4128:OHX:N4	2.50	0.45
36:1:2747:A:H2'	36:1:2748:A:C8	2.51	0.45
1:6:463:U:OP1	87:6:2205:OHX:N1	2.50	0.45
20:C8:80:LYS:HD2	20:C8:80:LYS:HA	1.66	0.45
53:M7:180:LYS:HB3	53:M7:180:LYS:NZ	2.32	0.45
25:D3:28:ASN:N	25:D3:28:ASN:OD1	2.45	0.45
2:S0:27:ARG:HH11	2:S0:27:ARG:HB2	1.81	0.45
45:L8:231:LYS:HB2	45:L8:231:LYS:HE3	4.28	0.45
63:N7:81:LEU:HA	63:N7:81:LEU:HD22	2.05	0.45
36:1:1482:A:H4'	36:1:1483:G:OP2	2.17	0.45
13:C1:67:ARG:O	13:C1:127:GLN:HB3	2.42	0.45
10:S8:76:THR:HB	10:S8:105:ASP:HB2	1.99	0.44
72:O6:30:LYS:O	72:O6:32:ALA:N	4.08	0.44
1:2:741:C:O2'	1:2:742:U:H6	2.00	0.44
36:1:283:G:OP2	36:1:285:A:H4'	2.17	0.44
61:N5:115:ARG:HH11	61:N5:115:ARG:CG	2.41	0.44
9:S7:98:ILE:HD13	9:S7:118:LEU:HD23	1.98	0.44
21:C9:84:LYS:HD2	21:C9:86:ARG:HG2	1.98	0.44
21:C9:86:ARG:HG3	21:C9:86:ARG:HH11	1.82	0.44
87:2:2095:OHX:N4	87:2:2115:OHX:N6	2.65	0.44
31:D9:30:LEU:HA	31:D9:39:CYS:HA	2.23	0.44
36:5:1556:C:C4	36:5:2169:G:C4	3.05	0.44
3:S1:21:VAL:HG23	3:S1:22:ASP:H	2.04	0.44
36:1:108:A:O2'	36:1:109:A:H2'	2.17	0.44
57:N1:96:ILE:HA	57:N1:96:ILE:HD13	3.03	0.44
3:S1:164:ILE:O	3:S1:168:ILE:HG13	2.49	0.44
40:L3:117:ARG:CZ	40:L3:175:LYS:HD3	2.48	0.44
48:M1:54:VAL:HG13	48:M1:59:ILE:HD11	5.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2822:U:H2'	36:5:2823:G:O4'	2.17	0.44
5:S3:66:ILE:O	5:S3:70:THR:HG23	4.01	0.44
20:C8:136:GLN:H	20:C8:136:GLN:HG2	1.79	0.44
40:L3:153:LYS:HE2	40:L3:154:TYR:CZ	3.56	0.44
36:5:238:A:H2'	36:5:239:G:O4'	2.17	0.44
42:L5:184:ASP:HB3	42:L5:187:THR:HG23	1.99	0.44
36:1:250:U:H5''	36:1:251:G:H5''	1.98	0.44
59:N3:39:VAL:HG21	59:N3:51:ALA:C	2.38	0.44
33:E1:135:HIS:HB3	1:6:1250:U:O2'	432.79	0.44
51:M5:135:VAL:CG1	51:M5:142:ILE:HG12	2.46	0.44
14:C2:67:THR:HB	1:6:1228:G:N7	460.20	0.44
8:S6:26:VAL:HG21	8:S6:40:ALA:HB1	1.99	0.44
55:M9:99:LEU:O	55:M9:103:ARG:HB2	2.16	0.44
87:5:4035:OHX:N5	87:5:4118:OHX:N3	2.65	0.44
1:6:760:A:H2'	1:6:761:G:O4'	2.17	0.44
1:2:181:A:H2'	1:2:182:A:C8	2.52	0.44
37:3:13:A:O4'	37:3:112:G:C8	2.70	0.44
49:M3:28:GLN:HB3	51:M5:201:ARG:HD3	2.78	0.44
42:L5:261:THR:O	42:L5:264:GLN:N	2.97	0.44
1:2:380:U:H5	11:S9:5:PRO:HA	1.82	0.44
1:2:186:C:H5'	10:S8:142:LYS:NZ	2.32	0.44
53:M7:30:ARG:C	53:M7:30:ARG:HD3	2.40	0.44
28:D6:18:VAL:HG21	28:D6:33:ASP:OD1	2.17	0.44
36:1:185:C:H2'	36:1:186:U:H6	1.81	0.44
62:N6:57:LEU:HD22	62:N6:58:VAL:N	2.79	0.44
2:S0:55:GLU:OE2	23:D1:80:LYS:N	2.34	0.44
11:S9:7:THR:HG21	1:6:758:U:OP1	383.49	0.44
36:1:1049:C:H2'	36:1:1050:U:H6	1.82	0.44
8:S6:77:LEU:HD12	8:S6:95:LYS:HB2	3.19	0.44
1:2:1039:A:O2'	1:2:1040:G:P	2.75	0.44
1:6:1714:A:H2'	1:6:1715:G:O4'	2.16	0.44
38:4:108:C:H2'	38:4:109:A:O4'	2.16	0.44
48:M1:63:GLU:O	48:M1:64:LYS:HB2	2.17	0.44
36:1:103:G:OP1	49:M3:70:ARG:NH2	2.50	0.44
36:1:1534:A:OP1	87:1:3874:OHX:N2	2.50	0.44
40:L3:123:TYR:CE2	40:L3:124:LYS:HG3	2.52	0.44
36:1:1573:G:H2'	36:1:1573:G:N3	2.32	0.44
34:SR:117:LYS:H	34:SR:117:LYS:HE2	1.80	0.44
36:5:1867:A:H2'	36:5:1868:G:C8	2.52	0.44
36:5:208:C:H2'	36:5:209:A:O4'	2.17	0.44
23:D1:69:LEU:HD23	23:D1:69:LEU:HA	2.20	0.44
50:M4:84:LYS:O	50:M4:87:ALA:HB3	2.16	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
59:N3:129:VAL:O	59:N3:133:SER:OG	2.35	0.44
7:S5:73:THR:HG22	7:S5:74:ALA:N	3.10	0.44
11:S9:40:LYS:HA	11:S9:43:TYR:HB2	1.99	0.44
40:L3:2:SER:HB3	36:5:2943:G:O5'	236.34	0.44
36:1:1212:A:H2'	36:1:1213:G:H5''	2.00	0.44
1:6:894:U:H2'	1:6:895:G:C8	2.52	0.44
50:M4:115:PHE:O	50:M4:119:GLN:HG3	2.18	0.44
1:2:191:C:O2'	1:2:192:U:O5'	2.30	0.44
26:D4:14:SER:HA	26:D4:21:LYS:HG3	1.98	0.44
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	1.99	0.44
63:N7:46:ILE:HD11	63:N7:49:TYR:CA	2.65	0.44
87:2:2095:OHX:N3	87:2:2115:OHX:N5	2.65	0.44
41:L4:166:VAL:HG12	41:L4:170:LYS:HD3	2.00	0.44
8:S6:167:LYS:HD3	8:S6:169:TYR:CE2	2.52	0.44
1:2:830:U:H2'	1:2:830:U:O2	2.16	0.44
36:1:432:G:OP1	69:O3:65:ARG:NH2	2.46	0.44
13:C1:54:ILE:HD13	13:C1:54:ILE:HA	3.09	0.44
16:C4:29:HIS:CD2	16:C4:41:ARG:HB2	4.55	0.44
48:M1:10:ARG:HB2	48:M1:133:ARG:HD3	2.55	0.44
1:2:1524:A:H2'	1:2:1525:A:C8	2.53	0.44
70:O4:81:CYS:SG	70:O4:84:CYS:SG	3.22	0.44
2:S0:148:ASP:OD1	2:S0:149:LEU:N	2.44	0.44
56:N0:84:ARG:HD3	37:7:89:G:H4'	287.06	0.44
7:S5:182:ALA:O	7:S5:186:ASN:ND2	2.50	0.44
36:1:3295:A:OP2	40:L3:126:LYS:N	2.30	0.44
49:M3:46:ILE:HA	49:M3:46:ILE:HD13	2.33	0.44
36:1:1807:G:C6	36:1:1808:G:N1	2.86	0.44
87:5:4203:OHX:N2	87:8:224:OHX:N1	2.64	0.44
54:M8:184:PHE:CD1	36:5:2730:G:H4'	191.20	0.44
37:3:112:G:H2'	37:3:113:C:C6	2.52	0.44
36:1:736:A:H2'	36:1:737:G:O4'	2.17	0.44
2:S0:172:LEU:HD22	2:S0:176:LEU:HG	2.16	0.44
87:2:2074:OHX:N3	87:2:2161:OHX:N5	2.65	0.44
24:D2:55:ASP:C	24:D2:57:ARG:H	2.19	0.44
36:1:2892:A:H2'	36:1:2893:C:C6	2.52	0.44
28:D6:24:VAL:HG11	28:D6:71:LEU:HD12	1.99	0.44
36:5:2927:C:H2'	36:5:2928:C:C6	2.52	0.44
36:1:90:C:H2'	36:1:91:G:H5'	1.98	0.44
49:M3:158:ALA:O	64:N8:124:ILE:HD11	2.99	0.44
36:1:1717:U:H2'	36:1:1718:G:C8	2.52	0.44
40:L3:320:ASP:N	40:L3:320:ASP:OD1	3.64	0.44
36:1:197:G:H2'	36:1:198:A:C8	2.51	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:C9:77:ASN:OD1	21:C9:101:ASN:ND2	2.48	0.44
45:L8:167:PRO:HB3	45:L8:177:TYR:CE1	3.11	0.44
36:1:1838:G:H4'	36:1:1839:A:N3	2.32	0.44
2:S0:25:GLY:HA2	2:S0:48:ILE:HD11	2.00	0.44
1:6:386:G:H2'	1:6:387:A:C8	2.52	0.44
33:E1:119:ARG:O	33:E1:132:LEU:N	2.77	0.44
11:S9:38:ASN:HB2	11:S9:41:GLU:HG3	1.99	0.44
28:D6:6:ALA:H	1:6:1796:C:H5	345.17	0.44
36:1:1262:G:C6	36:1:1278:A:N6	2.85	0.44
40:L3:5:LYS:HG3	40:L3:6:TYR:CD1	2.52	0.44
1:2:1482:C:OP2	1:2:1521:G:N2	2.49	0.44
41:L4:271:LYS:HB2	41:L4:274:TYR:CB	2.79	0.44
45:L8:129:PRO:HB3	36:5:121:A:C2	101.34	0.44
11:S9:162:SER:HA	11:S9:163:PRO:HD2	2.47	0.44
42:L5:74:VAL:HG23	42:L5:76:ALA:H	6.04	0.44
40:L3:221:THR:HG22	40:L3:272:TYR:H	1.83	0.44
1:6:831:U:H2'	1:6:831:U:OP2	2.18	0.44
27:D5:49:ARG:NH1	27:D5:69:LEU:HA	7.85	0.44
42:L5:107:ARG:HA	42:L5:107:ARG:HE	1.83	0.44
39:L2:187:HIS:ND1	39:L2:190:ARG:NH1	3.88	0.44
47:M0:216:TYR:CG	47:M0:217:PHE:N	2.85	0.44
26:D4:47:VAL:O	26:D4:49:LYS:NZ	2.26	0.44
1:2:511:A:N6	1:2:539:G:O6	2.48	0.44
5:S3:58:VAL:O	5:S3:66:ILE:HG12	2.17	0.44
36:1:2616:C:C2'	36:1:2617:U:H5'	2.48	0.44
18:C6:66:ARG:NH1	1:6:1351:G:OP1	434.27	0.44
17:C5:14:THR:HB	17:C5:22:LEU:HB2	1.99	0.44
87:1:4003:OHX:N4	87:1:4172:OHX:N1	2.65	0.44
19:C7:66:VAL:HB	19:C7:69:ILE:HD11	2.00	0.44
36:1:2378:C:H2'	36:1:2379:U:H6	1.80	0.44
71:O5:95:PHE:N	36:5:135:C:O2'	57.62	0.44
39:L2:96:LEU:HD13	79:Q3:83:ILE:HG23	1.99	0.44
10:S8:21:PHE:O	10:S8:22:ARG:HG2	2.18	0.44
36:1:1878:G:C2'	36:1:1879:A:H5'	2.47	0.44
52:M6:114:LYS:HG2	36:5:3180:A:C6	274.21	0.44
1:6:626:U:H2'	1:6:627:C:H6	1.82	0.44
41:L4:205:PRO:HG2	41:L4:225:VAL:HG22	2.43	0.44
1:6:1166:A:O2'	1:6:1587:A:H4'	2.17	0.44
36:1:2136:C:H2'	36:1:2142:A:N6	2.32	0.44
36:1:2405:C:O2	36:1:2819:A:N1	2.51	0.44
26:D4:86:GLU:OE1	26:D4:90:ARG:HD2	2.48	0.44
60:N4:6:ASP:HB3	60:N4:10:GLY:H	1.82	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:65:A:H2'	36:5:110:G:N7	2.33	0.44
36:1:1094:U:O2'	36:1:1095:U:O5'	2.31	0.44
36:5:2298:U:O4	36:5:2923:U:H5	2.00	0.44
36:1:2163:C:H4'	39:L2:7:ASN:O	2.17	0.44
36:5:1622:U:H2'	36:5:1623:G:H8	1.82	0.44
3:S1:31:ASP:HA	3:S1:45:LYS:HA	2.00	0.44
69:O3:12:LYS:NZ	69:O3:95:GLY:O	2.42	0.44
39:L2:73:GLU:HG3	39:L2:74:GLU:N	2.32	0.44
36:1:2191:U:H2'	36:1:2192:C:O4'	2.17	0.44
36:1:2759:U:H5''	36:1:2760:C:H5'	1.98	0.44
41:L4:209:TYR:O	41:L4:230:VAL:HG22	2.50	0.44
11:S9:30:LEU:HD23	11:S9:30:LEU:HA	2.01	0.44
41:L4:346:LYS:H	41:L4:346:LYS:HG2	1.61	0.44
7:S5:97:LEU:HA	7:S5:97:LEU:HD23	2.09	0.44
42:L5:229:ASP:HB2	42:L5:231:ILE:HG12	4.78	0.44
55:M9:25:ASP:HA	55:M9:26:PRO:HD2	2.06	0.44
1:2:609:U:H4'	1:2:610:G:O5'	2.17	0.44
47:M0:76:MET:HE1	47:M0:148:VAL:HG22	2.76	0.44
1:2:1542:G:H22	1:2:1568:C:H1'	1.82	0.44
36:1:2860:U:H6	36:1:2860:U:C5'	2.22	0.44
25:D3:73:ARG:NH2	25:D3:84:THR:HG22	2.25	0.44
16:C4:81:VAL:HG22	16:C4:115:ILE:HG23	3.53	0.44
36:1:2115:G:H22	36:1:2120:A:H1'	1.83	0.44
56:N0:171:PHE:O	56:N0:172:TYR:C	4.23	0.44
39:L2:188:LYS:HD3	39:L2:192:LYS:HD2	5.02	0.44
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.99	0.44
17:C5:128:HIS:HA	1:6:1180:C:O2'	335.47	0.44
3:S1:88:VAL:HG21	3:S1:96:LEU:HD21	1.98	0.44
40:L3:332:ARG:NH1	40:L3:332:ARG:HG2	2.31	0.44
2:S0:167:LYS:HB3	2:S0:168:HIS:H	1.39	0.44
36:1:594:U:H2'	36:1:609:G:O6	2.18	0.44
7:S5:172:ILE:O	7:S5:176:THR:HG23	2.18	0.44
52:M6:8:VAL:HG12	52:M6:117:ARG:HB3	2.00	0.44
5:S3:58:VAL:O	5:S3:60:GLY:N	3.57	0.44
20:C8:91:ASP:HB3	20:C8:95:GLY:H	1.95	0.44
1:2:1181:U:H2'	1:2:1182:U:O4'	2.17	0.44
1:6:470:A:H5''	1:6:470:A:C8	2.51	0.44
36:1:1109:U:H2'	36:1:1110:U:C6	2.51	0.44
12:C0:76:LEU:H	12:C0:76:LEU:HD22	1.82	0.44
46:L9:188:THR:O	46:L9:188:THR:OG1	2.31	0.44
36:5:1530:U:OP1	87:5:3992:OHX:N1	2.51	0.44
59:N3:125:LEU:HB3	59:N3:126:TRP:CD1	3.23	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:82:U:H2'	1:2:83:G:O4'	2.18	0.44
36:5:2733:A:H2'	36:5:2734:A:O4'	2.18	0.44
69:O3:45:LEU:HA	69:O3:71:VAL:HG12	2.16	0.44
1:6:481:A:C2	1:6:508:U:C2	3.06	0.44
45:L8:122:LYS:C	45:L8:124:ASP:H	3.00	0.44
1:6:1152:A:O2'	1:6:1153:G:H5'	2.17	0.44
36:5:627:U:H2'	36:5:628:A:C8	2.52	0.44
36:5:1176:C:H2'	36:5:1177:G:N2	2.32	0.44
36:5:718:G:N7	36:5:721:G:H1'	2.32	0.44
1:6:800:U:H2'	1:6:801:G:H8	1.82	0.44
1:2:1316:G:H2'	1:2:1317:C:C6	2.53	0.44
36:5:2317:A:OP2	87:5:4187:OHX:N6	2.50	0.44
1:6:1274:C:H4'	1:6:1275:A:O5'	2.17	0.44
20:C8:8:GLN:HB3	20:C8:9:GLY:H	3.14	0.44
43:L6:45:GLY:O	43:L6:48:ARG:NH1	4.76	0.44
9:S7:166:LEU:HA	9:S7:166:LEU:HD12	1.75	0.44
1:6:811:A:C4	1:6:858:G:H1'	2.53	0.44
1:2:29:U:H2'	1:2:30:G:C8	2.52	0.44
23:D1:2:GLU:HG2	23:D1:6:GLY:HA2	3.97	0.44
18:C6:116:LEU:HA	18:C6:116:LEU:HD23	3.99	0.44
18:C6:45:ARG:HD3	18:C6:49:TYR:OH	2.18	0.44
36:1:1940:G:H2'	36:1:1941:C:O4'	2.18	0.44
36:1:980:A:H2'	36:1:981:U:C1'	2.47	0.44
11:S9:110:GLN:OE1	11:S9:126:ARG:HG2	2.58	0.44
1:2:1795:U:H3'	28:D6:5:ARG:HH12	1.83	0.44
71:O5:81:ARG:NH2	36:5:18:G:OP1	77.13	0.44
36:5:2799:A:H5''	36:5:2800:G:O5'	2.17	0.44
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.18	0.44
36:1:1580:A:H4'	36:1:1581:C:O5'	2.17	0.44
4:S2:218:ILE:H	4:S2:218:ILE:HG13	1.62	0.44
3:S1:193:ILE:HD13	3:S1:193:ILE:HA	2.81	0.44
59:N3:17:LEU:HD21	59:N3:98:ASN:ND2	2.31	0.44
16:C4:114:ARG:HE	28:D6:62:TYR:HE1	1.66	0.44
11:S9:159:ALA:O	11:S9:165:GLY:HA3	2.58	0.44
20:C8:72:ILE:HG12	20:C8:79:TYR:CG	2.52	0.44
36:5:2895:G:C2'	36:5:2896:A:H5''	2.45	0.44
36:5:3121:U:H1'	36:5:3122:A:H5''	1.99	0.44
46:L9:70:THR:HB	36:5:3112:G:O2'	330.10	0.44
3:S1:61:LEU:HD12	3:S1:64:ARG:HD2	7.53	0.44
35:SM:101:ASP:O	35:SM:102:THR:HB	2.18	0.44
40:L3:92:TYR:CE1	40:L3:159:ARG:HD2	2.53	0.44
52:M6:108:ILE:HG21	52:M6:108:ILE:HD13	2.16	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:M7:36:ILE:HG12	53:M7:44:ALA:HB1	2.00	0.44
49:M3:31:LYS:O	49:M3:35:ARG:HB2	2.18	0.44
36:1:1285:G:O2'	36:1:1286:A:OP2	2.32	0.44
55:M9:20:ARG:HG3	36:5:1875:G:OP2	138.26	0.44
55:M9:106:LEU:HB3	55:M9:120:TYR:CE1	2.53	0.44
40:L3:46:PHE:CZ	40:L3:205:VAL:HG13	3.67	0.44
7:S5:175:LEU:HD22	7:S5:198:LEU:HD23	1.98	0.44
36:5:1817:G:OP1	87:5:4180:OHX:N1	2.49	0.44
11:S9:91:LYS:O	11:S9:92:LYS:HG2	2.17	0.44
8:S6:22:HIS:CE1	8:S6:25:ARG:NH2	4.81	0.44
36:1:743:C:O2	54:M8:141:ARG:HD2	2.18	0.44
36:1:3136:G:OP2	87:1:4099:OHX:N6	2.50	0.44
87:2:2074:OHX:N3	87:2:2161:OHX:N1	2.64	0.44
87:2:2074:OHX:N4	87:2:2161:OHX:N2	2.66	0.44
1:6:961:U:H2'	1:6:962:C:H6	1.83	0.44
36:5:1514:G:C6	36:5:1841:A:C5	3.06	0.44
71:O5:102:GLU:O	71:O5:106:LYS:HG3	2.28	0.44
1:2:1492:A:HO2'	1:2:1493:A:H8	1.54	0.44
36:5:626:U:O4	87:5:3984:OHX:N4	2.50	0.44
1:2:620:A:O2'	1:2:621:A:H5'	2.18	0.44
2:S0:206:ASP:N	2:S0:207:PRO:HA	4.19	0.44
1:2:1261:G:H2'	1:2:1262:U:C6	2.53	0.44
40:L3:204:ALA:O	40:L3:207:SER:OG	2.30	0.44
44:L7:186:HIS:CE1	44:L7:190:THR:HG21	3.19	0.44
1:2:1332:C:O5'	1:2:1332:C:H6	2.00	0.44
36:1:3251:U:H2'	36:1:3252:G:C8	2.53	0.44
48:M1:91:LEU:HD12	48:M1:163:PHE:CZ	2.52	0.44
36:1:1481:A:OP1	36:1:1481:A:O4'	2.36	0.44
7:S5:29:ILE:HA	7:S5:30:PRO:HD3	1.81	0.44
75:O9:5:LYS:HD3	75:O9:13:MET:CE	2.46	0.44
64:N8:6:THR:HG23	64:N8:8:THR:H	1.82	0.44
36:1:1553:U:C4'	36:1:1554:U:H5'	2.47	0.44
78:Q2:45:ARG:NH2	36:5:283:G:OP1	147.68	0.44
36:1:1389:G:H5''	68:O2:101:SER:HB3	1.99	0.44
1:2:1760:G:HO2'	1:2:1781:A:H2	1.62	0.44
46:L9:7:GLU:HA	46:L9:68:LEU:HD11	2.35	0.44
6:S4:120:SER:O	6:S4:164:LEU:HB2	2.18	0.44
8:S6:141:ILE:HG21	8:S6:153:VAL:HG13	2.00	0.44
1:6:187:G:H4'	1:6:188:A:OP1	2.17	0.44
1:6:564:G:O6	87:6:2155:OHX:N5	2.51	0.44
27:D5:49:ARG:HD2	27:D5:53:GLU:OE1	3.77	0.44
48:M1:101:ASN:HB3	48:M1:130:VAL:HA	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
66:O0:34:LEU:HD12	66:O0:34:LEU:HA	1.81	0.44
18:C6:93:HIS:HA	18:C6:97:VAL:HG23	1.99	0.44
40:L3:49:TYR:O	40:L3:80:ASP:N	2.63	0.44
36:1:1597:C:H2'	36:1:1598:G:C8	2.52	0.44
30:D8:27:GLN:HE22	30:D8:64:ARG:HE	1.65	0.44
30:D8:22:ARG:NH1	1:6:1619:C:O2	340.33	0.44
73:O7:2:GLY:HA2	73:O7:6:PRO:HG2	2.00	0.44
36:1:1307:G:H5'	52:M6:60:LYS:NZ	2.33	0.44
36:5:2440:G:O2'	36:5:2441:A:OP1	2.34	0.44
36:1:900:G:H1'	36:1:1589:A:H61	1.81	0.44
1:2:1646:C:H2'	1:2:1647:U:H6	1.82	0.44
87:5:4035:OHX:N1	87:5:4118:OHX:N4	2.66	0.44
1:2:850:A:OP1	55:M9:162:ARG:HG2	2.17	0.44
4:S2:188:LEU:HA	4:S2:188:LEU:HD23	2.03	0.44
87:2:2074:OHX:N4	87:2:2161:OHX:N1	2.66	0.44
1:2:1316:G:H2'	1:2:1317:C:H6	1.82	0.44
36:5:1898:G:OP2	87:5:3946:OHX:N5	2.51	0.44
13:C1:94:ILE:HA	13:C1:95:PRO:HD3	1.82	0.44
4:S2:152:HIS:ND1	4:S2:174:ARG:HG3	2.33	0.44
36:1:2526:C:OP1	39:L2:38:HIS:HE1	2.01	0.44
11:S9:101:VAL:HG23	11:S9:102:GLU:OE2	4.39	0.44
29:D7:19:HIS:CE1	29:D7:21:LEU:H	3.03	0.44
36:1:2552:C:H5	66:O0:53:LYS:NZ	2.16	0.44
71:O5:94:LYS:O	71:O5:98:SER:HB2	4.20	0.44
47:M0:33:ILE:H	47:M0:33:ILE:HG12	1.62	0.44
45:L8:251:LYS:HB2	45:L8:251:LYS:NZ	2.32	0.44
43:L6:60:ASP:O	43:L6:61:ASN:HB2	2.18	0.44
13:C1:65:SER:HB3	1:6:114:C:O2	316.18	0.44
23:D1:81:ASN:O	23:D1:82:VAL:HB	2.17	0.44
79:Q3:73:THR:HB	79:Q3:76:ALA:CB	3.30	0.44
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.48	0.44
36:5:1369:A:H2'	36:5:1370:G:O4'	2.18	0.44
65:N9:50:THR:HG21	36:5:1072:G:H21	208.45	0.44
1:6:1432:U:H4'	1:6:1433:G:H5''	2.00	0.44
15:C3:117:LEU:HD23	15:C3:117:LEU:HA	2.15	0.44
11:S9:146:PHE:HZ	1:6:765:G:C2	431.04	0.44
2:S0:139:VAL:HG23	4:S2:62:PRO:HG3	2.55	0.44
36:1:2206:G:C2	36:1:2207:A:C8	3.05	0.44
22:D0:96:PRO:O	22:D0:100:VAL:HG23	2.19	0.44
28:D6:28:LYS:HG2	28:D6:29:SER:O	2.17	0.44
17:C5:127:ARG:O	17:C5:130:ARG:NH1	4.89	0.44
36:1:110:G:H5''	49:M3:91:ARG:HH21	1.82	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:N1:95:HIS:O	57:N1:96:ILE:HD12	2.18	0.44
1:2:1564:U:H2'	1:2:1565:C:H6	1.77	0.44
6:S4:195:ILE:HD13	6:S4:195:ILE:HG21	1.78	0.44
1:2:649:U:HO2'	1:2:650:U:P	2.38	0.44
52:M6:68:ARG:HH12	36:5:2988:C:P	216.18	0.44
36:1:346:C:OP1	41:L4:52:VAL:HG22	2.18	0.44
3:S1:104:ASP:HA	3:S1:214:LYS:HE2	1.98	0.44
36:1:2767:U:OP1	78:Q2:33:ALA:O	2.36	0.44
17:C5:85:ILE:HD11	17:C5:116:LEU:HD23	1.99	0.44
1:2:61:A:H8	1:2:269:G:O2'	2.01	0.44
17:C5:17:TYR:HB2	17:C5:25:LEU:HD11	2.00	0.44
36:1:249:U:H1'	36:1:250:U:C2	2.52	0.44
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.98	0.44
26:D4:42:GLU:O	26:D4:46:GLU:HG3	2.18	0.44
52:M6:102:LEU:HD12	52:M6:103:LYS:N	2.32	0.44
42:L5:11:ALA:O	42:L5:15:ARG:HG3	2.18	0.44
38:8:83:C:H4'	38:8:85:G:N2	2.32	0.44
24:D2:24:GLN:NE2	29:D7:3:LEU:O	5.42	0.44
1:6:992:A:H2'	1:6:993:A:H5'	2.00	0.44
43:L6:148:GLU:OE1	43:L6:151:LYS:HE3	3.61	0.44
33:E1:108:VAL:HG12	33:E1:114:VAL:HG22	4.39	0.44
23:D1:40:ASP:HB3	23:D1:46:ILE:HD11	1.99	0.44
62:N6:5:SER:HB3	62:N6:8:VAL:HG12	2.00	0.44
76:Q0:127:LEU:HA	76:Q0:127:LEU:HD23	1.74	0.44
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.33	0.44
79:Q3:27:LYS:O	79:Q3:31:ILE:HG13	2.18	0.44
4:S2:163:GLY:O	4:S2:164:SER:HB3	4.20	0.44
6:S4:161:LYS:HB3	6:S4:170:THR:O	4.37	0.44
71:O5:14:LYS:HB3	71:O5:15:GLU:OE2	7.76	0.44
1:2:404:G:H2'	1:2:405:C:C6	2.52	0.44
36:5:2942:C:O2	87:5:4055:OHX:N6	2.51	0.44
10:S8:81:VAL:HB	10:S8:94:ASN:OD1	2.18	0.44
36:5:1317:A:OP1	87:5:4097:OHX:N1	2.51	0.44
1:6:1017:U:H2'	1:6:1018:U:C6	2.53	0.44
40:L3:87:VAL:HB	40:L3:110:LEU:HD11	1.99	0.44
42:L5:49:TYR:CD1	42:L5:66:SER:HB3	2.53	0.44
37:3:97:A:H2'	37:3:98:C:C6	2.52	0.44
36:1:2659:G:H4'	36:1:2751:G:O2'	2.18	0.44
36:1:1525:G:N3	36:1:1525:G:H2'	2.32	0.44
67:O1:42:LEU:O	67:O1:42:LEU:HG	2.17	0.44
45:L8:149:LYS:O	45:L8:176:PRO:HG2	2.18	0.44
87:6:2068:OHX:N3	87:6:2076:OHX:N5	2.66	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1338:C:H1'	1:2:1410:A:C4	2.52	0.44
1:2:1409:G:N2	1:2:1411:A:H3'	2.32	0.44
87:1:3957:OHX:N4	44:L7:217:PRO:HA	2.32	0.44
51:M5:183:THR:O	51:M5:184:LYS:HB2	2.18	0.44
47:M0:38:LYS:HG2	47:M0:41:ALA:HB2	2.38	0.44
11:S9:3:ARG:CD	11:S9:3:ARG:H	3.32	0.44
54:M8:26:LEU:O	54:M8:30:VAL:HG23	2.17	0.44
59:N3:82:ALA:O	59:N3:94:TYR:HB2	2.17	0.44
2:S0:185:ARG:HB3	2:S0:186:GLY:H	4.40	0.44
21:C9:117:SER:HB2	21:C9:123:ARG:HB3	2.89	0.44
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.18	0.44
19:C7:13:SER:CB	19:C7:54:THR:HG22	2.61	0.44
34:SR:36:ALA:HB2	34:SR:71:CYS:HB3	2.00	0.44
36:1:2339:C:OP2	59:N3:48:ARG:HG2	2.17	0.44
8:S6:132:ARG:HD2	1:6:150:U:C1'	327.95	0.44
48:M1:65:ILE:HG21	48:M1:65:ILE:HD13	1.79	0.44
29:D7:49:HIS:HD2	1:6:958:U:H5'	342.66	0.44
61:N5:80:ASN:ND2	61:N5:126:LEU:HB2	2.32	0.44
11:S9:2:PRO:HA	1:6:381:C:OP1	360.95	0.44
46:L9:90:MET:HB2	46:L9:144:ILE:HG22	2.02	0.44
36:1:2510:U:O2'	36:1:2511:A:P	2.76	0.44
1:2:495:C:H3'	1:2:496:G:O4'	2.17	0.44
1:2:1477:G:H2'	1:2:1478:G:H8	1.81	0.44
32:E0:48:THR:OG1	32:E0:49:LEU:HD22	4.64	0.44
51:M5:12:ARG:HG3	36:5:268:A:C4	127.69	0.44
54:M8:150:VAL:HA	54:M8:153:PHE:CD1	2.53	0.44
9:S7:47:ARG:HG3	9:S7:61:PHE:HE2	2.55	0.44
23:D1:58:TYR:OH	24:D2:20:THR:HA	2.38	0.44
39:L2:104:LEU:HB3	39:L2:146:THR:HG21	1.99	0.44
1:2:1560:U:C4	1:2:1561:U:C4	3.06	0.44
57:N1:105:PHE:CE2	36:5:1062:A:H4'	245.18	0.44
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.82	0.44
1:2:843:U:H2'	1:2:844:A:H8	1.82	0.44
13:C1:96:LYS:HD3	13:C1:97:TYR:CZ	4.52	0.44
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.65	0.44
47:M0:42:THR:HG23	47:M0:45:GLU:HB2	2.00	0.44
36:1:873:C:H5''	36:1:874:U:O5'	2.17	0.44
5:S3:69:LEU:HD12	5:S3:69:LEU:HA	4.58	0.44
26:D4:112:LYS:O	26:D4:116:LYS:HG3	2.17	0.44
87:5:4094:OHX:N5	87:5:4235:OHX:N6	2.66	0.44
36:1:590:G:C2	36:1:610:G:H2'	2.53	0.44
36:5:2599:U:H2'	36:5:2600:C:C6	2.53	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:422:G:OP1	87:2:2041:OHX:N6	2.50	0.44
36:5:3159:C:H2'	36:5:3160:U:C6	2.52	0.44
49:M3:109:PHE:O	49:M3:113:VAL:HG23	2.19	0.44
36:1:3022:G:O2'	87:1:4073:OHX:N2	2.50	0.44
58:N2:38:ILE:HG13	58:N2:56:VAL:HB	2.81	0.44
32:E0:36:LYS:HD3	32:E0:36:LYS:HA	1.61	0.44
40:L3:331:ASN:OD1	40:L3:331:ASN:N	2.53	0.44
36:1:3154:C:C2	36:1:3157:U:O4	2.71	0.44
1:6:681:U:H4'	1:6:682:C:OP1	2.16	0.44
1:6:604:A:OP2	87:6:2152:OHX:N4	2.51	0.44
1:2:142:G:C5	1:2:266:A:C6	3.05	0.44
1:2:142:G:H5''	8:S6:139:ASN:HD21	1.83	0.44
40:L3:37:ARG:CG	40:L3:186:GLY:HA2	3.94	0.44
53:M7:139:TYR:CE2	36:5:2355:G:H4'	147.87	0.44
1:2:990:C:O2'	16:C4:127:ARG:HD3	2.18	0.44
46:L9:75:VAL:HG22	46:L9:78:MET:HE3	3.15	0.44
73:O7:88:ALA:O	87:O7:103:OHX:N4	2.51	0.44
40:L3:4:ARG:O	40:L3:5:LYS:CB	2.66	0.44
72:O6:98:ARG:HB3	72:O6:99:ARG:H	4.43	0.44
76:Q0:78:ILE:HG21	76:Q0:78:ILE:HD13	2.82	0.44
1:2:542:A:H2'	1:2:543:C:H3'	1.99	0.44
27:D5:57:TYR:OH	27:D5:68:ARG:HG3	2.18	0.44
43:L6:129:GLU:HG2	43:L6:130:ILE:H	3.20	0.44
20:C8:42:TYR:HE2	20:C8:73:MET:HG3	2.76	0.44
34:SR:238:ASP:OD1	34:SR:238:ASP:N	2.50	0.44
11:S9:116:LEU:O	11:S9:118:LEU:HD12	3.65	0.44
1:6:193:U:C4	1:6:195:G:C8	3.06	0.44
1:2:14:C:OP2	4:S2:206:THR:HG21	2.17	0.44
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.18	0.44
52:M6:8:VAL:HA	52:M6:34:VAL:O	2.18	0.44
30:D8:44:VAL:HG11	30:D8:48:VAL:HG21	2.48	0.44
36:1:3174:A:C6	36:1:3175:U:C4	3.06	0.44
29:D7:47:PHE:HD1	29:D7:49:HIS:O	2.00	0.44
44:L7:43:ILE:O	44:L7:47:ARG:HG3	2.33	0.44
34:SR:132:LYS:HA	34:SR:142:ALA:O	2.39	0.44
5:S3:222:VAL:HG23	34:SR:191:ASP:O	2.56	0.44
1:6:826:U:H2'	1:6:827:C:C6	2.53	0.44
41:L4:8:VAL:HB	41:L4:16:THR:HG21	3.10	0.44
42:L5:85:ARG:NH1	42:L5:254:LYS:H	3.03	0.44
36:1:112:U:H2'	36:1:112:U:H6	1.53	0.44
36:1:582:G:O6	87:1:4172:OHX:N2	2.50	0.44
39:L2:142:ASP:O	39:L2:143:GLU:HG3	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
71:O5:96:GLU:H	71:O5:96:GLU:HG3	1.62	0.44
1:6:1451:C:H2'	1:6:1452:U:H6	1.80	0.44
1:6:661:A:N3	1:6:670:U:N3	2.66	0.44
36:1:1723:A:N1	36:1:1788:C:O2'	2.43	0.44
13:C1:72:THR:O	13:C1:88:ARG:HD2	3.34	0.44
36:1:551:A:O2'	36:1:552:G:O5'	2.30	0.44
16:C4:128:LYS:NZ	28:D6:27:SER:OG	2.48	0.44
26:D4:66:GLY:HA2	1:6:532:U:H4'	432.70	0.44
54:M8:165:ILE:HD12	54:M8:167:SER:O	4.62	0.44
36:5:209:A:H4'	36:5:211:A:C8	2.53	0.44
49:M3:144:THR:O	49:M3:146:PRO:HD3	2.97	0.44
40:L3:287:LYS:HE3	40:L3:289:ASP:OD1	3.70	0.44
49:M3:179:PHE:O	49:M3:183:ARG:HB2	2.75	0.44
49:M3:37:ASN:O	49:M3:41:THR:HG23	5.32	0.44
36:1:2582:C:H2'	36:1:2583:C:H6	1.83	0.44
7:S5:27:THR:HA	7:S5:28:PRO:HD2	2.54	0.44
5:S3:5:ILE:HG22	5:S3:6:SER:O	2.32	0.44
49:M3:55:ARG:O	49:M3:115:ARG:NH2	2.79	0.44
59:N3:69:LEU:HD12	59:N3:69:LEU:HA	1.86	0.44
64:N8:62:HIS:CG	64:N8:62:HIS:O	2.79	0.44
36:1:2921:U:O5'	36:1:2921:U:H6	2.01	0.44
36:1:564:G:H2'	36:1:565:U:C6	2.53	0.44
18:C6:10:PHE:CE2	1:6:1379:C:H5'	432.68	0.44
50:M4:47:ASP:CG	50:M4:55:ARG:HB2	2.90	0.43
40:L3:2:SER:HA	36:5:2940:A:N7	239.42	0.43
36:1:2982:A:O3'	36:1:2983:C:O2	2.36	0.43
1:2:66:U:H5'	8:S6:172:ALA:O	2.18	0.43
50:M4:19:ARG:HE	50:M4:19:ARG:HB2	1.52	0.43
87:1:4080:OHX:N4	87:1:4150:OHX:N1	2.66	0.43
6:S4:100:ARG:HH21	6:S4:122:LYS:HA	1.83	0.43
59:N3:120:LYS:HB2	59:N3:137:VAL:HG23	2.18	0.43
59:N3:81:GLN:O	59:N3:82:ALA:CB	2.66	0.43
34:SR:29:GLN:HA	34:SR:30:PRO:HD2	2.26	0.43
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.18	0.43
11:S9:157:ASP:OD2	11:S9:158:PHE:N	2.50	0.43
36:1:3121:U:H1'	36:1:3122:A:H5''	2.00	0.43
62:N6:52:ARG:HA	62:N6:70:ILE:CG2	2.76	0.43
40:L3:232:ARG:NH2	36:5:2989:U:O2'	215.38	0.43
8:S6:167:LYS:HD3	8:S6:169:TYR:CZ	2.53	0.43
1:2:1490:C:H1'	1:2:1491:U:O4'	2.18	0.43
70:O4:103:LYS:HA	70:O4:103:LYS:HD3	1.91	0.43
36:1:1454:A:OP2	87:1:4209:OHX:N6	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3245:A:H2	36:5:3246:G:N1	2.16	0.43
36:1:2946:A:H5''	36:1:2947:G:H5'	2.00	0.43
13:C1:57:LYS:HB2	13:C1:110:HIS:NE2	2.33	0.43
49:M3:174:ARG:HB2	72:O6:9:ILE:HD11	3.26	0.43
36:5:1876:U:H6	36:5:1876:U:C5'	2.30	0.43
46:L9:106:LYS:O	46:L9:107:ASP:HB2	2.39	0.43
36:5:132:C:C2'	36:5:133:U:H5''	2.48	0.43
7:S5:157:ARG:O	7:S5:224:ASN:HB3	2.41	0.43
36:1:3096:C:H2'	36:1:3097:C:C6	2.53	0.43
71:O5:82:ALA:O	38:8:38:U:C5	65.63	0.43
57:N1:54:HIS:CD2	36:5:2724:U:H4'	230.30	0.43
45:L8:26:LEU:HD13	63:N7:53:VAL:HG11	1.99	0.43
87:5:4001:OHX:N6	87:5:4192:OHX:N5	2.66	0.43
1:2:717:C:H2'	1:2:718:U:H5''	2.00	0.43
87:1:3963:OHX:N5	87:1:4072:OHX:N1	2.66	0.43
1:2:1718:G:H2'	1:2:1719:A:C8	2.52	0.43
36:5:1184:A:OP2	87:5:4097:OHX:N6	2.51	0.43
36:1:1047:A:H2'	36:1:1048:A:C8	2.53	0.43
36:5:2299:A:OP2	87:5:3961:OHX:N1	2.51	0.43
1:6:1609:U:H2'	1:6:1610:G:O4'	2.18	0.43
67:O1:36:ILE:O	67:O1:39:PHE:HB3	2.18	0.43
36:1:1902:G:C6	36:1:1903:U:C2	3.06	0.43
36:1:553:U:H2'	36:1:554:A:O4'	2.18	0.43
42:L5:115:LEU:HD22	42:L5:115:LEU:H	1.83	0.43
42:L5:224:LYS:HB2	42:L5:224:LYS:HE3	2.07	0.43
61:N5:108:LEU:HD23	61:N5:108:LEU:HA	1.89	0.43
78:Q2:47:GLN:HE21	78:Q2:47:GLN:HB2	1.52	0.43
57:N1:131:GLN:HA	57:N1:132:PRO:HD3	1.86	0.43
6:S4:210:ILE:HG13	6:S4:218:PHE:CE1	4.74	0.43
34:SR:283:LYS:HG3	34:SR:284:ALA:N	4.90	0.43
36:1:1090:G:H2'	36:1:1091:A:H8	1.83	0.43
78:Q2:77:CYS:O	78:Q2:79:THR:N	2.55	0.43
7:S5:73:THR:N	7:S5:91:GLU:OE2	2.91	0.43
36:1:2355:G:H4'	53:M7:139:TYR:CZ	2.53	0.43
9:S7:48:GLU:O	9:S7:49:ILE:HG23	2.37	0.43
11:S9:149:ARG:NE	1:6:765:G:C5	430.06	0.43
9:S7:114:ARG:NH2	1:6:637:C:O2	351.87	0.43
22:D0:58:LEU:HD12	22:D0:88:LYS:HB3	1.99	0.43
41:L4:70:ALA:O	41:L4:71:VAL:HG23	2.69	0.43
36:5:3000:A:H2'	36:5:3001:C:C6	2.53	0.43
1:2:885:G:H2'	1:2:886:U:C6	2.53	0.43
19:C7:4:VAL:HA	1:6:1402:G:OP1	405.33	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:1784:C:H2'	1:2:1785:U:C6	2.53	0.43
15:C3:16:ILE:HD12	15:C3:16:ILE:HA	4.25	0.43
9:S7:39:ARG:HH22	55:M9:185:LEU:HA	1.82	0.43
1:6:1180:C:H2'	1:6:1181:U:C6	2.53	0.43
40:L3:92:TYR:HE1	40:L3:159:ARG:HD2	1.82	0.43
36:5:3164:C:HO2'	36:5:3165:A:P	2.42	0.43
36:5:3289:G:H4'	36:5:3290:G:OP1	2.18	0.43
1:6:1161:C:OP1	87:6:2183:OHX:N6	2.51	0.43
73:O7:5:THR:HG23	36:5:1845:G:O2'	157.27	0.43
30:D8:44:VAL:HG21	30:D8:48:VAL:CG2	2.69	0.43
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.18	0.43
35:SM:82:THR:HB	35:SM:83:LYS:H	1.41	0.43
39:L2:82:VAL:HA	39:L2:86:GLN:OE1	2.42	0.43
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.85	0.43
20:C8:24:GLY:O	20:C8:26:ILE:HG22	2.18	0.43
36:5:2946:A:C5'	36:5:2947:G:H5'	2.48	0.43
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.51	0.43
1:6:706:A:H2'	1:6:707:A:O4'	2.18	0.43
36:5:1817:G:HO2'	36:5:1818:U:P	2.40	0.43
36:5:1817:G:O2'	36:5:1818:U:P	2.76	0.43
1:2:753:A:H5'	6:S4:221:ARG:HG3	1.99	0.43
6:S4:182:TYR:CE1	6:S4:192:ILE:HD11	3.87	0.43
36:5:1295:G:H2'	36:5:1296:C:C6	2.53	0.43
54:M8:64:VAL:O	54:M8:96:PHE:HE2	2.00	0.43
66:O0:86:ARG:NH2	79:Q3:44:LYS:HA	2.75	0.43
79:Q3:83:ILE:HG22	79:Q3:87:ARG:NH1	2.32	0.43
8:S6:28:PHE:CE1	8:S6:104:PRO:HG3	2.53	0.43
12:C0:77:ARG:HA	12:C0:82:LEU:HD12	2.00	0.43
87:7:217:OHX:N1	87:7:226:OHX:N2	2.66	0.43
87:7:217:OHX:N4	87:7:226:OHX:N6	2.66	0.43
44:L7:151:ARG:HD2	44:L7:244:ASN:ND2	2.32	0.43
34:SR:234:LEU:HD23	34:SR:263:PHE:CD1	2.89	0.43
36:1:2601:A:H2'	36:1:2602:G:C8	2.52	0.43
2:S0:65:ALA:O	2:S0:66:ALA:HB3	4.25	0.43
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.79	0.43
68:O2:19:ARG:HB3	68:O2:22:SER:HB3	2.00	0.43
42:L5:119:TYR:OH	42:L5:141:PRO:HD3	2.24	0.43
36:5:1240:A:N6	36:5:1241:U:O4	2.51	0.43
27:D5:90:LYS:HD2	27:D5:91:PRO:HD2	5.39	0.43
25:D3:4:GLY:O	1:6:1105:C:N4	337.65	0.43
59:N3:86:ARG:HG3	59:N3:92:PHE:CE2	2.68	0.43
10:S8:100:ALA:O	10:S8:101:ILE:HG12	4.07	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
87:1:4067:OHX:N5	87:1:4114:OHX:N6	2.66	0.43
34:SR:197:SER:HB3	34:SR:217:ASP:HB3	2.79	0.43
36:1:230:U:H2'	36:1:231:G:O4'	2.17	0.43
40:L3:291:GLU:OE1	40:L3:302:LYS:NZ	3.94	0.43
36:1:1157:G:H2'	36:1:1158:A:O4'	2.18	0.43
66:O0:42:ILE:HG12	66:O0:67:VAL:HG22	2.34	0.43
66:O0:73:GLY:O	66:O0:76:GLU:HG2	2.18	0.43
59:N3:37:ILE:HG12	59:N3:59:MET:O	2.19	0.43
36:1:2651:G:H4'	36:1:2652:U:OP2	2.18	0.43
1:2:707:A:H2'	1:2:708:C:H5''	2.00	0.43
5:S3:76:ARG:C	5:S3:76:ARG:HD2	2.38	0.43
39:L2:119:LYS:NZ	36:5:2159:U:OP1	192.50	0.43
4:S2:148:LEU:HA	4:S2:148:LEU:HD22	1.77	0.43
36:1:1237:G:N3	36:1:1237:G:H2'	2.32	0.43
1:2:1365:C:H5''	18:C6:28:LEU:CD2	2.48	0.43
36:5:1536:G:N7	87:5:3923:OHX:N2	2.67	0.43
47:M0:3:ARG:HH22	36:5:2854:U:P	292.34	0.43
36:5:3294:A:H2'	36:5:3295:A:O4'	2.19	0.43
15:C3:16:ILE:HD12	1:6:959:U:H4'	346.90	0.43
8:S6:2:LYS:CB	8:S6:108:VAL:HG22	2.43	0.43
22:D0:20:ILE:HD13	22:D0:22:ILE:HD13	2.00	0.43
12:C0:49:LEU:HB3	12:C0:55:VAL:HG11	2.14	0.43
57:N1:42:ILE:HG12	57:N1:96:ILE:CD1	2.49	0.43
36:5:3163:A:C6	36:5:3164:C:N4	2.87	0.43
48:M1:23:VAL:HB	48:M1:65:ILE:O	3.27	0.43
36:1:884:A:OP1	73:O7:5:THR:CG2	2.66	0.43
20:C8:18:LEU:O	20:C8:19:ASN:HB2	2.55	0.43
36:5:1876:U:H6	36:5:1876:U:H5''	1.83	0.43
1:6:234:G:H2'	1:6:235:G:O4'	2.19	0.43
59:N3:32:ARG:HB2	59:N3:32:ARG:NH2	2.33	0.43
1:6:1228:G:H4'	1:6:1228:G:OP2	2.18	0.43
1:6:794:U:H3'	1:6:795:U:H5'	1.99	0.43
44:L7:219:LYS:HA	44:L7:228:SER:HB2	1.99	0.43
57:N1:6:GLY:O	57:N1:9:SER:HB3	2.18	0.43
36:1:1785:U:H2'	36:1:1786:G:H8	1.82	0.43
87:1:3959:OHX:N2	87:1:4140:OHX:N6	2.67	0.43
36:1:551:A:OP2	36:1:551:A:H2'	2.18	0.43
36:5:1340:G:H2'	36:5:1341:U:C6	2.52	0.43
68:O2:124:GLY:O	68:O2:126:LEU:N	2.82	0.43
1:2:717:C:N4	1:2:720:G:H22	2.16	0.43
36:1:1887:A:OP1	87:1:4087:OHX:N3	2.51	0.43
87:1:4067:OHX:N5	87:1:4114:OHX:N2	2.66	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:876:G:H1'	1:6:944:A:O4'	2.18	0.43
1:2:381:C:O2'	1:2:755:A:N1	2.46	0.43
15:C3:85:PRO:HG2	15:C3:129:TYR:CZ	2.53	0.43
1:6:517:U:H2'	1:6:518:A:O4'	2.18	0.43
6:S4:23:LEU:HD13	11:S9:4:ALA:HB3	1.99	0.43
40:L3:45:SER:OG	40:L3:181:ILE:HG23	2.19	0.43
65:N9:7:HIS:O	36:5:1135:A:H5'	227.62	0.43
36:5:1696:A:OP2	87:5:4185:OHX:N6	2.51	0.43
36:1:2376:G:H2'	36:1:2377:G:C8	2.53	0.43
55:M9:154:ALA:O	55:M9:158:GLU:HG2	2.67	0.43
36:5:3350:C:H2'	36:5:3351:U:O2	2.19	0.43
51:M5:5:LYS:HA	51:M5:5:LYS:HD3	2.53	0.43
52:M6:52:LEU:HD23	52:M6:52:LEU:HA	1.86	0.43
8:S6:105:ASP:N	8:S6:105:ASP:OD2	2.87	0.43
7:S5:213:LYS:HA	7:S5:213:LYS:HD3	1.76	0.43
1:2:552:G:C6	1:2:553:G:C6	3.07	0.43
1:2:1165:G:C6	1:2:1166:A:C6	3.06	0.43
18:C6:115:THR:HB	18:C6:118:ILE:O	2.18	0.43
7:S5:164:PRO:HA	7:S5:167:ARG:HG3	3.68	0.43
1:6:577:G:H3'	1:6:577:G:C8	2.53	0.43
11:S9:110:GLN:HE22	11:S9:126:ARG:HA	5.05	0.43
64:N8:46:ASP:O	64:N8:47:LYS:CB	2.81	0.43
36:1:1581:C:O2	36:1:1581:C:H2'	2.19	0.43
74:O8:42:LYS:HG2	74:O8:55:VAL:HG22	2.00	0.43
44:L7:158:LYS:O	44:L7:203:TRP:HZ3	3.55	0.43
75:O9:44:TRP:CZ2	75:O9:45:ARG:HG2	5.09	0.43
36:1:200:C:P	62:N6:60:ARG:NH1	2.92	0.43
53:M7:26:PHE:CE1	53:M7:120:ASN:HA	2.58	0.43
1:2:1241:G:H5''	17:C5:77:ARG:CB	2.49	0.43
1:6:919:A:H2'	1:6:920:U:H6	1.82	0.43
1:2:1437:U:H5'	5:S3:176:LEU:HD23	2.00	0.43
36:1:2437:G:N2	36:1:2511:A:H1'	2.34	0.43
16:C4:125:SER:HB2	1:6:926:A:C2	280.87	0.43
5:S3:209:ILE:HG22	19:C7:38:ILE:O	2.96	0.43
13:C1:86:ILE:HD13	13:C1:86:ILE:HG21	1.99	0.43
43:L6:157:GLN:N	43:L6:157:GLN:OE1	2.47	0.43
6:S4:37:LYS:HG2	1:6:297:U:H5''	353.12	0.43
42:L5:21:ARG:NE	37:7:112:G:O6	292.47	0.43
36:1:1399:A:H5'	36:1:1400:G:OP1	2.17	0.43
87:5:4034:OHX:N5	87:5:4082:OHX:N6	2.66	0.43
1:6:1654:G:H2'	1:6:1745:G:N2	2.32	0.43
36:5:630:A:H2'	36:5:631:U:C6	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
73:O7:63:ARG:O	73:O7:68:LYS:HE2	2.17	0.43
36:1:1795:U:H4'	36:1:1796:G:C4	2.52	0.43
1:2:1492:A:O2'	1:2:1493:A:H8	2.01	0.43
36:1:1204:A:H2	36:1:2834:G:N3	2.15	0.43
45:L8:65:LEU:HD12	51:M5:25:VAL:HG13	2.00	0.43
38:8:100:U:OP2	87:8:217:OHX:N2	2.52	0.43
38:4:24:G:OP2	62:N6:13:ARG:HD3	2.18	0.43
11:S9:105:LEU:HA	11:S9:105:LEU:HD12	2.08	0.43
5:S3:163:PRO:HA	5:S3:166:ASP:HB2	2.18	0.43
36:1:2619:G:OP2	87:1:3921:OHX:N3	2.51	0.43
42:L5:258:LYS:O	42:L5:259:LYS:HG2	2.18	0.43
36:1:2762:A:H1'	36:1:2800:G:C6	2.53	0.43
36:1:889:U:H2'	36:1:890:C:O4'	2.18	0.43
62:N6:94:SER:O	62:N6:95:VAL:HG23	2.53	0.43
15:C3:93:LYS:HA	15:C3:150:VAL:HG21	2.38	0.43
36:5:1947:G:O6	87:5:4188:OHX:N3	2.51	0.43
36:1:1719:G:OP2	55:M9:121:HIS:ND1	2.29	0.43
36:1:1537:A:C2'	36:1:1538:G:H5'	2.48	0.43
1:2:729:G:H2'	1:2:729:G:N3	2.33	0.43
36:5:2827:U:O2	36:5:2827:U:H2'	2.17	0.43
1:6:278:U:OP2	1:6:278:U:H2'	2.17	0.43
36:5:850:U:H2'	36:5:851:C:C6	2.53	0.43
1:2:549:G:C2	1:2:550:A:C8	3.07	0.43
60:N4:50:ALA:HA	60:N4:55:PHE:CG	2.54	0.43
1:2:273:G:H2'	1:2:274:G:O4'	2.18	0.43
38:4:150:G:O2'	45:L8:56:VAL:HG13	2.18	0.43
1:2:283:U:H5''	8:S6:188:ARG:HD3	2.00	0.43
75:O9:5:LYS:HB3	75:O9:5:LYS:HE2	4.61	0.43
4:S2:222:TYR:OH	23:D1:11:LEU:O	2.37	0.43
40:L3:3:HIS:C	40:L3:3:HIS:CD2	2.91	0.43
1:2:819:G:O6	1:2:853:G:C6	2.71	0.43
1:2:739:G:H2'	1:2:740:A:H8	1.82	0.43
40:L3:347:SER:HB2	40:L3:350:ALA:CB	3.18	0.43
47:M0:12:GLN:HB3	47:M0:128:ARG:NH2	3.06	0.43
4:S2:61:LEU:HA	4:S2:62:PRO:HD2	1.86	0.43
45:L8:108:ARG:NH1	36:5:121:A:C2	97.44	0.43
6:S4:150:PRO:HB2	6:S4:154:ILE:HD12	2.01	0.43
47:M0:65:LEU:O	47:M0:69:ARG:HB2	2.37	0.43
45:L8:75:ILE:O	45:L8:76:ALA:HB3	2.19	0.43
1:2:833:U:H5'	1:2:834:G:H5''	2.01	0.43
22:D0:17:GLN:HB2	22:D0:96:PRO:HB3	1.99	0.43
27:D5:54:VAL:HG22	27:D5:57:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:127:ARG:NH2	35:SM:66:ALA:HB2	4.01	0.43
19:C7:46:LEU:O	19:C7:50:ILE:HG13	2.18	0.43
19:C7:16:LEU:HD12	19:C7:54:THR:HG21	2.00	0.43
38:8:155:A:H2'	38:8:156:U:O4'	2.18	0.43
26:D4:62:THR:HB	26:D4:69:SER:OG	2.44	0.43
1:6:190:C:O2'	1:6:191:C:H5'	2.17	0.43
1:6:738:G:O6	87:6:2075:OHX:N4	2.52	0.43
1:2:1535:U:H6	1:2:1535:U:H2'	1.55	0.43
1:2:117:U:H2'	1:2:118:U:O4'	2.18	0.43
6:S4:246:LEU:HD21	6:S4:254:ARG:NH1	2.33	0.43
41:L4:4:PRO:O	41:L4:5:GLN:HB2	2.18	0.43
3:S1:179:SER:HB3	3:S1:183:GLN:CB	2.97	0.43
36:1:1565:G:N2	36:1:1574:C:C2	2.86	0.43
52:M6:16:VAL:HG21	52:M6:43:ILE:HG12	1.99	0.43
46:L9:166:ARG:HH21	46:L9:168:ARG:HH12	11.41	0.43
61:N5:58:ASP:O	61:N5:62:VAL:HG23	2.25	0.43
1:6:829:A:OP1	1:6:829:A:H4'	2.18	0.43
16:C4:24:ASN:O	16:C4:25:ASP:HB2	2.18	0.43
36:1:1486:G:O6	87:1:3975:OHX:N5	2.51	0.43
1:2:296:U:H2'	1:2:297:U:C6	2.52	0.43
48:M1:38:GLU:C	48:M1:40:LEU:H	2.80	0.43
3:S1:52:THR:OG1	3:S1:55:LYS:O	2.33	0.43
1:2:1629:G:H2'	1:2:1630:U:H6	1.84	0.43
73:O7:85:LYS:HB2	38:8:67:U:H5''	20.62	0.43
39:L2:64:ARG:HH22	45:L8:38:GLN:HA	2.42	0.43
51:M5:178:HIS:ND1	36:5:69:C:OP1	117.30	0.43
36:1:2186:U:OP2	39:L2:200:ARG:NH2	2.51	0.43
1:6:570:A:H5''	1:6:571:G:OP2	2.18	0.43
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.54	0.43
87:1:4067:OHX:N3	87:1:4114:OHX:N4	2.66	0.43
1:6:231:U:H2'	1:6:232:U:H5''	1.99	0.43
1:6:1347:U:C2	1:6:1517:U:C5	3.06	0.43
40:L3:35:ASP:OD1	40:L3:184:ASN:O	2.57	0.43
1:2:1031:U:H4'	1:2:1032:G:OP2	2.18	0.43
10:S8:18:ARG:NH1	1:6:105:A:OP1	305.52	0.43
40:L3:112:ASP:HA	40:L3:115:LYS:HB2	2.34	0.43
52:M6:192:LYS:HE3	52:M6:192:LYS:HB3	1.66	0.43
3:S1:222:LYS:HA	3:S1:222:LYS:HD3	2.14	0.43
67:O1:5:LYS:O	67:O1:6:ASP:HB2	2.18	0.43
73:O7:13:ASN:O	36:5:817:A:C4	140.21	0.43
36:5:880:G:H8	36:5:882:A:OP2	2.02	0.43
23:D1:1:MET:HG3	23:D1:10:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D6:79:ILE:HG23	28:D6:84:VAL:HG21	2.01	0.43
28:D6:85:ARG:HD3	28:D6:85:ARG:HA	1.45	0.43
21:C9:34:VAL:O	21:C9:35:ASP:HB3	2.18	0.43
4:S2:111:VAL:HG21	4:S2:218:ILE:HD13	2.00	0.43
41:L4:91:GLY:O	41:L4:94:CYS:HB2	2.22	0.43
36:5:2996:U:H2'	36:5:2996:U:O2	2.17	0.43
36:1:830:A:H2'	36:1:831:G:O4'	2.18	0.43
4:S2:53:ILE:HA	4:S2:72:LEU:HD23	2.47	0.43
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.55	0.43
45:L8:100:GLU:CD	45:L8:108:ARG:HH12	3.41	0.43
66:O0:9:SER:HG	66:O0:12:GLN:HB3	4.17	0.43
62:N6:50:ILE:HD11	62:N6:70:ILE:HD13	2.00	0.43
40:L3:233:TRP:CD1	40:L3:265:ALA:HB1	2.54	0.43
2:S0:70:PRO:O	2:S0:95:ALA:N	2.47	0.43
9:S7:157:LYS:HB2	9:S7:157:LYS:HE3	4.21	0.43
53:M7:52:LEU:HD13	53:M7:88:VAL:HG11	1.99	0.43
53:M7:88:VAL:O	53:M7:92:GLN:HG3	3.47	0.43
1:6:93:A:C6	1:6:398:G:C6	3.07	0.43
45:L8:101:THR:CG2	45:L8:104:GLU:H	2.31	0.43
42:L5:68:THR:HG22	42:L5:71:GLY:N	2.69	0.43
1:6:992:A:OP1	1:6:1786:G:H5'	2.19	0.43
36:1:2662:G:H2'	36:1:2663:G:H8	1.84	0.43
1:2:827:C:H2'	1:2:828:U:H6	1.83	0.43
36:1:975:C:H2'	36:1:976:U:H6	1.83	0.43
36:5:1482:A:H4'	36:5:1483:G:OP2	2.18	0.43
65:N9:9:ALA:O	65:N9:12:GLN:HB2	2.78	0.43
36:5:1838:G:H4'	36:5:1839:A:N3	2.34	0.43
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.51	0.43
39:L2:50:HIS:CD2	36:5:1795:U:H2'	198.73	0.43
1:2:396:G:N2	1:2:398:G:H3'	2.32	0.43
36:5:1438:U:H2'	36:5:1439:U:C6	2.54	0.43
36:1:132:C:H2'	36:1:133:U:H5''	2.01	0.43
1:6:246:G:C6	1:6:247:A:C6	3.07	0.43
73:O7:39:TYR:CD2	73:O7:40:PRO:HA	2.52	0.43
20:C8:36:LYS:O	20:C8:102:ALA:N	2.53	0.43
40:L3:130:PHE:CE1	36:5:3149:G:H4'	221.97	0.43
36:1:2765:C:O3'	78:Q2:39:GLY:HA3	2.19	0.43
36:5:370:U:H4'	36:5:404:G:H5'	2.00	0.43
1:2:95:G:O2'	1:2:460:A:O2'	2.29	0.43
44:L7:25:GLN:O	44:L7:28:ALA:HB3	4.02	0.43
36:5:1934:G:O6	87:5:3916:OHX:N2	2.52	0.43
60:N4:4:GLU:HG2	60:N4:30:ARG:CD	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:2610:G:H2'	36:5:2611:U:O4'	2.19	0.43
36:5:874:U:O4	36:5:2979:U:H5	2.00	0.43
71:O5:33:VAL:O	71:O5:36:LEU:HG	2.46	0.43
46:L9:190:ASP:OD1	46:L9:191:LEU:N	2.52	0.43
7:S5:45:LYS:HD3	7:S5:45:LYS:HA	1.43	0.43
1:2:1253:U:H2'	1:2:1254:U:C6	2.54	0.43
36:5:1238:C:H2'	36:5:1239:C:H5''	2.01	0.43
42:L5:40:HIS:CD2	42:L5:42:ALA:HB3	2.53	0.43
1:2:1429:G:C1'	22:D0:74:GLU:HG2	2.41	0.43
40:L3:325:LYS:HG2	40:L3:326:GLY:N	2.80	0.43
40:L3:70:ARG:HH22	59:N3:120:LYS:NZ	2.16	0.43
15:C3:14:SER:HA	1:6:959:U:OP2	345.42	0.43
36:1:1245:A:N6	36:1:1272:C:O2'	2.51	0.43
22:D0:96:PRO:HG2	22:D0:99:ILE:HG22	2.00	0.43
2:S0:67:ILE:HG13	2:S0:73:VAL:HG22	2.00	0.43
5:S3:23:GLU:O	5:S3:26:THR:HB	2.88	0.43
1:6:149:C:H2'	1:6:150:U:C6	2.54	0.43
52:M6:108:ILE:HD11	52:M6:117:ARG:CZ	4.04	0.43
10:S8:5:ARG:HD3	10:S8:29:LEU:O	2.19	0.43
1:2:646:C:H2'	1:2:647:G:C8	2.54	0.43
41:L4:3:ARG:HA	41:L4:4:PRO:HD2	1.75	0.43
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	2.01	0.43
16:C4:122:PRO:C	16:C4:124:ASP:N	2.72	0.43
36:5:1190:A:C8	36:5:1193:A:H1'	2.54	0.43
6:S4:102:VAL:HG21	6:S4:239:PRO:HD3	2.00	0.43
1:2:208:U:H2'	1:2:209:U:H6	1.84	0.43
2:S0:101:ARG:NH1	1:6:1320:U:C4	405.04	0.43
36:5:2396:G:OP1	36:5:2397:A:H4'	2.19	0.43
1:6:648:G:C2	1:6:687:G:C2	3.07	0.43
36:1:3198:U:H4'	36:1:3199:G:OP2	2.18	0.43
61:N5:92:LYS:HE3	36:5:1831:U:OP2	104.17	0.43
45:L8:128:LYS:NZ	45:L8:202:GLU:OE2	2.27	0.43
17:C5:122:THR:HG22	1:6:1558:U:H3	367.64	0.43
14:C2:125:ASN:O	14:C2:127:GLY:N	2.41	0.43
5:S3:202:LEU:O	5:S3:204:ASP:N	3.14	0.43
49:M3:70:ARG:HD2	49:M3:71:ALA:O	2.36	0.43
15:C3:85:PRO:HG2	15:C3:129:TYR:CE2	2.72	0.43
9:S7:75:THR:O	9:S7:79:ARG:HB2	2.73	0.43
36:1:2257:C:H2'	36:1:2258:U:O4'	2.19	0.43
36:1:1316:C:O4'	52:M6:130:LYS:HD3	2.19	0.43
1:2:312:A:C2	1:2:314:C:H2'	2.54	0.43
37:3:22:A:H1'	42:L5:272:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:25:C:O2	87:6:2109:OHX:N5	2.52	0.43
87:2:2170:OHX:N5	87:2:2171:OHX:N1	2.66	0.43
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.54	0.43
36:5:2318:U:O4	87:5:3997:OHX:N6	2.52	0.43
1:6:1573:A:H4'	1:6:1574:G:H5'	2.00	0.43
36:5:1307:G:C2	36:5:1308:A:C2	3.07	0.43
66:O0:74:ASN:OD1	66:O0:74:ASN:N	2.59	0.43
47:M0:178:ARG:H	47:M0:178:ARG:HG2	1.54	0.43
43:L6:166:LYS:HA	43:L6:166:LYS:HD3	1.81	0.43
36:1:1364:C:H5''	54:M8:3:ILE:HD13	2.00	0.43
14:C2:103:LEU:HD23	14:C2:115:VAL:HA	2.72	0.43
40:L3:2:SER:N	36:5:2943:G:N7	236.75	0.43
28:D6:86:VAL:HG12	1:6:1795:U:OP1	344.55	0.43
28:D6:44:ILE:H	28:D6:44:ILE:HG13	1.62	0.43
68:O2:109:LEU:HA	68:O2:109:LEU:HD22	1.79	0.43
1:6:1765:A:OP1	87:6:2127:OHX:N6	2.52	0.43
59:N3:13:ILE:HD12	59:N3:85:TRP:CD1	2.52	0.43
1:2:1781:A:H2'	1:2:1782:A:O4'	2.19	0.43
72:O6:54:GLU:HA	72:O6:90:MET:HE3	4.36	0.43
11:S9:161:THR:HG22	11:S9:162:SER:H	1.83	0.43
1:2:1459:C:OP1	20:C8:126:ARG:NH1	2.52	0.43
1:6:1199:G:OP1	1:6:1200:G:H8	2.02	0.43
7:S5:161:ASP:OD2	30:D8:42:ARG:NH1	3.78	0.43
29:D7:67:THR:OG1	29:D7:70:LYS:O	2.98	0.43
5:S3:59:LEU:HA	5:S3:66:ILE:HG12	2.00	0.43
1:6:292:U:H2'	1:6:293:U:C6	2.53	0.43
13:C1:83:THR:HG21	1:6:325:G:H4'	289.61	0.43
17:C5:21:ASP:O	17:C5:25:LEU:HG	3.08	0.43
1:6:1595:U:H3'	1:6:1596:C:O2	2.19	0.43
26:D4:41:ARG:NH2	26:D4:52:LYS:HD2	2.33	0.43
54:M8:64:VAL:HG13	54:M8:93:ILE:HD11	2.00	0.43
2:S0:175:TYR:OH	2:S0:197:ILE:O	3.19	0.43
20:C8:28:ILE:HG13	20:C8:56:LYS:O	4.93	0.43
36:5:1481:A:O2'	36:5:1858:A:N3	2.46	0.43
42:L5:155:THR:HB	42:L5:179:ARG:HA	2.01	0.43
38:4:157:U:H3'	38:4:158:U:C6	2.54	0.43
8:S6:27:PHE:CZ	8:S6:111:LEU:HD11	2.53	0.43
36:5:1070:U:C4	36:5:1071:U:C4	3.06	0.43
1:6:460:A:H5'	1:6:461:G:OP2	2.19	0.43
71:O5:70:TYR:HA	71:O5:73:LYS:HG3	2.90	0.43
68:O2:123:LYS:HA	68:O2:126:LEU:HB2	2.99	0.43
49:M3:8:PRO:HD3	54:M8:164:ARG:HB3	2.57	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
64:N8:65:GLN:O	64:N8:66:ALA:HB2	2.18	0.43
41:L4:258:LEU:HA	41:L4:258:LEU:HD12	1.78	0.43
5:S3:183:GLY:O	5:S3:184:ILE:HD13	3.19	0.43
60:N4:63:ILE:C	60:N4:65:GLU:H	3.35	0.43
87:1:4067:OHX:N1	87:1:4114:OHX:N2	2.66	0.43
41:L4:10:SER:OG	41:L4:14:GLU:HG3	4.57	0.43
73:O7:26:SER:O	73:O7:34:CYS:HA	2.19	0.43
3:S1:107:THR:HG23	16:C4:116:GLU:OE1	2.19	0.43
36:1:880:G:H8	36:1:882:A:OP2	2.02	0.43
36:5:2582:C:H2'	36:5:2583:C:C6	2.53	0.43
1:6:723:G:H5'	1:6:724:C:OP2	2.19	0.43
36:5:3065:G:O6	87:5:4105:OHX:N6	2.52	0.43
1:2:881:A:H2'	1:2:882:U:O4'	2.18	0.43
56:N0:60:SER:OG	56:N0:62:ASN:OD1	2.35	0.43
54:M8:98:LYS:HE3	54:M8:118:GLY:O	2.57	0.43
50:M4:35:ILE:HA	50:M4:46:ILE:HG22	3.00	0.43
22:D0:52:LYS:HE3	22:D0:52:LYS:HB2	4.32	0.43
39:L2:179:LEU:HA	39:L2:179:LEU:HD12	1.93	0.43
36:1:1273:A:HO2'	36:1:1274:A:P	2.41	0.43
34:SR:89:LEU:HD21	34:SR:110:VAL:HG11	2.14	0.43
1:6:152:U:O2	1:6:163:G:N2	2.52	0.43
87:1:3993:OHX:N2	87:3:222:OHX:N1	2.66	0.43
1:2:1325:A:C2	1:2:1326:A:C5	3.06	0.43
36:1:412:G:OP1	53:M7:62:ARG:NH1	2.51	0.43
41:L4:144:LYS:H	41:L4:144:LYS:CE	6.32	0.43
47:M0:48:LEU:CD1	47:M0:50:VAL:HG23	3.95	0.43
87:5:4093:OHX:N6	87:5:4201:OHX:N2	2.67	0.43
56:N0:155:ARG:HD2	56:N0:172:TYR:CG	3.46	0.43
36:5:1554:U:H4'	36:5:1555:U:OP1	2.19	0.43
24:D2:74:VAL:HA	24:D2:127:GLY:HA3	2.00	0.43
58:N2:43:VAL:HG23	58:N2:46:ALA:O	2.18	0.43
58:N2:51:GLY:C	58:N2:52:ASN:HD22	2.14	0.43
3:S1:70:LEU:HB3	3:S1:79:HIS:CB	6.02	0.43
56:N0:1:MET:O	56:N0:2:ALA:HB2	2.19	0.43
36:1:65:A:C4	36:1:110:G:N7	2.87	0.43
65:N9:14:ARG:CZ	65:N9:18:ARG:HD2	2.47	0.43
36:5:1716:U:HO2'	36:5:1717:U:P	2.41	0.43
48:M1:23:VAL:HG21	48:M1:30:LEU:HA	3.08	0.43
36:5:2572:C:H1'	36:5:2573:G:O4'	2.19	0.43
24:D2:119:LYS:HB3	24:D2:119:LYS:HE3	1.76	0.43
36:5:3136:G:C6	36:5:3137:C:C4	3.07	0.43
42:L5:148:ILE:HG21	42:L5:148:ILE:HD13	1.78	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3263:G:C6	87:5:4120:OHX:N2	2.87	0.43
17:C5:96:ILE:HD11	17:C5:116:LEU:HD22	2.00	0.43
46:L9:91:ARG:HG2	46:L9:182:SER:CB	2.87	0.43
9:S7:162:ILE:HB	9:S7:169:PHE:CE2	2.54	0.43
36:1:2656:A:C4	36:1:2658:G:N7	2.87	0.43
8:S6:202:ARG:NH2	1:6:127:G:N7	330.24	0.43
87:5:4077:OHX:N1	87:5:4137:OHX:N2	2.67	0.43
21:C9:100:ILE:O	21:C9:104:VAL:HG23	2.37	0.43
5:S3:175:VAL:HG13	5:S3:182:LEU:HD13	2.00	0.43
30:D8:66:LEU:HA	30:D8:66:LEU:HD23	1.86	0.43
36:5:830:A:OP2	87:5:4063:OHX:N5	2.52	0.43
36:5:293:C:H2'	36:5:294:U:O4'	2.19	0.43
72:O6:77:LEU:HD23	36:5:294:U:H4'	146.34	0.43
48:M1:46:VAL:HG13	48:M1:68:HIS:ND1	2.34	0.43
45:L8:230:LYS:HD2	45:L8:230:LYS:HA	1.72	0.43
87:2:2094:OHX:N6	87:2:2108:OHX:N5	2.66	0.43
87:1:4019:OHX:N3	87:1:4057:OHX:N5	2.67	0.43
46:L9:84:LYS:HA	46:L9:188:THR:CG2	2.48	0.43
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.54	0.43
36:1:1485:G:O6	87:1:3975:OHX:N2	2.51	0.43
36:5:1231:A:H5''	36:5:1232:C:O5'	2.19	0.43
13:C1:46:LYS:HA	13:C1:46:LYS:HD2	2.41	0.43
66:O0:43:ILE:HG22	66:O0:70:PHE:HB2	2.00	0.43
87:5:4035:OHX:N1	87:5:4118:OHX:N3	2.66	0.43
1:2:67:A:C2	1:2:69:G:H1'	2.54	0.43
47:M0:22:TYR:CZ	36:5:1048:A:H2'	268.48	0.43
36:1:2714:G:H4'	36:1:2715:A:C5'	2.49	0.43
87:5:4034:OHX:N5	87:5:4082:OHX:N2	2.66	0.43
1:2:1397:U:O4	1:2:1399:C:H1'	2.18	0.43
74:O8:12:LEU:HA	74:O8:12:LEU:HD12	4.54	0.43
49:M3:188:ARG:O	49:M3:191:ALA:HB3	2.40	0.43
1:2:1039:A:O2'	1:2:1040:G:O5'	2.31	0.43
42:L5:188:GLU:OE1	87:5:4235:OHX:N3	244.41	0.43
58:N2:99:LYS:HB2	58:N2:102:GLU:HG3	2.01	0.43
39:L2:20:THR:HG22	39:L2:23:ARG:CZ	7.21	0.43
40:L3:249:VAL:HG22	40:L3:252:ILE:HD13	5.63	0.43
54:M8:42:ALA:HA	54:M8:43:PRO:HD3	1.87	0.43
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.18	0.43
1:2:485:A:H2'	1:2:486:G:O4'	2.19	0.43
36:1:591:G:H4'	36:1:592:A:OP1	2.19	0.43
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	2.01	0.43
1:6:1685:G:H1	1:6:1716:C:H42	1.65	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:M8:139:ILE:O	54:M8:140:LEU:HD23	2.87	0.43
18:C6:87:LYS:HB3	18:C6:87:LYS:HE2	2.14	0.43
1:2:813:U:C2	55:M9:163:ARG:HD2	2.54	0.43
36:1:361:A:H5'	73:O7:35:SER:OG	2.19	0.43
5:S3:224:ASP:OD1	34:SR:228:LYS:HD2	2.19	0.43
7:S5:43:PHE:HA	7:S5:68:ILE:O	2.18	0.43
1:6:565:C:N3	87:6:2160:OHX:N4	2.67	0.43
36:5:437:G:OP2	36:5:437:G:C8	2.71	0.43
9:S7:91:ILE:HD11	9:S7:129:LEU:O	2.19	0.43
1:2:1291:G:C2	1:2:1325:A:C2	3.07	0.43
41:L4:181:VAL:HG12	41:L4:182:LEU:N	2.34	0.43
36:1:1556:C:C4	36:1:2169:G:C5	3.07	0.43
40:L3:346:THR:O	40:L3:346:THR:HG22	2.54	0.43
13:C1:139:VAL:HG12	13:C1:140:VAL:N	2.34	0.43
1:2:1064:G:O2'	3:S1:204:ILE:O	2.37	0.43
1:2:929:A:N6	1:2:930:A:C6	2.87	0.43
24:D2:7:LEU:HD23	24:D2:7:LEU:HA	2.11	0.43
18:C6:18:ALA:CB	18:C6:69:VAL:HG13	2.46	0.43
44:L7:108:LEU:HA	44:L7:108:LEU:HD23	1.83	0.43
68:O2:33:ARG:HH11	36:5:944:C:H4'	162.31	0.43
9:S7:31:SER:N	9:S7:32:PRO:HD2	3.99	0.43
36:1:839:C:H4'	36:1:1724:U:H2'	2.00	0.43
5:S3:144:ALA:HB2	35:SM:106:VAL:HG22	2.00	0.43
6:S4:176:ASP:HB2	6:S4:179:LYS:NZ	2.33	0.43
36:5:1036:A:H2'	36:5:1037:C:O4'	2.19	0.43
40:L3:163:HIS:ND1	40:L3:164:THR:O	2.85	0.43
36:5:2987:A:H2'	36:5:2988:C:C6	2.54	0.43
10:S8:58:LEU:HD23	10:S8:58:LEU:HA	3.95	0.43
53:M7:48:LEU:HA	53:M7:48:LEU:HD23	1.88	0.43
67:O1:12:TYR:O	67:O1:72:ARG:HD2	2.19	0.43
57:N1:129:LYS:NZ	36:5:1097:G:OP1	245.48	0.43
27:D5:59:TYR:CE2	27:D5:100:ILE:HG12	2.54	0.43
1:6:825:U:O2'	1:6:826:U:H6	2.02	0.43
36:1:1565:G:N2	36:1:1574:C:O2	2.52	0.43
15:C3:28:LEU:O	15:C3:32:SER:HB3	6.58	0.43
1:2:778:G:C8	1:2:783:G:C2	3.07	0.43
36:1:3094:A:H2'	36:1:3095:U:C6	2.54	0.43
8:S6:122:GLU:O	8:S6:124:LEU:N	2.45	0.43
71:O5:92:LEU:HD13	71:O5:96:GLU:O	2.19	0.43
36:1:1833:G:OP1	75:O9:10:LYS:HD3	2.19	0.43
12:C0:77:ARG:HA	12:C0:82:LEU:CD1	2.49	0.43
36:1:1593:A:N3	36:1:1615:C:O2'	2.45	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:97:C:H2'	1:2:98:U:C6	2.53	0.43
1:6:350:U:H5''	1:6:352:A:H5'	2.01	0.43
36:5:2718:U:O4	87:5:4231:OHX:N6	2.52	0.43
2:S0:102:PHE:CZ	2:S0:106:SER:HB2	2.54	0.43
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.62	0.43
63:N7:51:LEU:HB2	63:N7:65:ARG:HH11	1.84	0.43
36:5:2562:A:N6	36:5:2579:G:O2'	2.48	0.43
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	2.01	0.43
1:6:653:C:N4	1:6:677:G:H1	2.17	0.43
36:1:3006:A:C2	36:1:3141:A:C4	3.07	0.43
34:SR:245:PHE:O	34:SR:294:TRP:CD1	2.72	0.43
57:N1:56:PHE:CZ	57:N1:78:LYS:HD3	2.54	0.43
8:S6:126:ASP:OD2	8:S6:127:THR:HG22	2.19	0.43
36:5:167:U:H2'	36:5:168:U:C6	2.54	0.43
36:1:314:U:H2'	36:1:315:C:C6	2.54	0.43
65:N9:31:SER:OG	65:N9:33:LYS:HB2	2.96	0.43
36:5:1620:U:O2	36:5:1825:G:N2	2.49	0.43
37:3:58:C:H2'	37:3:59:U:C6	2.54	0.43
36:5:1366:A:C2	36:5:1367:G:C4	3.07	0.43
36:5:51:A:H2'	36:5:52:A:O4'	2.19	0.43
11:S9:139:GLN:HG3	11:S9:140:ILE:O	2.93	0.43
64:N8:85:ASP:OD1	64:N8:86:LYS:HG2	2.19	0.43
52:M6:175:THR:HA	52:M6:178:VAL:HB	2.00	0.43
5:S3:210:GLU:OE2	19:C7:19:ARG:NH1	3.11	0.43
36:1:810:A:H2'	36:1:811:U:C6	2.54	0.43
52:M6:128:ARG:HD2	52:M6:128:ARG:HA	4.19	0.43
4:S2:40:LYS:HE3	4:S2:40:LYS:HB2	4.61	0.43
36:1:2902:A:P	46:L9:170:LYS:HE2	2.59	0.43
8:S6:193:LEU:HD23	8:S6:196:ARG:HH11	1.84	0.43
36:1:374:A:N3	36:1:376:G:H5''	2.34	0.43
4:S2:59:HIS:CE1	4:S2:238:SER:HA	3.58	0.43
36:5:146:U:H5''	36:5:148:G:H5'	2.01	0.43
2:S0:14:ALA:O	2:S0:18:LEU:HG	2.19	0.42
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	2.32	0.42
31:D9:45:GLU:CD	1:6:1433:G:H22	410.92	0.42
1:2:1291:G:C8	1:2:1291:G:O5'	2.56	0.42
40:L3:4:ARG:O	40:L3:5:LYS:HB2	2.19	0.42
11:S9:82:ARG:O	11:S9:150:LEU:HB2	2.19	0.42
1:6:538:A:H2	1:6:540:G:N2	2.17	0.42
8:S6:63:MET:HE2	8:S6:106:LEU:HD22	2.00	0.42
6:S4:166:SER:O	6:S4:168:LYS:HG2	4.83	0.42
36:1:3139:A:C8	36:1:3139:A:C5'	3.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
79:Q3:17:ARG:NH1	36:5:860:G:OP1	219.88	0.42
34:SR:21:THR:O	34:SR:36:ALA:HB3	2.19	0.42
36:5:529:A:H2'	36:5:530:G:O4'	2.18	0.42
1:6:578:U:O2	87:6:2155:OHX:N3	2.52	0.42
54:M8:57:ILE:HG22	54:M8:58:ASN:OD1	2.19	0.42
36:1:2535:A:H61	36:1:2544:U:H3	1.65	0.42
50:M4:131:VAL:HG13	52:M6:181:ALA:HB1	2.00	0.42
3:S1:81:PHE:CD1	3:S1:109:LYS:HG2	2.54	0.42
36:5:1152:G:OP2	36:5:1152:G:H8	2.01	0.42
1:6:1370:U:O3'	1:6:1371:A:H4'	2.19	0.42
45:L8:133:LYS:HB2	45:L8:199:ALA:O	3.24	0.42
21:C9:141:GLU:C	21:C9:143:ASP:H	2.91	0.42
36:1:597:G:OP1	44:L7:37:ASN:HB3	2.18	0.42
1:6:1257:U:O2'	1:6:1258:U:O4'	2.37	0.42
26:D4:8:ARG:HD3	26:D4:26:ASP:O	2.19	0.42
36:1:181:U:H2'	36:1:182:U:O4'	2.19	0.42
1:6:1388:A:H4'	1:6:1389:C:O5'	2.18	0.42
1:2:287:G:O2'	1:2:288:A:P	2.77	0.42
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	2.45	0.42
36:1:2764:C:H2'	36:1:2765:C:O4'	2.19	0.42
34:SR:41:THR:HG22	34:SR:62:LYS:HG2	2.01	0.42
36:1:301:G:C6	36:1:302:U:C4	3.07	0.42
25:D3:59:ILE:HD13	32:E0:4:VAL:HG22	3.57	0.42
1:6:1334:U:H2'	1:6:1335:U:O4'	2.19	0.42
36:1:3099:C:O2'	36:1:3100:U:H5'	2.19	0.42
1:2:1252:C:O4'	33:E1:133:ALA:HB2	2.19	0.42
38:4:75:G:C8	75:O9:30:ARG:HG2	2.54	0.42
1:2:997:G:H2'	1:2:998:A:O4'	2.19	0.42
36:1:2674:A:C6	48:M1:124:GLY:HA3	2.53	0.42
36:5:1790:G:O6	87:5:4197:OHX:N4	2.52	0.42
50:M4:102:LYS:HB2	50:M4:102:LYS:HE3	1.76	0.42
36:5:2436:U:H6	36:5:2436:U:O5'	2.02	0.42
5:S3:217:ILE:HB	5:S3:218:LEU:H	2.02	0.42
1:6:1398:U:H4'	1:6:1399:C:OP2	2.19	0.42
4:S2:150:GLN:HA	4:S2:151:PRO:HD3	1.76	0.42
28:D6:36:ILE:HD12	28:D6:36:ILE:N	5.27	0.42
1:2:1340:U:N3	1:2:1378:U:H4'	2.34	0.42
36:5:1239:C:N4	36:5:1249:G:H1	2.00	0.42
9:S7:86:GLN:OE1	9:S7:86:GLN:HA	4.65	0.42
36:1:2830:G:H1'	36:1:2861:U:C2	2.54	0.42
36:1:1741:A:C2	36:1:1742:U:C4	3.06	0.42
36:5:979:U:O3'	36:5:980:A:C8	2.72	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
87:6:2061:OHX:N5	87:6:2148:OHX:N3	2.67	0.42
3:S1:205:PHE:CG	3:S1:206:PRO:HD2	2.60	0.42
36:5:1765:U:H2'	36:5:1766:G:O4'	2.18	0.42
29:D7:56:CYS:HB2	29:D7:61:THR:CG2	2.43	0.42
87:2:2095:OHX:N1	87:2:2115:OHX:N5	2.67	0.42
36:5:15:C:H6	36:5:15:C:H5'	1.82	0.42
36:5:2207:A:H2'	36:5:2208:A:O4'	2.18	0.42
3:S1:48:VAL:HG12	3:S1:49:ASN:N	2.34	0.42
3:S1:26:ARG:NH1	3:S1:49:ASN:OD1	2.97	0.42
48:M1:132:ASN:HA	48:M1:154:THR:HG21	2.01	0.42
1:2:960:U:H2'	1:2:961:U:H6	1.84	0.42
10:S8:58:LEU:O	10:S8:59:ARG:HB2	2.19	0.42
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.34	0.42
36:5:2947:G:N2	36:5:2948:C:C2	2.87	0.42
36:5:1875:G:C2'	36:5:1876:U:H5''	2.48	0.42
41:L4:31:ARG:HG3	41:L4:120:TYR:CE1	2.54	0.42
46:L9:41:ILE:HG23	46:L9:43:VAL:HG13	2.02	0.42
62:N6:114:ASP:OD1	87:8:223:OHX:N2	21.74	0.42
15:C3:28:LEU:HB3	15:C3:29:SER:H	1.74	0.42
26:D4:35:VAL:HG13	26:D4:36:SER:N	2.34	0.42
14:C2:119:SER:OG	14:C2:120:VAL:N	2.52	0.42
51:M5:143:ARG:HE	71:O5:92:LEU:HD23	1.84	0.42
52:M6:7:VAL:HG23	52:M6:31:GLN:OE1	3.36	0.42
68:O2:27:ARG:HB3	36:5:655:C:P	161.99	0.42
1:2:1622:G:H2'	1:2:1623:C:C6	2.54	0.42
34:SR:42:LEU:HB2	34:SR:61:PHE:CD2	3.59	0.42
41:L4:316:ASN:O	41:L4:319:LYS:O	2.67	0.42
44:L7:144:ILE:HD12	44:L7:189:ILE:HD12	2.00	0.42
13:C1:73:GLY:HA3	13:C1:86:ILE:HG23	4.85	0.42
63:N7:54:THR:H	63:N7:57:HIS:CD2	2.71	0.42
43:L6:42:LEU:HD23	43:L6:84:VAL:HG22	2.79	0.42
59:N3:125:LEU:HA	59:N3:125:LEU:HD12	2.37	0.42
59:N3:57:MET:HE3	59:N3:126:TRP:CH2	6.41	0.42
36:1:806:A:H5''	36:1:936:A:H61	1.84	0.42
10:S8:2:GLY:HA2	1:6:1729:C:O2'	287.01	0.42
1:2:1774:G:N7	77:Q1:4:LYS:NZ	2.63	0.42
1:6:340:U:H2'	1:6:341:A:H8	1.84	0.42
34:SR:274:LEU:HD13	34:SR:313:TRP:CD2	2.54	0.42
62:N6:58:VAL:HG22	62:N6:104:LEU:CD2	2.49	0.42
6:S4:130:GLN:HB2	6:S4:138:TYR:CZ	2.54	0.42
36:1:2971:A:H5''	36:1:2972:G:H5''	2.00	0.42
36:5:2107:A:C6	36:5:2108:C:C4	3.07	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:3:67:G:H2'	37:3:68:C:O4'	2.19	0.42
1:2:147:A:H2'	1:2:148:A:O4'	2.19	0.42
31:D9:31:ILE:HB	31:D9:38:ILE:O	2.19	0.42
1:2:1273:G:N7	1:2:1431:C:H5'	2.35	0.42
76:Q0:89:TYR:CD2	76:Q0:89:TYR:N	3.15	0.42
79:Q3:80:ARG:HE	79:Q3:80:ARG:HB2	2.91	0.42
15:C3:20:ARG:HH11	15:C3:20:ARG:CG	3.92	0.42
38:4:81:U:O2	38:4:82:U:C5	2.72	0.42
1:6:1218:G:O6	1:6:1444:A:H2'	2.19	0.42
43:L6:82:ARG:NH1	69:O3:106:ASN:HB2	4.55	0.42
18:C6:110:THR:HA	18:C6:113:ASP:HB3	3.80	0.42
7:S5:42:LEU:HD21	7:S5:45:LYS:HD2	2.02	0.42
7:S5:184:PHE:CE1	7:S5:185:ARG:HG3	2.54	0.42
28:D6:88:SER:O	28:D6:92:ARG:HG3	2.61	0.42
11:S9:85:VAL:HG12	11:S9:99:LEU:HD11	2.01	0.42
56:N0:81:TYR:HE1	56:N0:90:MET:HE3	2.56	0.42
36:1:1899:G:O2'	36:1:2334:U:O4	2.29	0.42
46:L9:117:PHE:CE1	46:L9:165:CYS:HB3	2.93	0.42
1:2:1530:C:OP1	27:D5:95:HIS:HB3	2.19	0.42
71:O5:10:ARG:NH2	38:8:65:A:O3'	34.13	0.42
36:1:3283:U:H2'	36:1:3284:G:C8	2.54	0.42
46:L9:16:VAL:HG12	46:L9:29:GLY:HA3	2.02	0.42
1:6:1699:G:C2'	1:6:1700:C:H5'	2.49	0.42
22:D0:57:ARG:HG3	22:D0:89:ARG:CZ	2.49	0.42
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	2.01	0.42
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	2.01	0.42
6:S4:187:ARG:NH2	1:6:754:A:N7	375.90	0.42
10:S8:42:ARG:HB3	10:S8:58:LEU:O	2.19	0.42
53:M7:44:ALA:O	53:M7:47:TYR:HB3	2.19	0.42
36:1:2514:U:C6	45:L8:68:ARG:HB3	2.54	0.42
36:1:1220:U:O5'	36:1:1222:G:H5''	2.18	0.42
46:L9:106:LYS:H	46:L9:109:ALA:CB	2.32	0.42
33:E1:127:GLY:C	33:E1:129:GLY:H	2.18	0.42
36:5:238:A:O2'	36:5:239:G:OP1	2.37	0.42
22:D0:28:SER:HB3	22:D0:34:LEU:HG	2.00	0.42
6:S4:86:PHE:CE2	6:S4:102:VAL:HG23	5.19	0.42
37:3:77:G:H3'	56:N0:46:GLN:O	2.19	0.42
36:5:892:U:H2'	36:5:893:C:O4'	2.19	0.42
45:L8:133:LYS:HD2	45:L8:138:HIS:HE1	2.16	0.42
36:1:211:A:H4'	36:1:212:G:OP2	2.19	0.42
36:5:1818:U:H2'	36:5:1819:U:C6	2.52	0.42
1:2:1623:C:H2'	1:2:1624:C:H6	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:C4:16:VAL:O	16:C4:30:VAL:HA	2.19	0.42
38:8:145:U:H2'	38:8:146:U:H6	1.82	0.42
87:7:217:OHX:N4	87:7:226:OHX:N2	2.67	0.42
87:1:4019:OHX:N4	87:1:4057:OHX:N1	2.66	0.42
18:C6:143:ARG:HH12	35:SM:84:LYS:NZ	2.16	0.42
67:O1:79:ARG:HA	67:O1:89:LEU:HD12	2.01	0.42
2:S0:62:ARG:HG3	2:S0:62:ARG:NH1	2.92	0.42
10:S8:168:CYS:HB2	10:S8:184:LEU:HD11	2.13	0.42
36:1:3193:C:H2'	36:1:3194:C:O4'	2.20	0.42
1:6:1031:U:H4'	1:6:1032:G:OP2	2.20	0.42
36:1:1441:G:O6	87:1:3923:OHX:N1	2.53	0.42
1:6:652:G:N2	1:6:683:C:C2	2.87	0.42
1:6:348:U:O4	87:6:2164:OHX:N4	2.51	0.42
1:2:802:G:H21	24:D2:107:SER:HB3	1.84	0.42
69:O3:86:ARG:O	87:O3:202:OHX:N1	2.52	0.42
36:1:1892:G:N7	87:1:4078:OHX:N1	2.67	0.42
17:C5:125:PRO:HG3	20:C8:129:TRP:CH2	2.54	0.42
36:1:2738:A:O2'	65:N9:41:ARG:NH2	2.53	0.42
18:C6:78:VAL:O	18:C6:81:ILE:HG12	2.38	0.42
36:1:1260:A:H1'	36:1:1280:C:H1'	2.01	0.42
18:C6:38:LEU:HA	18:C6:38:LEU:HD23	2.09	0.42
1:2:1756:A:H8	1:2:1756:A:OP2	2.03	0.42
55:M9:52:LYS:HG2	55:M9:52:LYS:O	2.48	0.42
61:N5:133:LEU:HD23	61:N5:133:LEU:HA	1.97	0.42
65:N9:40:ARG:HB3	65:N9:40:ARG:HE	3.40	0.42
49:M3:32:LYS:NZ	36:5:686:G:N7	85.58	0.42
71:O5:38:ARG:HG3	71:O5:39:PRO:HD2	2.46	0.42
28:D6:37:LYS:O	28:D6:38:ARG:NE	3.95	0.42
36:1:1072:G:C4	36:1:1087:G:C2	3.07	0.42
25:D3:100:ASP:OD2	25:D3:142:LYS:NZ	3.09	0.42
8:S6:137:ARG:NH1	1:6:144:U:H5	312.17	0.42
47:M0:48:LEU:O	47:M0:139:ARG:HA	2.19	0.42
3:S1:143:THR:HB	3:S1:205:PHE:CE1	2.54	0.42
1:2:212:U:OP2	87:2:2095:OHX:N2	2.51	0.42
45:L8:75:ILE:C	45:L8:77:GLN:H	2.22	0.42
1:6:1202:A:OP1	87:6:2131:OHX:N1	2.52	0.42
19:C7:109:LEU:HG	19:C7:113:LEU:HD12	6.14	0.42
42:L5:150:LEU:HD23	42:L5:150:LEU:HA	1.66	0.42
36:5:2772:C:H1'	36:5:2773:C:OP2	2.18	0.42
50:M4:92:GLU:CD	50:M4:92:GLU:N	2.71	0.42
36:5:1815:U:O2'	36:5:1816:A:P	2.77	0.42
49:M3:174:ARG:CB	72:O6:9:ILE:HD11	3.85	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:169:THR:CG2	40:L3:171:LEU:HG	2.88	0.42
1:6:235:G:H2'	1:6:236:A:C8	2.54	0.42
39:L2:212:GLY:O	39:L2:213:GLY:C	3.41	0.42
36:1:2926:A:C2'	36:1:2927:C:H5'	2.49	0.42
87:D9:102:OHX:N4	87:6:2129:OHX:N6	406.28	0.42
22:D0:43:LYS:HA	22:D0:43:LYS:HD2	1.77	0.42
14:C2:41:LEU:HA	14:C2:41:LEU:HD23	1.80	0.42
87:1:3975:OHX:N3	87:1:4155:OHX:N6	2.68	0.42
1:6:913:G:H3'	1:6:914:G:C5'	2.49	0.42
11:S9:78:ARG:HG3	11:S9:79:ARG:N	2.61	0.42
87:7:218:OHX:N3	87:7:224:OHX:N6	2.68	0.42
4:S2:178:ILE:HB	4:S2:185:LYS:HG2	3.29	0.42
4:S2:185:LYS:O	4:S2:189:GLN:HB2	2.59	0.42
50:M4:3:THR:O	50:M4:3:THR:OG1	2.32	0.42
17:C5:129:GLY:HA3	35:SM:74:LYS:HG2	3.42	0.42
7:S5:32:GLU:H	7:S5:32:GLU:HG2	2.82	0.42
36:1:956:U:OP1	87:1:4125:OHX:N1	2.52	0.42
36:1:185:C:H2'	36:1:186:U:C6	2.54	0.42
36:5:3066:U:O4	87:5:4105:OHX:N4	2.52	0.42
6:S4:155:LYS:NZ	1:6:244:A:OP1	345.59	0.42
52:M6:148:LYS:HE2	36:5:3135:U:OP1	257.78	0.42
36:1:2948:C:H2'	36:1:2949:U:O4'	2.19	0.42
1:6:1078:C:H2'	1:6:1079:U:C6	2.54	0.42
36:1:1915:A:H2'	36:1:1916:U:C6	2.55	0.42
36:1:3218:A:H5''	36:1:3219:G:C5	2.54	0.42
42:L5:286:VAL:O	42:L5:290:ILE:HG12	2.19	0.42
70:O4:58:ARG:CG	70:O4:58:ARG:HH11	2.40	0.42
70:O4:58:ARG:HG2	70:O4:58:ARG:HH11	1.90	0.42
59:N3:104:ASN:HB2	59:N3:105:PRO:HD2	2.33	0.42
25:D3:22:ASN:OD1	1:6:1108:G:N1	334.18	0.42
36:1:2218:G:H2'	36:1:2219:A:H8	1.83	0.42
51:M5:188:ARG:HH11	51:M5:188:ARG:HD3	1.70	0.42
38:4:85:G:H3'	38:4:85:G:H8	1.83	0.42
5:S3:164:VAL:HG12	5:S3:165:ASN:N	2.34	0.42
65:N9:50:THR:HG22	36:5:1073:U:C1'	206.94	0.42
36:1:1278:A:HO2'	36:1:1279:C:H6	1.60	0.42
9:S7:125:ILE:O	9:S7:129:LEU:N	2.71	0.42
15:C3:33:VAL:O	15:C3:37:ILE:HG12	4.10	0.42
34:SR:160:GLU:CB	34:SR:161:LYS:HB2	2.49	0.42
42:L5:38:THR:O	42:L5:48:LYS:HE3	4.86	0.42
54:M8:177:GLY:O	54:M8:186:VAL:N	2.33	0.42
53:M7:108:ASP:OD2	53:M7:110:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
74:O8:54:LEU:HD12	74:O8:55:VAL:H	4.09	0.42
3:S1:101:HIS:HA	3:S1:217:LEU:HD22	2.01	0.42
1:2:832:U:H2'	1:2:833:U:H5''	2.02	0.42
3:S1:62:LYS:O	3:S1:88:VAL:HB	2.37	0.42
56:N0:71:LYS:NZ	36:5:563:U:P	343.53	0.42
42:L5:150:LEU:HD12	48:M1:143:ARG:HG3	2.01	0.42
52:M6:54:TYR:O	52:M6:57:PHE:HB3	2.20	0.42
52:M6:62:THR:HA	36:5:1306:G:C6	233.90	0.42
36:1:1888:U:OP1	40:L3:247:ARG:HD3	2.19	0.42
52:M6:179:ALA:HA	52:M6:182:ASN:HD22	3.34	0.42
36:5:1235:U:C4'	36:5:1236:G:H5'	2.47	0.42
79:Q3:50:GLY:O	79:Q3:51:ALA:HB3	2.23	0.42
15:C3:54:LEU:HB3	15:C3:60:VAL:CG1	3.32	0.42
1:2:46:A:N6	1:2:433:C:H4'	2.35	0.42
49:M3:54:LEU:HG	49:M3:119:TYR:CD1	2.54	0.42
32:E0:51:ASN:HB3	32:E0:53:LYS:HG2	5.02	0.42
87:2:2094:OHX:N4	87:2:2108:OHX:N1	2.67	0.42
36:5:419:G:O3'	36:5:420:G:OP2	2.34	0.42
63:N7:54:THR:O	63:N7:57:HIS:HB2	2.19	0.42
44:L7:207:LEU:O	36:5:1334:U:H5'	241.02	0.42
36:1:1722:U:OP1	55:M9:100:ARG:NH1	2.50	0.42
36:1:2407:C:H2'	36:1:2408:U:C6	2.54	0.42
20:C8:123:ARG:HG3	20:C8:133:VAL:CG2	2.48	0.42
22:D0:55:PRO:HA	22:D0:91:ILE:HG12	2.01	0.42
87:1:4055:OHX:N6	87:1:4163:OHX:N3	2.67	0.42
68:O2:123:LYS:O	68:O2:126:LEU:HB2	2.19	0.42
36:1:1560:G:N1	36:1:1561:G:C6	2.87	0.42
6:S4:131:LEU:HD12	1:6:251:A:C2	327.42	0.42
78:Q2:61:LYS:H	78:Q2:61:LYS:HG2	4.33	0.42
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.51	0.42
36:1:2582:C:H2'	36:1:2583:C:C6	2.54	0.42
36:1:2217:U:H2'	36:1:2218:G:H8	1.84	0.42
13:C1:78:THR:HG22	13:C1:84:ILE:HG22	2.01	0.42
67:O1:48:ASP:HB3	67:O1:90:PHE:HB2	2.02	0.42
48:M1:173:ASP:HB3	48:M1:174:LYS:H	1.69	0.42
36:5:1617:G:H2'	36:5:1618:G:O4'	2.20	0.42
2:S0:57:LEU:O	2:S0:60:ALA:HB3	2.20	0.42
36:1:1504:A:C5	36:1:1505:C:C5	3.08	0.42
72:O6:60:LEU:HD22	72:O6:68:ARG:NE	2.35	0.42
1:6:1263:G:C2	1:6:1264:G:H1'	2.54	0.42
5:S3:191:ASP:OD2	5:S3:193:ALA:HB3	2.54	0.42
44:L7:161:VAL:HA	44:L7:162:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:S7:136:VAL:HG12	9:S7:153:LEU:O	5.66	0.42
1:6:739:G:H2'	1:6:740:A:O4'	2.20	0.42
7:S5:190:ILE:HG12	7:S5:190:ILE:H	3.98	0.42
1:2:387:A:OP2	1:2:387:A:H8	2.02	0.42
2:S0:119:ARG:HH11	2:S0:119:ARG:HB3	1.83	0.42
67:O1:20:LEU:HA	67:O1:20:LEU:HD23	1.84	0.42
51:M5:22:LEU:HD12	51:M5:22:LEU:HA	1.96	0.42
43:L6:17:ALA:O	36:5:592:A:H5'	213.02	0.42
9:S7:185:ILE:HG22	9:S7:186:PRO:CD	2.49	0.42
34:SR:39:ASP:O	34:SR:40:LYS:HB2	2.19	0.42
36:5:2358:A:H2'	36:5:2359:C:O4'	2.19	0.42
40:L3:41:VAL:HG11	40:L3:194:TRP:CG	2.54	0.42
36:5:2943:G:H2'	36:5:2944:U:O4'	2.19	0.42
49:M3:93:ILE:HA	49:M3:93:ILE:HD13	1.76	0.42
17:C5:65:LEU:O	87:C5:201:OHX:N1	2.53	0.42
36:1:2184:U:OP1	39:L2:209:HIS:HE1	2.02	0.42
2:S0:163:ASN:C	2:S0:165:ARG:H	2.35	0.42
36:1:830:A:O2'	36:1:1866:C:H2'	2.20	0.42
40:L3:128:LYS:HB3	40:L3:128:LYS:HE2	1.84	0.42
1:2:930:A:H2'	3:S1:114:VAL:HG11	2.01	0.42
42:L5:269:SER:O	42:L5:270:LYS:HB2	4.67	0.42
34:SR:32:LEU:HA	34:SR:45:TRP:O	2.66	0.42
47:M0:36:LEU:HD21	47:M0:69:ARG:HD2	2.02	0.42
36:1:73:C:O2	49:M3:59:ARG:HD3	2.18	0.42
22:D0:35:GLU:OE1	22:D0:89:ARG:NH1	7.18	0.42
51:M5:172:ARG:HH11	36:5:30:G:P	107.94	0.42
42:L5:78:ALA:HB3	42:L5:105:ILE:HG12	2.02	0.42
42:L5:41:LYS:HD2	42:L5:41:LYS:HA	1.37	0.42
48:M1:24:GLY:HA2	48:M1:65:ILE:HG23	3.29	0.42
3:S1:109:LYS:HE3	3:S1:113:MET:HE2	2.00	0.42
36:1:3242:G:H21	36:1:3245:A:H5''	1.84	0.42
25:D3:13:ARG:O	25:D3:17:VAL:HG23	2.29	0.42
16:C4:35:GLY:HA3	1:6:919:A:H5'	269.76	0.42
39:L2:213:GLY:CA	36:5:2967:A:H5''	205.86	0.42
48:M1:92:ARG:NH2	48:M1:94:ARG:HD2	7.33	0.42
36:1:3330:A:H5''	36:1:3330:A:C8	2.52	0.42
6:S4:89:VAL:O	6:S4:99:PHE:O	4.67	0.42
87:1:4052:OHX:N2	87:1:4160:OHX:N1	2.68	0.42
36:1:1295:G:OP1	56:N0:84:ARG:HG3	2.19	0.42
78:Q2:10:THR:HA	78:Q2:20:HIS:CD2	2.75	0.42
36:1:3197:G:O2'	36:1:3198:U:H3'	2.19	0.42
61:N5:92:LYS:HD3	61:N5:110:VAL:O	4.39	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.35	0.42
36:1:1599:G:OP1	87:1:4084:OHX:N5	2.52	0.42
36:1:1722:U:H1'	55:M9:96:ILE:HG12	2.01	0.42
10:S8:166:TYR:HB3	10:S8:184:LEU:HD22	2.01	0.42
36:5:507:U:H2'	36:5:508:U:C6	2.55	0.42
36:5:3378:C:H2'	36:5:3379:C:C6	2.54	0.42
36:1:38:U:H4'	64:N8:32:ARG:HD2	2.01	0.42
36:1:138:U:H2'	36:1:139:G:H8	1.85	0.42
5:S3:202:LEU:HA	5:S3:203:PRO:HD2	2.84	0.42
36:1:2166:A:H2'	36:1:2167:A:C8	2.55	0.42
43:L6:170:LYS:HB3	43:L6:172:HIS:CE1	2.53	0.42
52:M6:192:LYS:HG2	52:M6:192:LYS:H	1.63	0.42
1:2:1590:G:OP1	21:C9:91:TYR:HB2	2.20	0.42
2:S0:63:ILE:HG12	23:D1:36:VAL:HG22	2.01	0.42
37:3:31:U:O2'	37:3:32:U:H5'	2.20	0.42
39:L2:230:VAL:HG21	36:5:2424:A:N1	183.75	0.42
36:5:426:G:H2'	36:5:427:C:C6	2.55	0.42
52:M6:122:GLN:NE2	36:5:1181:U:H2'	273.87	0.42
36:5:2977:G:OP1	87:5:4153:OHX:N4	2.51	0.42
1:6:1095:U:O4	87:6:2181:OHX:N2	2.53	0.42
33:E1:126:CYS:O	33:E1:128:ALA:N	2.52	0.42
36:5:811:U:H2'	36:5:812:G:C8	2.54	0.42
48:M1:9:MET:O	48:M1:11:ASP:N	3.73	0.42
1:6:1620:C:H2'	1:6:1621:U:H6	1.85	0.42
36:1:1701:C:H2'	36:1:1702:U:O4'	2.20	0.42
36:5:3085:G:O3'	36:5:3086:A:H8	2.02	0.42
36:1:1461:A:O2'	36:1:1462:A:H5'	2.19	0.42
36:1:2574:G:H2'	36:1:2575:G:H8	1.83	0.42
28:D6:90:GLU:CD	28:D6:90:GLU:H	3.95	0.42
4:S2:246:GLU:HG2	4:S2:246:GLU:H	1.51	0.42
17:C5:83:MET:HE2	17:C5:83:MET:HB2	2.27	0.42
7:S5:35:GLN:HB3	7:S5:36:ALA:H	1.88	0.42
36:1:981:U:HO2'	36:1:982:C:P	2.42	0.42
1:6:577:G:H3'	1:6:577:G:H8	1.83	0.42
11:S9:38:ASN:OD1	11:S9:41:GLU:HG3	4.66	0.42
6:S4:12:LEU:O	1:6:756:A:H1'	367.40	0.42
37:3:26:C:H2'	37:3:27:A:O4'	2.19	0.42
39:L2:116:VAL:HG22	39:L2:126:LEU:HB2	2.02	0.42
34:SR:161:LYS:O	34:SR:161:LYS:CG	2.56	0.42
78:Q2:71:ARG:HE	78:Q2:80:ARG:NH1	2.18	0.42
22:D0:20:ILE:O	22:D0:94:GLU:HA	5.45	0.42
36:1:944:C:H4'	68:O2:33:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:16:G:H2'	1:2:17:C:C6	2.54	0.42
49:M3:64:LYS:HG3	64:N8:69:TRP:CD2	2.54	0.42
51:M5:96:ARG:NH2	51:M5:104:GLU:OE1	3.39	0.42
75:O9:43:ASN:OD1	75:O9:45:ARG:HB2	3.48	0.42
52:M6:72:HIS:HB2	52:M6:74:ARG:NH1	2.34	0.42
62:N6:108:LYS:HD3	62:N6:108:LYS:HA	4.72	0.42
1:2:687:G:H5'	24:D2:119:LYS:HD2	2.02	0.42
30:D8:11:LYS:O	30:D8:30:VAL:HA	2.37	0.42
13:C1:22:ASN:HA	13:C1:23:PRO:HD3	1.91	0.42
1:2:1735:U:O4	87:2:2135:OHX:N2	2.52	0.42
15:C3:26:PHE:O	15:C3:28:LEU:HG	6.86	0.42
36:5:1329:U:HO2'	36:5:1330:A:P	2.43	0.42
72:O6:35:ASN:HA	72:O6:38:LYS:HB2	2.70	0.42
1:2:1236:A:H2'	1:2:1237:G:C8	2.55	0.42
42:L5:216:GLU:HA	42:L5:219:PHE:HB3	2.02	0.42
13:C1:69:LYS:O	13:C1:70:ILE:HD12	2.19	0.42
1:2:901:G:H22	16:C4:54:GLU:CD	2.21	0.42
6:S4:66:MET:HB3	1:6:454:U:C4	376.58	0.42
1:2:1366:U:O4	87:2:2108:OHX:N6	2.52	0.42
36:5:174:C:N4	36:5:244:G:H1	2.16	0.42
14:C2:59:LEU:HB3	14:C2:123:VAL:HB	2.48	0.42
44:L7:24:GLU:O	44:L7:26:VAL:N	2.39	0.42
87:1:3975:OHX:N3	87:1:4155:OHX:N4	2.67	0.42
36:5:1456:A:H4'	36:5:1457:U:O5'	2.19	0.42
47:M0:208:ASN:HA	47:M0:211:ARG:HD2	2.86	0.42
52:M6:167:TYR:CD1	52:M6:167:TYR:C	3.20	0.42
36:1:3279:A:C6	69:O3:54:ARG:NE	2.88	0.42
42:L5:279:LYS:HG2	42:L5:282:ARG:NH2	2.35	0.42
59:N3:45:ARG:HD2	59:N3:46:LEU:H	2.02	0.42
45:L8:36:ILE:O	45:L8:38:GLN:N	2.52	0.42
43:L6:55:LEU:HD11	43:L6:66:SER:HB2	2.68	0.42
41:L4:346:LYS:HA	41:L4:346:LYS:HD2	4.82	0.42
1:2:422:G:N7	87:2:2107:OHX:N5	2.67	0.42
73:O7:11:ARG:HG2	36:5:817:A:O2'	148.79	0.42
13:C1:40:LEU:HD22	1:6:246:G:N2	325.97	0.42
3:S1:106:THR:HA	16:C4:116:GLU:OE1	2.82	0.42
36:1:358:G:N2	36:1:361:A:OP2	2.52	0.42
8:S6:126:ASP:CG	8:S6:127:THR:N	3.55	0.42
36:1:2970:C:H4'	36:1:2971:A:N1	2.35	0.42
1:6:1417:A:H2'	1:6:1418:G:O4'	2.20	0.42
13:C1:3:THR:HG22	13:C1:4:GLU:H	2.33	0.42
1:2:1150:G:H2'	1:2:1768:G:H21	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:S9:63:ASP:O	11:S9:66:ASP:HB2	3.08	0.42
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	2.01	0.42
66:O0:32:LYS:O	66:O0:36:GLN:HG3	2.19	0.42
58:N2:37:LEU:O	58:N2:41:ILE:HG13	2.20	0.42
36:5:192:C:H2'	36:5:193:C:C6	2.54	0.42
36:5:2830:G:H1'	36:5:2861:U:C2	2.54	0.42
1:6:108:A:H2'	1:6:109:G:C8	2.55	0.42
36:1:3024:A:C6	36:1:3032:A:C8	3.08	0.42
60:N4:47:ARG:HB2	60:N4:47:ARG:HE	1.68	0.42
36:1:2887:A:H2'	36:1:2887:A:N3	2.34	0.42
36:1:2397:A:OP1	36:1:2398:A:H4'	2.20	0.42
1:2:1636:C:C2	1:2:1638:G:C5	3.07	0.42
39:L2:180:LEU:HD23	39:L2:180:LEU:HA	1.86	0.42
26:D4:6:THR:HB	26:D4:28:LEU:HD13	4.18	0.42
55:M9:28:GLU:O	55:M9:32:ILE:HG13	2.38	0.42
1:2:1253:U:H4'	33:E1:143:LYS:CA	2.50	0.42
36:1:1369:A:H2'	36:1:1370:G:O4'	2.19	0.42
40:L3:188:ILE:O	40:L3:192:VAL:HG12	2.20	0.42
1:2:702:G:C6	1:2:737:A:C6	3.08	0.42
36:5:3279:A:O2'	36:5:3280:U:H5'	2.20	0.42
47:M0:142:ASP:C	47:M0:144:ASN:H	2.22	0.42
11:S9:3:ARG:HH21	11:S9:3:ARG:CB	4.14	0.42
3:S1:143:THR:HB	3:S1:205:PHE:HE1	1.85	0.42
3:S1:126:THR:HA	3:S1:135:LEU:O	2.45	0.42
3:S1:126:THR:HA	3:S1:136:ARG:HA	2.31	0.42
65:N9:23:LYS:HA	65:N9:23:LYS:HD2	1.86	0.42
1:2:161:U:OP2	8:S6:87:ARG:NH2	2.52	0.42
27:D5:43:ASP:H	27:D5:46:LYS:HD2	1.83	0.42
76:Q0:99:CYS:HB2	76:Q0:114:LYS:HD3	2.26	0.42
63:N7:135:ARG:HG2	63:N7:135:ARG:HH21	1.85	0.42
66:O0:12:GLN:O	66:O0:16:LEU:HG	4.82	0.42
15:C3:91:LEU:HD23	15:C3:91:LEU:HA	1.86	0.42
40:L3:114:VAL:HG22	40:L3:163:HIS:CE1	2.78	0.42
36:1:1352:A:H1'	36:1:1353:U:O5'	2.20	0.42
46:L9:103:ILE:HG13	46:L9:136:PHE:CZ	2.54	0.42
36:1:2655:U:H2'	78:Q2:3:ASN:O	2.20	0.42
1:2:1358:G:H2'	1:2:1359:C:H6	1.84	0.42
46:L9:109:ALA:O	46:L9:110:LYS:HB2	2.23	0.42
67:O1:24:SER:HB2	67:O1:27:LYS:HD2	2.73	0.42
57:N1:100:LYS:C	57:N1:102:ARG:N	2.72	0.42
79:Q3:49:ARG:HD3	79:Q3:51:ALA:N	2.35	0.42
1:2:1498:G:OP2	21:C9:74:GLY:HA3	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:75:TYR:CZ	47:M0:79:VAL:HG21	2.54	0.42
42:L5:160:PHE:HA	42:L5:163:LEU:HB3	2.33	0.42
33:E1:137:ASP:HB2	33:E1:138:ARG:H	1.65	0.42
56:N0:115:ARG:NH2	36:5:1320:C:O2	289.80	0.42
34:SR:203:THR:HG21	34:SR:244:ALA:N	2.35	0.42
47:M0:213:PHE:N	47:M0:214:PRO:HD3	2.35	0.42
49:M3:16:LYS:HE3	36:5:49:A:OP1	134.02	0.42
44:L7:27:ALA:O	44:L7:31:ALA:N	2.53	0.42
1:6:1175:U:H2'	1:6:1176:G:H8	1.84	0.42
43:L6:65:ILE:HA	43:L6:65:ILE:HD12	4.38	0.42
36:1:1131:G:C2	36:1:2373:A:C4	3.08	0.42
36:1:2565:U:H2'	36:1:2566:C:H6	1.85	0.42
36:1:706:A:H4'	36:1:781:G:O2'	2.20	0.42
64:N8:110:GLY:O	64:N8:128:ARG:O	5.08	0.42
36:5:2239:G:N7	87:5:4192:OHX:N5	2.68	0.42
42:L5:261:THR:H	42:L5:264:GLN:CD	2.53	0.42
43:L6:55:LEU:HA	43:L6:55:LEU:HD23	1.85	0.42
42:L5:46:THR:HA	42:L5:47:PRO:HD2	1.82	0.42
1:2:425:A:C8	1:2:425:A:H5'	2.55	0.42
1:2:1580:C:H2'	1:2:1581:C:O4'	2.19	0.42
11:S9:178:ALA:O	11:S9:181:ALA:HB3	4.52	0.42
14:C2:70:ASN:O	14:C2:74:LEU:HB2	2.79	0.42
1:6:1138:A:H2'	1:6:1139:A:C8	2.55	0.42
36:5:3299:A:H61	36:5:3315:G:H1	1.67	0.42
36:5:2427:U:H2'	36:5:2428:U:C6	2.54	0.42
37:7:11:A:O2'	37:7:13:A:H2'	2.20	0.42
36:5:1008:U:H2'	36:5:1009:A:O4'	2.19	0.42
9:S7:155:ASP:OD2	9:S7:156:SER:N	2.73	0.42
25:D3:135:LEU:HD23	25:D3:140:LYS:O	2.92	0.42
53:M7:114:VAL:HA	53:M7:150:VAL:HG12	2.40	0.42
19:C7:99:VAL:CB	19:C7:118:PRO:HB2	2.50	0.42
1:2:603:U:H2'	1:2:604:A:H8	1.84	0.42
1:2:246:G:C6	1:2:247:A:C6	3.07	0.42
36:5:1752:A:OP2	87:5:4081:OHX:N6	2.53	0.42
1:6:1000:C:N4	1:6:1003:A:OP2	2.48	0.42
7:S5:194:LEU:HD23	7:S5:194:LEU:HA	1.83	0.42
54:M8:54:LEU:HD23	54:M8:54:LEU:HA	1.76	0.42
65:N9:39:PHE:CD2	65:N9:39:PHE:C	3.06	0.42
1:2:107:C:H1'	1:2:362:G:O2'	2.19	0.42
15:C3:40:TYR:HB3	15:C3:45:LEU:HD12	2.90	0.42
36:5:1049:C:H2'	36:5:1050:U:C6	2.55	0.42
36:1:578:A:H5''	36:1:579:G:O5'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1941:C:O2'	36:1:3344:A:N6	2.49	0.42
44:L7:217:PRO:HA	87:5:4003:OHX:N5	263.55	0.42
63:N7:17:ARG:HG3	36:5:1639:C:N4	197.69	0.42
36:1:2875:U:H2'	36:1:2876:C:O5'	2.20	0.42
79:Q3:10:ILE:HD12	36:5:837:A:H1'	230.23	0.42
56:N0:80:ARG:HG2	56:N0:81:TYR:N	2.59	0.42
64:N8:9:ARG:HE	64:N8:9:ARG:HB3	2.07	0.42
1:2:1433:G:C8	31:D9:41:GLN:HG2	2.55	0.42
39:L2:65:ASP:HA	39:L2:66:PRO:HD3	1.98	0.42
56:N0:12:ARG:HG3	56:N0:13:ARG:O	2.22	0.42
3:S1:133:TYR:CE2	3:S1:181:LEU:HD12	4.41	0.42
13:C1:109:VAL:HG11	13:C1:125:VAL:HG11	2.02	0.42
36:1:1362:G:O2'	44:L7:159:GLN:HA	2.20	0.42
3:S1:126:THR:HG22	3:S1:136:ARG:HE	2.07	0.42
59:N3:17:LEU:HD21	59:N3:98:ASN:CG	2.39	0.42
3:S1:39:GLU:HB3	3:S1:73:LEU:O	2.19	0.42
20:C8:82:PRO:HG2	20:C8:85:PHE:HB2	2.93	0.42
64:N8:27:LYS:HG2	36:5:936:A:OP2	163.18	0.42
1:6:830:U:C4	1:6:831:U:C4	3.07	0.42
40:L3:116:ARG:NH2	40:L3:174:LYS:HD3	2.87	0.42
3:S1:81:PHE:HB2	3:S1:82:ARG:H	1.45	0.42
3:S1:65:VAL:HG13	1:6:920:U:H5''	264.29	0.42
75:O9:21:ARG:HD2	38:8:52:A:O4'	85.82	0.42
87:2:2061:OHX:N4	87:D9:102:OHX:N6	2.68	0.42
1:2:694:U:H5	9:S7:96:ARG:O	2.03	0.42
9:S7:96:ARG:CZ	9:S7:124:LYS:HB3	2.50	0.42
15:C3:98:VAL:HG22	1:6:952:A:H5'	293.49	0.42
36:5:1863:G:N1	36:5:1866:C:OP2	2.40	0.42
49:M3:46:ILE:HG23	49:M3:46:ILE:HD12	4.02	0.42
74:O8:58:ASP:HB3	74:O8:61:LYS:HG3	4.09	0.42
20:C8:47:CYS:HB3	20:C8:54:LEU:CD1	2.48	0.42
39:L2:8:GLN:HA	36:5:2163:C:H4'	184.65	0.42
71:O5:89:ARG:HD2	38:8:38:U:O4	68.08	0.42
1:2:47:A:N1	1:2:386:G:H1'	2.35	0.42
43:L6:71:VAL:HG11	43:L6:159:LEU:HB3	2.02	0.42
56:N0:129:ILE:HG23	56:N0:134:ASP:HB2	2.80	0.42
48:M1:95:ASN:HB3	48:M1:103:GLY:O	2.75	0.42
36:1:608:A:C4	43:L6:22:ARG:NH1	2.88	0.42
1:2:1113:A:H4'	1:2:1114:G:OP1	2.20	0.42
6:S4:71:LYS:O	6:S4:90:ILE:HA	3.08	0.42
21:C9:118:PRO:O	21:C9:120:GLY:N	2.60	0.42
1:2:1039:A:HO2'	1:2:1040:G:P	2.42	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:L3:252:ILE:HA	40:L3:252:ILE:HD12	1.87	0.42
5:S3:217:ILE:O	5:S3:218:LEU:HB2	2.56	0.42
34:SR:54:PHE:CE2	34:SR:312:VAL:HG11	3.82	0.42
15:C3:128:TYR:O	15:C3:131:THR:HB	2.20	0.42
64:N8:36:GLY:HA3	64:N8:40:HIS:CE1	2.74	0.42
3:S1:190:PRO:HG2	3:S1:192:VAL:HG22	3.49	0.42
64:N8:103:ASP:HA	64:N8:126:LYS:HB2	2.31	0.42
42:L5:265:TYR:HE1	37:7:121:U:H5''	317.42	0.42
37:3:71:G:H2'	37:3:72:A:C8	2.54	0.42
40:L3:107:ALA:HA	40:L3:199:PHE:CD2	2.54	0.42
3:S1:117:TRP:HB3	3:S1:153:HIS:HA	2.02	0.42
1:2:240:U:H1'	1:2:241:U:P	2.60	0.42
37:7:25:G:H2'	37:7:26:C:O4'	2.20	0.42
69:O3:57:LYS:HB3	69:O3:57:LYS:HE3	2.31	0.42
63:N7:64:LYS:HB2	63:N7:64:LYS:HE2	3.85	0.42
36:1:1651:U:H5''	39:L2:71:LEU:HD22	2.02	0.42
59:N3:54:LEU:HD21	59:N3:119:GLY:HA3	2.42	0.42
75:O9:2:ALA:N	75:O9:5:LYS:HG2	2.34	0.42
53:M7:32:THR:O	53:M7:35:ALA:HB3	3.17	0.42
36:1:1556:C:N4	36:1:2169:G:C8	2.88	0.42
44:L7:158:LYS:HD2	44:L7:159:GLN:CA	4.79	0.42
3:S1:217:LEU:HD12	3:S1:217:LEU:HA	1.93	0.42
1:6:1636:C:C2	1:6:1765:A:N6	2.88	0.42
64:N8:115:LYS:HA	36:5:715:A:H3'	149.50	0.42
3:S1:69:CYS:SG	3:S1:71:ALA:HB3	2.60	0.42
68:O2:33:ARG:NH2	36:5:1407:A:O3'	162.43	0.42
17:C5:108:ARG:HH21	20:C8:119:ILE:HD12	4.21	0.42
6:S4:159:THR:HG23	6:S4:173:ILE:HD13	2.02	0.42
51:M5:172:ARG:HD2	36:5:30:G:P	110.37	0.42
64:N8:94:ALA:HA	64:N8:122:PRO:HD2	2.02	0.42
3:S1:140:ILE:HG21	3:S1:213:ARG:HD3	2.02	0.42
64:N8:49:HIS:N	64:N8:50:PRO:HD3	2.94	0.42
53:M7:67:ILE:HA	53:M7:67:ILE:HD12	1.77	0.42
70:O4:102:LYS:HB3	70:O4:103:LYS:HE3	3.08	0.42
30:D8:25:VAL:HG13	30:D8:44:VAL:O	2.88	0.42
53:M7:48:LEU:HB3	53:M7:88:VAL:HG13	2.01	0.42
87:1:4133:OHX:N6	87:1:4191:OHX:N2	2.67	0.42
47:M0:156:ARG:HG2	47:M0:163:GLN:CG	2.70	0.42
1:2:887:A:C1'	16:C4:122:PRO:HB3	2.49	0.42
40:L3:328:ILE:HG21	40:L3:328:ILE:HD13	1.83	0.42
51:M5:125:SER:HB3	36:5:2433:U:H1'	161.49	0.42
6:S4:86:PHE:HE1	6:S4:226:PHE:CD2	2.38	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:647:G:H1	1:6:687:G:N2	2.18	0.42
9:S7:124:LYS:HD3	9:S7:124:LYS:HA	1.94	0.42
30:D8:64:ARG:HB3	30:D8:65:ARG:H	1.65	0.42
30:D8:65:ARG:HG2	30:D8:66:LEU:N	3.49	0.42
33:E1:83:LYS:O	33:E1:84:VAL:HG22	4.77	0.42
36:1:1831:U:OP2	61:N5:92:LYS:HD3	2.20	0.42
36:1:806:A:C5	36:1:936:A:C2	3.08	0.42
68:O2:41:VAL:HG22	68:O2:41:VAL:H	1.57	0.42
6:S4:57:ASN:HB2	6:S4:60:GLU:H	2.00	0.42
41:L4:208:VAL:HA	41:L4:228:ALA:O	2.43	0.42
1:2:717:C:H42	1:2:720:G:H22	1.68	0.42
74:O8:12:LEU:HA	74:O8:15:THR:HG23	3.26	0.42
36:1:2751:G:OP1	57:N1:50:LYS:HE2	2.20	0.42
87:1:4067:OHX:N1	87:1:4114:OHX:N4	2.68	0.42
1:2:882:U:H2'	1:2:883:C:C6	2.55	0.42
23:D1:36:VAL:HG11	23:D1:78:LEU:HG	4.70	0.42
55:M9:178:ALA:HA	55:M9:181:ARG:HB3	2.02	0.42
40:L3:323:MET:HE2	40:L3:356:LEU:HD11	2.45	0.42
40:L3:358:TRP:CZ2	40:L3:360:ASP:HA	2.54	0.42
40:L3:160:VAL:O	40:L3:180:GLU:HA	2.20	0.42
5:S3:195:SER:HB2	5:S3:200:LYS:HG2	5.61	0.42
15:C3:87:ASP:OD2	15:C3:88:LEU:N	2.53	0.42
62:N6:90:VAL:C	62:N6:92:GLY:H	2.34	0.42
1:6:817:A:H2'	1:6:818:C:C6	2.54	0.42
41:L4:162:THR:HA	41:L4:218:ALA:O	2.19	0.42
28:D6:74:CYS:O	28:D6:75:VAL:HB	2.19	0.42
45:L8:109:LEU:HA	45:L8:109:LEU:HD22	2.52	0.42
71:O5:9:LEU:HD23	71:O5:9:LEU:HA	1.91	0.42
34:SR:155:ARG:HD3	34:SR:155:ARG:HA	1.83	0.42
36:5:687:U:O2'	36:5:688:G:H5'	2.20	0.42
60:N4:9:SER:HB2	60:N4:51:TRP:CZ3	2.54	0.42
7:S5:89:ILE:HG13	7:S5:89:ILE:H	1.57	0.41
1:2:1553:G:O6	17:C5:43:ARG:HD3	2.20	0.41
34:SR:161:LYS:C	34:SR:163:ASP:N	2.72	0.41
36:5:911:C:O2	36:5:917:A:N1	2.53	0.41
53:M7:69:ARG:HD2	36:5:3308:C:O2	185.75	0.41
1:2:1682:U:O2'	1:2:1683:C:H5'	2.20	0.41
87:1:4194:OHX:N4	43:L6:129:GLU:HA	2.35	0.41
27:D5:41:ILE:HG13	27:D5:42:LEU:CD1	2.50	0.41
36:1:3106:A:H2'	36:1:3107:U:O4'	2.20	0.41
51:M5:172:ARG:CZ	51:M5:174:ILE:HD11	2.49	0.41
62:N6:43:TYR:C	62:N6:45:ILE:HG22	4.94	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
64:N8:94:ALA:CA	64:N8:122:PRO:HD2	2.50	0.41
48:M1:82:ARG:HB2	48:M1:82:ARG:HE	1.69	0.41
36:5:3286:G:H2'	36:5:3287:U:H6	1.85	0.41
9:S7:60:ILE:HD12	9:S7:92:PHE:CE2	2.55	0.41
52:M6:108:ILE:HG12	52:M6:108:ILE:O	4.76	0.41
35:SM:77:THR:O	35:SM:80:ALA:N	3.78	0.41
79:Q3:56:THR:HG22	79:Q3:63:THR:CG2	2.49	0.41
1:6:1756:A:H2'	1:6:1757:G:H8	1.85	0.41
87:1:4133:OHX:N5	87:1:4191:OHX:N2	2.67	0.41
42:L5:148:ILE:HA	42:L5:148:ILE:HD12	4.42	0.41
41:L4:20:LEU:HA	41:L4:21:PRO:HD3	1.91	0.41
21:C9:18:TYR:CZ	21:C9:22:LEU:HD21	2.84	0.41
1:6:138:A:H2'	1:6:139:C:H5'	2.01	0.41
36:1:2586:G:C5	45:L8:241:LYS:HB2	2.55	0.41
36:5:2683:U:H2'	36:5:2684:C:H6	1.82	0.41
36:1:1934:G:N7	87:1:3883:OHX:N2	2.68	0.41
36:5:90:C:H2'	36:5:91:G:H5'	2.02	0.41
38:8:79:A:H3'	38:8:80:A:C8	2.54	0.41
1:6:486:G:H4'	1:6:486:G:OP1	2.18	0.41
36:1:943:U:H3'	64:N8:13:GLY:HA2	2.02	0.41
87:2:2094:OHX:N4	87:2:2108:OHX:N2	2.68	0.41
50:M4:32:LEU:HD11	50:M4:94:TRP:CD1	2.55	0.41
20:C8:127:HIS:CD2	20:C8:133:VAL:HG11	3.54	0.41
34:SR:116:ASP:OD1	34:SR:118:LYS:HB3	3.35	0.41
59:N3:11:PHE:CZ	59:N3:88:ARG:HD2	3.83	0.41
1:2:763:G:C6	1:2:764:U:C4	3.08	0.41
36:1:3279:A:C6	36:1:3280:U:C4	3.08	0.41
36:1:3329:U:H5''	40:L3:308:MET:HE3	2.02	0.41
5:S3:170:THR:CG2	5:S3:187:LYS:HG2	2.49	0.41
62:N6:74:TYR:CZ	62:N6:77:LYS:NZ	3.14	0.41
24:D2:18:GLU:HG3	24:D2:69:LEU:HD23	2.78	0.41
69:O3:92:LYS:HE2	36:5:630:A:O2'	211.81	0.41
5:S3:162:GLN:HB3	1:6:1332:C:O2'	426.48	0.41
64:N8:75:LEU:HD23	64:N8:75:LEU:HA	2.13	0.41
36:1:1000:C:H2'	36:1:1000:C:H6	1.65	0.41
58:N2:20:SER:OG	58:N2:21:SER:N	2.51	0.41
36:1:244:G:OP1	49:M3:132:ALA:HB3	2.20	0.41
36:1:2892:A:H2'	36:1:2893:C:H6	1.85	0.41
67:O1:36:ILE:O	67:O1:39:PHE:N	2.52	0.41
6:S4:210:ILE:HG12	6:S4:210:ILE:H	3.78	0.41
14:C2:104:ALA:HB2	14:C2:115:VAL:HG22	4.19	0.41
66:O0:28:LYS:O	66:O0:32:LYS:HG3	3.86	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:422:A:C2	36:5:2363:A:H4'	2.54	0.41
36:5:1146:C:H4'	36:5:1331:U:C5	2.56	0.41
1:2:1578:U:O2'	1:2:1579:U:H5'	2.20	0.41
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	2.02	0.41
1:6:891:A:H2'	1:6:892:A:C8	2.55	0.41
36:5:3316:A:H5''	36:5:3318:G:N2	2.35	0.41
1:6:613:G:H4'	1:6:614:C:OP1	2.20	0.41
1:6:15:U:H2'	1:6:16:G:O4'	2.20	0.41
36:5:1365:G:OP2	87:5:4030:OHX:N3	2.53	0.41
36:1:898:U:H2'	36:1:899:U:O4'	2.20	0.41
28:D6:64:LEU:HA	28:D6:65:PRO:HD3	1.74	0.41
48:M1:145:LYS:HE2	48:M1:145:LYS:HB2	1.71	0.41
66:O0:84:LEU:H	66:O0:84:LEU:HD12	3.03	0.41
42:L5:92:LEU:HA	42:L5:92:LEU:HD23	2.28	0.41
61:N5:63:ILE:O	61:N5:63:ILE:HD13	2.21	0.41
44:L7:234:GLU:H	44:L7:234:GLU:HG2	2.22	0.41
17:C5:89:MET:H	17:C5:89:MET:HG3	1.71	0.41
57:N1:106:LEU:HD23	57:N1:106:LEU:HA	4.38	0.41
20:C8:114:GLU:HA	20:C8:114:GLU:OE1	2.47	0.41
36:1:2571:U:OP1	36:1:2571:U:H2'	2.20	0.41
36:5:2255:A:H5'	36:5:2261:G:N2	2.21	0.41
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.84	0.41
21:C9:64:HIS:CE1	21:C9:68:ARG:NH2	2.88	0.41
1:2:144:U:O2'	1:2:145:A:H8	2.03	0.41
36:1:2444:C:H42	36:1:2503:G:H21	1.67	0.41
1:6:542:A:H1'	1:6:543:C:P	2.60	0.41
42:L5:266:ALA:HA	37:7:1:G:C4	315.25	0.41
64:N8:76:ASP:HB3	64:N8:115:LYS:O	7.14	0.41
87:2:2095:OHX:N4	87:2:2115:OHX:N2	2.68	0.41
1:6:902:G:H2'	1:6:903:U:C6	2.55	0.41
22:D0:104:THR:HG22	22:D0:116:VAL:HG11	4.23	0.41
64:N8:91:LEU:HA	64:N8:121:VAL:HG21	2.69	0.41
34:SR:25:THR:HA	34:SR:73:LEU:HD12	3.46	0.41
36:1:2771:U:H2'	36:1:2772:C:O2	2.20	0.41
40:L3:247:ARG:NH2	36:5:2341:A:OP2	219.32	0.41
40:L3:153:LYS:HE2	40:L3:154:TYR:OH	3.03	0.41
1:6:138:A:C2'	1:6:139:C:H5'	2.51	0.41
33:E1:93:HIS:HB3	33:E1:94:LYS:H	1.59	0.41
57:N1:39:ILE:CG1	57:N1:102:ARG:HD2	5.19	0.41
36:1:304:G:N3	36:1:304:G:H2'	2.34	0.41
40:L3:169:THR:HG21	40:L3:171:LEU:HD12	2.01	0.41
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:37:ALA:HB1	17:C5:38:PRO:HD2	2.01	0.41
10:S8:146:ARG:O	10:S8:147:ALA:HB3	2.20	0.41
1:2:852:C:H6	1:2:852:C:O5'	2.04	0.41
32:E0:37:ARG:NH1	1:6:478:A:OP1	440.93	0.41
41:L4:341:SER:O	41:L4:342:LYS:CB	4.27	0.41
31:D9:9:SER:HA	1:6:1451:C:OP1	411.65	0.41
1:2:1217:A:C8	1:2:1217:A:H5'	2.53	0.41
36:1:678:G:H2'	36:1:679:U:O4'	2.20	0.41
1:6:829:A:H5'	1:6:829:A:H8	1.85	0.41
87:1:4019:OHX:N6	87:1:4057:OHX:N5	2.67	0.41
36:5:1348:U:C6	36:5:1355:A:C5	3.08	0.41
1:2:943:C:N4	28:D6:15:ARG:HG2	2.35	0.41
65:N9:9:ALA:O	65:N9:10:HIS:C	2.57	0.41
11:S9:121:SER:HB3	11:S9:124:HIS:HB2	3.40	0.41
74:O8:59:ALA:O	74:O8:62:ALA:HB3	2.20	0.41
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.54	0.41
25:D3:112:LYS:HD3	25:D3:112:LYS:HA	1.91	0.41
41:L4:255:PHE:O	41:L4:258:LEU:HB2	2.25	0.41
53:M7:119:VAL:HA	53:M7:145:HIS:O	2.34	0.41
23:D1:55:LEU:HD11	23:D1:69:LEU:HG	2.75	0.41
38:8:59:A:H5''	38:8:61:A:C8	2.54	0.41
36:1:3098:G:OP1	40:L3:279:ASN:ND2	2.47	0.41
36:1:2709:C:H2'	36:1:2710:C:H6	1.84	0.41
69:O3:23:ASN:ND2	36:5:633:C:H1'	222.50	0.41
36:1:789:A:H2'	36:1:790:U:C6	2.54	0.41
36:1:2367:A:H2'	36:1:2368:A:O4'	2.20	0.41
36:5:1468:A:H2'	36:5:1469:C:C6	2.55	0.41
36:1:2558:U:O2'	36:1:2559:U:H5'	2.20	0.41
9:S7:154:LEU:HD11	9:S7:183:PHE:CD1	2.55	0.41
36:5:915:A:H8	36:5:2136:C:O2'	2.03	0.41
36:5:1016:C:OP1	36:5:1016:C:C6	2.73	0.41
36:1:2576:G:C6	36:1:2577:C:C4	3.09	0.41
7:S5:66:GLN:CD	7:S5:66:GLN:H	2.23	0.41
40:L3:240:ARG:HG2	40:L3:240:ARG:O	2.18	0.41
45:L8:206:GLU:HG3	45:L8:206:GLU:H	1.65	0.41
36:5:1903:U:H6	36:5:1903:U:O5'	2.03	0.41
11:S9:115:LYS:HD2	11:S9:115:LYS:HA	1.72	0.41
48:M1:115:LYS:HE3	48:M1:115:LYS:HB3	3.97	0.41
5:S3:127:MET:HG2	5:S3:154:ASP:OD2	2.19	0.41
36:5:959:C:OP2	36:5:960:U:C5	2.73	0.41
1:2:1637:C:O2'	35:SM:94:HIS:CE1	2.74	0.41
79:Q3:26:VAL:HG12	79:Q3:30:GLU:HG3	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:193:U:H2'	1:2:194:U:H2'	2.01	0.41
7:S5:82:PHE:CE1	30:D8:49:ARG:HD2	3.00	0.41
7:S5:30:PRO:O	7:S5:33:VAL:HB	2.20	0.41
23:D1:11:LEU:HG	23:D1:11:LEU:H	1.49	0.41
28:D6:38:ARG:NH2	28:D6:83:ILE:HG21	2.35	0.41
36:5:314:U:H2'	36:5:315:C:C6	2.55	0.41
41:L4:141:ARG:CZ	41:L4:180:LYS:HD3	2.99	0.41
36:5:3279:A:H2'	36:5:3280:U:H5'	2.01	0.41
56:N0:50:LYS:HD3	56:N0:50:LYS:HA	1.65	0.41
26:D4:15:ASN:ND2	26:D4:22:GLN:OE1	2.52	0.41
22:D0:27:THR:HB	22:D0:88:LYS:HG2	2.10	0.41
36:5:2227:C:C2'	36:5:2228:A:H5''	2.44	0.41
45:L8:111:LYS:O	45:L8:115:ALA:HB3	2.21	0.41
26:D4:121:THR:CG2	26:D4:123:LYS:HB2	5.53	0.41
36:1:1245:A:C3'	36:1:1246:G:H5''	2.51	0.41
6:S4:159:THR:HG22	6:S4:173:ILE:HB	2.19	0.41
1:6:1699:G:N2	1:6:1702:A:O4'	2.53	0.41
49:M3:59:ARG:O	49:M3:60:ALA:CB	4.21	0.41
47:M0:99:ILE:HG13	47:M0:100:ASN:N	2.34	0.41
36:1:3066:U:H2'	36:1:3067:C:C6	2.54	0.41
8:S6:160:ARG:CD	60:N4:84:GLY:HA3	2.50	0.41
5:S3:23:GLU:CD	12:C0:61:TRP:HE1	2.24	0.41
1:6:711:U:C2	1:6:728:U:C2	3.08	0.41
36:1:1841:A:O2'	36:1:1842:A:H5''	2.21	0.41
36:1:2314:U:O4	87:1:3880:OHX:N5	2.54	0.41
9:S7:173:TYR:CE1	9:S7:181:ILE:HD11	4.94	0.41
13:C1:7:VAL:O	13:C1:9:SER:N	3.17	0.41
36:1:1576:G:N7	36:1:1577:G:C6	2.88	0.41
13:C1:101:GLU:HB2	25:D3:13:ARG:NH1	3.50	0.41
36:1:1221:A:H3'	36:1:1222:G:H5''	2.02	0.41
71:O5:31:LEU:HB3	71:O5:44:ILE:HG13	2.02	0.41
36:5:2700:G:O2'	36:5:2705:A:N1	2.46	0.41
1:2:1258:U:H4'	12:C0:2:LEU:HD13	2.01	0.41
31:D9:16:LYS:HD3	1:6:1596:C:OP1	401.07	0.41
46:L9:161:LEU:HD22	46:L9:179:ILE:HD12	2.01	0.41
87:1:4052:OHX:N5	87:1:4160:OHX:N3	2.68	0.41
1:2:1250:U:O2'	33:E1:135:HIS:HD2	2.04	0.41
68:O2:27:ARG:HB3	36:5:655:C:OP1	162.79	0.41
45:L8:134:TYR:CD2	45:L8:190:VAL:HG21	2.55	0.41
6:S4:6:LYS:O	6:S4:7:LYS:HD2	3.38	0.41
36:5:2441:A:H2'	36:5:2442:G:O4'	2.20	0.41
36:1:1543:G:O6	87:1:4057:OHX:N2	2.53	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1722:U:H5''	55:M9:99:LEU:HD12	2.01	0.41
87:5:4035:OHX:N5	87:5:4118:OHX:N4	2.68	0.41
45:L8:136:LEU:HA	45:L8:136:LEU:HD23	2.21	0.41
43:L6:47:PHE:O	43:L6:50:LYS:HB2	2.20	0.41
27:D5:85:LYS:HG3	27:D5:86:GLU:H	2.43	0.41
24:D2:28:ARG:HA	24:D2:29:PRO:HA	1.78	0.41
36:1:1908:A:H2'	36:1:1909:A:O4'	2.19	0.41
36:1:1340:G:H2'	36:1:1341:U:C6	2.54	0.41
64:N8:64:GLN:HE22	36:5:70:A:H5'	117.33	0.41
28:D6:17:HIS:CE1	28:D6:18:VAL:O	2.73	0.41
36:1:1135:A:H5'	65:N9:7:HIS:O	2.19	0.41
46:L9:170:LYS:HD3	46:L9:170:LYS:HA	1.67	0.41
36:5:3011:A:N3	36:5:3012:A:H1'	2.35	0.41
70:O4:104:VAL:O	70:O4:108:GLN:HG3	2.20	0.41
36:1:72:C:H1'	49:M3:62:THR:H	1.85	0.41
1:6:166:C:OP2	87:6:2171:OHX:N4	2.54	0.41
44:L7:100:ARG:NH1	54:M8:4:ASP:OD1	2.53	0.41
39:L2:40:TYR:HA	39:L2:91:GLY:HA3	2.00	0.41
36:1:2438:A:H2'	36:1:2439:A:C8	2.55	0.41
12:C0:31:LYS:HA	12:C0:37:THR:O	2.56	0.41
11:S9:122:VAL:O	11:S9:125:ALA:HB3	2.21	0.41
36:1:994:G:N2	36:1:995:U:O4	2.52	0.41
4:S2:130:ILE:O	4:S2:134:LEU:HD22	2.20	0.41
1:2:1511:U:H2'	1:2:1512:G:C8	2.55	0.41
74:O8:64:LYS:HG3	74:O8:65:LEU:N	4.76	0.41
4:S2:202:GLY:O	4:S2:204:THR:N	2.53	0.41
12:C0:25:LYS:HD2	12:C0:59:PHE:HZ	1.86	0.41
49:M3:25:HIS:CD2	49:M3:25:HIS:H	2.36	0.41
60:N4:17:ARG:HD2	60:N4:17:ARG:HH11	1.74	0.41
36:5:1134:G:N7	87:5:3987:OHX:N3	2.68	0.41
36:1:274:G:H2'	36:1:275:U:O4'	2.21	0.41
7:S5:63:GLN:HB3	7:S5:64:VAL:H	1.63	0.41
7:S5:43:PHE:HZ	7:S5:90:ILE:HG21	1.85	0.41
4:S2:140:ARG:HD3	4:S2:222:TYR:CE1	2.55	0.41
36:1:2939:G:C2'	36:1:2940:A:H5'	2.51	0.41
28:D6:36:ILE:HD12	28:D6:78:ALA:HB1	2.01	0.41
87:1:4080:OHX:N4	87:1:4150:OHX:N3	2.68	0.41
9:S7:91:ILE:HD12	9:S7:91:ILE:HA	1.76	0.41
1:2:1433:G:H2'	1:2:1434:U:C6	2.55	0.41
1:2:1642:G:O3'	77:Q1:9:ARG:NH2	2.54	0.41
87:5:4024:OHX:N2	87:5:4216:OHX:N5	2.69	0.41
3:S1:119:THR:HB	3:S1:143:THR:CG2	2.49	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:L8:108:ARG:HH11	45:L8:108:ARG:HD3	1.92	0.41
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.94	0.41
1:2:1459:C:H6	1:2:1459:C:OP2	2.02	0.41
7:S5:166:ARG:HA	7:S5:169:ASN:HB2	2.69	0.41
27:D5:75:LEU:H	27:D5:75:LEU:HG	1.59	0.41
18:C6:60:PHE:HA	18:C6:63:ILE:HG13	2.77	0.41
66:O0:92:ILE:HG13	66:O0:100:ILE:HD11	3.68	0.41
66:O0:16:LEU:HB2	66:O0:98:SER:HB2	3.18	0.41
19:C7:17:ILE:HG12	19:C7:58:MET:HE2	2.02	0.41
48:M1:82:ARG:HD2	48:M1:112:LEU:O	2.96	0.41
34:SR:200:ASN:O	34:SR:201:THR:HB	2.20	0.41
30:D8:42:ARG:NH1	30:D8:56:LEU:HD22	2.35	0.41
36:5:595:G:C8	36:5:609:G:C6	3.09	0.41
36:5:3136:G:C5	36:5:3137:C:C5	3.08	0.41
36:1:642:U:OP1	64:N8:22:ILE:HG23	2.20	0.41
3:S1:179:SER:HB3	3:S1:183:GLN:OE1	2.20	0.41
45:L8:68:ARG:HE	45:L8:237:ILE:HG22	3.98	0.41
61:N5:40:LEU:HA	61:N5:40:LEU:HD12	1.79	0.41
1:2:1157:A:H2'	1:2:1160:A:N7	2.35	0.41
51:M5:90:ASN:ND2	36:5:2425:G:OP2	168.10	0.41
5:S3:115:ILE:H	5:S3:115:ILE:HG13	4.16	0.41
30:D8:27:GLN:HE22	30:D8:64:ARG:HH11	4.93	0.41
6:S4:245:LYS:HB2	6:S4:245:LYS:HE3	4.65	0.41
35:SM:27:LYS:HG3	48:M1:68:HIS:CE1	5.86	0.41
1:2:901:G:C6	1:2:902:G:C6	3.08	0.41
49:M3:46:ILE:HA	49:M3:46:ILE:HD12	1.46	0.41
63:N7:54:THR:HG22	63:N7:57:HIS:NE2	3.10	0.41
49:M3:153:ASP:OD2	49:M3:154:VAL:N	2.54	0.41
55:M9:96:ILE:HG12	36:5:1722:U:O4'	218.72	0.41
40:L3:224:HIS:HB2	40:L3:270:ARG:O	2.20	0.41
1:6:1638:G:C2	1:6:1639:C:H1'	2.55	0.41
11:S9:172:VAL:HG13	1:6:512:A:OP2	455.77	0.41
64:N8:12:ARG:HH22	36:5:661:G:P	151.25	0.41
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	2.01	0.41
10:S8:7:SER:HB2	1:6:336:G:H21	299.50	0.41
36:5:69:C:H2'	36:5:70:A:O4'	2.19	0.41
43:L6:170:LYS:HA	43:L6:171:PRO:HD2	2.37	0.41
2:S0:126:PRO:CG	2:S0:151:SER:HB3	2.85	0.41
36:1:1091:A:O2'	36:1:1092:C:H5'	2.21	0.41
7:S5:26:ALA:HB3	18:C6:28:LEU:N	2.64	0.41
42:L5:63:GLN:HB2	42:L5:65:ILE:HD11	2.02	0.41
69:O3:86:ARG:HH12	36:5:498:A:C5'	217.73	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:3084:C:H2'	36:5:3085:G:O4'	2.21	0.41
39:L2:180:LEU:HD22	79:Q3:18:TYR:CG	2.55	0.41
36:1:995:U:C2	36:1:2637:A:C8	3.08	0.41
38:8:108:C:H2'	38:8:109:A:O4'	2.21	0.41
1:6:1144:U:H2'	1:6:1145:U:C6	2.55	0.41
36:5:3305:A:H2'	36:5:3306:U:C6	2.55	0.41
35:SM:33:LYS:O	35:SM:34:LYS:HE2	6.10	0.41
1:2:1120:U:H2'	1:2:1121:C:C6	2.56	0.41
57:N1:32:LYS:HE2	57:N1:34:TYR:OH	4.62	0.41
36:5:1638:A:N1	36:5:1736:G:O2'	2.45	0.41
36:1:2118:C:H2'	36:1:2119:A:O4'	2.19	0.41
19:C7:57:LEU:O	19:C7:61:ILE:HG13	2.20	0.41
36:1:150:A:OP1	51:M5:56:LYS:NZ	2.48	0.41
34:SR:241:PHE:O	34:SR:255:ALA:HB3	2.20	0.41
1:2:520:A:H2'	1:2:521:A:C8	2.54	0.41
36:5:2409:G:H4'	36:5:2410:U:OP2	2.21	0.41
1:6:1001:A:C6	1:6:1002:G:C6	3.08	0.41
1:6:506:A:H3'	1:6:506:A:OP1	2.21	0.41
34:SR:134:TRP:CD1	34:SR:134:TRP:N	2.88	0.41
20:C8:108:LYS:HA	20:C8:108:LYS:HD3	3.34	0.41
49:M3:120:GLN:C	49:M3:122:LYS:H	3.01	0.41
36:5:2529:A:H2'	36:5:2530:G:O4'	2.21	0.41
1:2:1278:G:H2'	1:2:1279:C:O4'	2.20	0.41
36:1:1391:C:C2	68:O2:103:LYS:HD3	2.55	0.41
37:7:64:A:H5'	37:7:65:G:H5''	2.02	0.41
18:C6:47:LYS:HZ1	18:C6:114:ARG:HG2	1.84	0.41
79:Q3:73:THR:HB	79:Q3:76:ALA:H	3.25	0.41
36:1:980:A:H2'	36:1:981:U:C2	2.55	0.41
41:L4:302:ALA:HB2	54:M8:39:ARG:NH1	2.63	0.41
1:6:755:A:O2'	1:6:756:A:P	2.79	0.41
3:S1:144:ARG:HG2	3:S1:206:PRO:HB3	2.04	0.41
67:O1:40:ALA:O	67:O1:43:HIS:O	4.72	0.41
71:O5:10:ARG:HH12	71:O5:60:GLU:CD	2.22	0.41
3:S1:70:LEU:O	3:S1:74:GLN:N	2.54	0.41
3:S1:71:ALA:HB2	3:S1:79:HIS:C	2.41	0.41
36:1:563:U:OP1	56:N0:71:LYS:NZ	2.46	0.41
1:2:1657:U:C5	36:1:2125:A:O3'	2.74	0.41
1:6:823:G:C5	1:6:850:A:C2	3.09	0.41
2:S0:88:LYS:HA	2:S0:88:LYS:HD2	2.37	0.41
36:1:595:G:H2'	36:1:596:C:H6	1.86	0.41
1:6:484:C:N4	1:6:503:G:H22	2.18	0.41
5:S3:113:LEU:HA	5:S3:113:LEU:HD13	4.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:1794:G:C2	39:L2:187:HIS:CE1	3.09	0.41
63:N7:121:ARG:HD2	63:N7:126:LYS:HD3	2.02	0.41
52:M6:37:ARG:HG3	52:M6:108:ILE:HG22	6.26	0.41
30:D8:44:VAL:HG12	30:D8:54:LEU:HD21	2.03	0.41
36:5:594:U:H2'	36:5:609:G:O6	2.20	0.41
1:2:647:G:N2	1:2:688:G:C4	2.89	0.41
14:C2:81:ASP:HA	14:C2:82:PRO:HD3	1.68	0.41
21:C9:30:VAL:HA	21:C9:31:PRO:HD2	1.81	0.41
1:6:142:G:C2	1:6:266:A:C4	3.09	0.41
44:L7:47:ARG:NH2	44:L7:179:LEU:HD11	2.94	0.41
20:C8:18:LEU:HD23	20:C8:35:ILE:HD13	5.07	0.41
34:SR:133:VAL:HB	34:SR:142:ALA:HB3	2.21	0.41
27:D5:61:SER:H	27:D5:64:VAL:HB	1.91	0.41
9:S7:164:TYR:CZ	9:S7:165:LYS:HE2	2.55	0.41
63:N7:73:LYS:HZ2	36:5:1636:U:H5''	214.16	0.41
36:5:1599:G:OP1	87:5:4077:OHX:N3	2.54	0.41
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.85	0.41
41:L4:119:ARG:HD2	41:L4:119:ARG:HH11	1.97	0.41
4:S2:225:LEU:CD1	24:D2:68:ARG:HA	3.18	0.41
44:L7:80:GLN:HG3	57:N1:136:ARG:H	1.85	0.41
39:L2:113:VAL:HG12	39:L2:166:ILE:HA	2.46	0.41
8:S6:25:ARG:HA	8:S6:28:PHE:CD2	3.73	0.41
1:2:25:C:O2	87:2:2083:OHX:N1	2.53	0.41
21:C9:135:ILE:HA	21:C9:138:GLN:HB2	2.03	0.41
10:S8:77:ARG:NH1	10:S8:77:ARG:HG3	4.65	0.41
36:5:1069:C:H2'	36:5:1070:U:H6	1.85	0.41
34:SR:107:LYS:HB2	34:SR:128:ASP:CB	3.14	0.41
1:6:393:C:H2'	1:6:394:C:C6	2.55	0.41
36:1:3279:A:N6	36:1:3280:U:O4	2.54	0.41
41:L4:73:ARG:NH2	36:5:2814:G:OP1	173.11	0.41
20:C8:65:GLU:O	20:C8:69:ILE:HG13	2.28	0.41
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.19	0.41
34:SR:149:ASP:OD1	34:SR:150:TRP:N	2.41	0.41
12:C0:5:LYS:HG3	12:C0:6:GLU:N	2.36	0.41
54:M8:70:ALA:HB1	54:M8:138:LEU:HD11	2.02	0.41
36:1:3006:A:H2'	36:1:3007:U:O4'	2.21	0.41
64:N8:75:LEU:HB3	64:N8:118:ILE:HG23	2.01	0.41
1:2:553:G:C6	1:2:554:C:N3	2.88	0.41
36:5:3317:U:H4'	36:5:3318:G:O5'	2.20	0.41
19:C7:61:ILE:C	19:C7:63:LYS:H	2.55	0.41
9:S7:139:ARG:HD3	24:D2:53:ILE:HA	2.03	0.41
69:O3:69:GLY:HA2	69:O3:85:PHE:HA	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:M0:182:LEU:HB3	47:M0:186:GLU:OE2	2.20	0.41
36:5:2097:U:H2'	36:5:2098:C:C6	2.55	0.41
36:5:2998:U:O4	87:5:4142:OHX:N4	2.53	0.41
20:C8:10:SER:OG	20:C8:11:PHE:N	2.52	0.41
11:S9:11:THR:O	11:S9:44:ARG:HG3	2.20	0.41
70:O4:72:VAL:HG22	70:O4:77:GLY:HA2	2.33	0.41
71:O5:57:VAL:O	71:O5:61:GLN:HG3	3.06	0.41
1:6:1066:C:C2'	1:6:1067:C:H5'	2.51	0.41
1:2:1759:C:O2'	36:1:2263:C:H4'	2.20	0.41
36:1:1629:U:P	63:N7:112:LYS:HE2	2.60	0.41
1:2:88:U:H4'	1:2:171:A:O4'	2.21	0.41
54:M8:89:ASP:OD1	54:M8:90:ASP:N	2.54	0.41
28:D6:41:ILE:HA	28:D6:67:THR:O	2.20	0.41
68:O2:37:GLY:HA3	36:5:639:G:OP1	185.33	0.41
36:1:2929:C:H2'	36:1:2930:A:O4'	2.21	0.41
40:L3:306:THR:HG22	40:L3:310:GLY:HA2	2.01	0.41
39:L2:147:ARG:HB3	39:L2:147:ARG:CZ	5.31	0.41
67:O1:62:ARG:HD2	67:O1:62:ARG:HH11	1.69	0.41
6:S4:206:ASP:N	6:S4:206:ASP:OD1	2.54	0.41
36:1:3275:U:O5'	36:1:3275:U:H6	2.03	0.41
56:N0:40:ARG:HD2	56:N0:40:ARG:HA	1.86	0.41
30:D8:33:LEU:HA	30:D8:33:LEU:HD22	2.11	0.41
2:S0:87:LEU:HA	2:S0:87:LEU:HD12	1.72	0.41
36:5:123:A:H5'	36:5:124:U:OP2	2.19	0.41
1:6:1117:U:H2'	1:6:1118:G:C8	2.56	0.41
38:4:152:G:H2'	38:4:153:U:O4'	2.21	0.41
44:L7:66:LYS:HG2	44:L7:76:TYR:CD2	3.04	0.41
33:E1:97:LYS:HA	33:E1:97:LYS:HD2	1.74	0.41
11:S9:39:LYS:HB3	11:S9:43:TYR:CE2	2.58	0.41
41:L4:299:ILE:HG23	41:L4:299:ILE:HD12	1.98	0.41
39:L2:224:THR:HG21	36:5:2201:G:N2	223.54	0.41
26:D4:14:SER:C	26:D4:16:PRO:HD3	2.41	0.41
22:D0:17:GLN:HG3	22:D0:18:GLN:HG3	7.52	0.41
22:D0:50:LEU:O	22:D0:51:VAL:HG13	4.39	0.41
17:C5:119:PHE:HA	35:SM:57:ASN:ND2	2.67	0.41
20:C8:120:ARG:HD2	35:SM:58:GLU:HA	2.01	0.41
27:D5:41:ILE:HG23	27:D5:42:LEU:N	2.30	0.41
27:D5:41:ILE:O	27:D5:75:LEU:HD13	2.20	0.41
1:2:1537:C:N4	87:2:2153:OHX:N6	2.68	0.41
1:6:192:U:H1'	1:6:193:U:C4	2.56	0.41
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.21	0.41
53:M7:112:LEU:HA	53:M7:112:LEU:HD12	1.87	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:200:ASN:H	34:SR:215:GLY:HA2	1.85	0.41
1:2:623:A:OP1	87:2:2156:OHX:N2	2.53	0.41
40:L3:81:THR:CG2	40:L3:81:THR:O	2.80	0.41
44:L7:143:THR:HG22	44:L7:241:LYS:HE3	2.01	0.41
75:O9:43:ASN:HB3	75:O9:46:ARG:HG3	2.02	0.41
1:2:1487:A:H2'	1:2:1488:G:C8	2.55	0.41
20:C8:41:ARG:NH1	21:C9:38:LYS:HG3	2.36	0.41
40:L3:43:LEU:HA	40:L3:43:LEU:HD12	1.97	0.41
32:E0:58:PRO:HA	1:6:558:U:OP2	419.20	0.41
58:N2:33:TYR:CE1	58:N2:80:THR:HG23	4.24	0.41
46:L9:115:ARG:HG2	46:L9:123:ILE:HG23	2.03	0.41
20:C8:134:ARG:O	20:C8:136:GLN:HG2	4.94	0.41
62:N6:120:GLN:OE1	62:N6:126:LEU:HD23	5.67	0.41
66:O0:99:ASP:O	66:O0:103:THR:HG23	2.20	0.41
75:O9:22:PRO:HG3	36:5:1517:G:OP1	95.41	0.41
48:M1:10:ARG:HB3	48:M1:152:HIS:CE1	3.48	0.41
1:2:924:A:O2'	1:2:987:G:OP1	2.37	0.41
46:L9:163:GLN:O	46:L9:166:ARG:HG3	3.22	0.41
1:6:1649:G:H2'	1:6:1650:U:C6	2.55	0.41
55:M9:19:LYS:HA	55:M9:22:VAL:HG22	2.02	0.41
71:O5:95:PHE:O	71:O5:97:ALA:N	2.54	0.41
45:L8:90:THR:HA	45:L8:214:LEU:HD21	2.09	0.41
36:1:2681:U:OP2	48:M1:51:ARG:HD3	2.21	0.41
14:C2:67:THR:C	14:C2:69:ALA:H	2.24	0.41
36:1:1029:G:H2'	36:1:1030:A:H8	1.85	0.41
36:1:3198:U:O4	46:L9:26:LYS:HB2	2.21	0.41
6:S4:45:ILE:HA	6:S4:61:VAL:HG11	2.03	0.41
29:D7:58:SER:C	29:D7:60:SER:H	3.80	0.41
36:1:1111:U:H5''	49:M3:5:LYS:HE2	2.03	0.41
36:5:1471:U:H2'	36:5:1472:U:H6	1.84	0.41
54:M8:120:GLU:OE2	54:M8:130:ARG:NH2	2.50	0.41
43:L6:154:LEU:HA	43:L6:154:LEU:HD23	2.22	0.41
54:M8:161:LYS:O	54:M8:162:ALA:HB3	2.20	0.41
9:S7:61:PHE:HA	9:S7:93:LEU:O	2.20	0.41
49:M3:2:ALA:HB2	64:N8:31:GLY:O	2.21	0.41
55:M9:99:LEU:O	55:M9:103:ARG:HG3	4.89	0.41
34:SR:285:ALA:HB1	1:6:1393:C:H5''	422.29	0.41
87:5:4213:OHX:N2	87:5:4223:OHX:N5	2.68	0.41
41:L4:68:GLY:HA2	36:5:2401:A:O3'	174.90	0.41
40:L3:7:GLU:HG2	36:5:2915:U:H5	257.35	0.41
36:5:996:A:H2'	36:5:997:A:O4'	2.20	0.41
36:1:1506:A:H1'	36:1:1848:G:O6	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:3004:C:O2'	36:1:3005:A:H5'	2.21	0.41
41:L4:23:PRO:HB3	41:L4:258:LEU:HB3	2.01	0.41
5:S3:183:GLY:HA3	1:6:1277:G:O3'	406.82	0.41
36:5:26:A:N3	36:5:328:U:O2'	2.47	0.41
15:C3:15:ALA:HB2	29:D7:20:LYS:HD3	2.02	0.41
24:D2:57:ARG:NH2	29:D7:26:GLN:OE1	3.37	0.41
60:N4:86:SER:O	60:N4:88:ASP:N	2.54	0.41
36:1:1047:A:N3	36:1:2633:U:O2'	2.47	0.41
87:2:2170:OHX:N3	87:2:2171:OHX:N4	2.69	0.41
36:1:1460:A:H2'	36:1:1461:A:C8	2.55	0.41
1:2:1149:G:H5''	1:2:1150:G:OP1	2.20	0.41
45:L8:109:LEU:HA	45:L8:109:LEU:HD23	1.77	0.41
79:Q3:38:ASP:OD1	79:Q3:45:LYS:HB3	2.21	0.41
3:S1:90:GLU:HG2	3:S1:223:PHE:CZ	2.55	0.41
36:1:2426:U:H2'	36:1:2427:U:C6	2.56	0.41
1:2:848:C:H2'	1:2:849:C:C6	2.55	0.41
36:1:3165:A:H61	36:1:3285:C:H42	1.68	0.41
14:C2:91:VAL:HG22	14:C2:92:ALA:H	4.47	0.41
42:L5:44:TYR:CE2	36:5:1084:A:H4'	229.92	0.41
36:5:2604:U:H2'	36:5:2605:G:O4'	2.20	0.41
36:1:2536:A:H2'	36:1:2537:U:C5	2.56	0.41
10:S8:66:SER:HA	10:S8:73:SER:HA	2.02	0.41
40:L3:47:LEU:HD21	40:L3:179:ALA:HB3	2.32	0.41
36:5:2518:C:C2	36:5:2590:A:C2	3.09	0.41
51:M5:179:LYS:O	36:5:287:G:H5'	125.08	0.41
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	2.02	0.41
36:1:1390:A:H5'	36:1:1390:A:N3	2.34	0.41
43:L6:90:LYS:HB2	43:L6:90:LYS:HE3	1.99	0.41
64:N8:68:PHE:N	64:N8:68:PHE:CD2	3.10	0.41
9:S7:161:GLN:HG2	9:S7:161:GLN:H	1.49	0.41
5:S3:219:ALA:HA	5:S3:220:PRO:HD2	2.34	0.41
36:1:525:C:H5''	50:M4:79:ALA:HB2	2.02	0.41
41:L4:317:PRO:HB3	41:L4:324:LEU:HA	2.45	0.41
36:5:2512:C:N4	36:5:2513:U:O4	2.54	0.41
36:1:157:A:C8	72:O6:26:ILE:HG12	2.56	0.41
6:S4:21:ASP:HB2	1:6:773:C:OP1	388.42	0.41
41:L4:131:VAL:O	41:L4:135:VAL:HG23	2.77	0.41
9:S7:67:LEU:HD23	9:S7:67:LEU:HA	1.77	0.41
40:L3:350:ALA:O	40:L3:351:LEU:CB	2.69	0.41
2:S0:117:GLU:OE2	4:S2:39:THR:HG22	2.20	0.41
1:2:542:A:O2'	1:2:543:C:P	2.78	0.41
3:S1:207:LEU:HA	3:S1:207:LEU:HD23	4.23	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1764:U:H3'	36:5:1765:U:C5'	2.50	0.41
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	2.79	0.41
39:L2:181:LYS:HB3	36:5:860:G:C6	214.58	0.41
24:D2:126:LEU:HA	24:D2:126:LEU:HD23	2.54	0.41
3:S1:26:ARG:O	3:S1:26:ARG:HG2	2.50	0.41
19:C7:104:ASN:O	19:C7:106:THR:HG22	6.42	0.41
19:C7:26:LEU:HD23	19:C7:58:MET:HB3	3.61	0.41
69:O3:49:ILE:HD11	69:O3:83:ALA:HB1	2.89	0.41
42:L5:113:LEU:HA	42:L5:113:LEU:HD12	2.06	0.41
48:M1:34:SER:HA	48:M1:67:VAL:HG21	2.02	0.41
39:L2:52:SER:HB3	39:L2:191:LEU:HD12	5.24	0.41
15:C3:55:ARG:NH1	15:C3:56:ASP:OD1	3.66	0.41
36:5:1686:U:O2	36:5:1688:U:H1'	2.20	0.41
5:S3:60:GLY:O	5:S3:62:ASN:N	3.15	0.41
63:N7:82:PRO:HD2	66:O0:59:TYR:CZ	2.55	0.41
1:2:93:A:O2'	6:S4:4:GLY:HA3	2.20	0.41
36:1:2842:U:C5	36:1:2843:U:C4	3.09	0.41
1:2:61:A:C8	1:2:269:G:O2'	2.71	0.41
36:5:988:U:H2'	36:5:989:A:O4'	2.20	0.41
77:Q1:22:ALA:O	77:Q1:25:LYS:HG3	2.21	0.41
46:L9:128:VAL:HG22	46:L9:134:ILE:HD12	2.03	0.41
40:L3:303:LYS:HZ2	40:L3:361:THR:HB	1.84	0.41
51:M5:73:ARG:NH1	51:M5:92:LEU:HD21	2.36	0.41
36:1:345:G:OP1	36:1:1429:G:N1	2.44	0.41
62:N6:91:ASN:C	62:N6:93:ALA:H	2.23	0.41
10:S8:114:GLU:CD	10:S8:120:THR:HA	2.41	0.41
51:M5:48:ALA:C	51:M5:53:TYR:HB3	2.53	0.41
87:5:4001:OHX:N2	87:5:4192:OHX:N5	2.69	0.41
1:6:811:A:C2	1:6:858:G:H1'	2.56	0.41
67:O1:50:ARG:CZ	67:O1:90:PHE:CZ	3.94	0.41
7:S5:190:ILE:HD11	1:6:1473:U:O5'	352.39	0.41
40:L3:306:THR:HA	40:L3:307:PRO:HD3	1.82	0.41
44:L7:222:HIS:CE1	44:L7:224:ILE:HD12	2.85	0.41
1:6:898:A:N1	1:6:911:U:O2'	2.38	0.41
66:O0:54:SER:HB3	70:O4:94:LEU:HD13	2.03	0.41
1:2:1351:G:C2	1:2:1375:A:C2	3.08	0.41
36:1:2567:C:C2'	36:1:2568:C:H5'	2.51	0.41
4:S2:69:ILE:HG12	4:S2:133:LYS:HB3	2.06	0.41
36:5:2148:U:H2'	36:5:2149:A:C4	2.55	0.41
21:C9:60:SER:OG	1:6:1480:G:OP1	400.56	0.41
36:1:3248:C:O5'	36:1:3248:C:H6	2.04	0.41
6:S4:233:LYS:HE3	6:S4:233:LYS:HB3	4.42	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:M8:111:ARG:HD2	54:M8:111:ARG:HH11	1.71	0.41
6:S4:180:LEU:HD23	6:S4:180:LEU:HA	1.80	0.41
68:O2:57:TYR:CE1	36:5:1162:U:H4'	198.83	0.41
1:2:1388:A:HO2'	1:2:1411:A:H2	1.66	0.41
1:2:142:G:O5'	1:2:142:G:H8	2.03	0.41
87:2:2038:OHX:N1	25:D3:64:PRO:O	2.53	0.41
36:1:2836:C:O4'	36:1:2836:C:O2	2.38	0.41
36:5:2211:U:O2	36:5:2211:U:O4'	2.39	0.41
36:5:2211:U:C5	36:5:2234:G:O6	2.62	0.41
1:2:732:G:C6	87:2:2128:OHX:N3	2.89	0.41
36:1:1554:U:HO2'	36:1:1582:C:H5	1.67	0.41
1:2:906:A:P	16:C4:52:ARG:HB3	2.61	0.41
16:C4:102:LEU:CD1	28:D6:45:VAL:HG12	3.47	0.41
4:S2:73:LEU:HD13	4:S2:73:LEU:HA	2.53	0.41
1:2:542:A:O2'	1:2:543:C:O5'	2.38	0.41
1:6:540:G:O2'	1:6:542:A:H5'	2.21	0.41
36:5:3309:G:H2'	36:5:3310:A:H5'	2.03	0.41
2:S0:188:LEU:HB3	2:S0:189:VAL:H	1.55	0.41
12:C0:14:TYR:CZ	12:C0:18:GLU:HG3	2.83	0.41
34:SR:70:ASP:OD2	34:SR:112:SER:HA	2.19	0.41
1:6:189:C:C2'	1:6:190:C:H5'	2.51	0.41
36:1:2549:G:C2	45:L8:35:GLY:HA3	2.56	0.41
26:D4:59:GLY:O	26:D4:60:PHE:HB2	2.21	0.41
3:S1:103:MET:O	3:S1:214:LYS:HA	2.80	0.41
1:2:1651:A:N1	1:2:1749:A:H2	2.19	0.41
36:5:1152:G:H22	36:5:1200:A:N6	2.17	0.41
1:2:1559:A:H5''	20:C8:135:GLY:HA3	2.02	0.41
38:4:142:C:OP1	51:M5:38:ARG:NH1	2.54	0.41
16:C4:125:SER:HB3	16:C4:126:THR:H	1.42	0.41
1:6:404:G:H2'	1:6:405:C:H6	1.81	0.41
42:L5:254:LYS:HA	42:L5:255:PRO:HD2	1.87	0.41
12:C0:1:MET:HG2	12:C0:2:LEU:N	2.31	0.41
1:6:74:U:C2	1:6:76:A:H5''	2.55	0.41
46:L9:40:HIS:ND1	46:L9:41:ILE:HG13	4.67	0.41
46:L9:86:TYR:CD2	46:L9:151:VAL:HG13	2.56	0.41
55:M9:77:GLY:O	55:M9:81:ARG:HD3	2.20	0.41
34:SR:203:THR:HG21	34:SR:244:ALA:H	1.86	0.41
87:1:4061:OHX:N3	87:1:4174:OHX:N1	2.69	0.41
1:6:1584:G:N2	1:6:1611:A:OP2	2.45	0.41
52:M6:156:LEU:HD23	52:M6:156:LEU:HA	2.07	0.41
63:N7:36:HIS:H	63:N7:37:PRO:HD3	3.23	0.41
1:2:385:A:OP1	10:S8:25:ARG:NH1	2.41	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:S4:15:PRO:HA	6:S4:39:ARG:HH12	2.75	0.41
34:SR:74:THR:HG21	34:SR:79:TYR:HD2	1.86	0.41
55:M9:180:LYS:HB3	55:M9:180:LYS:HE2	1.73	0.41
39:L2:246:LEU:CD1	36:5:2153:U:H5''	232.89	0.41
73:O7:84:SER:O	73:O7:85:LYS:HB3	3.85	0.41
64:N8:64:GLN:OE1	36:5:101:G:H8	117.26	0.41
64:N8:65:GLN:O	64:N8:66:ALA:CB	2.69	0.41
42:L5:182:GLY:HA2	42:L5:194:LEU:HD13	2.03	0.41
36:5:2921:U:H2'	36:5:2923:U:OP2	2.21	0.41
87:5:4055:OHX:N3	87:5:4109:OHX:N5	2.69	0.41
10:S8:83:TYR:O	10:S8:100:ALA:O	4.99	0.41
36:1:2652:U:C4	36:1:2653:C:C4	3.09	0.41
7:S5:190:ILE:HD13	7:S5:190:ILE:O	2.20	0.41
36:5:2367:A:H2'	36:5:2368:A:O4'	2.21	0.41
36:1:681:U:C2	41:L4:115:HIS:ND1	2.89	0.41
1:2:1070:C:H5''	29:D7:17:ARG:NH1	2.36	0.41
1:6:607:G:H4'	1:6:608:U:H5''	2.03	0.41
5:S3:207:THR:HB	19:C7:40:THR:OG1	2.20	0.41
1:6:1089:U:O2'	1:6:1090:C:H5'	2.20	0.41
1:6:366:A:C2	1:6:376:C:C2	3.09	0.41
36:1:2669:G:N7	87:1:4070:OHX:N4	2.69	0.41
53:M7:169:THR:O	53:M7:173:ARG:HG2	2.21	0.41
3:S1:42:ASN:N	3:S1:42:ASN:OD1	2.49	0.41
5:S3:215:GLU:HA	5:S3:216:PRO:HD2	2.30	0.41
1:6:1488:G:H3'	1:6:1515:A:H61	1.85	0.41
62:N6:16:ARG:NH1	62:N6:20:PHE:HE2	2.74	0.41
36:5:1141:C:OP2	87:5:4113:OHX:N2	2.54	0.41
1:6:1475:A:H2'	1:6:1476:C:C6	2.56	0.41
53:M7:34:GLN:OE1	36:5:413:U:H5''	155.16	0.41
1:6:1752:U:OP2	87:6:2062:OHX:N5	2.54	0.41
23:D1:74:GLN:C	23:D1:76:ASP:H	2.23	0.41
18:C6:39:VAL:HG12	18:C6:45:ARG:HG3	2.01	0.41
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.86	0.41
4:S2:140:ARG:HH12	23:D1:1:MET:HB3	1.85	0.41
1:2:592:A:OP1	11:S9:39:LYS:HG2	2.20	0.41
51:M5:183:THR:O	51:M5:184:LYS:HB3	3.26	0.41
36:5:2258:U:H2'	36:5:2259:A:O4'	2.21	0.41
34:SR:165:ASP:O	34:SR:184:ASN:ND2	2.44	0.41
8:S6:13:GLN:NE2	1:6:151:G:H21	312.56	0.41
49:M3:89:TYR:CE1	49:M3:93:ILE:HG13	2.56	0.41
87:5:4189:OHX:N1	87:5:4191:OHX:N4	2.69	0.41
9:S7:51:VAL:HG22	9:S7:55:LYS:O	3.16	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:4:70:G:H5''	62:N6:28:ARG:NH2	2.35	0.41
37:3:49:G:H4'	37:3:50:U:O4'	2.20	0.41
50:M4:113:THR:HG23	50:M4:115:PHE:H	2.68	0.41
36:1:149:U:P	51:M5:49:ARG:HH22	2.44	0.41
41:L4:180:LYS:C	41:L4:181:VAL:O	2.58	0.41
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.20	0.41
47:M0:48:LEU:HD11	47:M0:50:VAL:HG23	3.77	0.41
1:2:637:C:OP1	24:D2:32:LYS:HG3	2.21	0.41
36:1:2503:G:HO2'	36:1:2504:U:H5	1.67	0.41
36:1:2402:A:OP1	41:L4:70:ALA:N	2.46	0.41
75:O9:48:LYS:HD2	75:O9:48:LYS:HA	2.54	0.41
42:L5:269:SER:HG	37:7:1:G:N2	317.45	0.41
19:C7:4:VAL:HG22	1:6:1402:G:H5'	401.05	0.41
8:S6:63:MET:HG2	8:S6:99:GLY:O	2.21	0.41
64:N8:74:ASN:CB	64:N8:76:ASP:HB2	2.51	0.41
45:L8:146:LYS:HD3	45:L8:173:MET:O	3.36	0.41
36:1:915:A:C5	36:1:917:A:H1'	2.56	0.41
27:D5:62:VAL:O	27:D5:66:VAL:HG23	2.20	0.41
87:2:2165:OHX:N1	87:2:2166:OHX:N3	2.69	0.41
36:1:944:C:H4'	68:O2:33:ARG:HH11	1.86	0.41
20:C8:119:ILE:HA	20:C8:119:ILE:HD12	3.06	0.41
36:1:32:U:O3'	51:M5:71:ARG:NH2	2.54	0.41
1:6:1698:G:H1'	1:6:1699:G:OP1	2.21	0.41
1:2:1053:G:C2	1:2:1067:C:C2	3.08	0.41
47:M0:99:ILE:H	47:M0:99:ILE:HD12	5.30	0.41
3:S1:51:SER:HB3	3:S1:57:ALA:N	3.52	0.41
51:M5:106:VAL:O	51:M5:109:ARG:N	2.53	0.41
40:L3:265:ALA:C	40:L3:266:ARG:HG2	2.42	0.41
63:N7:5:LEU:HD23	63:N7:25:ILE:HD13	3.64	0.41
40:L3:117:ARG:HA	40:L3:175:LYS:HD2	4.01	0.41
40:L3:114:VAL:HG13	40:L3:163:HIS:CG	2.64	0.41
14:C2:50:LYS:O	14:C2:54:ARG:HG2	2.60	0.41
3:S1:113:MET:HE3	3:S1:209:ASN:HB3	5.10	0.41
37:3:7:G:OP2	42:L5:22:ARG:NH2	2.54	0.41
36:5:25:U:O4	87:5:3907:OHX:N6	2.54	0.41
36:5:1096:U:H4'	36:5:1097:G:O5'	2.20	0.41
27:D5:84:GLU:N	27:D5:89:ILE:HD11	2.36	0.41
36:1:2655:U:H4'	36:1:2656:A:O4'	2.20	0.41
1:2:325:G:H2'	1:2:326:G:H8	1.86	0.41
36:1:1222:G:N2	36:1:1285:G:O2'	2.53	0.41
55:M9:110:ARG:NH1	55:M9:120:TYR:CZ	3.79	0.41
55:M9:123:LEU:HD23	55:M9:123:LEU:HA	1.72	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:C5:28:MET:HB3	17:C5:28:MET:HE2	1.97	0.41
6:S4:125:LYS:O	6:S4:141:THR:HA	2.40	0.41
1:2:75:U:N3	1:2:76:A:C2	2.89	0.41
24:D2:82:LYS:C	24:D2:84:GLY:H	2.20	0.41
21:C9:100:ILE:HG12	21:C9:100:ILE:H	2.74	0.41
1:2:633:U:O2'	1:2:1102:G:H4'	2.21	0.41
7:S5:149:VAL:HG12	7:S5:156:ARG:O	3.45	0.41
36:1:760:G:H1'	36:1:770:G:N2	2.36	0.41
36:1:209:A:H4'	36:1:211:A:C8	2.56	0.41
36:1:3095:U:O2'	36:1:3096:C:H5'	2.20	0.41
36:1:1464:G:OP2	87:1:4198:OHX:N5	2.54	0.41
7:S5:187:ILE:H	7:S5:187:ILE:HD12	2.26	0.41
47:M0:194:GLY:HA3	36:5:1010:G:N2	336.45	0.41
34:SR:42:LEU:O	34:SR:61:PHE:HD2	2.04	0.41
34:SR:169:ILE:HG12	34:SR:183:LEU:HD21	3.16	0.41
55:M9:90:PRO:HG2	55:M9:93:VAL:HB	3.65	0.41
2:S0:125:ASP:HB3	2:S0:128:SER:HB2	2.53	0.41
36:5:908:G:O5'	36:5:908:G:H8	2.04	0.41
1:6:199:G:O2'	1:6:200:A:H8	2.04	0.41
71:O5:21:LEU:HD11	71:O5:55:LEU:HD21	2.03	0.41
49:M3:5:LYS:HB2	49:M3:7:LEU:HG	2.02	0.41
54:M8:102:ALA:HA	54:M8:122:ILE:O	2.20	0.41
36:1:1615:C:H2'	36:1:1616:U:H6	1.85	0.41
8:S6:31:ARG:HD2	8:S6:34:GLN:HE21	1.86	0.41
44:L7:151:ARG:NH2	36:5:1334:U:O2'	241.85	0.41
71:O5:83:LYS:HA	38:8:38:U:C5	66.58	0.41
74:O8:26:LYS:O	74:O8:27:ILE:HD13	2.21	0.41
51:M5:74:PRO:O	51:M5:75:VAL:HG22	2.21	0.41
35:SM:43:ASP:HA	35:SM:44:PRO:HD3	2.42	0.41
51:M5:73:ARG:HG2	51:M5:75:VAL:HG22	2.84	0.41
69:O3:91:ALA:C	69:O3:93:THR:H	2.23	0.41
36:1:2623:G:H2'	36:1:2624:G:H8	1.86	0.41
3:S1:55:LYS:HD3	3:S1:55:LYS:HA	2.11	0.41
10:S8:183:ILE:HD12	10:S8:184:LEU:O	6.29	0.41
48:M1:95:ASN:HD22	48:M1:95:ASN:N	2.19	0.41
70:O4:51:LEU:HD23	70:O4:51:LEU:H	1.86	0.41
8:S6:119:GLN:HG3	8:S6:120:GLU:N	2.36	0.41
24:D2:103:ILE:HA	24:D2:112:ASP:HA	2.03	0.41
36:1:2254:U:H2'	36:1:2261:G:N2	2.36	0.41
36:5:3378:C:H2'	36:5:3379:C:H6	1.86	0.41
68:O2:126:LEU:HD23	68:O2:126:LEU:HA	1.72	0.41
36:1:1820:U:H1'	36:1:1821:U:OP2	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:720:G:H1'	1:2:721:U:H5'	2.03	0.41
66:O0:87:VAL:HB	36:5:1728:G:O2'	250.43	0.41
36:1:1322:U:OP1	56:N0:117:ARG:HD2	2.21	0.41
1:2:503:G:O2'	1:2:504:U:OP1	2.33	0.41
41:L4:22:LEU:HA	41:L4:23:PRO:HD3	1.77	0.41
36:5:2556:C:O2'	36:5:2557:A:H5'	2.20	0.41
1:6:799:A:H2'	1:6:800:U:O4'	2.21	0.41
36:5:2942:C:O2	87:5:4109:OHX:N2	2.54	0.41
18:C6:67:VAL:HG11	18:C6:81:ILE:HG22	2.39	0.41
36:5:192:C:H2'	36:5:193:C:H6	1.85	0.41
1:2:1150:G:H2'	1:2:1768:G:N2	2.36	0.41
64:N8:126:LYS:HB3	64:N8:148:ILE:HD13	2.08	0.41
36:5:1015:U:O3'	36:5:1016:C:H2'	2.20	0.41
40:L3:307:PRO:HD3	40:L3:311:PHE:CE2	2.90	0.41
36:1:2668:U:H2'	36:1:2669:G:O4'	2.21	0.41
36:5:3022:G:O2'	36:5:3023:U:OP2	2.39	0.41
1:2:1757:G:H4'	36:1:2256:A:N7	2.36	0.41
36:1:1128:U:H2'	36:1:1129:A:O4'	2.21	0.41
56:N0:132:THR:O	56:N0:133:ALA:HB3	2.21	0.41
1:6:602:U:H2'	1:6:603:U:C6	2.56	0.41
36:5:2833:A:C2	36:5:2834:G:C8	3.09	0.41
43:L6:10:TYR:HB2	36:5:1353:U:O2	172.56	0.41
33:E1:123:ASN:OD1	33:E1:125:THR:OG1	5.17	0.41
67:O1:17:HIS:HB2	67:O1:69:TYR:HB3	2.01	0.41
47:M0:119:TRP:HZ3	36:5:1126:G:H5''	257.60	0.41
47:M0:71:CYS:HB2	47:M0:158:LYS:HE3	2.46	0.41
36:5:281:G:C6	36:5:282:G:C6	3.09	0.41
36:1:2553:U:O4'	66:O0:50:VAL:HB	2.21	0.41
1:6:548:G:H2'	1:6:549:G:O4'	2.20	0.41
36:1:989:A:H2'	36:1:990:U:C6	2.56	0.41
36:1:3304:U:O3'	40:L3:334:ARG:NH2	2.53	0.41
36:1:644:G:H2'	36:1:2372:A:N7	2.35	0.41
41:L4:330:TYR:CZ	44:L7:49:ALA:HA	2.55	0.41
1:6:1123:C:O5'	1:6:1123:C:H6	2.04	0.41
36:1:2213:A:H2'	36:1:2214:A:C8	2.55	0.41
6:S4:211:LYS:HA	6:S4:216:ASN:O	2.21	0.41
17:C5:24:LYS:O	17:C5:26:LEU:N	2.54	0.41
1:2:825:U:H2'	1:2:826:U:H6	1.86	0.41
53:M7:41:LEU:O	53:M7:45:GLN:HG3	2.21	0.41
1:6:1120:U:H2'	1:6:1121:C:C6	2.55	0.41
36:1:2442:G:N2	36:1:2505:U:H3	2.19	0.41
36:1:1419:A:H5'	38:4:20:U:O2'	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:S6:211:LEU:O	8:S6:215:ARG:HB2	2.20	0.41
1:6:1304:G:H5'	1:6:1322:A:OP2	2.21	0.41
40:L3:24:SER:O	40:L3:220:VAL:HG21	2.21	0.41
36:1:3055:U:H1'	36:1:3057:U:OP2	2.20	0.41
41:L4:157:GLU:HB3	41:L4:211:GLU:O	2.21	0.41
78:Q2:89:LYS:HB2	36:5:2653:C:OP1	237.75	0.41
54:M8:131:ALA:N	54:M8:132:PRO:HD3	2.35	0.41
36:5:2274:U:OP1	87:5:3985:OHX:N6	2.54	0.41
36:1:3035:A:OP2	87:1:4074:OHX:N4	2.53	0.41
36:1:1645:U:C2'	36:1:1646:G:H5'	2.51	0.41
1:2:899:G:N2	1:2:911:U:H1'	2.35	0.41
44:L7:184:LEU:O	44:L7:188:ILE:HG12	2.21	0.41
15:C3:27:LYS:H	15:C3:27:LYS:HG3	1.65	0.41
36:1:893:C:H6	36:1:893:C:O5'	2.04	0.41
1:6:63:G:C6	1:6:64:U:C5	3.09	0.41
5:S3:225:TYR:HD2	34:SR:189:GLU:O	2.53	0.41
36:1:1922:A:H2'	36:1:1923:C:O4'	2.21	0.41
1:6:1674:C:H2'	1:6:1675:C:C6	2.56	0.41
8:S6:6:SER:O	8:S6:113:ILE:N	2.52	0.41
36:5:763:G:H2'	36:5:764:U:C6	2.56	0.41
4:S2:158:THR:HG21	4:S2:221:THR:HG22	2.17	0.41
23:D1:73:ALA:HB1	23:D1:79:LEU:HG	3.71	0.41
7:S5:61:TYR:CD2	7:S5:164:PRO:HB2	2.99	0.41
1:6:1491:U:H5'	1:6:1492:A:OP1	2.21	0.41
33:E1:103:LEU:HA	33:E1:103:LEU:HD23	1.70	0.41
50:M4:55:ARG:NH2	50:M4:77:ARG:HA	2.36	0.41
5:S3:157:LEU:HD23	5:S3:189:MET:HB3	4.40	0.41
5:S3:168:ILE:HD12	5:S3:168:ILE:O	2.21	0.41
25:D3:116:ASP:O	25:D3:118:PRO:HD3	2.20	0.41
41:L4:182:LEU:HA	41:L4:182:LEU:HD13	3.35	0.41
44:L7:223:PHE:HA	44:L7:227:GLY:O	2.21	0.41
28:D6:44:ILE:HD12	28:D6:45:VAL:N	2.36	0.41
39:L2:3:ARG:HB3	39:L2:207:VAL:O	2.52	0.41
40:L3:283:TYR:OH	40:L3:325:LYS:HD2	2.21	0.41
58:N2:42:LYS:NZ	36:5:1687:U:OP2	175.59	0.41
36:1:916:G:OP1	36:1:2957:G:H5''	2.20	0.41
11:S9:129:ILE:HG12	11:S9:134:ILE:CD1	2.51	0.41
54:M8:80:THR:O	54:M8:137:THR:HA	2.49	0.41
40:L3:221:THR:HB	40:L3:273:HIS:O	2.31	0.41
36:1:1845:G:C8	36:1:1845:G:H5''	2.56	0.41
21:C9:26:GLY:O	21:C9:28:LEU:HG	2.21	0.41
36:1:3174:A:H2'	36:1:3175:U:C5'	2.49	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:M7:52:LEU:HD12	53:M7:52:LEU:HA	2.18	0.41
58:N2:31:ALA:C	58:N2:33:TYR:N	2.74	0.41
1:2:477:A:H61	1:2:511:A:N6	2.17	0.41
44:L7:170:GLU:HG3	44:L7:179:LEU:CB	2.51	0.41
44:L7:177:GLY:O	44:L7:178:ILE:HB	2.21	0.41
20:C8:30:TYR:CE2	20:C8:40:ARG:HD2	3.08	0.41
20:C8:145:ARG:HB3	35:SM:68:ARG:CZ	4.93	0.41
1:6:1241:G:C6	1:6:1242:A:C6	3.09	0.41
46:L9:109:ALA:HB1	46:L9:111:PHE:CE2	2.56	0.41
38:8:70:G:N7	87:8:223:OHX:N1	2.68	0.41
47:M0:70:ILE:HG23	47:M0:74:LYS:HE3	3.72	0.41
39:L2:142:ASP:C	39:L2:143:GLU:HG3	2.41	0.41
1:2:327:U:H2'	1:2:328:A:H8	1.81	0.41
62:N6:63:LYS:O	62:N6:66:GLN:HG3	2.22	0.41
40:L3:133:TYR:O	40:L3:136:LYS:HB2	2.26	0.41
6:S4:45:ILE:HB	6:S4:80:THR:HG23	2.29	0.41
44:L7:214:TRP:CD2	44:L7:219:LYS:HD2	3.28	0.41
46:L9:67:ALA:O	46:L9:71:VAL:HG23	2.21	0.41
77:Q1:13:LEU:O	77:Q1:17:ARG:HG3	2.21	0.41
8:S6:27:PHE:C	8:S6:30:LYS:HG2	2.41	0.41
1:2:1283:U:OP1	87:2:2114:OHX:N2	2.54	0.41
67:O1:64:VAL:HG13	36:5:1456:A:C6	163.33	0.41
87:1:3950:OHX:N4	87:1:4037:OHX:N6	2.69	0.41
1:6:625:C:H2'	1:6:626:U:C6	2.56	0.41
38:8:43:A:OP1	87:8:224:OHX:N3	2.54	0.41
1:2:260:U:H3'	1:2:261:U:H5''	2.03	0.41
1:2:260:U:H5	10:S8:43:ILE:HB	1.86	0.41
34:SR:286:GLU:HA	34:SR:287:PRO:HD3	1.78	0.41
54:M8:83:VAL:O	54:M8:85:GLY:N	3.13	0.41
9:S7:77:LEU:HD23	9:S7:77:LEU:HA	1.92	0.41
38:4:122:U:H2'	38:4:123:G:C8	2.55	0.41
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.48	0.41
36:5:2287:C:C5	36:5:2298:U:C2	3.09	0.41
1:6:652:G:N2	1:6:682:C:O2	2.54	0.41
40:L3:287:LYS:HA	40:L3:287:LYS:HD2	4.43	0.41
66:O0:42:ILE:HA	66:O0:90:VAL:O	2.40	0.41
5:S3:191:ASP:HB3	5:S3:194:LYS:HG3	2.03	0.41
36:5:3021:A:H8	36:5:3021:A:OP1	2.04	0.41
33:E1:123:ASN:HA	33:E1:124:PRO:HD2	2.26	0.41
1:6:1405:G:H2'	1:6:1406:A:C8	2.56	0.41
36:1:861:C:H2'	36:1:862:U:H6	1.86	0.41
36:1:1650:G:N7	87:1:4138:OHX:N6	2.69	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:S2:44:LEU:HD21	4:S2:247:ALA:HB2	2.03	0.41
1:2:1311:U:O2'	1:2:1313:A:N7	2.46	0.41
36:1:2727:A:H4'	36:1:2728:G:OP2	2.21	0.41
59:N3:23:MET:HB2	59:N3:99:ALA:HA	2.03	0.41
36:5:1740:U:H1'	36:5:1741:A:N7	2.36	0.41
36:1:1159:A:O2'	36:1:1160:C:H5''	2.20	0.41
1:6:1663:G:C2'	1:6:1664:C:H5'	2.51	0.41
47:M0:52:LEU:HA	47:M0:52:LEU:HD23	1.96	0.41
36:5:1033:U:H2'	36:5:1034:U:H5'	2.03	0.41
5:S3:4:LEU:HA	5:S3:4:LEU:HD22	2.88	0.41
37:7:36:C:O2	37:7:45:A:H1'	2.21	0.41
59:N3:61:THR:HG21	36:5:2295:A:H5'	277.40	0.41
36:5:953:G:H2'	36:5:1117:G:H5''	2.02	0.41
37:7:106:U:H2'	37:7:107:C:O4'	2.21	0.41
4:S2:140:ARG:HH22	4:S2:228:ASN:ND2	2.17	0.40
33:E1:143:LYS:O	33:E1:145:HIS:N	2.54	0.40
36:5:2249:G:C8	36:5:2249:G:H3'	2.56	0.40
21:C9:34:VAL:HG23	21:C9:53:TRP:CZ2	2.56	0.40
49:M3:6:ASN:HB2	64:N8:48:TYR:CE2	2.56	0.40
36:1:317:A:C2	36:1:318:A:C4	3.08	0.40
5:S3:168:ILE:HG22	5:S3:189:MET:HB2	2.40	0.40
1:2:735:C:O2'	1:2:736:C:H5''	2.21	0.40
44:L7:229:PHE:HD1	44:L7:229:PHE:C	2.80	0.40
36:1:2282:U:O2	36:1:2310:U:H4'	2.21	0.40
24:D2:71:LYS:NZ	1:6:1099:U:H5''	374.53	0.40
44:L7:157:ASN:O	44:L7:158:LYS:HB3	2.88	0.40
36:5:3200:G:O6	87:5:4144:OHX:N5	2.54	0.40
25:D3:46:SER:OG	25:D3:78:LYS:NZ	3.03	0.40
1:6:1402:G:C6	1:6:1403:C:C4	3.09	0.40
8:S6:72:ARG:HG2	8:S6:98:ARG:HA	2.03	0.40
16:C4:136:ARG:NH1	1:6:1785:U:OP1	298.75	0.40
34:SR:305:TYR:CD2	34:SR:311:ARG:HD2	2.84	0.40
27:D5:39:ALA:HB1	27:D5:71:ILE:C	2.41	0.40
1:6:300:A:O2'	1:6:301:A:H5'	2.21	0.40
35:SM:61:ILE:HD12	35:SM:62:ARG:HG2	2.02	0.40
27:D5:42:LEU:HD22	27:D5:47:TYR:HB2	6.38	0.40
3:S1:58:SER:O	3:S1:62:LYS:NZ	2.36	0.40
42:L5:95:TRP:O	42:L5:98:ALA:HB3	2.34	0.40
3:S1:81:PHE:O	3:S1:82:ARG:HB2	3.34	0.40
32:E0:55:ARG:NH1	1:6:557:G:OP1	417.45	0.40
67:O1:13:THR:HG22	67:O1:72:ARG:HH11	1.87	0.40
41:L4:150:LEU:CD1	41:L4:249:ILE:HG12	2.50	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:S0:110:TYR:HA	2:S0:115:PHE:CZ	2.57	0.40
11:S9:15:PRO:HG2	11:S9:23:ARG:NH1	3.31	0.40
1:6:489:C:O2'	1:6:490:C:O5'	2.38	0.40
63:N7:23:VAL:HG12	63:N7:45:GLY:CA	2.51	0.40
42:L5:85:ARG:HD3	42:L5:86:TYR:CZ	2.57	0.40
87:1:4052:OHX:N2	87:1:4160:OHX:N4	2.69	0.40
87:1:4052:OHX:N5	87:1:4160:OHX:N1	2.70	0.40
58:N2:104:ARG:HH12	58:N2:106:ALA:HB2	3.76	0.40
24:D2:77:PRO:HD2	24:D2:79:PHE:CE2	2.56	0.40
1:6:478:A:C2	1:6:511:A:C2	3.09	0.40
2:S0:79:ARG:HD2	2:S0:125:ASP:HB2	5.33	0.40
1:2:590:C:H5''	32:E0:43:ARG:HH12	1.86	0.40
52:M6:127:LEU:HD11	56:N0:168:PRO:HG3	2.42	0.40
77:Q1:13:LEU:HD11	77:Q1:17:ARG:NH1	2.36	0.40
44:L7:31:ALA:HA	44:L7:34:LYS:HB2	3.48	0.40
51:M5:113:LEU:HD22	51:M5:136:ASP:HA	5.62	0.40
62:N6:12:ARG:HD3	36:5:215:G:H5''	88.48	0.40
36:1:567:G:O6	87:1:4002:OHX:N1	2.54	0.40
1:2:992:A:H2	1:2:1012:U:O4	2.03	0.40
69:O3:91:ALA:C	69:O3:93:THR:N	2.78	0.40
36:1:3033:A:H2'	36:1:3034:C:H6	1.85	0.40
11:S9:79:ARG:HD3	1:6:763:G:OP2	413.20	0.40
34:SR:126:SER:HB3	34:SR:128:ASP:OD1	2.20	0.40
14:C2:73:LYS:HB3	33:E1:108:VAL:HG11	2.03	0.40
4:S2:35:TRP:CZ3	4:S2:71:THR:HG21	4.25	0.40
59:N3:46:LEU:O	59:N3:47:ASN:HB2	2.20	0.40
67:O1:102:LYS:HG3	67:O1:102:LYS:HZ2	1.81	0.40
73:O7:85:LYS:HE3	38:8:67:U:OP1	22.78	0.40
36:5:698:U:H2'	36:5:699:A:O4'	2.22	0.40
67:O1:36:ILE:HD13	67:O1:59:ILE:HD11	2.49	0.40
59:N3:86:ARG:HA	59:N3:91:VAL:O	2.21	0.40
36:1:349:A:O4'	38:4:24:G:H1'	2.21	0.40
11:S9:45:ILE:HG13	11:S9:105:LEU:HD13	2.73	0.40
38:4:81:U:O2'	38:4:82:U:H5'	2.22	0.40
9:S7:185:ILE:H	9:S7:185:ILE:HG12	2.03	0.40
1:6:1620:C:H2'	1:6:1621:U:C6	2.56	0.40
36:1:1460:A:H2'	36:1:1461:A:H8	1.86	0.40
11:S9:66:ASP:HA	11:S9:67:PRO:HD2	2.00	0.40
15:C3:87:ASP:HB3	15:C3:88:LEU:H	4.05	0.40
1:2:848:C:H2'	1:2:849:C:H6	1.87	0.40
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.51	0.40
1:6:1321:A:H4'	1:6:1322:A:O5'	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:5:1032:C:H5'	36:5:1033:U:OP2	2.21	0.40
8:S6:116:LYS:HG3	8:S6:117:GLY:N	3.16	0.40
36:5:2997:G:O4'	36:5:3396:U:H5'	2.22	0.40
71:O5:45:LYS:O	71:O5:49:LYS:HG2	4.48	0.40
36:5:709:A:H2'	36:5:710:A:O4'	2.21	0.40
1:2:768:C:H2'	1:2:769:A:O4'	2.21	0.40
15:C3:139:TRP:O	15:C3:140:LYS:HB3	3.89	0.40
1:6:434:G:N1	1:6:437:A:OP2	2.53	0.40
55:M9:60:LYS:HE2	36:5:1671:C:OP1	171.03	0.40
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.21	0.40
38:8:137:C:OP2	87:8:228:OHX:N4	2.54	0.40
36:1:1497:C:O2'	36:1:1602:A:N3	2.47	0.40
36:5:3051:U:H2'	36:5:3052:G:O4'	2.21	0.40
1:6:733:A:H2'	1:6:734:A:O4'	2.21	0.40
28:D6:73:TYR:CZ	28:D6:82:ARG:HD3	2.55	0.40
10:S8:193:LEU:HA	10:S8:193:LEU:HD23	1.93	0.40
16:C4:110:LEU:HA	16:C4:110:LEU:HD23	2.23	0.40
47:M0:101:LYS:HD3	47:M0:101:LYS:HA	4.57	0.40
44:L7:153:PHE:N	44:L7:153:PHE:CD2	3.00	0.40
36:1:1081:U:H2'	36:1:1081:U:H6	1.73	0.40
64:N8:133:LEU:HD23	64:N8:133:LEU:HA	1.90	0.40
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.22	0.40
2:S0:147:THR:O	2:S0:161:PRO:HA	3.34	0.40
2:S0:160:ILE:HA	2:S0:161:PRO:HD2	2.59	0.40
36:5:83:U:H2'	36:5:84:U:O4'	2.22	0.40
36:5:871:U:H2'	36:5:872:U:C6	2.56	0.40
36:5:86:G:O2'	36:5:98:G:O6	2.32	0.40
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.55	0.40
59:N3:127:PRO:O	59:N3:130:ALA:N	2.89	0.40
7:S5:20:PHE:CE1	7:S5:22:PRO:HA	2.69	0.40
7:S5:57:SER:OG	7:S5:167:ARG:NH2	2.51	0.40
36:1:1941:C:OP2	55:M9:74:ARG:HG2	2.22	0.40
1:2:1253:U:H4'	33:E1:143:LYS:HB2	2.03	0.40
41:L4:129:THR:O	41:L4:148:ILE:HD11	4.67	0.40
8:S6:176:GLN:HG2	1:6:169:A:H5''	328.70	0.40
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	2.23	0.40
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	2.02	0.40
3:S1:36:SER:HB3	3:S1:231:LEU:HD13	2.04	0.40
1:6:217:A:HO2'	1:6:218:A:H8	1.69	0.40
15:C3:125:LEU:HD23	15:C3:125:LEU:HA	1.97	0.40
40:L3:114:VAL:O	40:L3:117:ARG:HB3	2.22	0.40
9:S7:46:ILE:HD13	9:S7:60:ILE:HG12	2.03	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:M9:117:LYS:HD3	36:5:1718:G:C5'	247.93	0.40
24:D2:89:TRP:HE3	24:D2:93:LEU:HD22	3.05	0.40
6:S4:187:ARG:HH11	6:S4:187:ARG:HG3	4.51	0.40
3:S1:214:LYS:HE3	3:S1:214:LYS:HB2	1.91	0.40
10:S8:26:LYS:O	10:S8:26:LYS:HG3	2.22	0.40
36:1:685:G:P	49:M3:35:ARG:HH12	2.44	0.40
67:O1:13:THR:CG2	67:O1:72:ARG:HH11	2.34	0.40
61:N5:105:VAL:CG1	61:N5:126:LEU:HD22	2.50	0.40
41:L4:3:ARG:HH21	41:L4:3:ARG:HG2	1.86	0.40
21:C9:52:GLY:C	21:C9:54:PHE:H	2.20	0.40
36:5:1055:A:H4'	37:7:100:C:O2	2.21	0.40
17:C5:102:PHE:HZ	1:6:1241:G:H5''	386.15	0.40
67:O1:27:LYS:O	67:O1:31:ARG:HB2	2.22	0.40
36:5:1329:U:O2'	36:5:1330:A:P	2.79	0.40
64:N8:7:LYS:HA	64:N8:7:LYS:HD3	1.61	0.40
7:S5:149:VAL:HG22	30:D8:67:ARG:HB2	2.03	0.40
49:M3:124:ILE:HD13	49:M3:125:VAL:N	4.24	0.40
36:5:2726:C:O2	36:5:2726:C:O5'	2.39	0.40
36:5:741:U:H2'	36:5:742:G:O4'	2.21	0.40
52:M6:127:LEU:HA	52:M6:127:LEU:HD23	1.80	0.40
87:1:4061:OHX:N3	87:1:4174:OHX:N5	2.69	0.40
61:N5:137:ASN:HD22	61:N5:142:ILE:HD11	4.08	0.40
87:1:4084:OHX:N6	87:1:4154:OHX:N3	2.70	0.40
34:SR:115:ILE:HG12	34:SR:116:ASP:N	2.36	0.40
36:1:129:U:H2'	36:1:130:A:C8	2.56	0.40
1:2:1002:G:H2'	1:2:1003:A:H5'	2.02	0.40
36:5:2561:A:O2'	36:5:2562:A:H8	2.04	0.40
36:1:772:U:H2'	36:1:773:G:H8	1.86	0.40
36:1:2101:C:O2'	36:1:2102:U:H6	2.05	0.40
14:C2:132:GLU:O	14:C2:136:ILE:HG12	2.21	0.40
17:C5:56:PHE:O	17:C5:60:LEU:HB2	2.20	0.40
5:S3:158:ILE:HG21	5:S3:202:LEU:HD21	2.03	0.40
1:2:446:A:O2'	1:2:447:U:H5'	2.21	0.40
5:S3:29:LEU:HD21	5:S3:69:LEU:HD21	3.37	0.40
8:S6:193:LEU:HA	8:S6:193:LEU:HD23	1.84	0.40
36:1:2971:A:H5''	36:1:2972:G:C5'	2.51	0.40
1:6:1218:G:O4'	1:6:1444:A:N6	2.53	0.40
13:C1:84:ILE:HG23	13:C1:111:VAL:HG11	2.03	0.40
1:6:1138:A:H2'	1:6:1139:A:H8	1.86	0.40
36:1:993:G:C5	36:1:2637:A:C2	3.09	0.40
36:5:3306:U:H6	36:5:3306:U:O5'	2.05	0.40
6:S4:211:LYS:HE3	6:S4:211:LYS:HB2	4.49	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:SR:6:VAL:HG22	34:SR:7:LEU:N	3.22	0.40
36:5:3203:U:H2'	36:5:3204:C:C6	2.56	0.40
36:1:3143:C:O2'	87:1:3898:OHX:N2	2.54	0.40
36:1:1313:G:OP1	52:M6:82:LYS:HE2	2.21	0.40
36:1:2203:U:H2'	36:1:2204:C:C6	2.56	0.40
36:1:668:G:OP1	87:1:4120:OHX:N2	2.54	0.40
36:5:2322:C:OP1	87:5:4160:OHX:N6	2.54	0.40
73:O7:75:LYS:NZ	38:8:94:C:OP1	48.98	0.40
68:O2:20:HIS:O	68:O2:21:HIS:HB2	2.20	0.40
19:C7:115:LEU:HB3	19:C7:116:LYS:H	1.66	0.40
36:5:3255:U:H2'	36:5:3256:G:H8	1.86	0.40
36:1:537:A:C2	36:1:557:A:C4	3.08	0.40
13:C1:35:TYR:CD2	13:C1:49:ILE:HG12	2.57	0.40
14:C2:26:ASP:O	14:C2:30:VAL:HG23	2.21	0.40
21:C9:140:LEU:HD12	21:C9:140:LEU:HA	4.28	0.40
8:S6:216:LEU:HD23	8:S6:216:LEU:HA	2.48	0.40
78:Q2:104:LEU:HA	78:Q2:104:LEU:HD12	1.80	0.40
1:2:319:U:O5'	1:2:319:U:H6	2.04	0.40
36:1:2264:U:OP2	87:1:3985:OHX:N5	2.54	0.40
13:C1:113:PRO:O	13:C1:114:ALA:HB2	4.37	0.40
68:O2:9:ILE:HG12	68:O2:63:THR:HB	2.02	0.40
40:L3:59:ASP:OD1	40:L3:71:GLU:HG2	3.09	0.40
40:L3:187:SER:O	40:L3:190:GLU:N	2.54	0.40
28:D6:8:ASN:HB2	28:D6:9:GLY:H	2.57	0.40
53:M7:87:SER:O	53:M7:91:VAL:HG23	4.04	0.40
16:C4:37:GLU:HA	1:6:895:G:O2'	259.19	0.40
36:1:2273:G:O6	87:1:4139:OHX:N5	2.54	0.40
3:S1:201:THR:O	3:S1:204:ILE:N	2.37	0.40
36:1:1686:U:O2	36:1:1688:U:H1'	2.22	0.40
39:L2:193:ARG:O	39:L2:195:SER:N	3.21	0.40
64:N8:10:LYS:HD2	64:N8:10:LYS:HA	2.60	0.40
34:SR:71:CYS:HA	34:SR:81:LEU:O	2.21	0.40
36:5:1313:G:H2'	36:5:1314:C:C6	2.57	0.40
64:N8:94:ALA:HB2	64:N8:121:VAL:HG22	2.03	0.40
51:M5:93:LYS:O	51:M5:94:TYR:CB	2.66	0.40
1:2:323:A:OP2	10:S8:10:LYS:HA	2.22	0.40
36:5:3364:C:H2'	36:5:3365:U:H6	1.84	0.40
40:L3:94:GLU:HB3	52:M6:152:VAL:HG21	3.74	0.40
48:M1:110:ILE:C	48:M1:112:LEU:H	2.25	0.40
35:SM:79:SER:HA	35:SM:82:THR:HG23	2.02	0.40
51:M5:50:ARG:HB3	51:M5:50:ARG:HH11	1.86	0.40
25:D3:13:ARG:HA	25:D3:16:ARG:CD	2.50	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:1:2656:A:C8	36:1:2658:G:C8	3.09	0.40
1:2:458:G:H5''	1:2:459:G:OP1	2.21	0.40
11:S9:171:ARG:HA	11:S9:171:ARG:NE	2.78	0.40
2:S0:101:ARG:NH1	2:S0:101:ARG:HG2	3.58	0.40
21:C9:39:THR:O	21:C9:96:ALA:HB1	2.50	0.40
36:5:1018:G:H2'	36:5:1019:G:O4'	2.22	0.40
9:S7:66:SER:O	9:S7:69:GLY:N	3.26	0.40
32:E0:14:VAL:HA	32:E0:17:GLN:HG2	2.31	0.40
14:C2:140:PHE:HA	14:C2:140:PHE:HD2	1.88	0.40
11:S9:97:LEU:HA	11:S9:97:LEU:HD23	1.96	0.40
10:S8:196:LEU:HD12	10:S8:196:LEU:HA	1.76	0.40
63:N7:35:SER:O	63:N7:36:HIS:C	2.60	0.40
36:1:656:A:C2	36:1:1440:G:C2	3.10	0.40
4:S2:35:TRP:CD1	4:S2:35:TRP:C	2.93	0.40
4:S2:35:TRP:CD1	4:S2:67:GLN:NE2	3.93	0.40
66:O0:78:GLY:HA2	66:O0:87:VAL:HG13	2.02	0.40
46:L9:4:ILE:HD11	56:N0:148:LEU:HD11	2.04	0.40
1:6:20:G:H5'	1:6:571:G:C4	2.57	0.40
37:3:58:C:OP2	87:3:219:OHX:N6	2.53	0.40
18:C6:77:GLN:O	18:C6:81:ILE:HG23	2.20	0.40
72:O6:60:LEU:HD22	72:O6:68:ARG:HE	1.86	0.40
1:2:1149:G:H1'	1:2:1765:A:C4	2.56	0.40
36:5:2271:A:N7	36:5:2272:G:C6	2.89	0.40
36:1:763:G:HO2'	36:1:764:U:P	2.45	0.40
40:L3:275:ARG:NH1	36:5:3045:G:O3'	234.59	0.40
1:6:1064:G:H2'	1:6:1065:A:C8	2.57	0.40
73:O7:47:TYR:HB3	73:O7:49:TRP:NE1	2.66	0.40
61:N5:93:TYR:CE2	38:8:131:A:H5''	105.65	0.40
5:S3:196:ARG:HB3	5:S3:197:THR:H	2.88	0.40
4:S2:107:SER:O	4:S2:192:GLY:HA3	3.27	0.40
51:M5:177:GLY:HA2	36:5:68:C:O3'	111.39	0.40
36:5:2877:G:H2'	36:5:2878:G:O4'	2.22	0.40
1:6:1759:C:H2'	1:6:1760:G:O4'	2.22	0.40
9:S7:167:GLU:O	9:S7:170:GLN:HB2	2.59	0.40
36:5:1118:C:O5'	36:5:1118:C:H6	2.04	0.40
36:5:2995:A:H8	36:5:2995:A:O5'	2.04	0.40
22:D0:32:LYS:HA	22:D0:32:LYS:HD2	1.87	0.40
34:SR:250:TYR:N	34:SR:250:TYR:CD1	3.10	0.40
12:C0:70:GLU:O	12:C0:73:VAL:HB	2.21	0.40
36:1:3335:A:H2'	36:1:3336:A:C8	2.56	0.40
36:1:1748:G:C6	36:1:1749:A:C6	3.10	0.40
7:S5:64:VAL:HG22	7:S5:89:ILE:HD11	2.04	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:6:1471:A:C2	1:6:1474:G:N3	2.90	0.40
87:1:4080:OHX:N6	87:1:4150:OHX:N5	2.70	0.40
41:L4:139:GLY:O	41:L4:141:ARG:NH1	4.84	0.40
4:S2:224:PHE:HE2	1:6:1098:U:C5	392.99	0.40
34:SR:161:LYS:O	34:SR:163:ASP:N	2.42	0.40
16:C4:117:ASP:OD2	16:C4:119:THR:HG23	3.82	0.40
44:L7:160:ARG:HD2	44:L7:203:TRP:CE2	2.57	0.40
53:M7:168:LEU:HB3	53:M7:172:GLN:HB2	2.04	0.40
52:M6:176:LYS:HE3	36:5:3192:U:OP1	315.62	0.40
53:M7:69:ARG:HD3	36:5:3309:G:H1'	186.52	0.40
36:1:1686:U:OP1	58:N2:42:LYS:NZ	2.41	0.40
51:M5:68:ARG:NH1	36:5:291:C:O5'	148.45	0.40
9:S7:31:SER:O	9:S7:35:LYS:HB3	2.54	0.40
36:1:2112:U:O5'	36:1:2112:U:H6	2.04	0.40
8:S6:153:VAL:O	8:S6:156:PHE:N	2.48	0.40
8:S6:175:ILE:HB	8:S6:178:LEU:HD22	2.35	0.40
14:C2:97:LEU:HD11	14:C2:121:VAL:HG23	2.03	0.40
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	2.03	0.40
19:C7:104:ASN:ND2	19:C7:105:GLN:OE1	5.07	0.40
1:6:754:A:N6	1:6:793:A:H62	2.20	0.40
10:S8:39:GLY:H	10:S8:60:ILE:C	2.19	0.40
9:S7:138:LYS:HD3	9:S7:150:GLN:OE1	5.20	0.40
13:C1:55:ASP:OD2	13:C1:110:HIS:HE1	2.03	0.40
52:M6:78:ARG:HD2	52:M6:78:ARG:HA	1.87	0.40
15:C3:28:LEU:HA	15:C3:28:LEU:HD23	1.90	0.40
87:D9:102:OHX:N3	87:6:2129:OHX:N5	406.38	0.40
87:D9:102:OHX:N4	87:6:2129:OHX:N2	406.01	0.40
36:5:961:C:N3	87:5:4178:OHX:N4	2.69	0.40
36:1:250:U:C5	36:1:251:G:N7	2.89	0.40
14:C2:75:VAL:HG21	14:C2:120:VAL:HG21	2.03	0.40
46:L9:38:LEU:HA	46:L9:38:LEU:HD23	1.88	0.40
45:L8:210:ALA:O	45:L8:213:LYS:HB3	3.03	0.40
36:5:2440:G:N2	36:5:2508:U:C2	2.89	0.40
36:1:3039:C:OP1	59:N3:88:ARG:NH2	2.51	0.40
14:C2:60:VAL:HG13	14:C2:122:VAL:HG22	2.03	0.40
1:2:1321:A:H4'	1:2:1322:A:O5'	2.21	0.40
4:S2:35:TRP:HZ3	4:S2:71:THR:HG21	3.55	0.40
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	2.03	0.40
1:6:1070:C:H2'	1:6:1071:U:O4'	2.21	0.40
68:O2:19:ARG:HD2	68:O2:28:VAL:HG13	2.55	0.40
36:1:1273:A:O2'	36:1:1274:A:OP1	2.33	0.40
36:5:2722:U:H2'	36:5:2723:U:C6	2.57	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
87:1:4012:OHX:N6	70:O4:64:THR:O	2.55	0.40
37:3:47:C:H2'	37:3:48:U:C6	2.57	0.40
41:L4:265:GLU:OE2	41:L4:266:THR:HG23	2.21	0.40
44:L7:93:ASN:O	44:L7:95:ILE:HG12	2.21	0.40
48:M1:7:ASN:N	48:M1:8:PRO:HD3	3.04	0.40
36:5:1648:A:H2'	36:5:1649:U:O4'	2.21	0.40
36:1:3020:U:H3'	36:1:3021:A:H2'	2.04	0.40
29:D7:77:THR:HB	29:D7:78:SER:H	1.57	0.40
43:L6:35:VAL:O	43:L6:38:THR:OG1	2.52	0.40
10:S8:121:LEU:HD12	10:S8:157:GLU:HG3	2.03	0.40
36:1:1243:G:OP2	36:1:1243:G:H8	2.05	0.40
1:2:1071:U:H2'	1:2:1072:C:C6	2.56	0.40
1:2:632:U:OP1	13:C1:102:LYS:HG3	2.21	0.40
45:L8:49:TYR:O	36:5:2523:A:H2'	170.72	0.40
36:5:789:A:H2'	36:5:790:U:C6	2.56	0.40
1:6:1122:G:O6	87:6:2163:OHX:N6	2.54	0.40
68:O2:47:ARG:HD3	36:5:634:C:O2'	215.68	0.40
40:L3:37:ARG:O	40:L3:186:GLY:HA2	2.21	0.40
11:S9:110:GLN:HE22	11:S9:126:ARG:CA	5.32	0.40
40:L3:139:GLN:H	40:L3:139:GLN:HG3	1.66	0.40
36:5:2512:C:C4	36:5:2513:U:O4	2.74	0.40
1:2:990:C:H2'	1:2:991:G:O4'	2.21	0.40
36:1:2960:C:H2'	36:1:2961:G:H8	1.86	0.40
2:S0:163:ASN:HB3	2:S0:169:SER:OG	3.11	0.40
47:M0:95:HIS:HB2	47:M0:128:ARG:HD2	2.04	0.40
47:M0:12:GLN:HA	47:M0:59:GLN:OE1	3.98	0.40
41:L4:190:GLY:C	41:L4:192:GLY:H	2.25	0.40
1:2:1785:U:OP2	16:C4:133:ARG:NH2	2.42	0.40
22:D0:16:GLN:HB3	22:D0:17:GLN:H	1.64	0.40
22:D0:50:LEU:HB3	22:D0:51:VAL:H	1.59	0.40
9:S7:25:VAL:O	9:S7:28:GLU:HB2	2.22	0.40
11:S9:129:ILE:O	11:S9:134:ILE:HD11	4.75	0.40
34:SR:172:ALA:HB2	34:SR:202:LEU:HD13	2.04	0.40
52:M6:83:ALA:CB	36:5:1313:G:H5'	259.34	0.40
19:C7:103:ASP:H	19:C7:106:THR:CG2	3.83	0.40
54:M8:178:ARG:HD2	64:N8:50:PRO:HB2	4.02	0.40
75:O9:44:TRP:CE2	75:O9:45:ARG:HG2	5.18	0.40
41:L4:338:LYS:C	41:L4:340:GLY:H	2.19	0.40
36:5:3245:A:H2	36:5:3246:G:C6	2.40	0.40
40:L3:150:ARG:CG	40:L3:150:ARG:HH11	2.34	0.40
10:S8:163:GLY:HA3	36:1:3354:U:H1'	2.03	0.40
34:SR:91:LEU:O	34:SR:100:TYR:N	2.44	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
76:Q0:113:ARG:NH2	36:5:1190:A:H4'	291.35	0.40
40:L3:171:LEU:O	87:L3:405:OHX:N6	2.54	0.40
36:5:2437:G:H2'	36:5:2438:A:O4'	2.21	0.40
1:2:709:C:C4	1:2:710:U:H1'	2.57	0.40
4:S2:235:LEU:HA	4:S2:236:PRO:HD3	2.19	0.40
8:S6:12:SER:HB3	8:S6:124:LEU:HD12	3.39	0.40
49:M3:126:PHE:HA	49:M3:127:PRO:HD2	2.53	0.40
36:5:523:A:N6	36:5:570:A:C2	2.90	0.40
45:L8:166:LEU:HD23	45:L8:166:LEU:HA	1.94	0.40
40:L3:255:TRP:O	40:L3:255:TRP:HD1	2.05	0.40
36:1:1720:U:C4	55:M9:124:TYR:CE2	3.10	0.40
1:2:992:A:OP1	87:2:2034:OHX:N2	2.54	0.40
7:S5:128:ASN:O	7:S5:131:GLN:HB3	2.22	0.40
1:6:271:A:H5'	1:6:272:U:OP2	2.21	0.40
1:2:912:U:H4'	1:2:913:G:H2'	2.03	0.40
36:5:3057:U:O2'	36:5:3059:G:OP1	2.39	0.40
1:2:1000:C:O2'	1:2:1002:G:N7	2.49	0.40
36:1:2622:C:H2'	36:1:2623:G:H5'	2.03	0.40
34:SR:278:PHE:CE2	34:SR:287:PRO:HG2	2.57	0.40
25:D3:67:ALA:HB1	1:6:567:A:OP2	361.37	0.40
36:5:2790:A:O2'	87:5:4069:OHX:N4	2.54	0.40
39:L2:244:GLY:N	36:5:2244:A:OP1	230.78	0.40
54:M8:184:PHE:CG	36:5:2730:G:H4'	191.37	0.40
45:L8:195:SER:O	45:L8:196:ALA:HB3	2.21	0.40
1:2:1229:G:H1	14:C2:47:GLU:HG3	1.85	0.40
36:1:3315:G:C5	40:L3:123:TYR:CE2	3.10	0.40
60:N4:86:SER:C	60:N4:88:ASP:H	2.25	0.40
1:2:29:U:H2'	1:2:30:G:H8	1.86	0.40
1:2:617:U:O4'	1:2:1031:U:C2	2.75	0.40
1:2:395:U:H2'	1:2:396:G:O4'	2.21	0.40
42:L5:272:TYR:CD2	37:7:22:A:C4	329.85	0.40
69:O3:86:ARG:HH12	36:5:498:A:H5'	217.02	0.40
36:5:1049:C:H2'	36:5:1050:U:H6	1.85	0.40
63:N7:64:LYS:HD3	63:N7:64:LYS:HA	1.86	0.40
8:S6:5:ILE:HG22	8:S6:113:ILE:HG13	2.03	0.40
68:O2:60:ASN:ND2	36:5:1338:C:H4'	202.10	0.40
8:S6:214:LYS:HB3	8:S6:218:GLU:OE1	6.52	0.40
1:6:1060:U:H4'	1:6:1061:A:H5''	2.04	0.40
43:L6:152:THR:HA	43:L6:153:PRO:HD3	1.95	0.40
42:L5:191:ASP:HA	42:L5:192:PRO:HD3	1.95	0.40
37:3:33:U:C6	42:L5:207:TYR:CE2	3.10	0.40
1:2:1187:U:O2'	1:2:1188:G:H5'	2.22	0.40

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

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:2:236:A:O2'	38:4:158:U:O2'[2_556]	2.06	0.14
34:SR:137:LYS:NZ	36:5:3293:U:O4[2_546]	2.10	0.10

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%)	151 (74%)	36 (18%)	17 (8%)	1	3
2	s0	204/251 (81%)	157 (77%)	30 (15%)	17 (8%)	1	3
3	S1	212/254 (84%)	145 (68%)	35 (16%)	32 (15%)	0	1
3	s1	214/254 (84%)	179 (84%)	21 (10%)	14 (6%)	2	5
4	S2	215/253 (85%)	190 (88%)	17 (8%)	8 (4%)	5	20
4	s2	215/253 (85%)	184 (86%)	20 (9%)	11 (5%)	3	10
5	S3	221/239 (92%)	194 (88%)	19 (9%)	8 (4%)	5	22
5	s3	221/239 (92%)	182 (82%)	24 (11%)	15 (7%)	2	5
6	S4	258/260 (99%)	213 (83%)	34 (13%)	11 (4%)	4	15
6	s4	258/260 (99%)	224 (87%)	19 (7%)	15 (6%)	3	7
7	S5	204/224 (91%)	166 (81%)	20 (10%)	18 (9%)	1	3
7	s5	204/224 (91%)	167 (82%)	18 (9%)	19 (9%)	1	2
8	S6	224/236 (95%)	194 (87%)	19 (8%)	11 (5%)	3	12
8	s6	216/236 (92%)	189 (88%)	20 (9%)	7 (3%)	6	25
9	S7	182/189 (96%)	137 (75%)	26 (14%)	19 (10%)	1	2
9	s7	184/189 (97%)	154 (84%)	21 (11%)	9 (5%)	3	12
10	S8	184/200 (92%)	156 (85%)	13 (7%)	15 (8%)	1	3
10	s8	184/200 (92%)	163 (89%)	15 (8%)	6 (3%)	6	24
11	S9	183/196 (93%)	153 (84%)	21 (12%)	9 (5%)	3	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	s9	183/196 (93%)	154 (84%)	19 (10%)	10 (6%)	3	8
12	C0	94/105 (90%)	74 (79%)	13 (14%)	7 (7%)	2	4
12	c0	92/105 (88%)	65 (71%)	15 (16%)	12 (13%)	0	1
13	C1	153/155 (99%)	125 (82%)	14 (9%)	14 (9%)	1	2
13	c1	144/155 (93%)	123 (85%)	14 (10%)	7 (5%)	3	12
14	C2	122/142 (86%)	76 (62%)	24 (20%)	22 (18%)	0	0
14	c2	122/142 (86%)	74 (61%)	30 (25%)	18 (15%)	0	1
15	C3	148/150 (99%)	129 (87%)	13 (9%)	6 (4%)	4	17
15	c3	148/150 (99%)	124 (84%)	14 (10%)	10 (7%)	2	5
16	C4	125/136 (92%)	98 (78%)	16 (13%)	11 (9%)	1	3
16	c4	126/136 (93%)	102 (81%)	12 (10%)	12 (10%)	1	2
17	C5	122/141 (86%)	91 (75%)	21 (17%)	10 (8%)	1	3
17	c5	133/141 (94%)	97 (73%)	22 (16%)	14 (10%)	1	2
18	C6	139/142 (98%)	122 (88%)	11 (8%)	6 (4%)	4	15
18	c6	140/142 (99%)	124 (89%)	10 (7%)	6 (4%)	4	15
19	C7	116/136 (85%)	87 (75%)	20 (17%)	9 (8%)	1	3
19	c7	113/136 (83%)	92 (81%)	10 (9%)	11 (10%)	1	2
20	C8	143/145 (99%)	117 (82%)	14 (10%)	12 (8%)	1	3
20	c8	143/145 (99%)	120 (84%)	16 (11%)	7 (5%)	3	12
21	C9	141/143 (99%)	121 (86%)	14 (10%)	6 (4%)	4	15
21	c9	141/143 (99%)	117 (83%)	17 (12%)	7 (5%)	3	11
22	D0	105/120 (88%)	87 (83%)	14 (13%)	4 (4%)	5	19
22	d0	108/120 (90%)	86 (80%)	13 (12%)	9 (8%)	1	3
23	D1	85/87 (98%)	67 (79%)	11 (13%)	7 (8%)	1	3
23	d1	85/87 (98%)	76 (89%)	8 (9%)	1 (1%)	19	57
24	D2	127/129 (98%)	113 (89%)	11 (9%)	3 (2%)	9	35
24	d2	127/129 (98%)	117 (92%)	9 (7%)	1 (1%)	27	68
25	D3	142/144 (99%)	109 (77%)	17 (12%)	16 (11%)	1	1
25	d3	142/144 (99%)	124 (87%)	17 (12%)	1 (1%)	30	72
26	D4	132/134 (98%)	111 (84%)	14 (11%)	7 (5%)	3	9
26	d4	132/134 (98%)	109 (83%)	18 (14%)	5 (4%)	5	19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
27	D5	68/107 (64%)	48 (71%)	10 (15%)	10 (15%)	0	1
27	d5	67/107 (63%)	52 (78%)	10 (15%)	5 (8%)	2	4
28	D6	95/97 (98%)	66 (70%)	10 (10%)	19 (20%)	0	0
28	d6	95/97 (98%)	74 (78%)	13 (14%)	8 (8%)	1	3
29	D7	79/81 (98%)	61 (77%)	15 (19%)	3 (4%)	5	19
29	d7	79/81 (98%)	62 (78%)	12 (15%)	5 (6%)	2	6
30	D8	61/66 (92%)	51 (84%)	6 (10%)	4 (7%)	2	5
30	d8	61/66 (92%)	46 (75%)	13 (21%)	2 (3%)	6	24
31	D9	51/55 (93%)	41 (80%)	8 (16%)	2 (4%)	5	18
31	d9	51/55 (93%)	43 (84%)	4 (8%)	4 (8%)	1	3
32	E0	58/60 (97%)	45 (78%)	10 (17%)	3 (5%)	3	10
33	E1	69/76 (91%)	35 (51%)	19 (28%)	15 (22%)	0	0
34	SR	316/318 (99%)	252 (80%)	36 (11%)	28 (9%)	1	3
34	sR	316/318 (99%)	274 (87%)	30 (10%)	12 (4%)	5	19
35	SM	155/273 (57%)	112 (72%)	22 (14%)	21 (14%)	0	1
35	sM	98/273 (36%)	65 (66%)	18 (18%)	15 (15%)	0	1
39	L2	250/253 (99%)	222 (89%)	25 (10%)	3 (1%)	19	57
39	l2	250/253 (99%)	219 (88%)	25 (10%)	6 (2%)	9	35
40	L3	384/386 (100%)	339 (88%)	31 (8%)	14 (4%)	5	22
40	l3	384/386 (100%)	343 (89%)	31 (8%)	10 (3%)	8	32
41	L4	359/361 (99%)	303 (84%)	37 (10%)	19 (5%)	3	9
41	l4	359/361 (99%)	309 (86%)	31 (9%)	19 (5%)	3	9
42	L5	294/296 (99%)	249 (85%)	27 (9%)	18 (6%)	2	7
42	l5	292/296 (99%)	256 (88%)	32 (11%)	4 (1%)	16	52
43	L6	152/175 (87%)	140 (92%)	10 (7%)	2 (1%)	18	54
43	l6	153/175 (87%)	130 (85%)	19 (12%)	4 (3%)	8	32
44	L7	220/243 (90%)	202 (92%)	11 (5%)	7 (3%)	6	25
44	l7	221/243 (91%)	204 (92%)	14 (6%)	3 (1%)	16	52
45	L8	231/255 (91%)	189 (82%)	30 (13%)	12 (5%)	3	10
45	l8	229/255 (90%)	185 (81%)	23 (10%)	21 (9%)	1	2
46	L9	189/191 (99%)	170 (90%)	15 (8%)	4 (2%)	11	39

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	l9	189/191 (99%)	173 (92%)	13 (7%)	3 (2%)	14	47
47	M0	207/220 (94%)	182 (88%)	18 (9%)	7 (3%)	6	23
47	m0	209/220 (95%)	175 (84%)	25 (12%)	9 (4%)	4	15
48	M1	167/173 (96%)	127 (76%)	26 (16%)	14 (8%)	1	3
48	m1	167/173 (96%)	143 (86%)	15 (9%)	9 (5%)	3	9
49	M3	191/198 (96%)	170 (89%)	17 (9%)	4 (2%)	11	39
49	m3	192/198 (97%)	162 (84%)	18 (9%)	12 (6%)	2	6
50	M4	134/137 (98%)	116 (87%)	11 (8%)	7 (5%)	3	10
50	m4	135/137 (98%)	126 (93%)	7 (5%)	2 (2%)	15	50
51	M5	201/203 (99%)	186 (92%)	8 (4%)	7 (4%)	6	23
51	m5	201/203 (99%)	179 (89%)	16 (8%)	6 (3%)	7	27
52	M6	195/198 (98%)	183 (94%)	7 (4%)	5 (3%)	8	32
52	m6	195/198 (98%)	184 (94%)	8 (4%)	3 (2%)	15	50
53	M7	181/183 (99%)	156 (86%)	17 (9%)	8 (4%)	4	15
53	m7	153/183 (84%)	136 (89%)	16 (10%)	1 (1%)	30	72
54	M8	183/185 (99%)	166 (91%)	12 (7%)	5 (3%)	8	30
54	m8	183/185 (99%)	161 (88%)	15 (8%)	7 (4%)	5	19
55	M9	186/188 (99%)	177 (95%)	7 (4%)	2 (1%)	21	60
55	m9	186/188 (99%)	169 (91%)	14 (8%)	3 (2%)	14	47
56	N0	170/172 (99%)	156 (92%)	10 (6%)	4 (2%)	9	35
56	n0	170/172 (99%)	158 (93%)	11 (6%)	1 (1%)	33	76
57	N1	157/159 (99%)	137 (87%)	14 (9%)	6 (4%)	5	19
57	n1	157/159 (99%)	142 (90%)	12 (8%)	3 (2%)	12	42
58	N2	98/120 (82%)	73 (74%)	19 (19%)	6 (6%)	2	7
58	n2	96/120 (80%)	79 (82%)	13 (14%)	4 (4%)	4	16
59	N3	134/136 (98%)	125 (93%)	8 (6%)	1 (1%)	30	72
59	n3	134/136 (98%)	125 (93%)	7 (5%)	2 (2%)	15	50
60	N4	96/155 (62%)	72 (75%)	15 (16%)	9 (9%)	1	2
60	n4	133/155 (86%)	113 (85%)	11 (8%)	9 (7%)	2	5
61	N5	119/141 (84%)	108 (91%)	9 (8%)	2 (2%)	14	45
61	n5	118/141 (84%)	97 (82%)	15 (13%)	6 (5%)	3	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
62	N6	124/126 (98%)	111 (90%)	7 (6%)	6 (5%)	4	12
62	n6	124/126 (98%)	109 (88%)	10 (8%)	5 (4%)	5	17
63	N7	133/135 (98%)	115 (86%)	11 (8%)	7 (5%)	3	9
63	n7	133/135 (98%)	109 (82%)	11 (8%)	13 (10%)	1	2
64	N8	146/148 (99%)	120 (82%)	18 (12%)	8 (6%)	3	8
64	n8	146/148 (99%)	129 (88%)	16 (11%)	1 (1%)	30	72
65	N9	56/58 (97%)	50 (89%)	4 (7%)	2 (4%)	5	22
65	n9	56/58 (97%)	44 (79%)	9 (16%)	3 (5%)	3	9
66	O0	95/104 (91%)	89 (94%)	4 (4%)	2 (2%)	11	39
66	o0	98/104 (94%)	88 (90%)	8 (8%)	2 (2%)	11	40
67	O1	107/112 (96%)	96 (90%)	7 (6%)	4 (4%)	5	20
67	o1	107/112 (96%)	89 (83%)	10 (9%)	8 (8%)	2	4
68	O2	125/129 (97%)	113 (90%)	11 (9%)	1 (1%)	27	68
68	o2	125/129 (97%)	108 (86%)	14 (11%)	3 (2%)	9	35
69	O3	104/106 (98%)	99 (95%)	4 (4%)	1 (1%)	22	63
69	o3	104/106 (98%)	95 (91%)	6 (6%)	3 (3%)	7	28
70	O4	110/119 (92%)	102 (93%)	7 (6%)	1 (1%)	25	66
70	o4	110/119 (92%)	102 (93%)	5 (4%)	3 (3%)	8	30
71	O5	117/119 (98%)	104 (89%)	9 (8%)	4 (3%)	6	23
71	o5	117/119 (98%)	105 (90%)	10 (8%)	2 (2%)	14	45
72	O6	97/99 (98%)	78 (80%)	13 (13%)	6 (6%)	2	6
72	o6	97/99 (98%)	84 (87%)	5 (5%)	8 (8%)	1	3
73	O7	85/87 (98%)	74 (87%)	11 (13%)	0	100	100
73	o7	85/87 (98%)	74 (87%)	9 (11%)	2 (2%)	9	35
74	O8	75/77 (97%)	65 (87%)	8 (11%)	2 (3%)	8	30
74	o8	75/77 (97%)	67 (89%)	5 (7%)	3 (4%)	5	17
75	O9	48/50 (96%)	43 (90%)	5 (10%)	0	100	100
75	o9	48/50 (96%)	45 (94%)	2 (4%)	1 (2%)	11	39
76	Q0	50/52 (96%)	46 (92%)	2 (4%)	2 (4%)	5	17
76	q0	50/52 (96%)	49 (98%)	0	1 (2%)	11	40
77	Q1	23/25 (92%)	22 (96%)	1 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
77	q1	23/25 (92%)	21 (91%)	2 (9%)	0	100	100
78	Q2	103/105 (98%)	89 (86%)	9 (9%)	5 (5%)	3	12
78	q2	103/105 (98%)	94 (91%)	7 (7%)	2 (2%)	12	42
79	Q3	89/91 (98%)	81 (91%)	6 (7%)	2 (2%)	10	37
79	q3	89/91 (98%)	81 (91%)	6 (7%)	2 (2%)	10	37
80	e0	60/62 (97%)	51 (85%)	5 (8%)	4 (7%)	2	5
81	e1	74/76 (97%)	37 (50%)	18 (24%)	19 (26%)	0	0
83	p0	139/311 (45%)	114 (82%)	21 (15%)	4 (3%)	7	28
All	All	22333/24141 (92%)	18964 (85%)	2226 (10%)	1143 (5%)	3	10

All (1143) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	30	GLN
2	S0	39	ASN
2	S0	95	ALA
2	S0	158	VAL
2	S0	191	ARG
3	S1	49	ASN
3	S1	81	PHE
3	S1	206	PRO
3	S1	221	PRO
5	S3	62	ASN
5	S3	93	ASP
5	S3	216	PRO
5	S3	220	PRO
6	S4	80	THR
6	S4	104	ASP
7	S5	26	ALA
7	S5	39	GLU
7	S5	43	PHE
7	S5	63	GLN
8	S6	122	GLU
8	S6	154	ARG
8	S6	173	PRO
8	S6	174	LYS
9	S7	31	SER
9	S7	64	VAL

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Mol	Chain	Res	Type
9	S7	111	LYS
9	S7	112	ARG
9	S7	131	PHE
9	S7	155	ASP
10	S8	22	ARG
10	S8	81	VAL
10	S8	120	THR
10	S8	149	SER
10	S8	152	ILE
11	S9	134	ILE
11	S9	150	LEU
12	C0	54	TYR
12	C0	85	HIS
12	C0	87	VAL
12	C0	88	PRO
13	C1	7	VAL
13	C1	29	LYS
13	C1	139	VAL
14	C2	101	ALA
14	C2	115	VAL
14	C2	126	TRP
14	C2	130	THR
15	C3	22	ALA
15	C3	27	LYS
16	C4	42	VAL
16	C4	50	ALA
16	C4	124	ASP
16	C4	125	SER
16	C4	126	THR
18	C6	58	ASP
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
19	C7	124	VAL
20	C8	14	ILE
20	C8	60	GLU
20	C8	61	LEU
20	C8	82	PRO
20	C8	83	ALA
20	C8	91	ASP
20	C8	92	ILE
21	C9	53	TRP

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Mol	Chain	Res	Type
22	D0	17	GLN
24	D2	66	ASN
24	D2	127	GLY
25	D3	5	LYS
25	D3	92	CYS
25	D3	114	LYS
25	D3	125	VAL
25	D3	131	SER
25	D3	137	LYS
25	D3	144	ARG
26	D4	35	VAL
27	D5	43	ASP
27	D5	44	GLN
27	D5	56	THR
27	D5	71	ILE
28	D6	45	VAL
28	D6	82	ARG
28	D6	84	VAL
28	D6	85	ARG
29	D7	38	PRO
31	D9	8	PHE
32	E0	47	VAL
33	E1	98	VAL
33	E1	102	VAL
33	E1	103	LEU
33	E1	138	ARG
34	SR	24	ALA
34	SR	114	ASP
34	SR	155	ARG
34	SR	161	LYS
34	SR	203	THR
35	SM	52	PRO
35	SM	87	THR
35	SM	140	ASP
35	SM	166	VAL
35	SM	167	PRO
39	L2	144	ASN
40	L3	3	HIS
40	L3	5	LYS
40	L3	140	ASP
40	L3	347	SER
41	L4	4	PRO

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Mol	Chain	Res	Type
41	L4	130	ALA
41	L4	268	ALA
41	L4	269	SER
41	L4	270	SER
41	L4	311	HIS
41	L4	320	ASN
42	L5	215	ASP
42	L5	233	ALA
42	L5	234	ASP
42	L5	258	LYS
44	L7	24	GLU
44	L7	26	VAL
44	L7	164	SER
45	L8	25	PRO
45	L8	36	ILE
45	L8	157	VAL
46	L9	50	ASN
47	M0	211	ARG
47	M0	219	ALA
47	M0	220	GLN
48	M1	9	MET
48	M1	24	GLY
48	M1	74	PRO
48	M1	165	GLN
49	M3	47	ALA
50	M4	8	LYS
50	M4	9	ALA
50	M4	136	ALA
51	M5	74	PRO
51	M5	144	ARG
52	M6	111	PRO
52	M6	182	ASN
53	M7	157	VAL
54	M8	99	THR
56	N0	167	ARG
57	N1	124	VAL
57	N1	159	PHE
58	N2	31	ALA
58	N2	51	GLY
58	N2	60	GLY
59	N3	82	ALA
60	N4	81	PRO

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Mol	Chain	Res	Type
60	N4	97	LYS
61	N5	44	PRO
61	N5	45	LYS
62	N6	52	ARG
62	N6	84	LYS
63	N7	3	LYS
63	N7	125	GLY
63	N7	128	GLN
64	N8	57	GLY
64	N8	76	ASP
64	N8	93	SER
67	O1	84	ASP
71	O5	119	LYS
72	O6	33	ALA
72	O6	98	ARG
74	O8	8	ILE
76	Q0	78	ILE
78	Q2	94	GLY
78	Q2	100	LYS
2	s0	4	PRO
2	s0	158	VAL
2	s0	186	GLY
2	s0	189	VAL
2	s0	206	ASP
3	s1	206	PRO
4	s2	91	ARG
4	s2	92	ALA
4	s2	107	SER
5	s3	61	GLU
5	s3	211	PRO
5	s3	216	PRO
5	s3	217	ILE
5	s3	220	PRO
6	s4	24	SER
6	s4	195	ILE
6	s4	196	VAL
7	s5	28	PRO
7	s5	36	ALA
7	s5	43	PHE
7	s5	184	PHE
8	s6	25	ARG
8	s6	122	GLU

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Mol	Chain	Res	Type
8	s6	173	PRO
9	s7	30	SER
9	s7	64	VAL
9	s7	67	LEU
9	s7	131	PHE
9	s7	185	ILE
11	s9	117	GLY
12	c0	2	LEU
12	c0	83	PRO
12	c0	88	PRO
12	c0	92	ILE
12	c0	97	PRO
13	c1	28	SER
13	c1	114	ALA
13	c1	144	ALA
14	c2	22	VAL
15	c3	19	SER
15	c3	66	ILE
15	c3	87	ASP
16	c4	50	ALA
16	c4	124	ASP
16	c4	126	THR
16	c4	132	ARG
17	c5	51	SER
17	c5	52	LYS
17	c5	68	PRO
17	c5	125	PRO
17	c5	126	VAL
17	c5	127	ARG
18	c6	42	GLU
18	c6	116	LEU
19	c7	67	ARG
19	c7	88	VAL
20	c8	91	ASP
20	c8	92	ILE
20	c8	145	ARG
21	c9	29	GLU
21	c9	34	VAL
21	c9	142	GLU
22	d0	15	GLN
22	d0	49	ASN
22	d0	51	VAL

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Mol	Chain	Res	Type
22	d0	52	LYS
22	d0	119	ALA
22	d0	120	SER
25	d3	131	SER
26	d4	30	PRO
26	d4	33	ALA
27	d5	85	LYS
27	d5	104	ALA
28	d6	63	ALA
29	d7	38	PRO
29	d7	59	CYS
30	d8	33	LEU
30	d8	61	ARG
31	d9	6	VAL
31	d9	7	TRP
80	e0	60	PRO
81	e1	83	LYS
81	e1	84	VAL
81	e1	87	THR
81	e1	92	LYS
81	e1	98	VAL
81	e1	102	VAL
81	e1	103	LEU
81	e1	106	TYR
34	sR	4	ASN
34	sR	163	ASP
34	sR	165	ASP
35	sM	47	ALA
39	l2	194	ASN
40	l3	140	ASP
40	l3	347	SER
41	l4	90	PHE
41	l4	302	ALA
41	l4	311	HIS
41	l4	329	PRO
41	l4	330	TYR
41	l4	338	LYS
41	l4	339	LEU
42	l5	260	PHE
42	l5	270	LYS
43	l6	97	ASN
43	l6	98	VAL

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Mol	Chain	Res	Type
45	l8	25	PRO
45	l8	34	PHE
45	l8	79	GLN
45	l8	120	LYS
45	l8	122	LYS
47	m0	3	ARG
47	m0	195	ALA
47	m0	219	ALA
48	m1	8	PRO
48	m1	10	ARG
48	m1	39	GLN
48	m1	108	GLU
49	m3	47	ALA
49	m3	51	LEU
49	m3	129	ASN
49	m3	134	GLU
49	m3	152	THR
50	m4	136	ALA
51	m5	184	LYS
52	m6	16	VAL
52	m6	110	PRO
54	m8	41	ASP
54	m8	99	THR
56	n0	2	ALA
57	n1	122	GLN
57	n1	135	PRO
59	n3	42	SER
60	n4	26	SER
60	n4	76	VAL
61	n5	24	LEU
62	n6	45	ILE
62	n6	83	ASP
62	n6	126	LEU
63	n7	5	LEU
65	n9	21	ILE
65	n9	23	LYS
65	n9	39	PHE
67	o1	7	VAL
67	o1	45	GLY
68	o2	5	PRO
69	o3	88	ASN
70	o4	79	SER

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Mol	Chain	Res	Type
72	o6	30	LYS
72	o6	33	ALA
72	o6	98	ARG
2	S0	5	ALA
2	S0	195	TRP
3	S1	35	PRO
3	S1	51	SER
3	S1	58	SER
3	S1	63	GLY
3	S1	79	HIS
3	S1	82	ARG
3	S1	116	LYS
3	S1	117	TRP
3	S1	148	ASN
3	S1	154	SER
3	S1	177	GLN
3	S1	179	SER
3	S1	209	ASN
3	S1	218	LEU
4	S2	91	ARG
4	S2	107	SER
5	S3	143	ARG
6	S4	12	LEU
6	S4	26	CYS
6	S4	164	LEU
6	S4	195	ILE
7	S5	35	GLN
7	S5	45	LYS
7	S5	101	GLY
7	S5	127	GLN
7	S5	150	GLY
7	S5	153	GLY
7	S5	154	ALA
8	S6	146	GLY
8	S6	165	GLY
9	S7	5	GLN
9	S7	73	VAL
9	S7	98	ILE
9	S7	156	SER
10	S8	82	VAL
10	S8	105	ASP
10	S8	153	GLU

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Mol	Chain	Res	Type
11	S9	121	SER
12	C0	60	SER
13	C1	55	ASP
13	C1	89	ALA
13	C1	140	VAL
13	C1	145	ALA
14	C2	54	ARG
14	C2	55	GLY
14	C2	91	VAL
14	C2	93	ASP
14	C2	106	ILE
16	C4	51	ASP
16	C4	123	SER
17	C5	54	ALA
18	C6	97	VAL
19	C7	115	LEU
20	C8	7	GLU
20	C8	25	ASN
20	C8	145	ARG
21	C9	69	LYS
23	D1	49	GLU
24	D2	83	ILE
25	D3	8	GLY
25	D3	112	LYS
25	D3	124	VAL
26	D4	4	ALA
26	D4	5	VAL
27	D5	55	PRO
28	D6	10	ARG
28	D6	18	VAL
28	D6	47	ALA
28	D6	61	GLU
28	D6	63	ALA
28	D6	75	VAL
28	D6	86	VAL
29	D7	62	ILE
33	E1	110	ALA
33	E1	111	GLU
33	E1	128	ALA
34	SR	201	THR
34	SR	231	MET
35	SM	86	ASN

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Mol	Chain	Res	Type
35	SM	89	ARG
35	SM	102	THR
35	SM	139	GLU
35	SM	172	VAL
39	L2	250	GLN
40	L3	138	ALA
40	L3	139	GLN
40	L3	155	ALA
40	L3	351	LEU
41	L4	15	ALA
41	L4	190	GLY
41	L4	291	ASN
42	L5	57	ASN
42	L5	253	PHE
42	L5	260	PHE
43	L6	98	VAL
44	L7	160	ARG
45	L8	39	ALA
45	L8	78	PHE
45	L8	120	LYS
46	L9	190	ASP
49	M3	76	THR
50	M4	135	LEU
51	M5	75	VAL
51	M5	184	LYS
52	M6	16	VAL
52	M6	183	ALA
53	M7	179	GLN
53	M7	182	ILE
54	M8	147	ARG
55	M9	53	LYS
58	N2	11	ILE
58	N2	32	SER
60	N4	16	GLY
60	N4	64	THR
62	N6	53	ASP
62	N6	126	LEU
63	N7	35	SER
64	N8	47	LYS
64	N8	66	ALA
67	O1	6	ASP
68	O2	127	ALA

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Mol	Chain	Res	Type
70	O4	77	GLY
71	O5	97	ALA
72	O6	28	TYR
74	O8	35	GLY
78	Q2	15	LYS
2	s0	44	GLY
2	s0	68	PRO
2	s0	95	ALA
2	s0	103	THR
3	s1	93	GLY
3	s1	106	THR
3	s1	147	ALA
3	s1	179	SER
3	s1	223	PHE
4	s2	93	GLY
4	s2	163	GLY
5	s3	180	GLY
5	s3	203	PRO
6	s4	12	LEU
6	s4	57	ASN
6	s4	95	THR
6	s4	163	ASP
6	s4	164	LEU
7	s5	37	GLN
7	s5	39	GLU
7	s5	54	LYS
7	s5	58	LEU
7	s5	153	GLY
7	s5	204	GLY
8	s6	68	LEU
10	s8	62	THR
11	s9	134	ILE
11	s9	167	ALA
11	s9	183	ALA
12	c0	23	ALA
14	c2	45	LEU
14	c2	58	LEU
14	c2	89	ILE
14	c2	115	VAL
14	c2	118	ALA
14	c2	119	SER
15	c3	22	ALA

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Mol	Chain	Res	Type
15	c3	29	SER
15	c3	139	TRP
16	c4	108	SER
16	c4	131	GLY
17	c5	11	VAL
17	c5	50	THR
19	c7	96	SER
19	c7	99	VAL
19	c7	116	LYS
20	c8	14	ILE
20	c8	60	GLU
20	c8	61	LEU
21	c9	33	TYR
22	d0	17	GLN
22	d0	118	VAL
26	d4	35	VAL
26	d4	58	PHE
27	d5	87	GLY
29	d7	3	LEU
29	d7	75	GLU
31	d9	5	ASN
34	sR	161	LYS
35	sM	42	ALA
35	sM	50	ASN
39	l2	250	GLN
40	l3	3	HIS
40	l3	129	ALA
40	l3	333	LYS
41	l4	24	ALA
45	l8	119	ALA
45	l8	133	LYS
45	l8	237	ILE
46	l9	144	ILE
47	m0	193	ASP
48	m1	167	TYR
49	m3	50	PRO
49	m3	135	ALA
51	m5	183	THR
53	m7	67	ILE
54	m8	91	ALA
55	m9	35	ALA
55	m9	156	ASN

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Mol	Chain	Res	Type
58	n2	50	LEU
58	n2	51	GLY
60	n4	63	ILE
60	n4	77	LYS
61	n5	38	LEU
61	n5	40	LEU
62	n6	84	LYS
62	n6	125	LYS
63	n7	16	GLY
63	n7	129	TRP
63	n7	130	PHE
63	n7	134	LEU
66	o0	46	ALA
67	o1	83	GLU
67	o1	84	ASP
68	o2	6	HIS
69	o3	91	ALA
71	o5	119	LYS
72	o6	63	ASN
74	o8	18	ALA
76	q0	78	ILE
83	p0	47	GLY
83	p0	93	LEU
2	S0	49	ASN
2	S0	72	ASP
2	S0	189	VAL
2	S0	192	THR
2	S0	205	ARG
3	S1	26	ARG
3	S1	93	GLY
4	S2	147	ASN
4	S2	148	LEU
5	S3	218	LEU
6	S4	77	ARG
7	S5	58	LEU
7	S5	64	VAL
7	S5	156	ARG
8	S6	148	SER
9	S7	32	PRO
9	S7	36	ALA
9	S7	85	PHE
10	S8	40	ALA

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Mol	Chain	Res	Type
10	S8	41	LYS
10	S8	52	ASN
11	S9	164	PHE
11	S9	169	PRO
12	C0	81	ASN
13	C1	4	GLU
13	C1	30	ARG
13	C1	75	VAL
13	C1	154	ALA
14	C2	21	GLU
14	C2	22	VAL
14	C2	107	ASP
14	C2	119	SER
14	C2	129	GLU
14	C2	131	ASP
15	C3	3	ARG
15	C3	10	GLY
16	C4	18	ARG
16	C4	40	ALA
16	C4	114	ARG
17	C5	24	LYS
17	C5	25	LEU
17	C5	51	SER
17	C5	101	ALA
17	C5	125	PRO
20	C8	144	ARG
21	C9	50	ALA
23	D1	6	GLY
25	D3	41	SER
25	D3	109	ARG
25	D3	138	GLU
26	D4	34	ASN
26	D4	58	PHE
27	D5	39	ALA
27	D5	42	LEU
27	D5	97	LYS
28	D6	46	GLU
28	D6	65	PRO
28	D6	97	PRO
30	D8	14	LYS
30	D8	36	THR
32	E0	51	ASN

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Mol	Chain	Res	Type
33	E1	87	THR
34	SR	98	GLU
34	SR	117	LYS
34	SR	160	GLU
34	SR	242	SER
34	SR	318	ALA
35	SM	42	ALA
35	SM	88	ARG
35	SM	101	ASP
35	SM	153	ASP
35	SM	174	LEU
40	L3	136	LYS
40	L3	142	ALA
40	L3	385	LYS
41	L4	16	THR
41	L4	233	LEU
41	L4	339	LEU
41	L4	361	HIS
42	L5	58	LYS
42	L5	137	ASP
42	L5	252	ALA
42	L5	259	LYS
42	L5	295	GLY
44	L7	25	GLN
45	L8	112	GLU
46	L9	42	ASP
47	M0	113	GLN
47	M0	187	ALA
48	M1	8	PRO
48	M1	94	ARG
48	M1	114	ILE
48	M1	167	TYR
50	M4	10	SER
51	M5	145	ASP
53	M7	160	ALA
53	M7	161	ALA
53	M7	164	LYS
54	M8	98	LYS
56	N0	142	GLN
57	N1	114	ALA
57	N1	123	GLY
58	N2	44	GLU

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Mol	Chain	Res	Type
60	N4	76	VAL
62	N6	83	ASP
65	N9	25	LYS
67	O1	82	GLU
71	O5	96	GLU
72	O6	3	VAL
72	O6	34	SER
79	Q3	51	ALA
2	s0	8	ASP
2	s0	14	ALA
2	s0	94	GLY
2	s0	185	ARG
3	s1	26	ARG
3	s1	129	THR
3	s1	154	SER
3	s1	232	HIS
5	s3	45	LYS
5	s3	60	GLY
5	s3	90	ARG
5	s3	93	ASP
6	s4	245	LYS
7	s5	29	ILE
7	s5	60	ASP
7	s5	100	ASN
8	s6	70	PRO
9	s7	32	PRO
10	s8	101	ILE
11	s9	121	SER
11	s9	162	SER
12	c0	3	MET
12	c0	24	LYS
12	c0	82	LEU
13	c1	55	ASP
14	c2	87	PRO
14	c2	90	LYS
14	c2	101	ALA
14	c2	108	ARG
17	c5	8	LYS
17	c5	17	TYR
19	c7	63	LYS
19	c7	97	ASN
19	c7	98	GLY

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Mol	Chain	Res	Type
19	c7	120	SER
22	d0	96	PRO
26	d4	53	ASP
28	d6	34	LYS
28	d6	46	GLU
80	e0	54	ARG
81	e1	107	LYS
81	e1	127	GLY
81	e1	128	ALA
81	e1	136	LYS
34	sR	96	THR
35	sM	46	LYS
35	sM	63	ASP
35	sM	78	ASP
35	sM	172	VAL
39	l2	56	ALA
39	l2	80	GLU
39	l2	142	ASP
40	l3	155	ALA
40	l3	293	ASN
41	l4	5	GLN
41	l4	145	ILE
41	l4	232	SER
44	l7	191	VAL
45	l8	81	THR
45	l8	121	SER
45	l8	203	VAL
47	m0	175	ASN
47	m0	207	GLU
49	m3	60	ALA
49	m3	193	ALA
51	m5	81	TYR
54	m8	183	GLY
60	n4	127	LYS
61	n5	44	PRO
61	n5	47	ALA
63	n7	6	LYS
63	n7	125	GLY
67	o1	85	ALA
67	o1	86	LYS
70	o4	82	ALA
72	o6	34	SER

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Mol	Chain	Res	Type
73	o7	85	LYS
73	o7	86	ALA
2	S0	103	THR
2	S0	185	ARG
2	S0	194	PRO
3	S1	54	LEU
3	S1	132	ASP
3	S1	147	ALA
3	S1	158	SER
3	S1	224	ASP
4	S2	150	GLN
5	S3	217	ILE
6	S4	245	LYS
7	S5	21	THR
7	S5	51	VAL
7	S5	65	ARG
7	S5	204	GLY
8	S6	152	ASP
9	S7	30	SER
9	S7	84	LYS
9	S7	133	THR
9	S7	134	GLU
9	S7	186	PRO
10	S8	9	HIS
10	S8	199	LYS
11	S9	98	ALA
11	S9	120	LYS
11	S9	163	PRO
13	C1	72	THR
14	C2	25	GLU
14	C2	66	VAL
14	C2	87	PRO
14	C2	108	ARG
14	C2	112	ALA
15	C3	28	LEU
17	C5	52	LYS
17	C5	69	GLU
18	C6	113	ASP
19	C7	6	THR
19	C7	83	GLN
19	C7	113	LEU
20	C8	8	GLN

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Mol	Chain	Res	Type
21	C9	35	ASP
22	D0	18	GLN
22	D0	21	LYS
23	D1	12	TYR
23	D1	81	ASN
27	D5	41	ILE
28	D6	64	LEU
33	E1	118	ARG
33	E1	137	ASP
33	E1	148	TYR
34	SR	4	ASN
34	SR	22	SER
34	SR	51	ASP
34	SR	112	SER
34	SR	163	ASP
34	SR	237	GLN
34	SR	244	ALA
34	SR	270	LEU
35	SM	53	ARG
41	L4	232	SER
42	L5	93	THR
42	L5	115	LEU
42	L5	230	ASP
42	L5	296	GLN
45	L8	117	ALA
45	L8	169	LEU
47	M0	194	GLY
48	M1	73	GLY
48	M1	117	ASP
48	M1	148	VAL
49	M3	134	GLU
49	M3	136	GLU
50	M4	28	SER
51	M5	94	TYR
56	N0	2	ALA
57	N1	125	ALA
60	N4	87	LEU
60	N4	96	LEU
62	N6	92	GLY
63	N7	102	GLU
63	N7	103	GLN
64	N8	96	LYS

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Mol	Chain	Res	Type
72	O6	21	THR
76	Q0	79	GLU
79	Q3	7	LYS
2	s0	10	THR
2	s0	139	VAL
3	s1	82	ARG
4	s2	95	ARG
4	s2	106	ASP
4	s2	150	GLN
4	s2	235	LEU
4	s2	238	SER
5	s3	59	LEU
6	s4	90	ILE
6	s4	202	ASP
7	s5	35	GLN
7	s5	57	SER
8	s6	165	GLY
9	s7	11	GLN
10	s8	137	LYS
10	s8	199	LYS
11	s9	168	ARG
12	c0	35	ILE
13	c1	7	VAL
13	c1	61	THR
14	c2	103	LEU
14	c2	106	ILE
15	c3	140	LYS
16	c4	12	GLN
16	c4	37	GLU
16	c4	92	LYS
16	c4	114	ARG
16	c4	125	SER
17	c5	10	ARG
18	c6	4	VAL
19	c7	62	GLN
19	c7	86	PRO
21	c9	119	LYS
28	d6	59	TYR
31	d9	11	PRO
80	e0	47	VAL
80	e0	61	SER
81	e1	85	TYR

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Mol	Chain	Res	Type
81	e1	100	LEU
34	sR	149	ASP
34	sR	318	ALA
35	sM	43	ASP
35	sM	77	THR
35	sM	121	LYS
39	l2	215	ASN
41	l4	15	ALA
41	l4	146	PRO
41	l4	304	GLN
42	l5	123	GLU
43	l6	10	TYR
44	l7	28	ALA
45	l8	39	ALA
45	l8	69	LEU
45	l8	82	LEU
45	l8	114	ALA
45	l8	115	ALA
45	l8	117	ALA
45	l8	123	GLN
46	l9	2	LYS
47	m0	187	ALA
48	m1	153	LYS
49	m3	93	ILE
50	m4	3	THR
54	m8	98	LYS
54	m8	171	LYS
57	n1	121	ALA
59	n3	41	GLY
60	n4	72	SER
63	n7	56	LYS
63	n7	127	ASN
68	o2	124	GLY
71	o5	99	GLN
74	o8	17	ARG
75	o9	3	ALA
78	q2	78	LYS
79	q3	4	ARG
83	p0	198	PRO
3	S1	176	VAL
3	S1	202	LYS
4	S2	92	ALA

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Mol	Chain	Res	Type
4	S2	248	SER
8	S6	69	LEU
10	S8	10	LYS
10	S8	59	ARG
12	C0	92	ILE
13	C1	3	THR
14	C2	53	THR
15	C3	12	SER
18	C6	59	LYS
19	C7	23	LYS
23	D1	10	GLU
25	D3	37	ALA
25	D3	40	SER
25	D3	97	ASP
28	D6	36	ILE
28	D6	62	TYR
29	D7	57	GLU
30	D8	61	ARG
33	E1	84	VAL
33	E1	93	HIS
33	E1	94	LYS
33	E1	127	GLY
34	SR	3	SER
34	SR	153	GLN
35	SM	12	VAL
35	SM	17	VAL
35	SM	155	LEU
40	L3	4	ARG
40	L3	317	ILE
41	L4	5	GLN
41	L4	146	PRO
41	L4	338	LYS
42	L5	6	ASP
43	L6	132	ALA
44	L7	178	ILE
45	L8	79	GLN
47	M0	218	ALA
48	M1	11	ASP
48	M1	95	ASN
50	M4	6	ILE
53	M7	163	LYS
54	M8	162	ALA

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Mol	Chain	Res	Type
55	M9	130	ASN
56	N0	50	LYS
57	N1	18	ASP
63	N7	36	HIS
64	N8	56	VAL
64	N8	117	ARG
65	N9	21	ILE
69	O3	59	VAL
78	Q2	34	SER
3	s1	22	ASP
3	s1	233	GLY
4	s2	83	ILE
5	s3	44	THR
6	s4	104	ASP
6	s4	168	LYS
7	s5	56	ALA
7	s5	127	GLN
9	s7	13	PRO
9	s7	111	LYS
12	c0	20	VAL
12	c0	30	ALA
14	c2	39	ASP
14	c2	82	PRO
14	c2	107	ASP
15	c3	60	VAL
17	c5	69	GLU
17	c5	132	GLY
18	c6	97	VAL
23	d1	10	GLU
27	d5	44	GLN
27	d5	103	ARG
28	d6	13	LYS
81	e1	81	LYS
81	e1	131	PHE
81	e1	148	TYR
34	sR	281	TYR
35	sM	36	ASP
35	sM	64	LYS
35	sM	120	GLU
41	l4	328	ASN
41	l4	342	LYS
45	l8	112	GLU

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Mol	Chain	Res	Type
45	l8	124	ASP
46	l9	167	VAL
47	m0	101	LYS
48	m1	114	ILE
48	m1	117	ASP
49	m3	76	THR
49	m3	150	PRO
51	m5	68	ARG
52	m6	111	PRO
55	m9	155	LEU
60	n4	71	ARG
60	n4	83	THR
61	n5	25	LYS
63	n7	36	HIS
63	n7	91	ALA
64	n8	120	ASN
67	o1	47	ASP
67	o1	82	GLU
70	o4	78	GLY
79	q3	51	ALA
83	p0	33	VAL
3	S1	21	VAL
3	S1	55	LYS
3	S1	210	ILE
4	S2	235	LEU
5	S3	64	ARG
6	S4	200	ARG
11	S9	167	ALA
14	C2	128	ALA
16	C4	75	GLY
21	C9	31	PRO
21	C9	39	THR
26	D4	60	PHE
26	D4	97	ALA
28	D6	15	ARG
28	D6	59	TYR
34	SR	113	VAL
34	SR	162	ALA
34	SR	229	LYS
35	SM	82	THR
35	SM	154	TYR
41	L4	131	VAL

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Mol	Chain	Res	Type
44	L7	91	GLY
54	M8	183	GLY
66	O0	96	GLY
67	O1	7	VAL
71	O5	75	TYR
78	Q2	17	CYS
3	s1	207	LEU
5	s3	219	ALA
6	s4	30	ARG
6	s4	171	ASP
7	s5	21	THR
10	s8	78	ILE
10	s8	136	SER
11	s9	110	GLN
13	c1	129	ARG
18	c6	40	GLU
20	c8	7	GLU
28	d6	8	ASN
28	d6	35	ALA
29	d7	62	ILE
81	e1	137	ASP
34	sR	15	GLY
34	sR	146	GLY
35	sM	84	LYS
35	sM	166	VAL
40	l3	141	GLY
40	l3	187	SER
40	l3	386	ASP
41	l4	71	VAL
41	l4	190	GLY
42	l5	125	VAL
45	l8	196	ALA
51	m5	74	PRO
58	n2	48	GLY
60	n4	64	THR
63	n7	28	PRO
63	n7	103	GLN
72	o6	3	VAL
72	o6	64	SER
78	q2	33	ALA
6	S4	193	GLY
6	S4	204	GLY

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Mol	Chain	Res	Type
17	C5	11	VAL
18	C6	40	GLU
23	D1	46	ILE
34	SR	271	VAL
39	L2	98	VAL
51	M5	89	VAL
2	s0	31	VAL
5	s3	115	ILE
17	c5	48	GLY
18	c6	39	VAL
21	c9	100	ILE
81	e1	112	GLY
44	l7	178	ILE
48	m1	7	ASN
51	m5	76	PRO
58	n2	27	VAL
72	o6	31	GLY
23	D1	82	VAL
32	E0	50	VAL
42	L5	125	VAL
45	L8	163	VAL
46	L9	13	PRO
52	M6	110	PRO
53	M7	84	PRO
60	N4	24	GLY
60	N4	80	ARG
21	c9	3	GLY
28	d6	58	VAL
34	sR	194	GLY
41	l4	301	PRO
74	o8	37	PRO
2	S0	139	VAL
8	S6	70	PRO
8	S6	123	GLY
9	S7	13	PRO
31	D9	6	VAL
34	SR	28	GLY
45	L8	135	GLY
11	s9	5	PRO
14	c2	66	VAL
15	c3	65	VAL
47	m0	204	GLY

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Mol	Chain	Res	Type
69	o3	59	VAL
3	S1	48	VAL
13	C1	113	PRO
17	C5	68	PRO
34	SR	105	GLY
66	O0	100	ILE
8	s6	69	LEU
14	c2	91	VAL
15	c3	37	ILE
16	c4	48	VAL
24	d2	6	VAL
34	sR	49	GLY
43	l6	171	PRO
54	m8	84	VAL
66	o0	10	ILE
3	S1	22	ASP
22	D0	51	VAL
27	D5	88	ILE
30	D8	20	GLY
40	L3	185	GLY
48	M1	23	VAL
2	s0	111	ILE
7	s5	59	VAL
11	s9	185	GLY
18	C6	41	PRO

5.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	S0	164/209 (78%)	130 (79%)	34 (21%)	2 5
2	s0	165/209 (79%)	138 (84%)	27 (16%)	3 10
3	S1	191/223 (86%)	159 (83%)	32 (17%)	3 9
3	s1	192/223 (86%)	162 (84%)	30 (16%)	4 11
4	S2	176/204 (86%)	140 (80%)	36 (20%)	2 5
4	s2	176/204 (86%)	137 (78%)	39 (22%)	1 4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	S3	182/194 (94%)	142 (78%)	40 (22%)	1	4
5	s3	182/194 (94%)	145 (80%)	37 (20%)	2	5
6	S4	221/221 (100%)	178 (80%)	43 (20%)	2	6
6	s4	221/221 (100%)	179 (81%)	42 (19%)	2	6
7	S5	173/190 (91%)	148 (86%)	25 (14%)	5	13
7	s5	173/190 (91%)	144 (83%)	29 (17%)	3	9
8	S6	188/201 (94%)	150 (80%)	38 (20%)	2	5
8	s6	187/201 (93%)	155 (83%)	32 (17%)	3	8
9	S7	165/169 (98%)	127 (77%)	38 (23%)	1	3
9	s7	165/169 (98%)	136 (82%)	29 (18%)	3	8
10	S8	150/161 (93%)	128 (85%)	22 (15%)	4	13
10	s8	150/161 (93%)	126 (84%)	24 (16%)	3	10
11	S9	158/165 (96%)	122 (77%)	36 (23%)	1	3
11	s9	158/165 (96%)	123 (78%)	35 (22%)	1	4
12	C0	77/98 (79%)	62 (80%)	15 (20%)	2	6
12	c0	73/98 (74%)	63 (86%)	10 (14%)	5	15
13	C1	129/136 (95%)	108 (84%)	21 (16%)	3	10
13	c1	129/136 (95%)	105 (81%)	24 (19%)	2	7
14	C2	88/118 (75%)	67 (76%)	21 (24%)	1	3
14	c2	88/118 (75%)	70 (80%)	18 (20%)	2	5
15	C3	127/127 (100%)	106 (84%)	21 (16%)	3	9
15	c3	127/127 (100%)	103 (81%)	24 (19%)	2	7
16	C4	81/104 (78%)	58 (72%)	23 (28%)	0	2
16	c4	97/104 (93%)	75 (77%)	22 (23%)	1	4
17	C5	101/117 (86%)	86 (85%)	15 (15%)	4	12
17	c5	103/117 (88%)	85 (82%)	18 (18%)	3	8
18	C6	117/118 (99%)	97 (83%)	20 (17%)	3	8
18	c6	118/118 (100%)	95 (80%)	23 (20%)	2	6
19	C7	94/124 (76%)	73 (78%)	21 (22%)	1	4
19	c7	92/124 (74%)	77 (84%)	15 (16%)	3	10
20	C8	128/128 (100%)	102 (80%)	26 (20%)	2	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	c8	128/128 (100%)	98 (77%)	30 (23%)	1	3
21	C9	115/115 (100%)	95 (83%)	20 (17%)	3	8
21	c9	115/115 (100%)	96 (84%)	19 (16%)	3	9
22	D0	100/113 (88%)	76 (76%)	24 (24%)	1	3
22	d0	103/113 (91%)	81 (79%)	22 (21%)	1	4
23	D1	74/74 (100%)	61 (82%)	13 (18%)	3	8
23	d1	74/74 (100%)	60 (81%)	14 (19%)	2	7
24	D2	110/110 (100%)	88 (80%)	22 (20%)	2	6
24	d2	110/110 (100%)	96 (87%)	14 (13%)	6	18
25	D3	119/119 (100%)	96 (81%)	23 (19%)	2	6
25	d3	119/119 (100%)	102 (86%)	17 (14%)	5	13
26	D4	112/112 (100%)	95 (85%)	17 (15%)	4	12
26	d4	112/112 (100%)	98 (88%)	14 (12%)	7	19
27	D5	61/88 (69%)	47 (77%)	14 (23%)	1	3
27	d5	61/88 (69%)	52 (85%)	9 (15%)	4	13
28	D6	83/83 (100%)	68 (82%)	15 (18%)	2	7
28	d6	83/83 (100%)	72 (87%)	11 (13%)	6	16
29	D7	70/70 (100%)	59 (84%)	11 (16%)	4	11
29	d7	70/70 (100%)	63 (90%)	7 (10%)	11	32
30	D8	56/59 (95%)	42 (75%)	14 (25%)	1	3
30	d8	56/59 (95%)	47 (84%)	9 (16%)	3	10
31	D9	47/48 (98%)	39 (83%)	8 (17%)	3	9
31	d9	47/48 (98%)	41 (87%)	6 (13%)	6	18
32	E0	51/51 (100%)	44 (86%)	7 (14%)	5	15
33	E1	62/66 (94%)	51 (82%)	11 (18%)	3	8
34	SR	260/261 (100%)	223 (86%)	37 (14%)	5	13
34	sR	260/261 (100%)	230 (88%)	30 (12%)	8	23
35	SM	97/228 (42%)	79 (81%)	18 (19%)	2	7
35	sM	54/228 (24%)	39 (72%)	15 (28%)	0	2
39	L2	193/195 (99%)	156 (81%)	37 (19%)	2	6
39	l2	192/195 (98%)	160 (83%)	32 (17%)	3	9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
40	L3	321/322 (100%)	250 (78%)	71 (22%)	1	4
40	l3	319/322 (99%)	250 (78%)	69 (22%)	1	4
41	L4	288/288 (100%)	241 (84%)	47 (16%)	3	10
41	l4	288/288 (100%)	239 (83%)	49 (17%)	3	9
42	L5	244/244 (100%)	206 (84%)	38 (16%)	4	11
42	l5	243/244 (100%)	198 (82%)	45 (18%)	2	7
43	L6	134/152 (88%)	115 (86%)	19 (14%)	5	13
43	l6	135/152 (89%)	111 (82%)	24 (18%)	2	7
44	L7	186/204 (91%)	169 (91%)	17 (9%)	14	38
44	l7	187/204 (92%)	160 (86%)	27 (14%)	5	13
45	L8	187/207 (90%)	152 (81%)	35 (19%)	2	7
45	l8	177/207 (86%)	146 (82%)	31 (18%)	3	8
46	L9	171/171 (100%)	140 (82%)	31 (18%)	2	7
46	l9	171/171 (100%)	141 (82%)	30 (18%)	3	8
47	M0	177/186 (95%)	139 (78%)	38 (22%)	1	4
47	m0	179/186 (96%)	140 (78%)	39 (22%)	1	4
48	M1	147/150 (98%)	117 (80%)	30 (20%)	2	5
48	m1	147/150 (98%)	123 (84%)	24 (16%)	3	10
49	M3	154/158 (98%)	124 (80%)	30 (20%)	2	6
49	m3	154/158 (98%)	132 (86%)	22 (14%)	5	13
50	M4	107/108 (99%)	89 (83%)	18 (17%)	3	9
50	m4	108/108 (100%)	88 (82%)	20 (18%)	2	7
51	M5	175/175 (100%)	145 (83%)	30 (17%)	3	8
51	m5	175/175 (100%)	146 (83%)	29 (17%)	3	9
52	M6	160/161 (99%)	138 (86%)	22 (14%)	5	14
52	m6	160/161 (99%)	127 (79%)	33 (21%)	2	5
53	M7	140/145 (97%)	112 (80%)	28 (20%)	2	6
53	m7	125/145 (86%)	106 (85%)	19 (15%)	4	12
54	M8	150/150 (100%)	126 (84%)	24 (16%)	3	10
54	m8	150/150 (100%)	120 (80%)	30 (20%)	2	6
55	M9	153/153 (100%)	128 (84%)	25 (16%)	3	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	m9	153/153 (100%)	123 (80%)	30 (20%)	2	6
56	N0	156/156 (100%)	125 (80%)	31 (20%)	2	6
56	n0	156/156 (100%)	125 (80%)	31 (20%)	2	6
57	N1	136/136 (100%)	104 (76%)	32 (24%)	1	3
57	n1	136/136 (100%)	109 (80%)	27 (20%)	2	6
58	N2	87/106 (82%)	79 (91%)	8 (9%)	13	38
58	n2	85/106 (80%)	72 (85%)	13 (15%)	4	12
59	N3	104/104 (100%)	91 (88%)	13 (12%)	7	19
59	n3	104/104 (100%)	96 (92%)	8 (8%)	18	47
60	N4	57/129 (44%)	52 (91%)	5 (9%)	14	40
60	n4	100/129 (78%)	84 (84%)	16 (16%)	3	10
61	N5	104/117 (89%)	81 (78%)	23 (22%)	1	4
61	n5	104/117 (89%)	82 (79%)	22 (21%)	1	5
62	N6	109/109 (100%)	86 (79%)	23 (21%)	1	5
62	n6	109/109 (100%)	82 (75%)	27 (25%)	1	3
63	N7	115/115 (100%)	93 (81%)	22 (19%)	2	6
63	n7	115/115 (100%)	96 (84%)	19 (16%)	3	9
64	N8	118/118 (100%)	101 (86%)	17 (14%)	5	13
64	n8	118/118 (100%)	96 (81%)	22 (19%)	2	7
65	N9	46/46 (100%)	36 (78%)	10 (22%)	1	4
65	n9	46/46 (100%)	36 (78%)	10 (22%)	1	4
66	O0	81/87 (93%)	70 (86%)	11 (14%)	5	15
66	o0	84/87 (97%)	68 (81%)	16 (19%)	2	6
67	O1	92/96 (96%)	75 (82%)	17 (18%)	2	7
67	o1	94/96 (98%)	73 (78%)	21 (22%)	1	4
68	O2	109/110 (99%)	91 (84%)	18 (16%)	3	9
68	o2	109/110 (99%)	88 (81%)	21 (19%)	2	6
69	O3	90/90 (100%)	78 (87%)	12 (13%)	6	16
69	o3	90/90 (100%)	76 (84%)	14 (16%)	4	11
70	O4	95/101 (94%)	75 (79%)	20 (21%)	1	5
70	o4	95/101 (94%)	82 (86%)	13 (14%)	5	15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
71	O5	104/104 (100%)	82 (79%)	22 (21%)	1	5
71	o5	103/104 (99%)	83 (81%)	20 (19%)	2	6
72	O6	81/81 (100%)	63 (78%)	18 (22%)	1	4
72	o6	80/81 (99%)	56 (70%)	24 (30%)	0	1
73	O7	70/70 (100%)	58 (83%)	12 (17%)	3	8
73	o7	70/70 (100%)	55 (79%)	15 (21%)	1	4
74	O8	68/68 (100%)	53 (78%)	15 (22%)	1	4
74	o8	67/68 (98%)	56 (84%)	11 (16%)	3	10
75	O9	45/45 (100%)	39 (87%)	6 (13%)	6	16
75	o9	45/45 (100%)	40 (89%)	5 (11%)	9	26
76	Q0	47/47 (100%)	42 (89%)	5 (11%)	10	28
76	q0	47/47 (100%)	38 (81%)	9 (19%)	2	6
77	Q1	23/23 (100%)	15 (65%)	8 (35%)	0	1
77	q1	23/23 (100%)	17 (74%)	6 (26%)	1	2
78	Q2	90/90 (100%)	74 (82%)	16 (18%)	2	7
78	q2	90/90 (100%)	72 (80%)	18 (20%)	2	6
79	Q3	71/71 (100%)	57 (80%)	14 (20%)	2	6
79	q3	71/71 (100%)	56 (79%)	15 (21%)	1	5
80	e0	53/53 (100%)	42 (79%)	11 (21%)	2	5
81	e1	66/66 (100%)	48 (73%)	18 (27%)	0	2
83	p0	105/253 (42%)	83 (79%)	22 (21%)	1	5
All	All	18728/20239 (92%)	15327 (82%)	3401 (18%)	2	7

All (3401) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	9	LEU
2	S0	27	ARG
2	S0	34	GLU
2	S0	37	VAL
2	S0	43	ASP
2	S0	47	VAL
2	S0	49	ASN
2	S0	50	VAL

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Mol	Chain	Res	Type
2	S0	52	LYS
2	S0	62	ARG
2	S0	72	ASP
2	S0	76	ILE
2	S0	84	ARG
2	S0	87	LEU
2	S0	88	LYS
2	S0	96	THR
2	S0	101	ARG
2	S0	108	THR
2	S0	111	ILE
2	S0	112	THR
2	S0	119	ARG
2	S0	122	ILE
2	S0	135	GLU
2	S0	153	SER
2	S0	154	GLU
2	S0	156	VAL
2	S0	157	ASP
2	S0	172	LEU
2	S0	177	LEU
2	S0	188	LEU
2	S0	196	SER
2	S0	198	MET
2	S0	203	PHE
3	S1	21	VAL
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	67	GLU
3	S1	70	LEU
3	S1	77	GLU
3	S1	79	HIS
3	S1	81	PHE
3	S1	89	ASP
3	S1	97	LEU
3	S1	104	ASP
3	S1	105	PHE
3	S1	111	ARG

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Mol	Chain	Res	Type
3	S1	127	VAL
3	S1	137	ILE
3	S1	154	SER
3	S1	176	VAL
3	S1	179	SER
3	S1	180	THR
3	S1	181	LEU
3	S1	193	ILE
3	S1	202	LYS
3	S1	214	LYS
3	S1	215	VAL
3	S1	218	LEU
3	S1	220	GLN
3	S1	223	PHE
3	S1	231	LEU
4	S2	39	THR
4	S2	53	ILE
4	S2	55	GLU
4	S2	58	LEU
4	S2	64	LYS
4	S2	68	ILE
4	S2	69	ILE
4	S2	76	LEU
4	S2	80	VAL
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	111	VAL
4	S2	117	THR
4	S2	134	LEU
4	S2	137	ILE
4	S2	140	ARG
4	S2	141	ARG
4	S2	146	THR
4	S2	148	LEU
4	S2	166	THR
4	S2	174	ARG
4	S2	206	THR

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Mol	Chain	Res	Type
4	S2	207	LEU
4	S2	208	GLU
4	S2	222	TYR
4	S2	225	LEU
4	S2	226	THR
4	S2	237	VAL
4	S2	240	LEU
4	S2	245	ASP
4	S2	246	GLU
5	S3	4	LEU
5	S3	6	SER
5	S3	9	ARG
5	S3	21	LEU
5	S3	23	GLU
5	S3	37	VAL
5	S3	39	VAL
5	S3	41	VAL
5	S3	65	ARG
5	S3	67	ASN
5	S3	70	THR
5	S3	76	ARG
5	S3	84	ILE
5	S3	92	GLN
5	S3	93	ASP
5	S3	103	GLU
5	S3	105	MET
5	S3	111	ASN
5	S3	127	MET
5	S3	134	CYS
5	S3	135	GLU
5	S3	142	LEU
5	S3	146	ARG
5	S3	151	LYS
5	S3	158	ILE
5	S3	164	VAL
5	S3	170	THR
5	S3	172	THR
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	182	LEU
5	S3	185	LYS

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Mol	Chain	Res	Type
5	S3	209	ILE
5	S3	212	LYS
5	S3	215	GLU
5	S3	217	ILE
5	S3	220	PRO
5	S3	221	SER
5	S3	222	VAL
6	S4	7	LYS
6	S4	9	LEU
6	S4	11	ARG
6	S4	12	LEU
6	S4	21	ASP
6	S4	38	LEU
6	S4	39	ARG
6	S4	42	LEU
6	S4	45	ILE
6	S4	48	LEU
6	S4	62	LYS
6	S4	67	GLN
6	S4	68	ARG
6	S4	70	VAL
6	S4	77	ARG
6	S4	78	THR
6	S4	92	LEU
6	S4	95	THR
6	S4	102	VAL
6	S4	113	ARG
6	S4	116	ASP
6	S4	117	GLU
6	S4	120	SER
6	S4	123	LEU
6	S4	126	VAL
6	S4	131	LEU
6	S4	166	SER
6	S4	180	LEU
6	S4	182	TYR
6	S4	187	ARG
6	S4	206	ASP
6	S4	215	ASP
6	S4	217	THR
6	S4	220	THR
6	S4	221	ARG

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Mol	Chain	Res	Type
6	S4	222	LEU
6	S4	226	PHE
6	S4	227	VAL
6	S4	237	SER
6	S4	240	LYS
6	S4	242	LYS
6	S4	247	SER
6	S4	258	GLN
7	S5	25	LEU
7	S5	38	THR
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	53	VAL
7	S5	65	ARG
7	S5	76	ARG
7	S5	79	ASN
7	S5	84	LYS
7	S5	93	LEU
7	S5	94	THR
7	S5	119	ASP
7	S5	130	ILE
7	S5	146	THR
7	S5	156	ARG
7	S5	157	ARG
7	S5	160	VAL
7	S5	162	VAL
7	S5	163	SER
7	S5	166	ARG
7	S5	186	ASN
7	S5	190	ILE
7	S5	193	THR
7	S5	194	LEU
8	S6	5	ILE
8	S6	6	SER
8	S6	12	SER
8	S6	13	GLN
8	S6	25	ARG
8	S6	30	LYS
8	S6	32	ILE
8	S6	58	LYS
8	S6	65	GLN

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Mol	Chain	Res	Type
8	S6	68	LEU
8	S6	69	LEU
8	S6	72	ARG
8	S6	76	LEU
8	S6	78	THR
8	S6	79	LYS
8	S6	89	ASP
8	S6	97	VAL
8	S6	98	ARG
8	S6	105	ASP
8	S6	109	LEU
8	S6	115	LYS
8	S6	120	GLU
8	S6	126	ASP
8	S6	127	THR
8	S6	128	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	158	ILE
8	S6	170	THR
8	S6	174	LYS
8	S6	176	GLN
8	S6	179	VAL
8	S6	216	LEU
8	S6	223	LYS
9	S7	9	LEU
9	S7	14	THR
9	S7	15	GLU
9	S7	16	LEU
9	S7	38	LEU
9	S7	49	ILE
9	S7	50	ASP
9	S7	51	VAL
9	S7	55	LYS
9	S7	60	ILE
9	S7	62	VAL
9	S7	67	LEU
9	S7	70	PHE

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Mol	Chain	Res	Type
9	S7	77	LEU
9	S7	80	GLU
9	S7	85	PHE
9	S7	87	ASP
9	S7	92	PHE
9	S7	95	GLU
9	S7	97	ARG
9	S7	99	LEU
9	S7	104	ARG
9	S7	107	ARG
9	S7	108	GLN
9	S7	114	ARG
9	S7	116	ARG
9	S7	117	THR
9	S7	119	THR
9	S7	126	LEU
9	S7	130	VAL
9	S7	143	LEU
9	S7	144	VAL
9	S7	149	ILE
9	S7	161	GLN
9	S7	165	LYS
9	S7	166	LEU
9	S7	167	GLU
9	S7	185	ILE
10	S8	8	ARG
10	S8	12	SER
10	S8	14	THR
10	S8	20	GLN
10	S8	21	PHE
10	S8	29	LEU
10	S8	36	THR
10	S8	45	SER
10	S8	58	LEU
10	S8	60	ILE
10	S8	73	SER
10	S8	77	ARG
10	S8	81	VAL
10	S8	88	ASN
10	S8	107	THR
10	S8	120	THR
10	S8	138	ASN

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Mol	Chain	Res	Type
10	S8	151	LYS
10	S8	152	ILE
10	S8	185	GLU
10	S8	193	LEU
10	S8	196	LEU
11	S9	3	ARG
11	S9	7	THR
11	S9	14	THR
11	S9	21	SER
11	S9	28	LEU
11	S9	49	LEU
11	S9	54	ARG
11	S9	60	LEU
11	S9	61	THR
11	S9	79	ARG
11	S9	82	ARG
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	94	ASP
11	S9	96	VAL
11	S9	97	LEU
11	S9	99	LEU
11	S9	102	GLU
11	S9	105	LEU
11	S9	106	GLU
11	S9	109	LEU
11	S9	110	GLN
11	S9	118	LEU
11	S9	120	LYS
11	S9	126	ARG
11	S9	130	THR
11	S9	134	ILE
11	S9	138	LYS
11	S9	149	ARG
11	S9	150	LEU
11	S9	161	THR
11	S9	171	ARG
11	S9	172	VAL
11	S9	175	ARG
11	S9	182	GLU
12	C0	5	LYS

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Mol	Chain	Res	Type
12	C0	20	VAL
12	C0	27	PHE
12	C0	29	GLN
12	C0	31	LYS
12	C0	32	HIS
12	C0	46	LEU
12	C0	47	GLN
12	C0	49	LEU
12	C0	51	SER
12	C0	55	VAL
12	C0	56	LYS
12	C0	76	LEU
12	C0	81	ASN
12	C0	82	LEU
13	C1	7	VAL
13	C1	8	GLN
13	C1	21	ASN
13	C1	27	THR
13	C1	29	LYS
13	C1	40	LEU
13	C1	44	THR
13	C1	56	LYS
13	C1	67	ARG
13	C1	69	LYS
13	C1	70	ILE
13	C1	83	THR
13	C1	90	TYR
13	C1	91	LEU
13	C1	99	ARG
13	C1	109	VAL
13	C1	118	GLN
13	C1	136	ARG
13	C1	140	VAL
13	C1	141	LYS
13	C1	143	SER
14	C2	28	LEU
14	C2	36	LEU
14	C2	43	ARG
14	C2	45	LEU
14	C2	50	LYS
14	C2	52	LEU
14	C2	54	ARG

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Mol	Chain	Res	Type
14	C2	59	LEU
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	73	LYS
14	C2	74	LEU
14	C2	89	ILE
14	C2	97	LEU
14	C2	103	LEU
14	C2	126	TRP
14	C2	129	GLU
14	C2	132	GLU
14	C2	139	HIS
14	C2	140	PHE
15	C3	3	ARG
15	C3	16	ILE
15	C3	27	LYS
15	C3	30	SER
15	C3	39	LYS
15	C3	40	TYR
15	C3	42	ARG
15	C3	50	ILE
15	C3	64	ARG
15	C3	66	ILE
15	C3	76	LYS
15	C3	88	LEU
15	C3	97	SER
15	C3	102	LEU
15	C3	114	ARG
15	C3	115	LEU
15	C3	125	LEU
15	C3	130	ARG
15	C3	134	VAL
15	C3	149	LEU
15	C3	151	ASN
16	C4	14	PHE
16	C4	16	VAL
16	C4	20	TYR
16	C4	29	HIS
16	C4	30	VAL
16	C4	38	THR
16	C4	41	ARG

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Mol	Chain	Res	Type
16	C4	42	VAL
16	C4	48	VAL
16	C4	51	ASP
16	C4	56	SER
16	C4	79	VAL
16	C4	81	VAL
16	C4	90	ARG
16	C4	92	LYS
16	C4	99	GLN
16	C4	102	LEU
16	C4	103	ARG
16	C4	117	ASP
16	C4	123	SER
16	C4	125	SER
16	C4	136	ARG
16	C4	137	LEU
17	C5	11	VAL
17	C5	21	ASP
17	C5	22	LEU
17	C5	34	VAL
17	C5	36	LEU
17	C5	43	ARG
17	C5	44	ARG
17	C5	47	ARG
17	C5	52	LYS
17	C5	60	LEU
17	C5	89	MET
17	C5	110	GLU
17	C5	121	ILE
17	C5	124	THR
17	C5	125	PRO
18	C6	17	THR
18	C6	23	LYS
18	C6	26	LYS
18	C6	43	ILE
18	C6	53	LEU
18	C6	54	LEU
18	C6	57	LEU
18	C6	66	ARG
18	C6	68	ARG
18	C6	69	VAL
18	C6	94	GLN

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Mol	Chain	Res	Type
18	C6	98	ASP
18	C6	101	SER
18	C6	106	LYS
18	C6	114	ARG
18	C6	118	ILE
18	C6	123	ARG
18	C6	128	LYS
18	C6	137	ARG
18	C6	143	ARG
19	C7	25	THR
19	C7	26	LEU
19	C7	30	THR
19	C7	34	LEU
19	C7	38	ILE
19	C7	40	THR
19	C7	45	ARG
19	C7	46	LEU
19	C7	49	LYS
19	C7	54	THR
19	C7	62	GLN
19	C7	69	ILE
19	C7	72	LYS
19	C7	76	GLU
19	C7	78	ARG
19	C7	83	GLN
19	C7	84	TYR
19	C7	88	VAL
19	C7	105	GLN
19	C7	115	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE
20	C8	15	LEU
20	C8	18	LEU
20	C8	20	THR
20	C8	25	ASN
20	C8	26	ILE
20	C8	28	ILE
20	C8	54	LEU

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Mol	Chain	Res	Type
20	C8	61	LEU
20	C8	67	GLU
20	C8	73	MET
20	C8	80	LYS
20	C8	88	ARG
20	C8	92	ILE
20	C8	93	THR
20	C8	108	LYS
20	C8	110	ARG
20	C8	119	ILE
20	C8	133	VAL
20	C8	136	GLN
20	C8	143	ARG
20	C8	145	ARG
21	C9	4	VAL
21	C9	6	VAL
21	C9	18	TYR
21	C9	22	LEU
21	C9	28	LEU
21	C9	35	ASP
21	C9	36	ILE
21	C9	48	GLN
21	C9	57	ARG
21	C9	60	SER
21	C9	67	MET
21	C9	68	ARG
21	C9	88	VAL
21	C9	111	ILE
21	C9	125	SER
21	C9	126	GLU
21	C9	130	ARG
21	C9	131	ASP
21	C9	133	ASP
21	C9	134	ARG
22	D0	15	GLN
22	D0	17	GLN
22	D0	23	ARG
22	D0	25	THR
22	D0	27	THR
22	D0	30	LYS
22	D0	34	LEU
22	D0	39	SER

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Mol	Chain	Res	Type
22	D0	52	LYS
22	D0	57	ARG
22	D0	58	LEU
22	D0	60	THR
22	D0	61	LYS
22	D0	66	SER
22	D0	67	THR
22	D0	74	GLU
22	D0	76	SER
22	D0	81	THR
22	D0	88	LYS
22	D0	89	ARG
22	D0	97	VAL
22	D0	99	ILE
22	D0	103	ILE
22	D0	117	VAL
23	D1	7	GLN
23	D1	9	VAL
23	D1	11	LEU
23	D1	18	SER
23	D1	32	VAL
23	D1	34	ILE
23	D1	41	GLU
23	D1	42	GLU
23	D1	52	THR
23	D1	62	ARG
23	D1	69	LEU
23	D1	78	LEU
23	D1	80	LYS
24	D2	6	VAL
24	D2	7	LEU
24	D2	22	LYS
24	D2	23	ARG
24	D2	24	GLN
24	D2	26	LEU
24	D2	27	ILE
24	D2	29	PRO
24	D2	42	GLN
24	D2	53	ILE
24	D2	65	LEU
24	D2	68	ARG
24	D2	70	ASN

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Mol	Chain	Res	Type
24	D2	76	SER
24	D2	83	ILE
24	D2	93	LEU
24	D2	97	ARG
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR
24	D2	129	VAL
25	D3	7	ARG
25	D3	9	LEU
25	D3	16	ARG
25	D3	19	ARG
25	D3	23	ARG
25	D3	26	GLU
25	D3	28	ASN
25	D3	40	SER
25	D3	73	ARG
25	D3	78	LYS
25	D3	79	ASN
25	D3	82	LYS
25	D3	83	VAL
25	D3	84	THR
25	D3	100	ASP
25	D3	103	LEU
25	D3	107	PHE
25	D3	109	ARG
25	D3	114	LYS
25	D3	131	SER
25	D3	138	GLU
25	D3	139	LYS
25	D3	144	ARG
26	D4	17	LEU
26	D4	28	LEU
26	D4	32	ARG
26	D4	34	ASN
26	D4	51	GLU
26	D4	52	LYS
26	D4	57	VAL
26	D4	61	ARG
26	D4	62	THR
26	D4	79	VAL

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Mol	Chain	Res	Type
26	D4	96	LEU
26	D4	99	LYS
26	D4	102	LYS
26	D4	105	ARG
26	D4	124	ARG
26	D4	127	LYS
26	D4	128	LYS
27	D5	42	LEU
27	D5	50	ILE
27	D5	58	ARG
27	D5	59	TYR
27	D5	60	VAL
27	D5	67	ASP
27	D5	68	ARG
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	78	ILE
27	D5	85	LYS
27	D5	96	SER
27	D5	100	ILE
28	D6	12	LYS
28	D6	30	ILE
28	D6	36	ILE
28	D6	41	ILE
28	D6	45	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	70	LYS
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL
28	D6	85	ARG
28	D6	88	SER
28	D6	90	GLU
28	D6	91	ASP
29	D7	2	VAL
29	D7	3	LEU
29	D7	17	ARG
29	D7	20	LYS
29	D7	26	GLN
29	D7	29	ARG

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Mol	Chain	Res	Type
29	D7	33	LEU
29	D7	34	ASP
29	D7	56	CYS
29	D7	60	SER
29	D7	72	LYS
30	D8	13	ILE
30	D8	15	VAL
30	D8	19	THR
30	D8	28	VAL
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	35	ASP
30	D8	38	ARG
30	D8	39	THR
30	D8	49	ARG
30	D8	58	GLU
30	D8	59	SER
30	D8	64	ARG
31	D9	6	VAL
31	D9	8	PHE
31	D9	9	SER
31	D9	19	ARG
31	D9	30	LEU
31	D9	39	CYS
31	D9	44	ARG
31	D9	48	ASN
32	E0	8	LEU
32	E0	20	LYS
32	E0	37	ARG
32	E0	39	LEU
32	E0	47	VAL
32	E0	48	THR
32	E0	50	VAL
33	E1	82	LYS
33	E1	89	LYS
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	108	VAL
33	E1	109	ASP
33	E1	113	LYS

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Mol	Chain	Res	Type
33	E1	120	GLU
33	E1	130	VAL
33	E1	137	ASP
34	SR	6	VAL
34	SR	7	LEU
34	SR	10	ARG
34	SR	29	GLN
34	SR	37	SER
34	SR	48	THR
34	SR	50	ASP
34	SR	52	GLN
34	SR	59	ARG
34	SR	76	ASP
34	SR	96	THR
34	SR	106	HIS
34	SR	116	ASP
34	SR	117	LYS
34	SR	118	LYS
34	SR	134	TRP
34	SR	136	ILE
34	SR	141	LEU
34	SR	153	GLN
34	SR	159	ASN
34	SR	165	ASP
34	SR	185	GLN
34	SR	195	HIS
34	SR	199	ILE
34	SR	200	ASN
34	SR	201	THR
34	SR	211	ILE
34	SR	231	MET
34	SR	238	ASP
34	SR	241	PHE
34	SR	265	LEU
34	SR	268	GLN
34	SR	277	GLU
34	SR	288	HIS
34	SR	312	VAL
34	SR	317	THR
34	SR	319	ASN
35	SM	33	LYS
35	SM	41	SER

Continued on next page...

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Mol	Chain	Res	Type
35	SM	46	LYS
35	SM	51	ARG
35	SM	53	ARG
35	SM	61	ILE
35	SM	64	LYS
35	SM	77	THR
35	SM	84	LYS
35	SM	89	ARG
35	SM	94	HIS
35	SM	96	ARG
35	SM	97	THR
35	SM	100	THR
35	SM	103	LYS
35	SM	105	LYS
35	SM	116	GLU
35	SM	117	LEU
39	L2	10	LYS
39	L2	20	THR
39	L2	32	LEU
39	L2	44	ILE
39	L2	45	VAL
39	L2	46	LYS
39	L2	48	ILE
39	L2	62	VAL
39	L2	70	ARG
39	L2	71	LEU
39	L2	73	GLU
39	L2	74	GLU
39	L2	88	ILE
39	L2	95	SER
39	L2	96	LEU
39	L2	97	ASN
39	L2	101	VAL
39	L2	104	LEU
39	L2	114	SER
39	L2	119	LYS
39	L2	134	VAL
39	L2	137	ILE
39	L2	141	PRO
39	L2	143	GLU
39	L2	157	VAL
39	L2	165	VAL

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Mol	Chain	Res	Type
39	L2	177	LYS
39	L2	179	LEU
39	L2	181	LYS
39	L2	190	ARG
39	L2	191	LEU
39	L2	193	ARG
39	L2	202	VAL
39	L2	204	MET
39	L2	207	VAL
39	L2	227	ARG
39	L2	230	VAL
40	L3	3	HIS
40	L3	7	GLU
40	L3	10	ARG
40	L3	17	LEU
40	L3	19	ARG
40	L3	21	ARG
40	L3	24	SER
40	L3	25	ILE
40	L3	37	ARG
40	L3	38	SER
40	L3	39	LYS
40	L3	43	LEU
40	L3	47	LEU
40	L3	50	LYS
40	L3	56	ILE
40	L3	67	PHE
40	L3	70	ARG
40	L3	73	VAL
40	L3	79	VAL
40	L3	84	VAL
40	L3	85	VAL
40	L3	100	ARG
40	L3	103	THR
40	L3	110	LEU
40	L3	114	VAL
40	L3	116	ARG
40	L3	121	ASN
40	L3	134	SER
40	L3	139	GLN
40	L3	146	ARG
40	L3	148	LEU

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Mol	Chain	Res	Type
40	L3	150	ARG
40	L3	156	SER
40	L3	160	VAL
40	L3	169	THR
40	L3	173	GLN
40	L3	183	LEU
40	L3	188	ILE
40	L3	189	SER
40	L3	192	VAL
40	L3	196	ARG
40	L3	200	GLU
40	L3	202	THR
40	L3	205	VAL
40	L3	206	ASP
40	L3	210	GLU
40	L3	229	VAL
40	L3	232	ARG
40	L3	235	THR
40	L3	238	LEU
40	L3	241	LYS
40	L3	242	THR
40	L3	247	ARG
40	L3	252	ILE
40	L3	264	VAL
40	L3	277	SER
40	L3	281	LYS
40	L3	284	ARG
40	L3	305	ILE
40	L3	308	MET
40	L3	324	VAL
40	L3	328	ILE
40	L3	332	ARG
40	L3	336	VAL
40	L3	338	LEU
40	L3	341	SER
40	L3	347	SER
40	L3	348	ARG
40	L3	361	THR
40	L3	364	LYS
40	L3	382	THR
41	L4	4	PRO
41	L4	12	THR

Continued on next page...

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Mol	Chain	Res	Type
41	L4	25	VAL
41	L4	40	THR
41	L4	52	VAL
41	L4	53	SER
41	L4	60	THR
41	L4	71	VAL
41	L4	74	ILE
41	L4	93	MET
41	L4	99	MET
41	L4	122	THR
41	L4	124	SER
41	L4	131	VAL
41	L4	133	SER
41	L4	138	ARG
41	L4	152	VAL
41	L4	156	LEU
41	L4	170	LYS
41	L4	172	VAL
41	L4	179	LEU
41	L4	188	ARG
41	L4	193	LYS
41	L4	200	THR
41	L4	203	ARG
41	L4	206	LEU
41	L4	220	ARG
41	L4	222	VAL
41	L4	230	VAL
41	L4	232	SER
41	L4	233	LEU
41	L4	246	ARG
41	L4	258	LEU
41	L4	289	ILE
41	L4	292	SER
41	L4	293	SER
41	L4	295	ILE
41	L4	306	THR
41	L4	319	LYS
41	L4	322	GLN
41	L4	323	VAL
41	L4	327	LEU
41	L4	332	LYS
41	L4	349	THR

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Mol	Chain	Res	Type
41	L4	350	LYS
41	L4	357	GLU
41	L4	358	THR
42	L5	5	LYS
42	L5	22	ARG
42	L5	23	ARG
42	L5	35	ARG
42	L5	38	THR
42	L5	41	LYS
42	L5	63	GLN
42	L5	68	THR
42	L5	69	ILE
42	L5	93	THR
42	L5	105	ILE
42	L5	112	LYS
42	L5	115	LEU
42	L5	118	THR
42	L5	120	LYS
42	L5	131	LEU
42	L5	140	ARG
42	L5	144	VAL
42	L5	146	LEU
42	L5	148	ILE
42	L5	151	GLN
42	L5	152	ARG
42	L5	155	THR
42	L5	177	GLU
42	L5	185	PHE
42	L5	187	THR
42	L5	188	GLU
42	L5	194	LEU
42	L5	216	GLU
42	L5	232	ASP
42	L5	234	ASP
42	L5	242	SER
42	L5	254	LYS
42	L5	257	GLU
42	L5	259	LYS
42	L5	263	GLU
42	L5	273	ARG
42	L5	290	ILE
43	L6	5	LYS

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Mol	Chain	Res	Type
43	L6	9	TRP
43	L6	21	THR
43	L6	35	VAL
43	L6	46	ARG
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	70	LYS
43	L6	78	ARG
43	L6	79	VAL
43	L6	84	VAL
43	L6	89	THR
43	L6	93	VAL
43	L6	129	GLU
43	L6	134	ARG
43	L6	155	LEU
43	L6	160	SER
43	L6	162	SER
44	L7	24	GLU
44	L7	25	GLN
44	L7	26	VAL
44	L7	40	LYS
44	L7	82	LYS
44	L7	83	LEU
44	L7	89	ILE
44	L7	98	LYS
44	L7	100	ARG
44	L7	110	ARG
44	L7	121	LYS
44	L7	124	LEU
44	L7	143	THR
44	L7	179	LEU
44	L7	184	LEU
44	L7	239	LEU
44	L7	244	ASN
45	L8	26	LEU
45	L8	27	THR
45	L8	41	GLN
45	L8	57	ARG
45	L8	63	LYS
45	L8	67	ILE
45	L8	71	VAL

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Mol	Chain	Res	Type
45	L8	74	THR
45	L8	79	GLN
45	L8	81	THR
45	L8	82	LEU
45	L8	83	ASP
45	L8	84	ARG
45	L8	92	LYS
45	L8	95	ASN
45	L8	101	THR
45	L8	106	LYS
45	L8	110	THR
45	L8	132	VAL
45	L8	136	LEU
45	L8	145	ASN
45	L8	150	LEU
45	L8	156	ASP
45	L8	160	ILE
45	L8	163	VAL
45	L8	169	LEU
45	L8	181	LYS
45	L8	185	ARG
45	L8	189	LEU
45	L8	204	ARG
45	L8	214	LEU
45	L8	238	LEU
45	L8	241	LYS
45	L8	248	LYS
45	L8	251	LYS
46	L9	4	ILE
46	L9	5	GLN
46	L9	9	GLN
46	L9	14	GLU
46	L9	18	VAL
46	L9	19	SER
46	L9	20	ILE
46	L9	22	SER
46	L9	41	ILE
46	L9	48	VAL
46	L9	52	LEU
46	L9	62	ARG
46	L9	68	LEU
46	L9	69	ARG

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Mol	Chain	Res	Type
46	L9	70	THR
46	L9	82	VAL
46	L9	121	LYS
46	L9	132	VAL
46	L9	133	THR
46	L9	138	THR
46	L9	139	ASN
46	L9	151	VAL
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	168	ARG
46	L9	172	ILE
46	L9	173	ARG
46	L9	177	ASP
46	L9	189	GLU
47	M0	3	ARG
47	M0	7	ARG
47	M0	18	PRO
47	M0	21	ARG
47	M0	24	ARG
47	M0	30	LYS
47	M0	32	ARG
47	M0	33	ILE
47	M0	39	LYS
47	M0	40	LYS
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	57	LEU
47	M0	63	GLU
47	M0	69	ARG
47	M0	74	LYS
47	M0	77	THR
47	M0	87	LEU
47	M0	91	VAL
47	M0	99	ILE
47	M0	102	MET
47	M0	128	ARG
47	M0	129	VAL
47	M0	130	ASP

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Mol	Chain	Res	Type
47	M0	139	ARG
47	M0	140	THR
47	M0	146	ASP
47	M0	163	GLN
47	M0	165	ILE
47	M0	169	LYS
47	M0	174	THR
47	M0	178	ARG
47	M0	185	ARG
47	M0	191	LYS
47	M0	197	VAL
47	M0	201	SER
47	M0	203	LYS
48	M1	6	GLN
48	M1	7	ASN
48	M1	9	MET
48	M1	10	ARG
48	M1	12	LEU
48	M1	13	LYS
48	M1	23	VAL
48	M1	31	THR
48	M1	40	LEU
48	M1	44	THR
48	M1	46	VAL
48	M1	65	ILE
48	M1	68	HIS
48	M1	80	LEU
48	M1	82	ARG
48	M1	88	GLU
48	M1	94	ARG
48	M1	99	THR
48	M1	106	ILE
48	M1	107	ASP
48	M1	112	LEU
48	M1	115	LYS
48	M1	119	SER
48	M1	130	VAL
48	M1	140	ARG
48	M1	142	LYS
48	M1	147	THR
48	M1	158	ASP
48	M1	166	LYS

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Mol	Chain	Res	Type
48	M1	171	VAL
49	M3	21	ARG
49	M3	23	LYS
49	M3	24	VAL
49	M3	34	SER
49	M3	35	ARG
49	M3	46	ILE
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	58	VAL
49	M3	59	ARG
49	M3	63	VAL
49	M3	67	ARG
49	M3	69	VAL
49	M3	100	ARG
49	M3	107	GLU
49	M3	114	GLN
49	M3	115	ARG
49	M3	124	ILE
49	M3	131	LYS
49	M3	136	GLU
49	M3	164	GLU
49	M3	165	SER
49	M3	168	ARG
49	M3	171	ARG
49	M3	174	ARG
49	M3	182	ILE
49	M3	186	ARG
49	M3	190	LYS
49	M3	194	GLU
50	M4	8	LYS
50	M4	27	GLN
50	M4	50	LYS
50	M4	53	VAL
50	M4	58	ILE
50	M4	63	VAL
50	M4	66	THR
50	M4	72	LEU
50	M4	82	SER
50	M4	90	VAL
50	M4	93	LYS

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Mol	Chain	Res	Type
50	M4	102	LYS
50	M4	106	ARG
50	M4	108	ARG
50	M4	126	GLN
50	M4	130	THR
50	M4	135	LEU
50	M4	137	LYS
51	M5	7	LEU
51	M5	10	LEU
51	M5	18	VAL
51	M5	19	LEU
51	M5	20	ARG
51	M5	22	LEU
51	M5	24	ARG
51	M5	27	VAL
51	M5	46	ASP
51	M5	49	ARG
51	M5	50	ARG
51	M5	68	ARG
51	M5	71	ARG
51	M5	80	THR
51	M5	83	LYS
51	M5	85	THR
51	M5	92	LEU
51	M5	96	ARG
51	M5	97	SER
51	M5	98	LEU
51	M5	109	ARG
51	M5	117	ASN
51	M5	133	ILE
51	M5	138	GLN
51	M5	142	ILE
51	M5	151	ILE
51	M5	182	ASN
51	M5	190	THR
51	M5	196	THR
51	M5	204	LYS
52	M6	22	VAL
52	M6	25	LYS
52	M6	33	ILE
52	M6	41	LEU
52	M6	58	LEU

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Mol	Chain	Res	Type
52	M6	59	ARG
52	M6	67	THR
52	M6	78	ARG
52	M6	84	LEU
52	M6	85	ARG
52	M6	106	GLU
52	M6	110	PRO
52	M6	116	LYS
52	M6	117	ARG
52	M6	124	LEU
52	M6	128	ARG
52	M6	143	THR
52	M6	152	VAL
52	M6	159	LYS
52	M6	160	ARG
52	M6	184	THR
52	M6	192	LYS
53	M7	9	THR
53	M7	14	SER
53	M7	24	VAL
53	M7	25	SER
53	M7	29	THR
53	M7	32	THR
53	M7	36	ILE
53	M7	42	THR
53	M7	43	LYS
53	M7	52	LEU
53	M7	53	ASP
53	M7	56	ARG
53	M7	67	ILE
53	M7	75	GLU
53	M7	78	VAL
53	M7	91	VAL
53	M7	94	LEU
53	M7	112	LEU
53	M7	117	ILE
53	M7	119	VAL
53	M7	126	ARG
53	M7	136	ILE
53	M7	138	LYS
53	M7	144	SER
53	M7	157	VAL

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Mol	Chain	Res	Type
53	M7	173	ARG
53	M7	180	LYS
53	M7	181	ARG
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	64	VAL
54	M8	69	ARG
54	M8	73	GLN
54	M8	80	THR
54	M8	95	GLU
54	M8	122	ILE
54	M8	135	GLN
54	M8	141	ARG
54	M8	147	ARG
54	M8	150	VAL
54	M8	159	LYS
54	M8	168	THR
54	M8	178	ARG
54	M8	180	ARG
55	M9	8	LYS
55	M9	10	LEU
55	M9	20	ARG
55	M9	22	VAL
55	M9	28	GLU
55	M9	30	SER
55	M9	41	ILE
55	M9	44	LEU
55	M9	51	VAL
55	M9	71	ARG
55	M9	74	ARG
55	M9	86	GLU
55	M9	98	ARG
55	M9	99	LEU
55	M9	103	ARG

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Mol	Chain	Res	Type
55	M9	104	ARG
55	M9	106	LEU
55	M9	108	LYS
55	M9	110	ARG
55	M9	116	ASP
55	M9	138	LEU
55	M9	144	GLN
55	M9	173	ARG
55	M9	175	GLN
55	M9	180	LYS
56	N0	1	MET
56	N0	8	GLN
56	N0	21	GLU
56	N0	45	LEU
56	N0	50	LYS
56	N0	51	VAL
56	N0	61	ILE
56	N0	80	ARG
56	N0	87	THR
56	N0	100	VAL
56	N0	104	GLU
56	N0	105	THR
56	N0	113	ARG
56	N0	115	ARG
56	N0	117	ARG
56	N0	130	GLU
56	N0	131	LYS
56	N0	132	THR
56	N0	137	ARG
56	N0	138	GLN
56	N0	142	GLN
56	N0	144	LEU
56	N0	155	ARG
56	N0	156	VAL
56	N0	160	THR
56	N0	161	LYS
56	N0	166	LYS
56	N0	167	ARG
56	N0	169	SER
56	N0	171	PHE
56	N0	172	TYR
57	N1	9	SER

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Mol	Chain	Res	Type
57	N1	12	ARG
57	N1	25	VAL
57	N1	26	HIS
57	N1	27	LEU
57	N1	32	LYS
57	N1	43	LYS
57	N1	55	LYS
57	N1	68	THR
57	N1	69	LYS
57	N1	71	SER
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	96	ILE
57	N1	102	ARG
57	N1	103	GLN
57	N1	104	GLU
57	N1	106	LEU
57	N1	118	GLU
57	N1	124	VAL
57	N1	126	VAL
57	N1	127	GLN
57	N1	128	LEU
57	N1	139	ARG
57	N1	143	THR
57	N1	146	ASN
57	N1	149	GLN
58	N2	10	LYS
58	N2	43	VAL
58	N2	52	ASN
58	N2	54	VAL
58	N2	87	ASN
58	N2	88	GLN
58	N2	93	ILE
58	N2	100	THR
59	N3	13	ILE
59	N3	32	ARG
59	N3	42	SER

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Mol	Chain	Res	Type
59	N3	44	SER
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	84	SER
59	N3	102	ILE
59	N3	115	THR
60	N4	4	GLU
60	N4	5	ILE
60	N4	19	THR
60	N4	39	LEU
60	N4	54	LEU
61	N5	27	ARG
61	N5	36	LYS
61	N5	37	THR
61	N5	38	LEU
61	N5	40	LEU
61	N5	45	LYS
61	N5	63	ILE
61	N5	69	SER
61	N5	71	THR
61	N5	73	MET
61	N5	77	GLU
61	N5	85	GLN
61	N5	86	VAL
61	N5	92	LYS
61	N5	108	LEU
61	N5	109	LYS
61	N5	115	ARG
61	N5	125	ARG
61	N5	133	LEU
61	N5	135	ILE
61	N5	138	ARG
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	6	LEU
62	N6	13	ARG
62	N6	17	LYS

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Mol	Chain	Res	Type
62	N6	26	GLN
62	N6	37	LYS
62	N6	39	LEU
62	N6	45	ILE
62	N6	50	ILE
62	N6	51	ARG
62	N6	55	GLU
62	N6	56	VAL
62	N6	57	LEU
62	N6	59	VAL
62	N6	70	ILE
62	N6	74	TYR
62	N6	76	LEU
62	N6	80	VAL
62	N6	88	GLU
62	N6	89	LYS
62	N6	105	VAL
62	N6	115	ARG
62	N6	125	LYS
63	N7	14	VAL
63	N7	17	ARG
63	N7	24	VAL
63	N7	30	ASP
63	N7	34	LYS
63	N7	46	ILE
63	N7	54	THR
63	N7	60	LYS
63	N7	72	ILE
63	N7	75	VAL
63	N7	81	LEU
63	N7	83	THR
63	N7	86	THR
63	N7	87	LEU
63	N7	90	GLU
63	N7	99	GLU
63	N7	102	GLU
63	N7	103	GLN
63	N7	109	GLU
63	N7	121	ARG
63	N7	132	SER
63	N7	134	LEU
64	N8	4	ARG

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Mol	Chain	Res	Type
64	N8	6	THR
64	N8	8	THR
64	N8	10	LYS
64	N8	12	ARG
64	N8	16	SER
64	N8	42	ARG
64	N8	58	MET
64	N8	60	TYR
64	N8	76	ASP
64	N8	78	LEU
64	N8	91	LEU
64	N8	115	LYS
64	N8	117	ARG
64	N8	123	VAL
64	N8	130	VAL
64	N8	133	LEU
65	N9	4	SER
65	N9	14	ARG
65	N9	25	LYS
65	N9	28	LYS
65	N9	35	VAL
65	N9	40	ARG
65	N9	50	THR
65	N9	52	LYS
65	N9	58	LYS
65	N9	59	LYS
66	O0	16	LEU
66	O0	18	ILE
66	O0	30	THR
66	O0	34	LEU
66	O0	48	THR
66	O0	61	MET
66	O0	65	THR
66	O0	66	LYS
66	O0	76	GLU
66	O0	83	LYS
66	O0	100	ILE
67	O1	8	VAL
67	O1	13	THR
67	O1	16	LEU
67	O1	26	LYS
67	O1	31	ARG

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Mol	Chain	Res	Type
67	O1	55	LEU
67	O1	64	VAL
67	O1	73	LEU
67	O1	76	SER
67	O1	79	ARG
67	O1	84	ASP
67	O1	86	LYS
67	O1	89	LEU
67	O1	94	GLU
67	O1	102	LYS
67	O1	105	GLN
67	O1	106	THR
68	O2	3	SER
68	O2	15	LYS
68	O2	19	ARG
68	O2	30	GLU
68	O2	33	ARG
68	O2	41	VAL
68	O2	54	LYS
68	O2	62	LYS
68	O2	73	THR
68	O2	75	LEU
68	O2	76	VAL
68	O2	84	THR
68	O2	106	VAL
68	O2	109	LEU
68	O2	111	ARG
68	O2	125	ARG
68	O2	126	LEU
68	O2	128	LEU
69	O3	20	LYS
69	O3	28	SER
69	O3	31	LYS
69	O3	48	ARG
69	O3	49	ILE
69	O3	59	VAL
69	O3	60	ARG
69	O3	80	VAL
69	O3	82	ARG
69	O3	86	ARG
69	O3	98	VAL
69	O3	106	ASN

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Mol	Chain	Res	Type
70	O4	5	VAL
70	O4	8	ARG
70	O4	16	ARG
70	O4	20	ILE
70	O4	23	VAL
70	O4	24	LYS
70	O4	29	ILE
70	O4	35	VAL
70	O4	38	LEU
70	O4	51	LEU
70	O4	56	THR
70	O4	58	ARG
70	O4	61	GLN
70	O4	68	THR
70	O4	71	THR
70	O4	80	ARG
70	O4	86	LYS
70	O4	87	GLU
70	O4	103	LYS
70	O4	104	VAL
71	O5	15	GLU
71	O5	27	GLU
71	O5	28	LEU
71	O5	31	LEU
71	O5	44	ILE
71	O5	46	THR
71	O5	48	ARG
71	O5	49	LYS
71	O5	50	SER
71	O5	71	LYS
71	O5	84	LYS
71	O5	85	THR
71	O5	86	ARG
71	O5	89	ARG
71	O5	94	LYS
71	O5	96	GLU
71	O5	100	VAL
71	O5	101	THR
71	O5	102	GLU
71	O5	104	GLN
71	O5	107	LYS
71	O5	119	LYS

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Mol	Chain	Res	Type
72	O6	11	LEU
72	O6	18	THR
72	O6	21	THR
72	O6	26	ILE
72	O6	34	SER
72	O6	36	ARG
72	O6	37	THR
72	O6	45	ARG
72	O6	57	LEU
72	O6	58	ILE
72	O6	62	ARG
72	O6	66	GLU
72	O6	68	ARG
72	O6	76	ARG
72	O6	81	THR
72	O6	88	GLU
72	O6	98	ARG
72	O6	99	ARG
73	O7	5	THR
73	O7	24	ARG
73	O7	25	ARG
73	O7	26	SER
73	O7	33	THR
73	O7	45	ARG
73	O7	58	THR
73	O7	59	THR
73	O7	64	MET
73	O7	65	ARG
73	O7	67	LEU
73	O7	79	GLN
74	O8	5	ILE
74	O8	8	ILE
74	O8	24	THR
74	O8	31	LEU
74	O8	32	ASN
74	O8	41	THR
74	O8	45	VAL
74	O8	46	ARG
74	O8	53	THR
74	O8	54	LEU
74	O8	58	ASP
74	O8	64	LYS

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Mol	Chain	Res	Type
74	O8	65	LEU
74	O8	67	GLN
74	O8	77	ARG
75	O9	5	LYS
75	O9	21	ARG
75	O9	34	THR
75	O9	36	ARG
75	O9	45	ARG
75	O9	51	ILE
76	Q0	78	ILE
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	112	LYS
76	Q0	113	ARG
77	Q1	4	LYS
77	Q1	6	ARG
77	Q1	9	ARG
77	Q1	10	THR
77	Q1	11	ARG
77	Q1	19	LYS
77	Q1	20	VAL
77	Q1	21	ARG
78	Q2	3	ASN
78	Q2	4	VAL
78	Q2	6	LYS
78	Q2	8	ARG
78	Q2	17	CYS
78	Q2	21	THR
78	Q2	26	THR
78	Q2	35	LEU
78	Q2	47	GLN
78	Q2	48	SER
78	Q2	55	LYS
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	93	LEU
78	Q2	99	GLN
78	Q2	104	LEU
79	Q3	5	THR
79	Q3	11	THR
79	Q3	16	VAL
79	Q3	24	ARG

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Mol	Chain	Res	Type
79	Q3	25	GLN
79	Q3	36	ARG
79	Q3	45	LYS
79	Q3	49	ARG
79	Q3	58	SER
79	Q3	60	CYS
79	Q3	73	THR
79	Q3	78	THR
79	Q3	84	ARG
79	Q3	91	GLU
2	s0	6	THR
2	s0	12	GLU
2	s0	18	LEU
2	s0	30	GLN
2	s0	41	ARG
2	s0	43	ASP
2	s0	45	VAL
2	s0	55	GLU
2	s0	57	LEU
2	s0	62	ARG
2	s0	80	THR
2	s0	87	LEU
2	s0	93	THR
2	s0	111	ILE
2	s0	112	THR
2	s0	124	THR
2	s0	144	ILE
2	s0	146	LEU
2	s0	151	SER
2	s0	157	ASP
2	s0	164	ASN
2	s0	172	LEU
2	s0	183	ARG
2	s0	185	ARG
2	s0	188	LEU
2	s0	189	VAL
2	s0	198	MET
3	s1	21	VAL
3	s1	25	THR
3	s1	37	THR
3	s1	47	LEU
3	s1	51	SER

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Mol	Chain	Res	Type
3	s1	54	LEU
3	s1	55	LYS
3	s1	62	LYS
3	s1	65	VAL
3	s1	70	LEU
3	s1	73	LEU
3	s1	83	LYS
3	s1	97	LEU
3	s1	105	PHE
3	s1	106	THR
3	s1	116	LYS
3	s1	122	GLU
3	s1	126	THR
3	s1	131	ASP
3	s1	169	SER
3	s1	173	THR
3	s1	181	LEU
3	s1	183	GLN
3	s1	184	LEU
3	s1	192	VAL
3	s1	203	ASP
3	s1	206	PRO
3	s1	219	LYS
3	s1	222	LYS
3	s1	228	LEU
4	s2	41	LEU
4	s2	53	ILE
4	s2	55	GLU
4	s2	58	LEU
4	s2	69	ILE
4	s2	71	THR
4	s2	73	LEU
4	s2	83	ILE
4	s2	84	LYS
4	s2	89	GLN
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

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Mol	Chain	Res	Type
4	s2	117	THR
4	s2	137	ILE
4	s2	139	ILE
4	s2	141	ARG
4	s2	146	THR
4	s2	148	LEU
4	s2	159	THR
4	s2	164	SER
4	s2	166	THR
4	s2	170	ILE
4	s2	185	LYS
4	s2	186	LYS
4	s2	194	GLU
4	s2	206	THR
4	s2	207	LEU
4	s2	218	ILE
4	s2	222	TYR
4	s2	225	LEU
4	s2	229	LEU
4	s2	233	GLN
4	s2	245	ASP
4	s2	248	SER
5	s3	4	LEU
5	s3	7	LYS
5	s3	10	LYS
5	s3	11	LEU
5	s3	21	LEU
5	s3	40	ARG
5	s3	41	VAL
5	s3	44	THR
5	s3	61	GLU
5	s3	66	ILE
5	s3	67	ASN
5	s3	69	LEU
5	s3	84	ILE
5	s3	86	LEU
5	s3	93	ASP
5	s3	94	ARG
5	s3	103	GLU
5	s3	111	ASN
5	s3	115	ILE
5	s3	124	ARG

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Mol	Chain	Res	Type
5	s3	127	MET
5	s3	128	GLU
5	s3	134	CYS
5	s3	142	LEU
5	s3	143	ARG
5	s3	146	ARG
5	s3	158	ILE
5	s3	168	ILE
5	s3	169	ASP
5	s3	172	THR
5	s3	176	LEU
5	s3	189	MET
5	s3	202	LEU
5	s3	207	THR
5	s3	212	LYS
5	s3	223	LYS
5	s3	225	TYR
6	s4	6	LYS
6	s4	7	LYS
6	s4	9	LEU
6	s4	12	LEU
6	s4	23	LEU
6	s4	38	LEU
6	s4	42	LEU
6	s4	45	ILE
6	s4	48	LEU
6	s4	49	ARG
6	s4	50	ASN
6	s4	51	ARG
6	s4	67	GLN
6	s4	68	ARG
6	s4	70	VAL
6	s4	78	THR
6	s4	95	THR
6	s4	105	VAL
6	s4	113	ARG
6	s4	117	GLU
6	s4	118	GLU
6	s4	123	LEU
6	s4	127	LYS
6	s4	147	ILE
6	s4	148	ARG

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Mol	Chain	Res	Type
6	s4	159	THR
6	s4	160	VAL
6	s4	180	LEU
6	s4	182	TYR
6	s4	187	ARG
6	s4	194	THR
6	s4	210	ILE
6	s4	219	VAL
6	s4	221	ARG
6	s4	222	LEU
6	s4	233	LYS
6	s4	236	ILE
6	s4	237	SER
6	s4	245	LYS
6	s4	246	LEU
6	s4	254	ARG
6	s4	256	ARG
7	s5	23	VAL
7	s5	25	LEU
7	s5	27	THR
7	s5	38	THR
7	s5	39	GLU
7	s5	45	LYS
7	s5	63	GLN
7	s5	66	GLN
7	s5	68	ILE
7	s5	76	ARG
7	s5	89	ILE
7	s5	93	LEU
7	s5	109	LYS
7	s5	119	ASP
7	s5	125	THR
7	s5	130	ILE
7	s5	146	THR
7	s5	147	THR
7	s5	148	ARG
7	s5	157	ARG
7	s5	163	SER
7	s5	167	ARG
7	s5	186	ASN
7	s5	187	ILE
7	s5	190	ILE

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Mol	Chain	Res	Type
7	s5	192	GLU
7	s5	194	LEU
7	s5	203	LYS
7	s5	205	SER
8	s6	22	HIS
8	s6	25	ARG
8	s6	30	LYS
8	s6	34	GLN
8	s6	44	GLU
8	s6	69	LEU
8	s6	71	THR
8	s6	76	LEU
8	s6	89	ASP
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	114	VAL
8	s6	115	LYS
8	s6	116	LYS
8	s6	120	GLU
8	s6	121	LEU
8	s6	126	ASP
8	s6	128	THR
8	s6	129	VAL
8	s6	133	LEU
8	s6	137	ARG
8	s6	143	LYS
8	s6	151	ASP
8	s6	155	ASP
8	s6	168	THR
8	s6	177	ARG
8	s6	179	VAL
8	s6	193	LEU
8	s6	215	ARG
8	s6	216	LEU
8	s6	217	SER
9	s7	11	GLN
9	s7	16	LEU
9	s7	18	LEU
9	s7	28	GLU
9	s7	33	GLU
9	s7	49	ILE

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Mol	Chain	Res	Type
9	s7	50	ASP
9	s7	55	LYS
9	s7	67	LEU
9	s7	73	VAL
9	s7	77	LEU
9	s7	79	ARG
9	s7	97	ARG
9	s7	105	THR
9	s7	106	SER
9	s7	110	GLN
9	s7	114	ARG
9	s7	116	ARG
9	s7	117	THR
9	s7	126	LEU
9	s7	136	VAL
9	s7	143	LEU
9	s7	144	VAL
9	s7	148	LYS
9	s7	150	GLN
9	s7	159	VAL
9	s7	163	ASP
9	s7	166	LEU
9	s7	185	ILE
10	s8	18	ARG
10	s8	25	ARG
10	s8	29	LEU
10	s8	36	THR
10	s8	46	VAL
10	s8	61	GLU
10	s8	64	ASN
10	s8	76	THR
10	s8	77	ARG
10	s8	82	VAL
10	s8	89	GLU
10	s8	110	ARG
10	s8	111	GLN
10	s8	119	GLN
10	s8	120	THR
10	s8	121	LEU
10	s8	135	LYS
10	s8	138	ASN
10	s8	153	GLU

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Mol	Chain	Res	Type
10	s8	155	SER
10	s8	176	SER
10	s8	183	ILE
10	s8	184	LEU
10	s8	199	LYS
11	s9	3	ARG
11	s9	6	ARG
11	s9	7	THR
11	s9	20	GLU
11	s9	21	SER
11	s9	28	LEU
11	s9	37	LYS
11	s9	39	LYS
11	s9	49	LEU
11	s9	50	SER
11	s9	54	ARG
11	s9	77	ILE
11	s9	78	ARG
11	s9	82	ARG
11	s9	89	ASP
11	s9	90	LYS
11	s9	91	LYS
11	s9	93	LEU
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU
11	s9	110	GLN
11	s9	111	THR
11	s9	115	LYS
11	s9	126	ARG
11	s9	130	THR
11	s9	133	HIS
11	s9	134	ILE
11	s9	140	ILE
11	s9	149	ARG
11	s9	162	SER
11	s9	168	ARG
11	s9	172	VAL
11	s9	180	LYS
11	s9	182	GLU
12	c0	2	LEU
12	c0	12	HIS

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Mol	Chain	Res	Type
12	c0	15	LEU
12	c0	20	VAL
12	c0	21	VAL
12	c0	55	VAL
12	c0	56	LYS
12	c0	57	THR
12	c0	67	THR
12	c0	71	GLU
13	c1	3	THR
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	26	LYS
13	c1	30	ARG
13	c1	31	THR
13	c1	33	ARG
13	c1	40	LEU
13	c1	44	THR
13	c1	47	THR
13	c1	60	PHE
13	c1	67	ARG
13	c1	74	THR
13	c1	76	VAL
13	c1	80	MET
13	c1	83	THR
13	c1	86	ILE
13	c1	109	VAL
13	c1	123	VAL
13	c1	129	ARG
13	c1	138	ASN
13	c1	140	VAL
13	c1	143	SER
14	c2	38	HIS
14	c2	39	ASP
14	c2	45	LEU
14	c2	58	LEU
14	c2	61	VAL
14	c2	65	SER
14	c2	71	ILE
14	c2	83	GLU
14	c2	85	LYS
14	c2	89	ILE

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Mol	Chain	Res	Type
14	c2	103	LEU
14	c2	120	VAL
14	c2	121	VAL
14	c2	125	ASN
14	c2	132	GLU
14	c2	136	ILE
14	c2	137	MET
14	c2	140	PHE
15	c3	12	SER
15	c3	13	SER
15	c3	16	ILE
15	c3	20	ARG
15	c3	27	LYS
15	c3	35	GLU
15	c3	39	LYS
15	c3	66	ILE
15	c3	67	THR
15	c3	70	LYS
15	c3	80	LEU
15	c3	84	ILE
15	c3	87	ASP
15	c3	88	LEU
15	c3	93	LYS
15	c3	102	LEU
15	c3	104	ARG
15	c3	106	ARG
15	c3	115	LEU
15	c3	125	LEU
15	c3	127	ARG
15	c3	131	THR
15	c3	138	ASN
15	c3	147	SER
16	c4	18	ARG
16	c4	31	THR
16	c4	33	LEU
16	c4	36	LYS
16	c4	49	LYS
16	c4	51	ASP
16	c4	52	ARG
16	c4	61	MET
16	c4	70	LYS
16	c4	79	VAL

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Mol	Chain	Res	Type
16	c4	81	VAL
16	c4	92	LYS
16	c4	102	LEU
16	c4	111	ARG
16	c4	114	ARG
16	c4	119	THR
16	c4	125	SER
16	c4	127	ARG
16	c4	129	LYS
16	c4	132	ARG
16	c4	133	ARG
16	c4	136	ARG
17	c5	12	PHE
17	c5	24	LYS
17	c5	29	SER
17	c5	36	LEU
17	c5	40	ARG
17	c5	43	ARG
17	c5	44	ARG
17	c5	52	LYS
17	c5	57	MET
17	c5	69	GLU
17	c5	71	GLU
17	c5	72	LYS
17	c5	77	ARG
17	c5	107	ILE
17	c5	110	GLU
17	c5	122	THR
17	c5	124	THR
17	c5	127	ARG
18	c6	17	THR
18	c6	23	LYS
18	c6	28	LEU
18	c6	34	SER
18	c6	37	THR
18	c6	40	GLU
18	c6	43	ILE
18	c6	48	VAL
18	c6	53	LEU
18	c6	57	LEU
18	c6	68	ARG
18	c6	69	VAL

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Mol	Chain	Res	Type
18	c6	70	THR
18	c6	81	ILE
18	c6	94	GLN
18	c6	107	LYS
18	c6	110	THR
18	c6	113	ASP
18	c6	114	ARG
18	c6	115	THR
18	c6	117	LEU
18	c6	137	ARG
18	c6	143	ARG
19	c7	8	THR
19	c7	19	ARG
19	c7	34	LEU
19	c7	43	SER
19	c7	46	LEU
19	c7	60	ARG
19	c7	63	LYS
19	c7	69	ILE
19	c7	72	LYS
19	c7	74	GLN
19	c7	83	GLN
19	c7	85	VAL
19	c7	88	VAL
19	c7	104	ASN
19	c7	113	LEU
20	c8	2	SER
20	c8	3	LEU
20	c8	4	VAL
20	c8	6	GLN
20	c8	7	GLU
20	c8	8	GLN
20	c8	12	GLN
20	c8	15	LEU
20	c8	20	THR
20	c8	25	ASN
20	c8	28	ILE
20	c8	33	THR
20	c8	36	LYS
20	c8	40	ARG
20	c8	57	ARG
20	c8	61	LEU

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Mol	Chain	Res	Type
20	c8	64	GLU
20	c8	86	LEU
20	c8	88	ARG
20	c8	93	THR
20	c8	105	VAL
20	c8	113	LEU
20	c8	116	LEU
20	c8	119	ILE
20	c8	120	ARG
20	c8	133	VAL
20	c8	136	GLN
20	c8	138	THR
20	c8	143	ARG
20	c8	145	ARG
21	c9	6	VAL
21	c9	28	LEU
21	c9	34	VAL
21	c9	35	ASP
21	c9	36	ILE
21	c9	37	VAL
21	c9	46	PRO
21	c9	51	GLU
21	c9	57	ARG
21	c9	71	VAL
21	c9	84	LYS
21	c9	88	VAL
21	c9	111	ILE
21	c9	123	ARG
21	c9	134	ARG
21	c9	135	ILE
21	c9	139	THR
21	c9	142	GLU
21	c9	144	GLU
22	d0	13	GLU
22	d0	20	ILE
22	d0	27	THR
22	d0	31	VAL
22	d0	33	GLN
22	d0	44	ASN
22	d0	47	GLN
22	d0	51	VAL
22	d0	57	ARG

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Mol	Chain	Res	Type
22	d0	60	THR
22	d0	67	THR
22	d0	70	THR
22	d0	74	GLU
22	d0	81	THR
22	d0	88	LYS
22	d0	89	ARG
22	d0	99	ILE
22	d0	102	ARG
22	d0	103	ILE
22	d0	107	THR
22	d0	108	ILE
22	d0	113	ASP
23	d1	2	GLU
23	d1	5	LYS
23	d1	8	LEU
23	d1	10	GLU
23	d1	11	LEU
23	d1	12	TYR
23	d1	15	ARG
23	d1	32	VAL
23	d1	44	ARG
23	d1	52	THR
23	d1	68	SER
23	d1	78	LEU
23	d1	81	ASN
23	d1	86	SER
24	d2	6	VAL
24	d2	7	LEU
24	d2	15	ASN
24	d2	22	LYS
24	d2	25	VAL
24	d2	26	LEU
24	d2	43	LYS
24	d2	65	LEU
24	d2	74	VAL
24	d2	88	LYS
24	d2	93	LEU
24	d2	103	ILE
24	d2	105	THR
24	d2	129	VAL
25	d3	9	LEU

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Mol	Chain	Res	Type
25	d3	14	LYS
25	d3	16	ARG
25	d3	19	ARG
25	d3	28	ASN
25	d3	33	LEU
25	d3	36	THR
25	d3	40	SER
25	d3	73	ARG
25	d3	83	VAL
25	d3	84	THR
25	d3	96	VAL
25	d3	103	LEU
25	d3	107	PHE
25	d3	121	ARG
25	d3	131	SER
25	d3	133	LEU
26	d4	5	VAL
26	d4	10	ARG
26	d4	12	VAL
26	d4	26	ASP
26	d4	29	HIS
26	d4	42	GLU
26	d4	43	LYS
26	d4	46	GLU
26	d4	49	LYS
26	d4	62	THR
26	d4	88	THR
26	d4	100	VAL
26	d4	132	ARG
26	d4	133	ASN
27	d5	42	LEU
27	d5	43	ASP
27	d5	46	LYS
27	d5	51	LEU
27	d5	53	GLU
27	d5	57	TYR
27	d5	60	VAL
27	d5	81	ARG
27	d5	93	SER
28	d6	11	ASN
28	d6	24	VAL
28	d6	25	ASN

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Mol	Chain	Res	Type
28	d6	34	LYS
28	d6	41	ILE
28	d6	44	ILE
28	d6	67	THR
28	d6	76	SER
28	d6	82	ARG
28	d6	85	ARG
28	d6	87	ARG
29	d7	3	LEU
29	d7	4	VAL
29	d7	17	ARG
29	d7	22	LYS
29	d7	43	ILE
29	d7	44	THR
29	d7	72	LYS
30	d8	22	ARG
30	d8	28	VAL
30	d8	33	LEU
30	d8	36	THR
30	d8	48	VAL
30	d8	49	ARG
30	d8	54	LEU
30	d8	58	GLU
30	d8	64	ARG
31	d9	19	ARG
31	d9	30	LEU
31	d9	32	ARG
31	d9	36	LEU
31	d9	54	LYS
31	d9	56	ARG
80	e0	5	HIS
80	e0	23	LYS
80	e0	26	LYS
80	e0	29	LYS
80	e0	38	LEU
80	e0	41	THR
80	e0	43	ARG
80	e0	44	PHE
80	e0	46	ASN
80	e0	55	ARG
80	e0	56	MET
81	e1	86	THR

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Mol	Chain	Res	Type
81	e1	90	LYS
81	e1	96	LYS
81	e1	100	LEU
81	e1	102	VAL
81	e1	106	TYR
81	e1	107	LYS
81	e1	109	ASP
81	e1	113	LYS
81	e1	119	ARG
81	e1	121	CYS
81	e1	122	SER
81	e1	130	VAL
81	e1	135	HIS
81	e1	137	ASP
81	e1	147	VAL
81	e1	148	TYR
81	e1	150	VAL
34	sR	25	THR
34	sR	42	LEU
34	sR	56	VAL
34	sR	58	VAL
34	sR	59	ARG
34	sR	60	SER
34	sR	65	SER
34	sR	66	HIS
34	sR	76	ASP
34	sR	96	THR
34	sR	101	GLN
34	sR	108	SER
34	sR	136	ILE
34	sR	145	LEU
34	sR	166	SER
34	sR	168	THR
34	sR	184	ASN
34	sR	199	ILE
34	sR	203	THR
34	sR	228	LYS
34	sR	232	TYR
34	sR	245	PHE
34	sR	256	THR
34	sR	266	ASP
34	sR	275	ARG

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Mol	Chain	Res	Type
34	sR	286	GLU
34	sR	295	SER
34	sR	297	ASP
34	sR	299	GLN
34	sR	317	THR
35	sM	23	LYS
35	sM	27	LYS
35	sM	28	SER
35	sM	33	LYS
35	sM	43	ASP
35	sM	45	SER
35	sM	48	ARG
35	sM	49	LYS
35	sM	53	ARG
35	sM	61	ILE
35	sM	64	LYS
35	sM	74	LYS
35	sM	77	THR
35	sM	79	SER
35	sM	85	SER
39	l2	15	ILE
39	l2	23	ARG
39	l2	32	LEU
39	l2	44	ILE
39	l2	45	VAL
39	l2	46	LYS
39	l2	48	ILE
39	l2	62	VAL
39	l2	70	ARG
39	l2	74	GLU
39	l2	82	VAL
39	l2	96	LEU
39	l2	101	VAL
39	l2	113	VAL
39	l2	114	SER
39	l2	116	VAL
39	l2	137	ILE
39	l2	142	ASP
39	l2	147	ARG
39	l2	149	ARG
39	l2	155	LYS
39	l2	157	VAL

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Mol	Chain	Res	Type
39	l2	158	ILE
39	l2	179	LEU
39	l2	181	LYS
39	l2	188	LYS
39	l2	193	ARG
39	l2	215	ASN
39	l2	227	ARG
39	l2	241	ARG
39	l2	243	THR
39	l2	246	LEU
40	l3	3	HIS
40	l3	4	ARG
40	l3	10	ARG
40	l3	17	LEU
40	l3	19	ARG
40	l3	21	ARG
40	l3	34	LYS
40	l3	43	LEU
40	l3	47	LEU
40	l3	50	LYS
40	l3	67	PHE
40	l3	70	ARG
40	l3	77	THR
40	l3	79	VAL
40	l3	84	VAL
40	l3	85	VAL
40	l3	102	LEU
40	l3	103	THR
40	l3	104	THR
40	l3	114	VAL
40	l3	116	ARG
40	l3	134	SER
40	l3	139	GLN
40	l3	145	GLU
40	l3	146	ARG
40	l3	148	LEU
40	l3	150	ARG
40	l3	156	SER
40	l3	157	VAL
40	l3	169	THR
40	l3	178	LEU
40	l3	183	LEU

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Mol	Chain	Res	Type
40	l3	192	VAL
40	l3	196	ARG
40	l3	202	THR
40	l3	205	VAL
40	l3	213	GLU
40	l3	221	THR
40	l3	222	LYS
40	l3	229	VAL
40	l3	232	ARG
40	l3	235	THR
40	l3	238	LEU
40	l3	242	THR
40	l3	248	LYS
40	l3	249	VAL
40	l3	252	ILE
40	l3	261	MET
40	l3	264	VAL
40	l3	284	ARG
40	l3	297	SER
40	l3	304	THR
40	l3	308	MET
40	l3	317	ILE
40	l3	319	ASN
40	l3	320	ASP
40	l3	328	ILE
40	l3	332	ARG
40	l3	335	ILE
40	l3	338	LEU
40	l3	341	SER
40	l3	348	ARG
40	l3	349	LYS
40	l3	355	SER
40	l3	361	THR
40	l3	364	LYS
40	l3	369	ARG
40	l3	376	LYS
40	l3	382	THR
41	l4	3	ARG
41	l4	14	GLU
41	l4	16	THR
41	l4	25	VAL
41	l4	47	ARG

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Mol	Chain	Res	Type
41	l4	52	VAL
41	l4	60	THR
41	l4	71	VAL
41	l4	93	MET
41	l4	99	MET
41	l4	112	LYS
41	l4	117	GLU
41	l4	120	TYR
41	l4	122	THR
41	l4	138	ARG
41	l4	144	LYS
41	l4	145	ILE
41	l4	150	LEU
41	l4	156	LEU
41	l4	170	LYS
41	l4	172	VAL
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	230	VAL
41	l4	246	ARG
41	l4	258	LEU
41	l4	289	ILE
41	l4	290	ILE
41	l4	293	SER
41	l4	300	ARG
41	l4	301	PRO
41	l4	306	THR
41	l4	307	GLN
41	l4	308	LYS
41	l4	313	LEU
41	l4	319	LYS
41	l4	323	VAL
41	l4	327	LEU
41	l4	339	LEU
41	l4	342	LYS
41	l4	345	GLU
41	l4	347	THR

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Mol	Chain	Res	Type
41	14	356	THR
41	14	359	LEU
42	15	4	GLN
42	15	5	LYS
42	15	34	LYS
42	15	35	ARG
42	15	51	LEU
42	15	65	ILE
42	15	68	THR
42	15	70	THR
42	15	74	VAL
42	15	75	LEU
42	15	89	THR
42	15	93	THR
42	15	110	LEU
42	15	112	LYS
42	15	113	LEU
42	15	115	LEU
42	15	118	THR
42	15	120	LYS
42	15	133	GLU
42	15	136	GLU
42	15	144	VAL
42	15	146	LEU
42	15	148	ILE
42	15	152	ARG
42	15	155	THR
42	15	164	LYS
42	15	177	GLU
42	15	183	TRP
42	15	185	PHE
42	15	186	GLU
42	15	194	LEU
42	15	205	SER
42	15	211	LEU
42	15	227	LEU
42	15	241	THR
42	15	254	LYS
42	15	258	LYS
42	15	259	LYS
42	15	262	LYS
42	15	268	GLU

Continued on next page...

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Mol	Chain	Res	Type
42	15	273	ARG
42	15	275	THR
42	15	276	LYS
42	15	282	ARG
42	15	297	GLN
43	16	8	LYS
43	16	20	LYS
43	16	21	THR
43	16	31	ARG
43	16	46	ARG
43	16	50	LYS
43	16	64	LEU
43	16	65	ILE
43	16	78	ARG
43	16	79	VAL
43	16	88	SER
43	16	89	THR
43	16	93	VAL
43	16	98	VAL
43	16	99	GLU
43	16	108	LYS
43	16	109	GLU
43	16	131	LYS
43	16	133	GLU
43	16	151	LYS
43	16	152	THR
43	16	155	LEU
43	16	162	SER
43	16	175	LYS
44	17	22	THR
44	17	24	GLU
44	17	26	VAL
44	17	41	ARG
44	17	56	GLU
44	17	59	GLU
44	17	60	ARG
44	17	77	VAL
44	17	83	LEU
44	17	88	ARG
44	17	98	LYS
44	17	100	ARG
44	17	110	ARG

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Mol	Chain	Res	Type
44	17	124	LEU
44	17	130	ILE
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	219	LYS
44	17	229	PHE
44	17	234	GLU
44	17	239	LEU
45	18	41	GLN
45	18	50	VAL
45	18	65	LEU
45	18	67	ILE
45	18	71	VAL
45	18	74	THR
45	18	81	THR
45	18	93	LEU
45	18	95	ASN
45	18	109	LEU
45	18	111	LYS
45	18	136	LEU
45	18	145	ASN
45	18	149	LYS
45	18	160	ILE
45	18	163	VAL
45	18	164	VAL
45	18	169	LEU
45	18	172	LYS
45	18	183	LYS
45	18	185	ARG
45	18	191	ASN
45	18	192	GLN
45	18	200	LEU
45	18	211	LEU
45	18	214	LEU
45	18	217	THR
45	18	230	LYS

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Mol	Chain	Res	Type
45	18	241	LYS
45	18	245	LYS
45	18	248	LYS
46	19	5	GLN
46	19	6	THR
46	19	16	VAL
46	19	18	VAL
46	19	31	ARG
46	19	33	THR
46	19	43	VAL
46	19	44	THR
46	19	46	THR
46	19	52	LEU
46	19	55	VAL
46	19	62	ARG
46	19	68	LEU
46	19	69	ARG
46	19	70	THR
46	19	80	THR
46	19	82	VAL
46	19	105	GLU
46	19	124	ARG
46	19	133	THR
46	19	144	ILE
46	19	151	VAL
46	19	157	ASN
46	19	161	LEU
46	19	162	GLN
46	19	166	ARG
46	19	170	LYS
46	19	179	ILE
46	19	188	THR
46	19	191	LEU
47	m0	4	ARG
47	m0	7	ARG
47	m0	24	ARG
47	m0	35	ASP
47	m0	36	LEU
47	m0	38	LYS
47	m0	39	LYS
47	m0	48	LEU
47	m0	52	LEU

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Mol	Chain	Res	Type
47	m0	54	SER
47	m0	57	LEU
47	m0	58	GLU
47	m0	63	GLU
47	m0	74	LYS
47	m0	76	MET
47	m0	78	THR
47	m0	87	LEU
47	m0	91	VAL
47	m0	99	ILE
47	m0	101	LYS
47	m0	129	VAL
47	m0	130	ASP
47	m0	139	ARG
47	m0	140	THR
47	m0	143	SER
47	m0	144	ASN
47	m0	153	ARG
47	m0	156	ARG
47	m0	167	LEU
47	m0	169	LYS
47	m0	185	ARG
47	m0	197	VAL
47	m0	203	LYS
47	m0	205	SER
47	m0	206	LEU
47	m0	209	ASN
47	m0	211	ARG
47	m0	212	GLU
47	m0	217	PHE
48	m1	10	ARG
48	m1	11	ASP
48	m1	12	LEU
48	m1	13	LYS
48	m1	31	THR
48	m1	34	SER
48	m1	44	THR
48	m1	54	VAL
48	m1	55	ARG
48	m1	56	THR
48	m1	80	LEU
48	m1	94	ARG

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Mol	Chain	Res	Type
48	m1	106	ILE
48	m1	107	ASP
48	m1	112	LEU
48	m1	115	LYS
48	m1	129	VAL
48	m1	137	ARG
48	m1	140	ARG
48	m1	142	LYS
48	m1	153	LYS
48	m1	158	ASP
48	m1	159	THR
48	m1	171	VAL
49	m3	54	LEU
49	m3	55	ARG
49	m3	58	VAL
49	m3	59	ARG
49	m3	67	ARG
49	m3	69	VAL
49	m3	73	ARG
49	m3	107	GLU
49	m3	114	GLN
49	m3	121	SER
49	m3	123	ILE
49	m3	124	ILE
49	m3	128	ARG
49	m3	131	LYS
49	m3	149	GLN
49	m3	152	THR
49	m3	164	GLU
49	m3	165	SER
49	m3	168	ARG
49	m3	183	ARG
49	m3	184	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	4	ASP
50	m4	10	SER
50	m4	13	ARG
50	m4	20	VAL
50	m4	27	GLN
50	m4	42	LYS
50	m4	53	VAL

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Mol	Chain	Res	Type
50	m4	62	GLN
50	m4	64	VAL
50	m4	72	LEU
50	m4	80	THR
50	m4	82	SER
50	m4	92	GLU
50	m4	105	GLN
50	m4	106	ARG
50	m4	113	THR
50	m4	126	GLN
50	m4	130	THR
50	m4	135	LEU
51	m5	5	LYS
51	m5	8	GLU
51	m5	10	LEU
51	m5	12	ARG
51	m5	20	ARG
51	m5	22	LEU
51	m5	24	ARG
51	m5	49	ARG
51	m5	66	VAL
51	m5	76	PRO
51	m5	80	THR
51	m5	85	THR
51	m5	91	GLU
51	m5	96	ARG
51	m5	97	SER
51	m5	98	LEU
51	m5	105	ARG
51	m5	138	GLN
51	m5	151	ILE
51	m5	153	ASP
51	m5	155	VAL
51	m5	159	ARG
51	m5	170	LYS
51	m5	171	SER
51	m5	175	ASN
51	m5	183	THR
51	m5	184	LYS
51	m5	190	THR
51	m5	204	LYS
52	m6	22	VAL

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Mol	Chain	Res	Type
52	m6	25	LYS
52	m6	34	VAL
52	m6	41	LEU
52	m6	58	LEU
52	m6	59	ARG
52	m6	60	LYS
52	m6	66	LYS
52	m6	67	THR
52	m6	68	ARG
52	m6	74	ARG
52	m6	78	ARG
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	129	LEU
52	m6	130	LYS
52	m6	144	SER
52	m6	152	VAL
52	m6	160	ARG
52	m6	166	GLU
52	m6	167	TYR
52	m6	171	LYS
52	m6	175	THR
52	m6	182	ASN
52	m6	190	VAL
52	m6	197	LEU
53	m7	9	THR
53	m7	24	VAL
53	m7	29	THR
53	m7	32	THR
53	m7	41	LEU
53	m7	52	LEU
53	m7	55	GLN
53	m7	56	ARG
53	m7	74	LYS
53	m7	79	THR

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Mol	Chain	Res	Type
53	m7	94	LEU
53	m7	103	GLU
53	m7	112	LEU
53	m7	114	VAL
53	m7	119	VAL
53	m7	126	ARG
53	m7	127	ARG
53	m7	128	ARG
53	m7	144	SER
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	64	VAL
54	m8	80	THR
54	m8	81	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	95	GLU
54	m8	100	THR
54	m8	104	LEU
54	m8	111	ARG
54	m8	113	LYS
54	m8	129	VAL
54	m8	135	GLN
54	m8	137	THR
54	m8	144	ARG
54	m8	165	ILE
54	m8	167	SER
54	m8	168	THR
54	m8	170	ARG
54	m8	171	LYS
55	m9	7	GLN
55	m9	10	LEU
55	m9	17	VAL

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Mol	Chain	Res	Type
55	m9	20	ARG
55	m9	29	THR
55	m9	31	GLU
55	m9	36	ASN
55	m9	39	ASN
55	m9	43	LYS
55	m9	49	THR
55	m9	52	LYS
55	m9	56	THR
55	m9	57	VAL
55	m9	61	SER
55	m9	63	THR
55	m9	70	LYS
55	m9	74	ARG
55	m9	76	SER
55	m9	99	LEU
55	m9	105	LEU
55	m9	106	LEU
55	m9	126	GLU
55	m9	138	LEU
55	m9	152	GLU
55	m9	153	LYS
55	m9	158	GLU
55	m9	164	LEU
55	m9	167	ARG
55	m9	170	ARG
55	m9	177	VAL
56	n0	1	MET
56	n0	13	ARG
56	n0	17	GLU
56	n0	21	GLU
56	n0	23	LYS
56	n0	39	SER
56	n0	49	HIS
56	n0	50	LYS
56	n0	52	LYS
56	n0	61	ILE
56	n0	70	THR
56	n0	73	LYS
56	n0	87	THR
56	n0	96	ASP
56	n0	97	VAL

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Mol	Chain	Res	Type
56	n0	100	VAL
56	n0	104	GLU
56	n0	105	THR
56	n0	115	ARG
56	n0	117	ARG
56	n0	120	SER
56	n0	130	GLU
56	n0	132	THR
56	n0	136	LYS
56	n0	148	LEU
56	n0	161	LYS
56	n0	162	THR
56	n0	164	SER
56	n0	166	LYS
56	n0	169	SER
56	n0	172	TYR
57	n1	3	LYS
57	n1	9	SER
57	n1	12	ARG
57	n1	25	VAL
57	n1	26	HIS
57	n1	55	LYS
57	n1	68	THR
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG
57	n1	86	GLU
57	n1	88	ARG
57	n1	89	LEU
57	n1	102	ARG
57	n1	104	GLU
57	n1	122	GLN
57	n1	126	VAL
57	n1	127	GLN
57	n1	130	ARG
57	n1	131	GLN
57	n1	135	PRO
57	n1	139	ARG
57	n1	140	ILE
57	n1	143	THR
57	n1	150	THR
57	n1	154	VAL

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Mol	Chain	Res	Type
57	n1	160	ILE
58	n2	16	THR
58	n2	27	VAL
58	n2	28	PHE
58	n2	37	LEU
58	n2	43	VAL
58	n2	55	THR
58	n2	63	VAL
58	n2	66	VAL
58	n2	88	GLN
58	n2	90	ARG
58	n2	98	THR
58	n2	100	THR
58	n2	105	LEU
59	n3	7	GLN
59	n3	13	ILE
59	n3	48	ARG
59	n3	69	LEU
59	n3	73	VAL
59	n3	88	ARG
59	n3	91	VAL
59	n3	120	LYS
60	n4	1	MET
60	n4	7	SER
60	n4	34	SER
60	n4	39	LEU
60	n4	43	ARG
60	n4	54	LEU
60	n4	63	ILE
60	n4	96	LEU
60	n4	97	LYS
60	n4	99	GLU
60	n4	100	VAL
60	n4	107	GLU
60	n4	119	GLU
60	n4	120	LYS
60	n4	127	LYS
60	n4	135	SER
61	n5	24	LEU
61	n5	27	ARG
61	n5	34	LEU
61	n5	37	THR

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Mol	Chain	Res	Type
61	n5	38	LEU
61	n5	40	LEU
61	n5	45	LYS
61	n5	56	ARG
61	n5	57	LEU
61	n5	63	ILE
61	n5	71	THR
61	n5	74	LYS
61	n5	104	GLU
61	n5	108	LEU
61	n5	109	LYS
61	n5	115	ARG
61	n5	117	ASN
61	n5	125	ARG
61	n5	129	ASP
61	n5	133	LEU
61	n5	135	ILE
61	n5	142	ILE
62	n6	4	GLN
62	n6	10	SER
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	17	LYS
62	n6	37	LYS
62	n6	39	LEU
62	n6	40	ARG
62	n6	43	TYR
62	n6	45	ILE
62	n6	50	ILE
62	n6	55	GLU
62	n6	56	VAL
62	n6	57	LEU
62	n6	62	SER
62	n6	64	LYS
62	n6	66	GLN
62	n6	74	TYR
62	n6	76	LEU
62	n6	80	VAL
62	n6	83	ASP
62	n6	86	THR
62	n6	94	SER

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Mol	Chain	Res	Type
62	n6	95	VAL
62	n6	115	ARG
62	n6	120	GLN
63	n7	3	LYS
63	n7	14	VAL
63	n7	17	ARG
63	n7	21	LYS
63	n7	24	VAL
63	n7	34	LYS
63	n7	46	ILE
63	n7	52	LYS
63	n7	81	LEU
63	n7	83	THR
63	n7	90	GLU
63	n7	94	SER
63	n7	99	GLU
63	n7	103	GLN
63	n7	105	SER
63	n7	111	LYS
63	n7	126	LYS
63	n7	134	LEU
63	n7	135	ARG
64	n8	4	ARG
64	n8	6	THR
64	n8	8	THR
64	n8	10	LYS
64	n8	26	ARG
64	n8	27	LYS
64	n8	34	MET
64	n8	47	LYS
64	n8	60	TYR
64	n8	65	GLN
64	n8	76	ASP
64	n8	80	THR
64	n8	82	ILE
64	n8	85	ASP
64	n8	91	LEU
64	n8	98	THR
64	n8	115	LYS
64	n8	117	ARG
64	n8	128	ARG
64	n8	132	LYS

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Mol	Chain	Res	Type
64	n8	133	LEU
64	n8	139	ARG
65	n9	12	GLN
65	n9	14	ARG
65	n9	22	LYS
65	n9	23	LYS
65	n9	33	LYS
65	n9	35	VAL
65	n9	38	LYS
65	n9	52	LYS
65	n9	58	LYS
65	n9	59	LYS
66	o0	8	GLU
66	o0	9	SER
66	o0	10	ILE
66	o0	12	GLN
66	o0	14	LEU
66	o0	19	LYS
66	o0	33	SER
66	o0	40	LYS
66	o0	41	LEU
66	o0	48	THR
66	o0	61	MET
66	o0	68	TYR
66	o0	81	VAL
66	o0	84	LEU
66	o0	86	ARG
66	o0	87	VAL
67	o1	6	ASP
67	o1	8	VAL
67	o1	13	THR
67	o1	16	LEU
67	o1	26	LYS
67	o1	31	ARG
67	o1	34	LYS
67	o1	44	MET
67	o1	46	THR
67	o1	55	LEU
67	o1	61	LYS
67	o1	76	SER
67	o1	90	PHE
67	o1	91	SER

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Mol	Chain	Res	Type
67	o1	93	VAL
67	o1	100	SER
67	o1	102	LYS
67	o1	104	LEU
67	o1	106	THR
67	o1	107	VAL
67	o1	110	GLU
68	o2	4	LEU
68	o2	16	LYS
68	o2	18	LYS
68	o2	19	ARG
68	o2	24	ARG
68	o2	31	ASN
68	o2	33	ARG
68	o2	41	VAL
68	o2	51	SER
68	o2	54	LYS
68	o2	59	SER
68	o2	73	THR
68	o2	75	LEU
68	o2	82	LEU
68	o2	87	MET
68	o2	106	VAL
68	o2	109	LEU
68	o2	111	ARG
68	o2	113	LYS
68	o2	125	ARG
68	o2	126	LEU
69	o3	10	LYS
69	o3	21	ARG
69	o3	28	SER
69	o3	31	LYS
69	o3	37	THR
69	o3	49	ILE
69	o3	57	LYS
69	o3	59	VAL
69	o3	81	VAL
69	o3	90	PRO
69	o3	92	LYS
69	o3	98	VAL
69	o3	105	SER
69	o3	107	ILE

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Mol	Chain	Res	Type
70	o4	3	GLN
70	o4	9	ARG
70	o4	20	ILE
70	o4	24	LYS
70	o4	29	ILE
70	o4	30	LEU
70	o4	40	THR
70	o4	56	THR
70	o4	58	ARG
70	o4	65	VAL
70	o4	68	THR
70	o4	79	SER
70	o4	108	GLN
71	o5	21	LEU
71	o5	27	GLU
71	o5	28	LEU
71	o5	31	LEU
71	o5	38	ARG
71	o5	43	LYS
71	o5	45	LYS
71	o5	47	VAL
71	o5	57	VAL
71	o5	62	GLN
71	o5	69	LEU
71	o5	79	ASP
71	o5	81	ARG
71	o5	84	LYS
71	o5	85	THR
71	o5	89	ARG
71	o5	98	SER
71	o5	101	THR
71	o5	107	LYS
71	o5	108	GLN
72	o6	3	VAL
72	o6	7	ILE
72	o6	9	ILE
72	o6	18	THR
72	o6	21	THR
72	o6	26	ILE
72	o6	29	LYS
72	o6	35	ASN
72	o6	36	ARG

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Mol	Chain	Res	Type
72	o6	37	THR
72	o6	38	LYS
72	o6	43	LEU
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	59	ASP
72	o6	63	ASN
72	o6	66	GLU
72	o6	68	ARG
72	o6	75	LYS
72	o6	76	ARG
72	o6	79	SER
72	o6	81	THR
72	o6	98	ARG
73	o7	17	THR
73	o7	21	ARG
73	o7	24	ARG
73	o7	25	ARG
73	o7	31	LYS
73	o7	33	THR
73	o7	44	THR
73	o7	55	ARG
73	o7	58	THR
73	o7	59	THR
73	o7	67	LEU
73	o7	68	LYS
73	o7	75	LYS
73	o7	80	THR
73	o7	84	SER
74	o8	5	ILE
74	o8	6	THR
74	o8	8	ILE
74	o8	17	ARG
74	o8	24	THR
74	o8	41	THR
74	o8	46	ARG
74	o8	53	THR
74	o8	64	LYS
74	o8	65	LEU
74	o8	72	THR
75	o9	4	GLN

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Mol	Chain	Res	Type
75	o9	21	ARG
75	o9	47	THR
75	o9	48	LYS
75	o9	51	ILE
76	q0	79	GLU
76	q0	85	LEU
76	q0	93	LYS
76	q0	112	LYS
76	q0	113	ARG
76	q0	114	LYS
76	q0	120	GLN
76	q0	126	LYS
76	q0	127	LEU
77	q1	6	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	21	ARG
77	q1	23	ARG
77	q1	24	SER
78	q2	2	VAL
78	q2	4	VAL
78	q2	6	LYS
78	q2	7	THR
78	q2	8	ARG
78	q2	16	THR
78	q2	32	LYS
78	q2	46	LYS
78	q2	63	LYS
78	q2	73	GLU
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	93	LEU
78	q2	104	LEU
79	q3	3	LYS
79	q3	5	THR
79	q3	10	ILE
79	q3	20	SER
79	q3	22	LEU

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Mol	Chain	Res	Type
79	q3	23	ARG
79	q3	24	ARG
79	q3	44	LYS
79	q3	45	LYS
79	q3	48	LYS
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	78	THR
79	q3	90	VAL
83	p0	4	ILE
83	p0	5	ARG
83	p0	15	LEU
83	p0	25	LEU
83	p0	30	VAL
83	p0	39	HIS
83	p0	43	LYS
83	p0	50	VAL
83	p0	51	VAL
83	p0	57	THR
83	p0	60	ARG
83	p0	68	SER
83	p0	69	ASP
83	p0	70	LEU
83	p0	72	ASP
83	p0	76	LEU
83	p0	81	LYS
83	p0	84	VAL
83	p0	91	GLU
83	p0	93	LEU
83	p0	97	LYS
83	p0	103	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (28) such sidechains are listed below:

Mol	Chain	Res	Type
9	S7	180	GLN
13	C1	110	HIS
23	D1	74	GLN
33	E1	135	HIS
34	SR	159	ASN
39	L2	83	HIS

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Mol	Chain	Res	Type
39	L2	209	HIS
40	L3	256	HIS
42	L5	40	HIS
44	L7	244	ASN
59	N3	98	ASN
66	O0	11	ASN
3	s1	209	ASN
3	s1	211	HIS
6	s4	231	GLN
8	s6	197	ASN
8	s6	201	GLN
11	s9	110	GLN
12	c0	32	HIS
20	c8	55	HIS
22	d0	72	ASN
26	d4	22	GLN
34	sR	184	ASN
46	l9	102	ASN
48	m1	95	ASN
51	m5	194	GLN
72	o6	63	ASN
78	q2	102	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	0/1800	-	-
1	6	0/1800	-	-
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 2559 ligands modelled in this entry, 1424 are monoatomic - leaving 1135 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	$\# Z > 2$
87	OHX	1	3864	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3865	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3866	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3867	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3868	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3869	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3870	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3871	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3872	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3873	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3874	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3875	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3876	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3877	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3878	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3879	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3880	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3881	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3882	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3883	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3884	-	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
87	OHX	1	3885	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3886	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3887	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3888	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3889	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3890	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3891	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3892	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3893	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3894	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3895	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3896	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3897	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3898	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3899	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3900	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3901	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3902	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3903	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3904	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3905	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3906	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3907	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3908	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3909	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3910	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3911	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3912	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3913	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3914	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3915	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3916	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3917	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3918	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3919	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3920	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3921	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3922	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3923	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3924	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3925	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3926	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3927	-	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
87	OHX	1	3928	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3929	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3930	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3931	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3932	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3933	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3934	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3935	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3936	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3937	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3938	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3939	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3940	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3941	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3942	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3943	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3944	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3945	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3946	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3947	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3948	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3949	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3950	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3951	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3952	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3953	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3954	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3955	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3956	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3957	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3958	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3959	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3960	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3961	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3962	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3963	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3964	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3965	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3966	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3967	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3968	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3969	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3970	-	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
87	OHX	1	3971	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3972	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3973	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3974	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3975	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3976	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3977	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3978	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3979	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3980	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3981	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3982	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3983	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3984	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3985	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3986	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3987	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3988	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3989	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3990	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3991	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3992	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3993	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3994	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3995	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3996	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3997	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3998	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	3999	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4000	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4001	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4002	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4003	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4004	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4005	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4006	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4007	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4008	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4009	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4010	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4011	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4012	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4013	-	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
87	OHX	1	4014	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4015	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4016	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4017	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4018	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4019	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4020	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4021	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4022	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4023	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4024	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4025	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4026	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4027	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4028	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4029	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4030	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4031	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4032	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4033	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4034	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4035	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4036	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4037	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4038	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4039	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4040	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4041	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4042	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4043	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4044	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4045	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4046	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4047	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4048	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4049	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4050	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4051	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4052	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4053	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4054	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4055	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4056	-	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
87	OHX	1	4057	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4058	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4059	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4060	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4061	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4062	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4063	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4064	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4065	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4066	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4067	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4068	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4069	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4070	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4071	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4072	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4073	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4074	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4075	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4076	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4077	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4078	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4079	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4080	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4081	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4082	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4083	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4084	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4085	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4086	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4087	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4088	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4089	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4090	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4091	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4092	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4093	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4094	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4095	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4096	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4097	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4098	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4099	-	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
87	OHX	1	4100	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4102	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4103	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4104	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4105	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4106	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4107	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4108	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4109	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4110	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4111	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4112	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4113	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4114	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4115	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4116	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4117	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4118	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4119	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4120	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4121	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4122	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4123	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4124	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4125	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4126	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4127	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4128	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4129	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4130	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4131	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4132	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4133	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4134	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4135	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4136	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4137	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4138	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4139	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4140	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4141	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4142	-	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
87	OHX	1	4143	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4144	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4145	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4146	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4147	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4148	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4149	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4150	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4151	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4152	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4153	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4154	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4155	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4156	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4157	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4158	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4159	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4160	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4161	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4162	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4163	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4164	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4165	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4166	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4167	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4168	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4169	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4170	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4171	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4172	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4173	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4174	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4175	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4176	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4177	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4178	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4179	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4180	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4181	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4182	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4183	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4184	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4185	-	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
87	OHX	1	4186	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4187	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4188	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4189	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4190	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4191	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4192	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4193	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4194	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4195	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4196	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4197	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4198	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4199	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4200	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4203	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4204	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4205	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4206	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4207	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4208	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4209	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4210	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4211	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4212	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4213	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	1	4214	-	0,6,6	0.00	-	0,15,15	0.00	-
89	3HE	1	4215	-	21,21,21	0.50	0	30,30,30	0.68	0
87	OHX	2	2022	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2023	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2025	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2026	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2028	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2029	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2030	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2031	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2032	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2033	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2034	-	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
87	OHX	2	2035	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2036	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2037	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2039	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2040	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2042	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2043	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2047	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2048	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2050	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2051	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2052	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2053	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2054	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2055	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2056	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2057	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2058	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2059	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2060	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2061	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2062	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2063	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2064	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2065	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2066	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2067	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2068	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2069	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2070	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2071	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2072	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2073	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2074	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2075	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2076	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2077	-	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
87	OHX	2	2078	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2079	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2080	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2081	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2082	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2083	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2084	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2085	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2086	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2087	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2088	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2089	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2090	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2091	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2092	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2093	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2094	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2095	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2096	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2097	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2098	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2099	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2100	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2102	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2103	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2104	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2105	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2106	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2107	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2108	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2109	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2110	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2111	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2112	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2113	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2114	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2115	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2116	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2117	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2118	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2119	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2120	-	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
87	OHX	2	2121	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2122	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2123	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2124	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2125	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2126	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2127	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2128	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2129	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2130	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2131	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2132	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2133	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2134	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2135	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2136	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2137	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2138	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2139	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2140	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2141	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2142	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2143	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2144	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2145	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2146	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2147	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2148	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2149	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2150	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2151	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2152	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2153	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2154	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2155	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2156	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2157	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2158	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2159	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2160	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2161	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2162	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2163	-	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
87	OHX	2	2164	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2165	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2166	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2167	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2168	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2169	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2170	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2171	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2172	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2173	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2174	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2175	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2176	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2177	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2178	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	2	2179	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	215	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	216	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	217	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	218	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	219	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	220	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	221	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	222	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	223	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	224	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	3	225	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	223	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	224	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	225	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	226	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	227	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	228	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	229	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	230	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	231	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	232	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	233	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	234	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	235	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	4	236	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3900	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3901	-	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
87	OHX	5	3902	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3903	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3904	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3905	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3906	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3907	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3908	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3909	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3910	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3911	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3912	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3913	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3914	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3915	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3916	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3917	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3918	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3919	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3920	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3921	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3922	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3923	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3924	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3925	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3926	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3927	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3928	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3929	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3930	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3931	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3932	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3933	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3934	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3935	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3936	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3937	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3938	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3939	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3940	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3941	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3942	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3943	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3944	-	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
87	OHX	5	3945	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3946	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3947	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3948	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3949	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3950	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3951	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3952	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3953	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3954	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3955	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3956	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3957	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3958	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3959	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3960	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3961	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3962	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3963	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3964	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3965	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3966	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3967	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3968	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3969	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3970	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3971	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3972	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3973	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3974	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3975	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3976	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3977	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3978	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3979	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3980	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3981	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3982	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3983	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3984	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3985	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3986	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3987	-	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
87	OHX	5	3988	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3989	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3990	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3991	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3992	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3993	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3994	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3995	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3996	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3997	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3998	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	3999	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4000	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4001	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4002	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4003	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4004	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4005	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4006	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4007	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4008	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4009	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4010	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4011	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4012	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4013	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4014	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4015	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4016	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4017	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4018	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4019	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4020	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4021	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4022	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4023	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4024	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4025	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4026	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4027	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4028	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4029	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4030	-	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
87	OHX	5	4031	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4032	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4033	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4034	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4035	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4036	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4037	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4038	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4039	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4040	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4041	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4042	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4043	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4044	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4045	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4046	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4047	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4048	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4049	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4050	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4051	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4052	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4053	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4054	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4055	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4056	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4057	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4058	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4059	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4060	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4061	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4062	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4063	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4064	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4065	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4066	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4067	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4068	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4069	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4070	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4071	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4072	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4073	-	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
87	OHX	5	4074	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4075	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4076	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4077	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4078	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4079	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4080	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4081	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4082	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4083	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4084	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4085	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4086	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4087	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4088	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4089	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4090	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4091	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4092	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4093	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4094	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4095	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4096	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4097	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4098	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4099	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4100	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4102	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4103	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4104	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4105	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4106	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4107	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4108	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4109	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4110	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4111	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4112	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4113	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4114	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4115	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4116	-	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
87	OHX	5	4117	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4118	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4119	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4120	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4121	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4122	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4123	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4124	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4125	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4126	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4127	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4128	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4129	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4130	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4131	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4132	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4133	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4134	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4135	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4136	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4137	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4138	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4139	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4140	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4141	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4142	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4143	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4144	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4145	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4146	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4147	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4148	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4149	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4150	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4151	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4152	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4153	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4154	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4155	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4156	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4157	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4158	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4159	-	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
87	OHX	5	4160	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4161	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4162	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4163	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4164	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4165	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4166	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4167	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4168	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4169	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4170	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4171	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4172	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4173	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4174	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4175	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4176	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4177	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4178	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4179	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4180	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4181	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4182	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4183	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4184	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4185	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4186	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4187	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4188	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4189	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4190	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4191	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4192	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4193	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4194	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4195	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4196	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4197	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4198	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4199	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4200	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4202	-	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
87	OHX	5	4203	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4204	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4205	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4206	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4207	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4208	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4209	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4210	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4211	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4212	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4213	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4214	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4215	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4216	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4217	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4218	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4219	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4220	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4221	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4222	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4223	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4224	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4225	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4226	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4227	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4228	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4229	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4230	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4231	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4232	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4233	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4234	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4235	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4236	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4237	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4238	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4239	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4240	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4241	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4242	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4243	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4244	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4245	-	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
87	OHX	5	4246	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4247	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4248	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4249	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4250	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	5	4251	-	0,6,6	0.00	-	0,15,15	0.00	-
89	3HE	5	4252	-	21,21,21	0.81	1 (4%)	30,30,30	1.09	2 (6%)
87	OHX	6	2047	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2048	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2050	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2051	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2052	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2053	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2054	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2055	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2056	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2057	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2058	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2059	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2060	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2061	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2062	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2063	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2064	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2065	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2066	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2067	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2068	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2069	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2070	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2071	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2072	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2073	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2074	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2075	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2076	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2077	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2078	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2079	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2080	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2081	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2082	-	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
87	OHX	6	2083	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2084	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2085	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2086	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2087	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2088	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2089	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2090	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2091	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2092	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2093	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2094	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2095	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2096	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2097	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2098	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2099	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2100	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2102	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2103	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2104	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2105	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2106	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2107	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2108	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2109	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2110	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2111	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2112	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2113	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2114	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2115	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2116	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2117	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2118	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2119	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2120	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2121	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2122	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2123	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2124	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2125	-	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
87	OHX	6	2126	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2127	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2128	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2129	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2130	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2131	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2132	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2133	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2134	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2135	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2136	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2137	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2138	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2139	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2140	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2141	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2142	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2143	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2144	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2145	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2146	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2147	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2148	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2149	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2150	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2151	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2152	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2153	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2154	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2155	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2156	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2157	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2158	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2159	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2160	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2161	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2162	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2163	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2164	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2165	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2166	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2167	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2168	-	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
87	OHX	6	2169	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2170	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2171	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2172	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2173	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2174	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2175	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2176	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2177	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2178	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2179	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2180	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2181	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2182	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2183	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2184	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2185	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2186	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2187	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2188	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2189	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2190	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2191	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2192	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2193	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2194	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2195	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2196	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2197	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2198	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2199	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2200	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2203	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2204	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	6	2205	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	215	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	216	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	217	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	218	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	219	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	220	-	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
87	OHX	7	221	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	222	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	223	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	224	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	225	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	226	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	7	227	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	214	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	215	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	216	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	217	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	218	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	219	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	220	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	221	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	222	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	223	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	224	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	225	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	226	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	227	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	228	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	8	229	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	C3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	C5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	C8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	D3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	D9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	L3	404	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	L3	405	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	L3	406	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	L4	402	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	M0	303	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	M5	303	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	M7	207	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	M7	208	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	M9	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	N1	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	N9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	O2	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	O3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	O7	103	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	O7	104	-	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
87	OHX	O9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	Q2	503	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	S8	302	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	SR	401	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	c1	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	c3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	c5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	c8	203	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	d4	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	d9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l3	402	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l3	403	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l3	404	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l4	403	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l4	404	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l5	303	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l5	304	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l5	305	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	l9	600	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m0	302	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m1	203	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m5	303	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m6	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m7	205	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	m8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	n3	203	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	n9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	o2	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	o3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	o7	103	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	o9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	q2	502	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	s1	302	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	s4	301	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	s8	302	-	0,6,6	0.00	-	0,15,15	0.00	-
87	OHX	s9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
87	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. '-' means

no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	3864	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3865	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3866	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3867	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3868	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3869	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3870	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3871	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3872	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3873	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3874	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3875	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3876	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3877	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3878	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3879	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3880	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3881	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3882	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3883	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3884	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3885	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3886	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3887	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3888	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3889	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3890	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3891	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3892	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3893	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3894	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3895	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3896	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3897	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3898	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3899	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3900	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3901	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3902	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3903	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3904	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3905	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	3906	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3907	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3908	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3909	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3910	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3911	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3912	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3913	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3914	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3915	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3916	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3917	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3918	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3919	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3920	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3921	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3922	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3923	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3924	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3925	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3926	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3927	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3928	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3929	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3930	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3931	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3932	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3933	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3934	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3935	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3936	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3937	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3938	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3939	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3940	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3941	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3942	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3943	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3944	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3945	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3946	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3947	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	3948	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3949	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3950	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3951	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3952	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3953	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3954	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3955	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3956	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3957	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3958	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3959	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3960	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3961	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3962	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3963	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3964	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3965	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3966	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3967	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3968	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3969	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3970	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3971	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3972	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3973	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3974	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3975	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3976	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3977	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3978	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3979	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3980	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3981	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3982	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3983	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3984	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3985	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3986	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3987	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3988	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3989	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	3990	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3991	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3992	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3993	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3994	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3995	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3996	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3997	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3998	-	-	0/0/0/0	0/0/0/0
87	OHX	1	3999	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4000	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4001	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4002	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4003	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4004	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4005	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4006	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4007	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4008	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4009	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4010	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4011	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4012	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4013	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4014	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4015	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4016	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4017	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4018	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4019	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4020	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4021	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4022	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4023	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4024	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4025	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4026	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4027	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4028	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4029	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4030	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4031	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	4032	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4033	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4034	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4035	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4036	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4037	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4038	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4039	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4040	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4041	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4042	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4043	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4044	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4045	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4046	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4047	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4048	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4049	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4050	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4051	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4052	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4053	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4054	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4055	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4056	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4057	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4058	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4059	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4060	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4061	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4062	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4063	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4064	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4065	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4066	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4067	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4068	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4069	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4070	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4071	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4072	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4073	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	4074	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4075	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4076	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4077	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4078	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4079	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4080	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4081	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4082	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4083	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4084	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4085	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4086	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4087	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4088	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4089	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4090	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4091	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4092	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4093	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4094	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4095	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4096	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4097	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4098	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4099	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4100	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4101	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4102	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4103	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4104	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4105	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4106	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4107	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4108	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4109	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4110	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4111	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4112	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4113	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4114	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4115	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	4116	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4117	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4118	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4119	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4120	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4121	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4122	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4123	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4124	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4125	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4126	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4127	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4128	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4129	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4130	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4131	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4132	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4133	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4134	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4135	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4136	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4137	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4138	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4139	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4140	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4141	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4142	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4143	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4144	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4145	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4146	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4147	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4148	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4149	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4150	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4151	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4152	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4153	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4154	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4155	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4156	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4157	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	4158	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4159	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4160	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4161	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4162	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4163	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4164	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4165	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4166	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4167	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4168	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4169	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4170	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4171	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4172	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4173	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4174	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4175	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4176	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4177	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4178	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4179	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4180	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4181	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4182	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4183	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4184	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4185	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4186	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4187	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4188	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4189	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4190	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4191	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4192	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4193	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4194	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4195	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4196	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4197	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4198	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4199	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	1	4200	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4201	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4202	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4203	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4204	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4205	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4206	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4207	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4208	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4209	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4210	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4211	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4212	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4213	-	-	0/0/0/0	0/0/0/0
87	OHX	1	4214	-	-	0/0/0/0	0/0/0/0
89	3HE	1	4215	-	-	0/8/36/36	0/2/2/2
87	OHX	2	2022	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2023	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2024	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2025	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2026	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2027	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2028	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2029	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2030	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2031	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2032	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2033	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2034	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2035	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2036	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2037	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2038	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2039	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2040	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2041	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2042	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2043	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2044	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2045	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2046	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2047	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	2	2048	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2049	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2050	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2051	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2052	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2053	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2054	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2055	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2056	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2057	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2058	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2059	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2060	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2061	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2062	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2063	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2064	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2065	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2066	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2067	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2068	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2069	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2070	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2071	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2072	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2073	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2074	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2075	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2076	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2077	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2078	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2079	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2080	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2081	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2082	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2083	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2084	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2085	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2086	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2087	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2088	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2089	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	2	2090	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2091	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2092	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2093	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2094	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2095	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2096	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2097	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2098	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2099	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2100	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2101	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2102	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2103	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2104	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2105	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2106	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2107	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2108	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2109	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2110	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2111	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2112	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2113	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2114	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2115	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2116	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2117	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2118	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2119	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2120	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2121	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2122	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2123	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2124	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2125	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2126	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2127	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2128	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2129	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2130	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2131	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	2	2132	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2133	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2134	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2135	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2136	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2137	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2138	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2139	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2140	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2141	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2142	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2143	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2144	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2145	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2146	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2147	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2148	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2149	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2150	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2151	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2152	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2153	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2154	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2155	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2156	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2157	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2158	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2159	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2160	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2161	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2162	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2163	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2164	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2165	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2166	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2167	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2168	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2169	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2170	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2171	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2172	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2173	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	2	2174	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2175	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2176	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2177	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2178	-	-	0/0/0/0	0/0/0/0
87	OHX	2	2179	-	-	0/0/0/0	0/0/0/0
87	OHX	3	215	-	-	0/0/0/0	0/0/0/0
87	OHX	3	216	-	-	0/0/0/0	0/0/0/0
87	OHX	3	217	-	-	0/0/0/0	0/0/0/0
87	OHX	3	218	-	-	0/0/0/0	0/0/0/0
87	OHX	3	219	-	-	0/0/0/0	0/0/0/0
87	OHX	3	220	-	-	0/0/0/0	0/0/0/0
87	OHX	3	221	-	-	0/0/0/0	0/0/0/0
87	OHX	3	222	-	-	0/0/0/0	0/0/0/0
87	OHX	3	223	-	-	0/0/0/0	0/0/0/0
87	OHX	3	224	-	-	0/0/0/0	0/0/0/0
87	OHX	3	225	-	-	0/0/0/0	0/0/0/0
87	OHX	4	223	-	-	0/0/0/0	0/0/0/0
87	OHX	4	224	-	-	0/0/0/0	0/0/0/0
87	OHX	4	225	-	-	0/0/0/0	0/0/0/0
87	OHX	4	226	-	-	0/0/0/0	0/0/0/0
87	OHX	4	227	-	-	0/0/0/0	0/0/0/0
87	OHX	4	228	-	-	0/0/0/0	0/0/0/0
87	OHX	4	229	-	-	0/0/0/0	0/0/0/0
87	OHX	4	230	-	-	0/0/0/0	0/0/0/0
87	OHX	4	231	-	-	0/0/0/0	0/0/0/0
87	OHX	4	232	-	-	0/0/0/0	0/0/0/0
87	OHX	4	233	-	-	0/0/0/0	0/0/0/0
87	OHX	4	234	-	-	0/0/0/0	0/0/0/0
87	OHX	4	235	-	-	0/0/0/0	0/0/0/0
87	OHX	4	236	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3900	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3901	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3902	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3903	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3904	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3905	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3906	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3907	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3908	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3909	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3910	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	3911	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3912	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3913	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3914	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3915	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3916	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3917	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3918	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3919	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3920	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3921	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3922	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3923	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3924	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3925	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3926	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3927	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3928	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3929	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3930	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3931	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3932	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3933	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3934	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3935	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3936	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3937	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3938	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3939	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3940	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3941	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3942	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3943	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3944	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3945	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3946	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3947	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3948	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3949	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3950	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3951	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3952	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	3953	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3954	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3955	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3956	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3957	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3958	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3959	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3960	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3961	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3962	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3963	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3964	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3965	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3966	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3967	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3968	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3969	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3970	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3971	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3972	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3973	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3974	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3975	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3976	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3977	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3978	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3979	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3980	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3981	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3982	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3983	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3984	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3985	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3986	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3987	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3988	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3989	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3990	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3991	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3992	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3993	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3994	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	3995	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3996	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3997	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3998	-	-	0/0/0/0	0/0/0/0
87	OHX	5	3999	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4000	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4001	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4002	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4003	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4004	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4005	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4006	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4007	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4008	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4009	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4010	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4011	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4012	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4013	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4014	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4015	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4016	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4017	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4018	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4019	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4020	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4021	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4022	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4023	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4024	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4025	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4026	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4027	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4028	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4029	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4030	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4031	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4032	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4033	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4034	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4035	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4036	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	4037	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4038	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4039	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4040	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4041	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4042	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4043	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4044	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4045	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4046	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4047	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4048	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4049	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4050	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4051	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4052	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4053	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4054	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4055	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4056	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4057	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4058	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4059	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4060	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4061	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4062	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4063	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4064	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4065	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4066	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4067	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4068	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4069	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4070	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4071	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4072	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4073	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4074	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4075	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4076	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4077	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4078	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	4079	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4080	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4081	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4082	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4083	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4084	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4085	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4086	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4087	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4088	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4089	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4090	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4091	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4092	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4093	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4094	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4095	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4096	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4097	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4098	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4099	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4100	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4101	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4102	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4103	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4104	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4105	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4106	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4107	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4108	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4109	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4110	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4111	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4112	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4113	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4114	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4115	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4116	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4117	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4118	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4119	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4120	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	4121	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4122	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4123	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4124	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4125	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4126	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4127	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4128	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4129	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4130	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4131	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4132	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4133	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4134	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4135	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4136	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4137	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4138	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4139	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4140	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4141	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4142	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4143	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4144	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4145	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4146	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4147	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4148	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4149	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4150	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4151	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4152	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4153	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4154	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4155	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4156	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4157	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4158	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4159	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4160	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4161	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4162	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	4163	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4164	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4165	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4166	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4167	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4168	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4169	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4170	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4171	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4172	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4173	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4174	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4175	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4176	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4177	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4178	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4179	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4180	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4181	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4182	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4183	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4184	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4185	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4186	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4187	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4188	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4189	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4190	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4191	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4192	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4193	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4194	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4195	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4196	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4197	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4198	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4199	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4200	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4201	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4202	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4203	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4204	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	4205	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4206	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4207	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4208	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4209	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4210	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4211	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4212	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4213	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4214	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4215	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4216	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4217	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4218	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4219	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4220	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4221	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4222	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4223	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4224	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4225	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4226	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4227	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4228	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4229	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4230	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4231	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4232	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4233	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4234	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4235	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4236	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4237	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4238	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4239	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4240	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4241	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4242	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4243	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4244	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4245	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4246	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	5	4247	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4248	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4249	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4250	-	-	0/0/0/0	0/0/0/0
87	OHX	5	4251	-	-	0/0/0/0	0/0/0/0
89	3HE	5	4252	-	-	0/8/36/36	0/2/2/2
87	OHX	6	2047	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2048	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2049	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2050	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2051	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2052	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2053	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2054	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2055	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2056	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2057	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2058	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2059	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2060	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2061	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2062	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2063	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2064	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2065	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2066	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2067	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2068	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2069	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2070	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2071	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2072	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2073	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2074	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2075	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2076	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2077	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2078	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2079	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2080	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2081	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2082	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	6	2083	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2084	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2085	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2086	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2087	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2088	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2089	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2090	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2091	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2092	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2093	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2094	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2095	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2096	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2097	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2098	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2099	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2100	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2101	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2102	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2103	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2104	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2105	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2106	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2107	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2108	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2109	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2110	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2111	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2112	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2113	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2114	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2115	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2116	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2117	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2118	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2119	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2120	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2121	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2122	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2123	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2124	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	6	2125	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2126	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2127	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2128	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2129	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2130	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2131	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2132	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2133	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2134	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2135	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2136	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2137	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2138	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2139	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2140	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2141	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2142	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2143	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2144	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2145	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2146	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2147	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2148	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2149	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2150	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2151	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2152	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2153	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2154	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2155	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2156	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2157	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2158	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2159	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2160	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2161	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2162	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2163	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2164	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2165	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2166	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	6	2167	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2168	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2169	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2170	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2171	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2172	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2173	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2174	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2175	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2176	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2177	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2178	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2179	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2180	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2181	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2182	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2183	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2184	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2185	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2186	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2187	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2188	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2189	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2190	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2191	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2192	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2193	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2194	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2195	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2196	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2197	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2198	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2199	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2200	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2201	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2202	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2203	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2204	-	-	0/0/0/0	0/0/0/0
87	OHX	6	2205	-	-	0/0/0/0	0/0/0/0
87	OHX	7	215	-	-	0/0/0/0	0/0/0/0
87	OHX	7	216	-	-	0/0/0/0	0/0/0/0
87	OHX	7	217	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	7	218	-	-	0/0/0/0	0/0/0/0
87	OHX	7	219	-	-	0/0/0/0	0/0/0/0
87	OHX	7	220	-	-	0/0/0/0	0/0/0/0
87	OHX	7	221	-	-	0/0/0/0	0/0/0/0
87	OHX	7	222	-	-	0/0/0/0	0/0/0/0
87	OHX	7	223	-	-	0/0/0/0	0/0/0/0
87	OHX	7	224	-	-	0/0/0/0	0/0/0/0
87	OHX	7	225	-	-	0/0/0/0	0/0/0/0
87	OHX	7	226	-	-	0/0/0/0	0/0/0/0
87	OHX	7	227	-	-	0/0/0/0	0/0/0/0
87	OHX	8	214	-	-	0/0/0/0	0/0/0/0
87	OHX	8	215	-	-	0/0/0/0	0/0/0/0
87	OHX	8	216	-	-	0/0/0/0	0/0/0/0
87	OHX	8	217	-	-	0/0/0/0	0/0/0/0
87	OHX	8	218	-	-	0/0/0/0	0/0/0/0
87	OHX	8	219	-	-	0/0/0/0	0/0/0/0
87	OHX	8	220	-	-	0/0/0/0	0/0/0/0
87	OHX	8	221	-	-	0/0/0/0	0/0/0/0
87	OHX	8	222	-	-	0/0/0/0	0/0/0/0
87	OHX	8	223	-	-	0/0/0/0	0/0/0/0
87	OHX	8	224	-	-	0/0/0/0	0/0/0/0
87	OHX	8	225	-	-	0/0/0/0	0/0/0/0
87	OHX	8	226	-	-	0/0/0/0	0/0/0/0
87	OHX	8	227	-	-	0/0/0/0	0/0/0/0
87	OHX	8	228	-	-	0/0/0/0	0/0/0/0
87	OHX	8	229	-	-	0/0/0/0	0/0/0/0
87	OHX	C3	202	-	-	0/0/0/0	0/0/0/0
87	OHX	C5	201	-	-	0/0/0/0	0/0/0/0
87	OHX	C8	201	-	-	0/0/0/0	0/0/0/0
87	OHX	D3	202	-	-	0/0/0/0	0/0/0/0
87	OHX	D9	102	-	-	0/0/0/0	0/0/0/0
87	OHX	L3	404	-	-	0/0/0/0	0/0/0/0
87	OHX	L3	405	-	-	0/0/0/0	0/0/0/0
87	OHX	L3	406	-	-	0/0/0/0	0/0/0/0
87	OHX	L4	402	-	-	0/0/0/0	0/0/0/0
87	OHX	M0	303	-	-	0/0/0/0	0/0/0/0
87	OHX	M5	303	-	-	0/0/0/0	0/0/0/0
87	OHX	M7	207	-	-	0/0/0/0	0/0/0/0
87	OHX	M7	208	-	-	0/0/0/0	0/0/0/0
87	OHX	M9	202	-	-	0/0/0/0	0/0/0/0
87	OHX	N1	201	-	-	0/0/0/0	0/0/0/0
87	OHX	N9	101	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	O2	201	-	-	0/0/0/0	0/0/0/0
87	OHX	O3	202	-	-	0/0/0/0	0/0/0/0
87	OHX	O7	103	-	-	0/0/0/0	0/0/0/0
87	OHX	O7	104	-	-	0/0/0/0	0/0/0/0
87	OHX	O9	101	-	-	0/0/0/0	0/0/0/0
87	OHX	Q2	503	-	-	0/0/0/0	0/0/0/0
87	OHX	S8	302	-	-	0/0/0/0	0/0/0/0
87	OHX	SR	401	-	-	0/0/0/0	0/0/0/0
87	OHX	c1	202	-	-	0/0/0/0	0/0/0/0
87	OHX	c3	201	-	-	0/0/0/0	0/0/0/0
87	OHX	c5	201	-	-	0/0/0/0	0/0/0/0
87	OHX	c8	203	-	-	0/0/0/0	0/0/0/0
87	OHX	d4	202	-	-	0/0/0/0	0/0/0/0
87	OHX	d9	102	-	-	0/0/0/0	0/0/0/0
87	OHX	l3	402	-	-	0/0/0/0	0/0/0/0
87	OHX	l3	403	-	-	0/0/0/0	0/0/0/0
87	OHX	l3	404	-	-	0/0/0/0	0/0/0/0
87	OHX	l4	403	-	-	0/0/0/0	0/0/0/0
87	OHX	l4	404	-	-	0/0/0/0	0/0/0/0
87	OHX	l5	303	-	-	0/0/0/0	0/0/0/0
87	OHX	l5	304	-	-	0/0/0/0	0/0/0/0
87	OHX	l5	305	-	-	0/0/0/0	0/0/0/0
87	OHX	l9	600	-	-	0/0/0/0	0/0/0/0
87	OHX	m0	301	-	-	0/0/0/0	0/0/0/0
87	OHX	m0	302	-	-	0/0/0/0	0/0/0/0
87	OHX	m1	203	-	-	0/0/0/0	0/0/0/0
87	OHX	m4	201	-	-	0/0/0/0	0/0/0/0
87	OHX	m5	303	-	-	0/0/0/0	0/0/0/0
87	OHX	m6	202	-	-	0/0/0/0	0/0/0/0
87	OHX	m7	205	-	-	0/0/0/0	0/0/0/0
87	OHX	m8	201	-	-	0/0/0/0	0/0/0/0
87	OHX	n3	203	-	-	0/0/0/0	0/0/0/0
87	OHX	n9	101	-	-	0/0/0/0	0/0/0/0
87	OHX	o2	201	-	-	0/0/0/0	0/0/0/0
87	OHX	o3	202	-	-	0/0/0/0	0/0/0/0
87	OHX	o7	103	-	-	0/0/0/0	0/0/0/0
87	OHX	o9	101	-	-	0/0/0/0	0/0/0/0
87	OHX	q2	502	-	-	0/0/0/0	0/0/0/0
87	OHX	s1	302	-	-	0/0/0/0	0/0/0/0
87	OHX	s4	301	-	-	0/0/0/0	0/0/0/0
87	OHX	s8	302	-	-	0/0/0/0	0/0/0/0
87	OHX	s9	201	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
87	OHX	sR	401	-	-	0/0/0/0	0/0/0/0

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
89	5	4252	3HE	C5-C7	3.07	1.58	1.53

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
89	5	4252	3HE	C7-C5-C4	3.85	119.68	111.65
89	5	4252	3HE	C6-C5-C7	-2.30	105.01	110.95

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

The following chains have linkage breaks:

Mol	Chain	Number of breaks
34	SR	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	SR	161:LYS	C	162:ALA	N	0.76
1	SR	160:GLU	C	161:LYS	N	0.64

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%)	0.32	70 (4%) 36 43	44, 77, 148, 252	0
1	6	1795/1800 (99%)	0.40	77 (4%) 34 40	32, 62, 155, 269	0
2	S0	206/251 (82%)	1.39	63 (30%) 1 1	80, 96, 108, 136	0
2	s0	206/251 (82%)	0.99	38 (18%) 2 3	59, 77, 93, 103	0
3	S1	214/254 (84%)	2.23	98 (45%) 1 0	84, 119, 149, 159	0
3	s1	216/254 (85%)	1.29	46 (21%) 1 2	57, 71, 93, 103	0
4	S2	217/253 (85%)	1.00	45 (20%) 1 2	59, 74, 90, 106	0
4	s2	217/253 (85%)	0.78	21 (9%) 8 10	46, 61, 77, 88	0
5	S3	223/239 (93%)	1.56	71 (31%) 1 1	66, 79, 102, 119	0
5	s3	223/239 (93%)	0.80	34 (15%) 3 4	58, 83, 105, 114	0
6	S4	260/260 (100%)	1.41	80 (30%) 1 1	54, 76, 90, 118	0
6	s4	260/260 (100%)	0.87	30 (11%) 5 7	40, 62, 76, 107	0
7	S5	206/224 (91%)	1.76	71 (34%) 1 1	80, 100, 117, 133	0
7	s5	206/224 (91%)	1.23	46 (22%) 1 2	58, 78, 106, 120	0
8	S6	226/236 (95%)	0.76	38 (16%) 2 3	55, 91, 109, 139	0
8	s6	218/236 (92%)	0.71	22 (10%) 7 10	42, 71, 93, 116	0
9	S7	184/189 (97%)	1.17	44 (23%) 1 2	72, 104, 135, 144	0
9	s7	186/189 (98%)	0.87	27 (14%) 3 5	55, 87, 121, 134	0
10	S8	188/200 (94%)	0.76	27 (14%) 3 5	46, 61, 99, 114	0
10	s8	188/200 (94%)	0.95	31 (16%) 2 3	37, 58, 100, 113	0
11	S9	185/196 (94%)	1.64	59 (31%) 1 1	71, 86, 123, 155	0
11	s9	185/196 (94%)	0.86	23 (12%) 5 6	53, 67, 103, 136	0
12	C0	96/105 (91%)	1.42	28 (29%) 1 1	70, 92, 122, 137	0
12	c0	96/105 (91%)	1.38	24 (25%) 1 2	75, 105, 133, 154	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
13	C1	155/155 (100%)	2.22	56 (36%)	1	1	47, 59, 115, 127	0
13	c1	146/155 (94%)	1.77	41 (28%)	1	1	38, 53, 82, 101	0
14	C2	124/142 (87%)	3.00	74 (59%)	0	0	114, 127, 149, 164	0
14	c2	124/142 (87%)	3.92	86 (69%)	0	0	145, 165, 186, 197	0
15	C3	150/150 (100%)	1.05	27 (18%)	2	3	57, 75, 89, 95	0
15	c3	150/150 (100%)	0.70	17 (11%)	6	7	45, 60, 75, 93	0
16	C4	127/136 (93%)	1.71	47 (37%)	1	0	58, 120, 136, 138	0
16	c4	128/136 (94%)	1.33	33 (25%)	1	1	42, 74, 84, 91	0
17	C5	124/141 (87%)	1.86	50 (40%)	1	0	64, 80, 120, 139	0
17	c5	135/141 (95%)	1.52	35 (25%)	1	1	60, 79, 110, 132	0
18	C6	141/142 (99%)	0.89	26 (18%)	2	3	68, 90, 96, 99	0
18	c6	142/142 (100%)	0.82	21 (14%)	3	4	54, 72, 86, 107	0
19	C7	120/136 (88%)	0.44	17 (14%)	3	5	73, 92, 119, 122	0
19	c7	117/136 (86%)	0.33	9 (7%)	13	16	62, 77, 105, 109	0
20	C8	145/145 (100%)	2.16	62 (42%)	1	0	64, 87, 113, 122	0
20	c8	145/145 (100%)	1.09	31 (21%)	1	2	57, 67, 93, 106	0
21	C9	143/143 (100%)	1.08	32 (22%)	1	2	72, 88, 105, 116	0
21	c9	143/143 (100%)	1.48	45 (31%)	1	1	54, 65, 84, 104	0
22	D0	107/120 (89%)	1.79	40 (37%)	1	0	64, 93, 128, 134	0
22	d0	110/120 (91%)	2.43	39 (35%)	1	1	53, 86, 129, 150	0
23	D1	87/87 (100%)	1.44	23 (26%)	1	1	77, 83, 105, 115	0
23	d1	87/87 (100%)	1.21	17 (19%)	2	2	57, 64, 86, 98	0
24	D2	129/129 (100%)	2.01	62 (48%)	1	0	58, 68, 75, 85	0
24	d2	129/129 (100%)	0.68	11 (8%)	11	13	41, 51, 57, 66	0
25	D3	144/144 (100%)	0.94	25 (17%)	2	3	49, 56, 67, 82	0
25	d3	144/144 (100%)	0.39	7 (4%)	28	34	36, 42, 57, 69	0
26	D4	134/134 (100%)	0.91	23 (17%)	2	3	67, 91, 109, 114	0
26	d4	134/134 (100%)	0.63	13 (9%)	8	10	50, 72, 86, 107	0
27	D5	70/107 (65%)	2.00	33 (47%)	1	0	95, 111, 123, 128	0
27	d5	69/107 (64%)	1.67	28 (40%)	1	0	68, 90, 104, 109	0
28	D6	97/97 (100%)	3.29	65 (67%)	0	0	65, 81, 138, 142	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å²)		Q<0.9	
28	d6	97/97 (100%)	1.26	21 (21%)	1	2	46, 59, 89, 98	0
29	D7	81/81 (100%)	2.14	31 (38%)	1	0	71, 89, 128, 138	0
29	d7	81/81 (100%)	1.32	18 (22%)	1	2	55, 71, 117, 119	0
30	D8	63/66 (95%)	3.43	39 (61%)	0	0	94, 112, 127, 147	0
30	d8	63/66 (95%)	1.92	26 (41%)	1	0	76, 92, 108, 120	0
31	D9	53/55 (96%)	0.99	10 (18%)	2	2	63, 67, 91, 102	0
31	d9	53/55 (96%)	1.16	13 (24%)	1	2	57, 62, 101, 118	0
32	E0	60/60 (100%)	1.87	17 (28%)	1	1	56, 86, 127, 132	0
33	E1	71/76 (93%)	2.52	37 (52%)	0	0	91, 110, 126, 129	0
34	SR	318/318 (100%)	0.67	46 (14%)	3	5	60, 95, 117, 143	0
34	sR	318/318 (100%)	1.68	111 (34%)	1	1	75, 95, 114, 135	0
35	SM	159/273 (58%)	1.93	49 (30%)	1	1	55, 80, 128, 136	0
35	sM	104/273 (38%)	0.78	19 (18%)	2	3	45, 81, 162, 167	0
36	1	3149/3396 (92%)	0.32	75 (2%)	56	65	20, 43, 119, 234	0
36	5	3150/3396 (92%)	0.29	63 (2%)	62	71	20, 42, 111, 229	0
37	3	121/121 (100%)	0.12	1 (0%)	83	89	33, 59, 76, 81	0
37	7	121/121 (100%)	0.24	1 (0%)	83	89	27, 43, 56, 64	0
38	4	158/158 (100%)	0.36	3 (1%)	64	72	26, 45, 83, 114	0
38	8	158/158 (100%)	0.32	4 (2%)	54	64	33, 53, 91, 112	0
39	L2	252/253 (99%)	0.55	17 (6%)	17	21	25, 40, 58, 66	0
39	l2	252/253 (99%)	0.45	16 (6%)	19	23	26, 44, 61, 74	0
40	L3	386/386 (100%)	0.30	18 (4%)	30	37	27, 47, 60, 97	0
40	l3	386/386 (100%)	0.15	6 (1%)	68	78	20, 34, 47, 83	0
41	L4	361/361 (100%)	-0.08	1 (0%)	91	95	21, 37, 54, 65	0
41	l4	361/361 (100%)	0.07	6 (1%)	67	76	26, 44, 62, 70	0
42	L5	296/296 (100%)	0.58	34 (11%)	5	7	41, 65, 83, 105	0
42	l5	294/296 (99%)	0.33	13 (4%)	33	40	34, 48, 71, 110	0
43	L6	156/175 (89%)	0.30	4 (2%)	53	63	33, 40, 60, 80	0
43	l6	157/175 (89%)	0.12	0	100	100	35, 43, 63, 75	0
44	L7	222/243 (91%)	0.18	1 (0%)	88	93	26, 33, 62, 110	0
44	l7	223/243 (91%)	0.07	1 (0%)	90	94	24, 33, 69, 112	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	L8	233/255 (91%)	0.91	44 (18%) 2 2	48, 62, 96, 114	0
45	l8	231/255 (90%)	1.03	40 (17%) 2 3	58, 70, 98, 105	0
46	L9	191/191 (100%)	0.67	22 (11%) 5 7	43, 55, 66, 86	0
46	l9	191/191 (100%)	0.43	7 (3%) 39 47	31, 38, 58, 78	0
47	M0	211/220 (95%)	0.03	2 (0%) 81 88	28, 44, 78, 113	0
47	m0	213/220 (96%)	0.43	12 (5%) 24 28	26, 45, 71, 90	0
48	M1	169/173 (97%)	0.56	17 (10%) 7 10	49, 68, 80, 92	0
48	m1	169/173 (97%)	0.13	4 (2%) 56 65	36, 52, 64, 76	0
49	M3	193/198 (97%)	0.16	7 (3%) 41 48	24, 46, 83, 111	0
49	m3	194/198 (97%)	0.41	5 (2%) 53 63	31, 55, 90, 114	0
50	M4	136/137 (99%)	0.56	7 (5%) 27 33	35, 43, 57, 65	0
50	m4	137/137 (100%)	0.27	4 (2%) 49 58	31, 36, 55, 65	0
51	M5	203/203 (100%)	0.34	5 (2%) 54 64	23, 39, 49, 55	0
51	m5	203/203 (100%)	0.65	18 (8%) 10 12	29, 48, 58, 61	0
52	M6	197/198 (99%)	0.50	10 (5%) 27 33	27, 35, 55, 60	0
52	m6	197/198 (99%)	0.18	8 (4%) 35 43	21, 26, 51, 57	0
53	M7	183/183 (100%)	0.58	12 (6%) 18 21	29, 36, 88, 118	0
53	m7	155/183 (84%)	-0.07	0 100 100	24, 34, 48, 81	0
54	M8	185/185 (100%)	0.08	0 100 100	26, 36, 48, 60	0
54	m8	185/185 (100%)	0.18	1 (0%) 88 93	30, 42, 52, 59	0
55	M9	188/188 (100%)	0.68	24 (12%) 4 6	43, 57, 135, 146	0
55	m9	188/188 (100%)	0.46	15 (7%) 12 15	40, 52, 115, 132	0
56	N0	172/172 (100%)	0.68	12 (6%) 16 19	35, 41, 55, 62	0
56	n0	172/172 (100%)	0.34	5 (2%) 49 58	27, 34, 44, 54	0
57	N1	159/159 (100%)	0.57	14 (8%) 10 13	30, 40, 77, 83	0
57	n1	159/159 (100%)	0.50	8 (5%) 28 33	27, 35, 70, 76	0
58	N2	100/120 (83%)	1.27	21 (21%) 1 2	72, 89, 104, 120	0
58	n2	98/120 (81%)	1.35	30 (30%) 1 1	64, 77, 86, 89	0
59	N3	136/136 (100%)	-0.13	3 (2%) 59 67	31, 42, 58, 66	0
59	n3	136/136 (100%)	0.09	2 (1%) 70 79	22, 33, 47, 51	0
60	N4	98/155 (63%)	2.27	30 (30%) 1 1	43, 54, 140, 144	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
60	n4	135/155 (87%)	1.02	25 (18%) 2 3	32, 80, 117, 135	0
61	N5	121/141 (85%)	0.93	17 (14%) 3 5	38, 52, 70, 94	0
61	n5	120/141 (85%)	1.16	27 (22%) 1 2	43, 57, 75, 83	0
62	N6	126/126 (100%)	0.24	3 (2%) 56 65	30, 47, 59, 71	0
62	n6	126/126 (100%)	0.68	11 (8%) 10 13	37, 53, 69, 75	0
63	N7	135/135 (100%)	0.59	12 (8%) 10 12	59, 74, 88, 96	0
63	n7	135/135 (100%)	0.91	29 (21%) 1 2	65, 81, 105, 113	0
64	N8	148/148 (100%)	0.39	3 (2%) 62 71	21, 37, 61, 71	0
64	n8	148/148 (100%)	0.50	8 (5%) 25 30	23, 45, 64, 68	0
65	N9	58/58 (100%)	0.58	8 (13%) 4 5	25, 45, 91, 106	0
65	n9	58/58 (100%)	0.45	5 (8%) 11 13	24, 46, 67, 78	0
66	O0	97/104 (93%)	0.55	8 (8%) 12 15	59, 69, 95, 100	0
66	o0	100/104 (96%)	1.53	29 (29%) 1 1	62, 72, 104, 120	0
67	O1	109/112 (97%)	0.76	11 (10%) 7 10	41, 53, 89, 104	0
67	o1	109/112 (97%)	0.54	11 (10%) 7 10	33, 44, 84, 103	0
68	O2	127/129 (98%)	0.09	3 (2%) 56 65	21, 34, 44, 63	0
68	o2	127/129 (98%)	0.17	3 (2%) 56 65	22, 40, 53, 69	0
69	O3	106/106 (100%)	-0.06	0 100 100	26, 32, 52, 60	0
69	o3	106/106 (100%)	-0.09	0 100 100	24, 32, 56, 67	0
70	O4	112/119 (94%)	1.10	23 (20%) 1 2	39, 57, 97, 111	0
70	o4	112/119 (94%)	0.72	17 (15%) 3 4	40, 59, 95, 105	0
71	O5	119/119 (100%)	0.52	7 (5%) 22 25	36, 56, 63, 64	0
71	o5	119/119 (100%)	1.04	22 (18%) 2 3	45, 61, 70, 74	0
72	O6	99/99 (100%)	0.54	12 (12%) 5 7	41, 52, 79, 92	0
72	o6	99/99 (100%)	0.40	10 (10%) 7 10	50, 61, 81, 103	0
73	O7	87/87 (100%)	0.55	4 (4%) 31 38	27, 34, 59, 83	0
73	o7	87/87 (100%)	0.95	10 (11%) 5 7	28, 36, 65, 101	0
74	O8	77/77 (100%)	1.86	31 (40%) 1 0	63, 77, 97, 106	0
74	o8	77/77 (100%)	0.81	11 (14%) 3 5	65, 78, 97, 104	0
75	O9	50/50 (100%)	0.76	6 (12%) 5 7	36, 40, 50, 53	0
75	o9	50/50 (100%)	1.25	11 (22%) 1 2	40, 44, 56, 66	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
76	Q0	52/52 (100%)	0.43	3 (5%) 22 26	40, 45, 63, 72	0
76	q0	52/52 (100%)	0.11	2 (3%) 38 45	28, 31, 42, 51	0
77	Q1	25/25 (100%)	0.67	3 (12%) 5 7	45, 48, 51, 56	0
77	q1	25/25 (100%)	0.04	1 (4%) 36 43	34, 39, 50, 58	0
78	Q2	105/105 (100%)	0.43	6 (5%) 23 28	25, 43, 64, 96	0
78	q2	105/105 (100%)	0.35	2 (1%) 64 72	29, 43, 64, 81	0
79	Q3	91/91 (100%)	0.43	4 (4%) 33 40	33, 43, 63, 79	0
79	q3	91/91 (100%)	0.41	3 (3%) 44 53	31, 45, 61, 67	0
80	e0	62/62 (100%)	0.77	10 (16%) 2 3	51, 67, 108, 114	0
81	e1	76/76 (100%)	3.42	48 (63%) 0 0	122, 134, 156, 162	0
82	m2	0/160	-	-	-	-
83	p0	143/311 (45%)	1.86	54 (37%) 1 0	78, 99, 163, 171	0
84	p1	0/47	-	-	-	-
85	p2	0/46	-	-	-	-
All	All	33063/35344 (93%)	0.69	3811 (11%) 5 7	20, 58, 118, 269	0

All (3811) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
60	N4	76	VAL	38.6
7	S5	152	GLY	20.1
53	M7	161	ALA	19.2
81	e1	112	GLY	18.7
16	C4	15	GLY	18.6
1	6	662	U	16.6
32	E0	53	LYS	16.5
22	d0	121	ASN	16.3
13	c1	3	THR	16.2
29	D7	38	PRO	16.2
60	N4	86	SER	16.2
22	d0	98	GLN	15.8
81	e1	145	HIS	15.4
7	s5	151	GLY	15.3
14	c2	56	GLU	15.1
14	C2	110	ALA	14.8
1	6	664	U	14.7
13	C1	2	SER	14.6
60	n4	68	ALA	14.6

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Mol	Chain	Res	Type	RSRZ
14	C2	111	ASN	14.2
13	C1	146	ALA	14.2
1	6	663	U	14.1
60	N4	75	THR	13.9
14	C2	112	ALA	13.9
14	c2	63	VAL	13.7
30	D8	7	VAL	13.5
14	c2	20	ALA	13.4
13	C1	147	ALA	13.4
60	N4	77	LYS	13.2
13	c1	5	LEU	13.2
17	c5	4	ALA	13.1
22	d0	14	GLN	13.1
35	SM	88	ARG	13.0
28	D6	62	TYR	12.7
60	N4	88	ASP	12.5
22	d0	18	GLN	12.5
35	SM	85	SER	12.5
12	c0	98	THR	12.4
13	C1	148	LYS	12.2
7	S5	151	GLY	12.0
14	c2	123	VAL	12.0
35	SM	174	LEU	12.0
22	d0	97	VAL	11.9
22	d0	99	ILE	11.8
3	S1	55	LYS	11.7
83	p0	192	ASP	11.7
36	1	1568	U	11.6
30	D8	44	VAL	11.5
13	C1	152	GLN	11.5
66	o0	6	SER	11.5
7	s5	155	ALA	11.4
14	c2	85	LYS	11.4
3	S1	20	VAL	11.4
14	c2	126	TRP	11.3
14	c2	106	ILE	11.3
11	S9	181	ALA	11.2
36	1	1569	U	11.1
17	c5	5	VAL	11.0
33	E1	116	LYS	10.9
35	SM	16	ASP	10.8
29	D7	41	LEU	10.8

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Mol	Chain	Res	Type	RSRZ
47	m0	111	LEU	10.6
29	D7	39	GLY	10.6
13	C1	156	PHE	10.5
14	c2	92	ALA	10.5
14	c2	74	LEU	10.5
35	SM	84	LYS	10.5
81	e1	77	ALA	10.4
35	SM	176	ALA	10.3
7	S5	36	ALA	10.3
60	N4	69	LYS	10.2
28	D6	98	PRO	10.1
53	M7	184	ALA	10.0
31	d9	4	GLU	10.0
14	C2	68	GLU	10.0
14	C2	85	LYS	9.9
35	SM	87	THR	9.8
22	d0	17	GLN	9.8
34	sR	121	MET	9.8
32	E0	54	ARG	9.8
35	SM	15	ALA	9.7
1	2	238	U	9.7
60	N4	85	ALA	9.7
60	N4	78	ALA	9.7
60	N4	87	LEU	9.7
3	S1	54	LEU	9.6
14	c2	67	THR	9.6
35	SM	19	VAL	9.6
14	C2	62	LEU	9.6
21	c9	17	ALA	9.6
30	D8	67	ARG	9.6
11	S9	182	GLU	9.5
13	c1	2	SER	9.5
81	e1	80	ARG	9.5
60	N4	84	GLY	9.4
66	o0	105	ALA	9.3
9	s7	187	SER	9.3
1	2	656	G	9.3
14	c2	21	GLU	9.3
5	S3	148	LYS	9.3
34	sR	167	VAL	9.2
28	D6	61	GLU	9.2
14	c2	80	ASN	9.2

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Mol	Chain	Res	Type	RSRZ
14	C2	67	THR	9.2
5	S3	44	THR	9.1
7	S5	150	GLY	9.1
34	sR	165	ASP	9.1
3	S1	47	LEU	9.0
68	o2	128	LEU	9.0
13	C1	3	THR	8.9
63	n7	2	ALA	8.9
14	c2	44	GLY	8.9
53	M7	157	VAL	8.9
17	c5	133	ALA	8.8
14	C2	50	LYS	8.8
35	SM	175	ASP	8.8
28	D6	53	LEU	8.8
35	SM	89	ARG	8.8
22	d0	95	ALA	8.7
29	D7	75	GLU	8.7
80	e0	63	GLN	8.6
7	s5	154	ALA	8.6
30	D8	16	LEU	8.6
13	c1	4	GLU	8.6
14	c2	68	GLU	8.5
27	D5	82	HIS	8.5
23	d1	42	GLU	8.5
83	p0	209	LEU	8.4
81	e1	110	ALA	8.4
14	C2	108	ARG	8.4
11	S9	180	LYS	8.4
7	s5	156	ARG	8.4
81	e1	102	VAL	8.4
81	e1	81	LYS	8.4
19	c7	87	GLU	8.4
33	E1	85	TYR	8.3
28	d6	98	PRO	8.3
3	S1	26	ARG	8.3
22	d0	100	VAL	8.3
1	6	668	C	8.2
16	C4	16	VAL	8.2
36	1	1352	A	8.2
7	S5	37	GLN	8.2
3	S1	96	LEU	8.1
12	c0	95	ARG	8.1

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Mol	Chain	Res	Type	RSRZ
29	D7	37	CYS	8.1
60	N4	90	ILE	8.1
81	e1	111	GLU	8.1
8	S6	226	ILE	8.1
13	C1	149	ALA	8.1
2	S0	25	GLY	8.1
35	SM	83	LYS	8.0
30	D8	66	LEU	8.0
55	M9	187	GLU	8.0
1	2	913	G	8.0
13	C1	155	LYS	8.0
14	c2	75	VAL	7.9
46	l9	191	LEU	7.9
81	e1	85	TYR	7.9
1	6	660	G	7.9
30	D8	43	ASN	7.9
73	o7	88	ALA	7.9
8	s6	166	GLU	7.8
14	c2	105	LYS	7.8
16	C4	40	ALA	7.8
30	D8	15	VAL	7.8
3	S1	46	THR	7.8
17	C5	50	THR	7.8
36	5	2539	C	7.8
60	N4	89	LEU	7.8
20	c8	15	LEU	7.7
1	6	665	U	7.7
13	C1	154	ALA	7.7
19	C7	123	ASN	7.7
60	n4	69	LYS	7.7
22	D0	19	ILE	7.7
29	d7	57	GLU	7.6
20	C8	17	LEU	7.6
73	o7	87	SER	7.6
56	N0	1	MET	7.6
13	C1	145	ALA	7.6
16	C4	14	PHE	7.6
47	m0	221	ALA	7.6
20	C8	66	LEU	7.6
16	C4	79	VAL	7.6
58	N2	27	VAL	7.6
17	c5	7	ALA	7.5

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Mol	Chain	Res	Type	RSRZ
14	c2	76	GLU	7.5
66	O0	105	ALA	7.5
13	c1	147	ALA	7.5
18	C6	57	LEU	7.5
66	o0	104	LEU	7.5
7	s5	152	GLY	7.4
1	6	658	C	7.4
1	6	659	C	7.4
7	s5	150	GLY	7.4
23	D1	69	LEU	7.4
9	s7	2	SER	7.4
53	M7	160	ALA	7.3
81	e1	90	LYS	7.3
9	s7	52	ALA	7.3
60	n4	66	GLU	7.3
32	E0	49	LEU	7.3
3	S1	94	LYS	7.3
20	C8	8	GLN	7.3
18	C6	143	ARG	7.3
34	sR	166	SER	7.3
20	C8	2	SER	7.3
26	d4	18	LEU	7.3
34	sR	120	SER	7.3
7	S5	161	ASP	7.3
29	D7	40	CYS	7.3
26	D4	100	VAL	7.2
32	E0	48	THR	7.2
28	D6	60	PRO	7.2
71	o5	120	ALA	7.2
10	s8	117	TYR	7.1
8	S6	163	THR	7.1
33	E1	87	THR	7.1
34	sR	72	THR	7.1
5	S3	217	ILE	7.1
5	S3	218	LEU	7.1
19	C7	86	PRO	7.1
7	S5	155	ALA	7.0
14	C2	107	ASP	7.0
36	1	1572	U	7.0
60	N4	92	GLU	7.0
14	c2	82	PRO	7.0
40	L3	387	LEU	7.0

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Mol	Chain	Res	Type	RSRZ
5	s3	42	THR	7.0
80	e0	49	LEU	7.0
36	1	1762	C	7.0
21	C9	35	ASP	7.0
58	N2	9	GLN	6.9
14	C2	113	ARG	6.9
36	1	547	G	6.9
36	5	547	G	6.9
35	SM	86	ASN	6.9
16	C4	96	PRO	6.9
36	1	1955	U	6.9
46	l9	190	ASP	6.9
58	n2	52	ASN	6.9
5	s3	217	ILE	6.9
27	d5	86	GLU	6.9
1	6	1702	A	6.8
34	sR	189	GLU	6.8
42	L5	127	GLY	6.8
2	S0	28	ASN	6.8
83	p0	197	PHE	6.8
22	d0	93	LEU	6.8
34	sR	183	LEU	6.8
34	sR	212	ALA	6.8
22	D0	98	GLN	6.8
9	S7	38	LEU	6.8
22	D0	104	THR	6.8
23	d1	43	GLY	6.8
28	D6	48	ALA	6.8
30	D8	65	ARG	6.8
2	S0	23	HIS	6.8
30	D8	8	THR	6.8
14	C2	73	LYS	6.7
2	S0	170	ILE	6.7
30	D8	5	THR	6.7
66	o0	100	ILE	6.7
30	d8	65	ARG	6.7
33	E1	145	HIS	6.7
17	C5	12	PHE	6.7
3	S1	56	SER	6.7
74	O8	5	ILE	6.7
60	n4	67	VAL	6.6
1	6	506	A	6.6

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Mol	Chain	Res	Type	RSRZ
1	2	658	C	6.6
81	e1	123	ASN	6.6
83	p0	87	VAL	6.6
20	C8	22	VAL	6.6
8	s6	169	TYR	6.6
83	p0	191	TYR	6.6
35	sM	174	LEU	6.6
28	D6	85	ARG	6.6
68	o2	127	ALA	6.6
19	C7	125	SER	6.5
58	N2	11	ILE	6.5
6	S4	259	GLN	6.5
3	S1	92	GLN	6.5
18	c6	142	TYR	6.5
30	d8	9	LEU	6.5
1	2	1059	U	6.5
31	d9	5	ASN	6.5
36	1	1570	U	6.5
1	6	1800	A	6.5
14	c2	64	SER	6.5
27	D5	88	ILE	6.5
33	E1	106	TYR	6.5
5	S3	179	GLN	6.5
5	s3	43	PRO	6.4
1	6	678	A	6.4
28	D6	64	LEU	6.4
17	c5	135	THR	6.4
28	D6	79	ILE	6.4
33	E1	129	GLY	6.4
53	M7	163	LYS	6.4
6	S4	123	LEU	6.4
34	sR	118	LYS	6.4
13	C1	150	ASN	6.4
60	n4	70	LYS	6.3
18	c6	143	ARG	6.3
34	sR	136	ILE	6.3
29	D7	33	LEU	6.3
36	1	1566	A	6.3
5	s3	3	ALA	6.3
36	1	1571	A	6.3
62	N6	127	GLU	6.3
17	c5	11	VAL	6.3

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Mol	Chain	Res	Type	RSRZ
22	D0	121	ASN	6.3
29	D7	32	PHE	6.3
20	C8	5	VAL	6.3
30	d8	66	LEU	6.3
34	sR	186	PHE	6.3
1	6	661	A	6.3
19	C7	124	VAL	6.3
22	D0	120	SER	6.2
5	S3	45	LYS	6.2
34	sR	157	VAL	6.2
14	c2	57	ALA	6.2
56	n0	2	ALA	6.2
29	d7	38	PRO	6.2
9	S7	34	LEU	6.2
1	2	718	U	6.2
17	C5	55	GLY	6.2
14	C2	91	VAL	6.2
74	O8	21	LYS	6.2
13	C1	4	GLU	6.2
56	n0	1	MET	6.2
14	c2	52	LEU	6.2
14	c2	115	VAL	6.2
1	6	232	U	6.2
30	d8	5	THR	6.2
5	S3	142	LEU	6.2
76	Q0	77	ILE	6.1
83	p0	217	VAL	6.1
36	1	545	U	6.1
30	D8	45	LYS	6.1
60	N4	95	SER	6.1
73	O7	87	SER	6.1
2	S0	40	ALA	6.1
70	O4	113	LYS	6.1
22	d0	102	ARG	6.1
45	l8	122	LYS	6.1
28	D6	63	ALA	6.1
7	S5	149	VAL	6.1
28	d6	81	ALA	6.1
2	S0	166	GLY	6.1
22	d0	105	GLN	6.1
17	c5	10	ARG	6.1
14	c2	143	GLN	6.1

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Mol	Chain	Res	Type	RSRZ
13	C1	151	LYS	6.1
20	C8	3	LEU	6.1
81	e1	127	GLY	6.1
1	2	719	U	6.0
9	s7	3	ALA	6.0
22	d0	107	THR	6.0
58	N2	10	LYS	6.0
13	c1	30	ARG	6.0
1	2	135	A	6.0
15	C3	61	THR	6.0
35	sM	83	LYS	6.0
7	S5	154	ALA	6.0
19	c7	88	VAL	6.0
1	2	194	U	6.0
14	c2	104	ALA	6.0
72	o6	100	HIS	6.0
13	c1	146	ALA	6.0
30	D8	27	GLN	6.0
83	p0	100	ILE	6.0
20	C8	146	ALA	6.0
24	D2	129	VAL	6.0
33	E1	107	LYS	6.0
20	C8	28	ILE	5.9
36	1	1351	U	5.9
16	C4	95	GLY	5.9
36	1	1239	C	5.9
81	e1	113	LYS	5.9
72	O6	98	ARG	5.9
81	e1	108	VAL	5.9
7	S5	153	GLY	5.9
17	c5	134	THR	5.9
60	N4	81	PRO	5.9
14	c2	79	ALA	5.9
34	sR	214	ALA	5.9
35	SM	173	GLU	5.9
36	1	1581	C	5.9
20	C8	47	CYS	5.9
28	D6	41	ILE	5.9
34	sR	252	LEU	5.9
81	e1	114	VAL	5.8
14	c2	25	GLU	5.8
23	d1	75	ASN	5.8

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Mol	Chain	Res	Type	RSRZ
36	1	1567	U	5.8
14	c2	62	LEU	5.8
14	C2	51	ALA	5.8
24	D2	27	ILE	5.8
53	M7	162	GLU	5.8
1	2	239	C	5.8
1	6	666	U	5.8
7	s5	37	GLN	5.8
27	D5	36	ALA	5.8
20	C8	76	PRO	5.7
70	o4	106	LYS	5.7
77	Q1	1	MET	5.7
28	D6	69	ASN	5.7
83	p0	188	VAL	5.7
17	c5	136	SER	5.7
7	s5	148	ARG	5.7
35	SM	110	TRP	5.7
52	m6	184	THR	5.7
67	O1	79	ARG	5.7
5	S3	43	PRO	5.7
1	6	676	G	5.7
3	S1	102	GLY	5.7
12	c0	64	TYR	5.7
34	sR	79	TYR	5.7
14	c2	59	LEU	5.7
5	S3	87	TYR	5.7
11	S9	5	PRO	5.7
24	D2	37	PHE	5.7
81	e1	125	THR	5.7
28	d6	80	HIS	5.7
45	L8	152	LEU	5.7
3	S1	84	ILE	5.6
61	n5	142	ILE	5.6
35	sM	170	LYS	5.6
36	1	1952	G	5.6
14	C2	61	VAL	5.6
35	sM	84	LYS	5.6
2	S0	44	GLY	5.6
35	SM	21	PRO	5.6
17	c5	6	ASN	5.6
44	L7	23	ALA	5.6
46	L9	52	LEU	5.6

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Mol	Chain	Res	Type	RSRZ
63	n7	7	ALA	5.6
22	D0	93	LEU	5.6
28	d6	48	ALA	5.6
34	sR	172	ALA	5.6
3	S1	60	ALA	5.6
36	1	1350	A	5.6
2	s0	9	LEU	5.5
72	O6	99	ARG	5.5
11	S9	101	VAL	5.5
58	n2	56	VAL	5.5
36	1	1349	G	5.5
36	5	2538	U	5.5
14	c2	125	ASN	5.5
35	SM	170	LYS	5.5
36	1	1240	A	5.5
33	E1	115	THR	5.5
34	sR	205	SER	5.5
16	C4	41	ARG	5.5
80	e0	62	VAL	5.5
33	E1	143	LYS	5.5
14	C2	106	ILE	5.5
14	C2	127	GLY	5.5
17	C5	54	ALA	5.5
18	C6	20	ALA	5.5
14	c2	65	SER	5.5
5	S3	37	VAL	5.5
9	S7	32	PRO	5.4
4	S2	224	PHE	5.4
46	L9	191	LEU	5.4
33	E1	123	ASN	5.4
17	C5	10	ARG	5.4
13	c1	117	VAL	5.4
7	s5	153	GLY	5.4
36	1	1576	G	5.4
14	c2	124	LYS	5.4
13	c1	145	ALA	5.4
36	1	2205	U	5.4
1	6	1701	A	5.4
4	S2	144	TRP	5.4
60	N4	68	ALA	5.4
11	S9	2	PRO	5.4
18	C6	29	ILE	5.4

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Mol	Chain	Res	Type	RSRZ
21	c9	31	PRO	5.4
22	d0	96	PRO	5.4
50	M4	135	LEU	5.4
67	O1	112	ASP	5.4
14	c2	84	ASN	5.4
1	2	794	U	5.4
53	M7	158	ALA	5.4
30	D8	9	LEU	5.4
1	6	1710	U	5.4
61	N5	23	ALA	5.4
3	S1	184	LEU	5.4
61	N5	24	LEU	5.4
7	S5	222	LYS	5.3
20	c8	18	LEU	5.3
12	c0	97	PRO	5.3
30	D8	57	MET	5.3
3	S1	140	ILE	5.3
55	m9	183	ALA	5.3
1	6	1693	A	5.3
22	d0	104	THR	5.3
36	5	2505	U	5.3
18	c6	114	ARG	5.3
34	sR	163	ASP	5.3
66	o0	14	LEU	5.3
5	s3	145	ALA	5.3
83	p0	205	THR	5.3
3	S1	225	VAL	5.3
16	C4	29	HIS	5.3
52	M6	80	PHE	5.3
21	C9	36	ILE	5.3
75	o9	51	ILE	5.3
11	s9	184	SER	5.3
50	m4	2	SER	5.3
5	s3	215	GLU	5.3
21	C9	51	GLU	5.3
32	E0	52	GLY	5.3
22	d0	106	ILE	5.3
30	D8	40	ILE	5.3
1	6	194	U	5.3
4	s2	90	THR	5.3
14	C2	94	ALA	5.2
34	sR	180	ALA	5.2

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Mol	Chain	Res	Type	RSRZ
78	Q2	106	PHE	5.2
21	C9	5	SER	5.2
3	S1	32	ILE	5.2
8	S6	162	VAL	5.2
28	D6	84	VAL	5.2
7	S5	41	LYS	5.2
33	E1	124	PRO	5.2
55	M9	186	LYS	5.2
3	S1	25	THR	5.2
6	S4	261	LEU	5.2
22	D0	103	ILE	5.2
3	s1	89	ASP	5.2
14	C2	20	ALA	5.2
14	c2	78	LEU	5.2
68	O2	128	LEU	5.2
58	N2	108	TYR	5.2
28	D6	8	ASN	5.2
9	s7	93	LEU	5.2
1	6	1711	C	5.2
60	N4	93	ARG	5.2
83	p0	27	VAL	5.2
66	o0	93	LEU	5.2
2	S0	24	LEU	5.1
34	sR	263	PHE	5.1
45	l8	211	LEU	5.1
24	D2	41	MET	5.1
14	c2	71	ILE	5.1
40	l3	140	ASP	5.1
2	s0	24	LEU	5.1
17	c5	86	VAL	5.1
1	6	239	C	5.1
28	D6	95	ARG	5.1
22	D0	84	MET	5.1
22	D0	100	VAL	5.1
34	sR	222	LEU	5.1
22	d0	119	ALA	5.1
3	s1	235	GLY	5.1
81	e1	83	LYS	5.1
1	6	679	U	5.1
3	S1	230	ALA	5.1
13	c1	116	ARG	5.1
28	D6	82	ARG	5.1

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Mol	Chain	Res	Type	RSRZ
36	5	2506	U	5.1
12	c0	92	ILE	5.1
30	D8	35	ASP	5.1
3	S1	133	TYR	5.1
58	N2	28	PHE	5.0
35	sM	85	SER	5.0
16	C4	80	HIS	5.0
83	p0	72	ASP	5.0
17	c5	13	LYS	5.0
18	c6	19	VAL	5.0
34	sR	244	ALA	5.0
56	N0	2	ALA	5.0
28	d6	97	PRO	5.0
31	D9	4	GLU	5.0
36	1	546	C	5.0
27	D5	69	LEU	5.0
47	m0	103	LEU	5.0
14	C2	105	LYS	5.0
1	2	134	U	5.0
21	c9	55	TYR	5.0
42	L5	131	LEU	5.0
6	S4	260	GLY	5.0
11	S9	106	GLU	5.0
70	O4	23	VAL	5.0
70	O4	110	GLU	5.0
2	s0	185	ARG	5.0
30	D8	21	SER	5.0
7	S5	137	ILE	5.0
83	p0	25	LEU	5.0
1	6	1712	A	5.0
14	C2	86	VAL	5.0
14	c2	86	VAL	5.0
33	E1	130	VAL	5.0
5	s3	144	ALA	5.0
29	D7	43	ILE	5.0
55	m9	151	ARG	5.0
3	s1	204	ILE	5.0
22	d0	120	SER	5.0
9	S7	126	LEU	5.0
20	c8	22	VAL	5.0
35	SM	18	VAL	5.0
22	D0	20	ILE	4.9

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Mol	Chain	Res	Type	RSRZ
70	O4	21	LYS	4.9
4	S2	90	THR	4.9
1	2	714	G	4.9
36	5	2503	G	4.9
60	n4	65	GLU	4.9
21	c9	132	LEU	4.9
2	s0	186	GLY	4.9
33	E1	86	THR	4.9
36	5	546	C	4.9
46	L9	189	GLU	4.9
6	S4	162	ILE	4.9
83	p0	221	ALA	4.9
28	D6	50	VAL	4.9
36	1	2539	C	4.9
10	s8	145	ALA	4.9
1	6	75	U	4.9
27	d5	85	LYS	4.9
58	N2	89	LEU	4.9
1	6	1491	U	4.9
28	D6	44	ILE	4.9
74	O8	36	LYS	4.9
8	S6	156	PHE	4.9
16	c4	60	ALA	4.9
28	D6	35	ALA	4.9
12	C0	67	THR	4.9
34	sR	232	TYR	4.9
1	6	1699	G	4.9
21	c9	36	ILE	4.9
35	SM	20	LEU	4.9
10	s8	67	TRP	4.9
2	s0	173	ILE	4.9
12	C0	19	GLY	4.9
7	s5	43	PHE	4.9
83	p0	73	PHE	4.9
34	sR	3	SER	4.9
12	c0	10	LYS	4.8
28	D6	46	GLU	4.8
7	S5	162	VAL	4.8
9	s7	16	LEU	4.8
45	l8	198	ALA	4.8
67	o1	82	GLU	4.8
32	E0	2	ALA	4.8

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Mol	Chain	Res	Type	RSRZ
66	O0	95	ALA	4.8
14	C2	109	GLU	4.8
20	C8	48	LYS	4.8
81	e1	117	LEU	4.8
21	c9	113	ILE	4.8
34	SR	180	ALA	4.8
75	O9	2	ALA	4.8
21	C9	31	PRO	4.8
17	C5	26	LEU	4.8
28	d6	53	LEU	4.8
14	c2	30	VAL	4.8
22	D0	92	ASP	4.8
58	n2	33	TYR	4.8
67	O1	82	GLU	4.8
28	D6	78	ALA	4.8
34	sR	116	ASP	4.8
14	c2	66	VAL	4.8
28	D6	83	ILE	4.8
20	C8	44	ASN	4.8
45	L8	91	PHE	4.8
2	S0	97	PRO	4.8
17	C5	28	MET	4.8
28	D6	45	VAL	4.8
33	E1	152	ALA	4.8
50	m4	8	LYS	4.8
24	D2	75	ILE	4.7
23	D1	75	ASN	4.7
1	2	793	A	4.7
3	S1	29	TRP	4.7
1	6	718	U	4.7
66	O0	104	LEU	4.7
3	S1	114	VAL	4.7
24	D2	102	VAL	4.7
66	O0	100	ILE	4.7
14	C2	104	ALA	4.7
22	D0	45	ALA	4.7
16	C4	94	PRO	4.7
14	C2	143	GLN	4.7
14	C2	88	LEU	4.7
21	c9	108	LEU	4.7
17	c5	52	LYS	4.7
34	sR	32	LEU	4.7

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Mol	Chain	Res	Type	RSRZ
9	s7	12	ALA	4.7
83	p0	212	HIS	4.7
5	S3	149	ALA	4.7
2	S0	54	TRP	4.7
65	N9	25	LYS	4.7
6	S4	159	THR	4.7
6	s4	111	VAL	4.7
3	s1	218	LEU	4.6
67	O1	4	LEU	4.6
5	S3	39	VAL	4.6
7	S5	181	GLU	4.6
36	5	1349	G	4.6
79	q3	2	ALA	4.6
27	d5	37	GLN	4.6
28	d6	44	ILE	4.6
22	D0	97	VAL	4.6
30	D8	42	ARG	4.6
17	C5	89	MET	4.6
22	d0	19	ILE	4.6
3	S1	45	LYS	4.6
7	S5	54	LYS	4.6
14	c2	88	LEU	4.6
34	sR	168	THR	4.6
15	C3	40	TYR	4.6
28	D6	43	ASN	4.6
36	1	3154	C	4.6
8	S6	148	SER	4.6
14	C2	141	SER	4.6
52	m6	180	SER	4.6
36	5	1764	U	4.6
26	D4	101	GLU	4.6
36	1	1580	A	4.6
30	d8	24	GLY	4.6
71	O5	120	ALA	4.6
30	d8	64	ARG	4.6
14	c2	114	LYS	4.6
7	S5	20	PHE	4.6
20	C8	72	ILE	4.6
35	sM	169	ALA	4.6
1	2	657	U	4.6
11	s9	93	LEU	4.6
74	O8	29	LYS	4.6

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Mol	Chain	Res	Type	RSRZ
16	c4	58	TYR	4.6
35	sM	82	THR	4.6
22	d0	20	ILE	4.6
3	S1	110	LEU	4.6
21	c9	28	LEU	4.6
22	D0	105	GLN	4.6
28	D6	42	ARG	4.6
2	S0	98	ILE	4.5
12	C0	92	ILE	4.5
9	S7	52	ALA	4.5
36	1	1763	U	4.5
4	S2	93	GLY	4.5
3	S1	135	LEU	4.5
11	S9	87	SER	4.5
11	S9	118	LEU	4.5
50	M4	9	ALA	4.5
83	p0	211	SER	4.5
1	2	506	A	4.5
39	l2	252	THR	4.5
1	6	1228	G	4.5
27	d5	60	VAL	4.5
16	c4	47	LYS	4.5
27	D5	48	ASP	4.5
25	D3	33	LEU	4.5
28	D6	31	PRO	4.5
1	6	1700	C	4.5
34	sR	314	GLN	4.5
17	c5	9	LYS	4.5
7	S5	209	TYR	4.5
20	C8	30	TYR	4.5
32	E0	55	ARG	4.5
36	1	1573	G	4.5
36	1	2522	G	4.5
4	s2	247	ALA	4.5
16	c4	61	MET	4.5
23	D1	37	ALA	4.5
1	6	1371	A	4.5
33	E1	148	TYR	4.5
21	c9	110	LYS	4.5
14	C2	140	PHE	4.5
57	N1	159	PHE	4.5
20	C8	13	HIS	4.5

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Mol	Chain	Res	Type	RSRZ
46	L9	3	TYR	4.5
20	c8	7	GLU	4.5
16	c4	48	VAL	4.5
30	D8	26	THR	4.5
65	n9	27	TYR	4.4
66	o0	67	VAL	4.4
20	C8	101	LEU	4.4
14	C2	57	ALA	4.4
20	c8	5	VAL	4.4
55	M9	177	VAL	4.4
17	c5	50	THR	4.4
11	S9	186	GLU	4.4
26	d4	99	LYS	4.4
14	c2	40	GLY	4.4
14	C2	64	SER	4.4
17	C5	20	VAL	4.4
3	s1	202	LYS	4.4
11	S9	117	GLY	4.4
3	S1	43	VAL	4.4
28	D6	56	ALA	4.4
35	SM	14	ASP	4.4
3	s1	73	LEU	4.4
15	C3	151	ASN	4.4
45	l8	252	ASN	4.4
21	C9	30	VAL	4.4
30	D8	32	PHE	4.4
33	E1	128	ALA	4.4
83	p0	80	VAL	4.4
34	sR	317	THR	4.4
10	s8	152	ILE	4.4
1	6	651	G	4.4
38	8	81	U	4.4
11	S9	32	GLY	4.4
13	c1	21	ASN	4.4
1	6	1696	G	4.4
9	s7	109	VAL	4.4
29	d7	54	VAL	4.4
47	m0	79	VAL	4.4
83	p0	187	VAL	4.4
22	d0	101	LYS	4.4
6	S4	65	LEU	4.4
12	C0	41	TYR	4.3

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Mol	Chain	Res	Type	RSRZ
30	d8	43	ASN	4.3
7	S5	160	VAL	4.3
17	C5	49	MET	4.3
20	C8	32	LEU	4.3
36	1	2207	A	4.3
74	o8	11	PHE	4.3
16	c4	59	ALA	4.3
50	M4	138	ALA	4.3
34	sR	160	GLU	4.3
27	D5	78	ILE	4.3
38	4	158	U	4.3
48	M1	120	ILE	4.3
10	s8	200	LYS	4.3
65	n9	25	LYS	4.3
25	D3	27	ASN	4.3
14	c2	96	GLN	4.3
3	s1	127	VAL	4.3
14	c2	122	VAL	4.3
26	D4	2	SER	4.3
28	D6	86	VAL	4.3
60	N4	82	ILE	4.3
3	s1	114	VAL	4.3
6	S4	134	LYS	4.3
17	C5	13	LYS	4.3
34	SR	261	LYS	4.3
17	C5	14	THR	4.3
20	C8	71	GLN	4.3
42	L5	297	GLN	4.3
5	S3	69	LEU	4.3
10	s8	121	LEU	4.3
27	D5	81	ARG	4.3
34	SR	231	MET	4.3
13	c1	144	ALA	4.3
36	1	1565	G	4.3
36	5	1567	U	4.3
52	m6	187	GLU	4.3
18	c6	140	LYS	4.3
20	C8	54	LEU	4.3
63	n7	5	LEU	4.3
11	S9	85	VAL	4.3
14	C2	116	VAL	4.3
3	S1	130	SER	4.3

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Mol	Chain	Res	Type	RSRZ
1	6	667	U	4.3
70	o4	113	LYS	4.3
11	S9	95	TYR	4.3
48	m1	174	LYS	4.3
21	c9	18	TYR	4.2
12	C0	38	LYS	4.2
20	C8	46	VAL	4.2
17	c5	53	PRO	4.2
21	c9	111	ILE	4.2
27	d5	50	ILE	4.2
81	e1	124	PRO	4.2
26	D4	22	GLN	4.2
6	s4	260	GLY	4.2
20	C8	18	LEU	4.2
33	E1	151	ASN	4.2
30	D8	30	VAL	4.2
34	sR	135	THR	4.2
15	C3	66	ILE	4.2
70	O4	16	ARG	4.2
3	S1	100	PHE	4.2
14	C2	28	LEU	4.2
14	c2	141	SER	4.2
17	C5	51	SER	4.2
59	n3	2	SER	4.2
10	S8	200	LYS	4.2
1	2	715	U	4.2
1	6	794	U	4.2
21	c9	112	GLY	4.2
1	6	487	G	4.2
28	D6	73	TYR	4.2
18	c6	141	SER	4.2
34	SR	115	ILE	4.2
36	1	1579	C	4.2
16	C4	110	LEU	4.2
81	e1	109	ASP	4.2
83	p0	69	ASP	4.2
11	S9	3	ARG	4.2
4	S2	86	VAL	4.2
28	d6	45	VAL	4.2
53	M7	159	LYS	4.2
25	D3	107	PHE	4.2
34	sR	49	GLY	4.2

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Mol	Chain	Res	Type	RSRZ
36	5	1569	U	4.2
8	S6	214	LYS	4.2
8	s6	162	VAL	4.2
20	C8	38	VAL	4.2
10	S8	144	ALA	4.2
3	S1	31	ASP	4.2
11	S9	80	LEU	4.2
62	n6	114	ASP	4.2
30	D8	25	VAL	4.2
48	M1	167	TYR	4.2
9	S7	187	SER	4.2
45	L8	57	ARG	4.2
9	S7	81	LEU	4.2
9	s7	108	GLN	4.2
17	c5	31	GLU	4.2
35	SM	106	VAL	4.2
18	c6	36	ILE	4.1
28	D6	40	ALA	4.1
28	D6	47	ALA	4.1
34	sR	26	SER	4.1
55	M9	170	ARG	4.1
60	n4	131	ALA	4.1
11	s9	33	GLU	4.1
21	C9	6	VAL	4.1
34	sR	104	VAL	4.1
45	l8	117	ALA	4.1
1	2	132	U	4.1
9	s7	48	GLU	4.1
58	n2	98	THR	4.1
7	s5	168	VAL	4.1
16	c4	28	VAL	4.1
39	L2	71	LEU	4.1
83	p0	88	PHE	4.1
17	C5	8	LYS	4.1
34	SR	208	GLY	4.1
4	S2	218	ILE	4.1
11	S9	89	ASP	4.1
15	c3	15	ALA	4.1
30	D8	60	GLU	4.1
72	o6	2	THR	4.1
7	s5	90	ILE	4.1
6	S4	56	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
13	C1	91	LEU	4.1
17	C5	59	LYS	4.1
34	sR	223	TRP	4.1
83	p0	26	PHE	4.1
21	c9	131	ASP	4.1
60	N4	79	GLN	4.1
23	D1	22	ARG	4.1
14	C2	63	VAL	4.1
17	C5	76	VAL	4.1
20	C8	70	VAL	4.1
22	d0	21	LYS	4.1
13	C1	93	TYR	4.1
22	d0	103	ILE	4.1
45	l8	36	ILE	4.1
6	s4	261	LEU	4.1
18	C6	52	LEU	4.1
3	s1	232	HIS	4.1
13	C1	89	ALA	4.1
50	m4	9	ALA	4.1
24	D2	63	VAL	4.1
34	sR	4	ASN	4.1
24	D2	69	LEU	4.1
29	D7	79	PHE	4.1
74	O8	69	LEU	4.1
83	p0	86	PHE	4.1
60	n4	130	SER	4.1
74	O8	37	PRO	4.1
1	6	669	G	4.1
36	1	3155	U	4.1
10	S8	104	ILE	4.1
32	E0	45	VAL	4.1
2	S0	102	PHE	4.1
40	l3	387	LEU	4.1
58	N2	12	ALA	4.1
20	c8	17	LEU	4.0
21	c9	34	VAL	4.0
51	M5	22	LEU	4.0
76	q0	77	ILE	4.0
9	S7	74	GLN	4.0
7	S5	179	ALA	4.0
27	d5	87	GLY	4.0
24	D2	33	VAL	4.0

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Mol	Chain	Res	Type	RSRZ
76	q0	128	LYS	4.0
20	C8	64	GLU	4.0
30	D8	62	GLU	4.0
59	n3	3	GLY	4.0
64	N8	94	ALA	4.0
27	D5	97	LYS	4.0
81	e1	143	LYS	4.0
11	S9	105	LEU	4.0
20	C8	105	VAL	4.0
20	c8	14	ILE	4.0
22	D0	99	ILE	4.0
31	D9	43	PHE	4.0
2	S0	144	ILE	4.0
34	sR	210	LEU	4.0
28	D6	51	ARG	4.0
32	E0	61	SER	4.0
34	sR	213	SER	4.0
10	S8	167	ALA	4.0
70	o4	111	ALA	4.0
6	S4	129	VAL	4.0
1	6	656	G	4.0
8	S6	154	ARG	4.0
36	5	1352	A	4.0
12	C0	30	ALA	4.0
36	5	544	C	4.0
3	S1	207	LEU	4.0
8	s6	156	PHE	4.0
63	n7	23	VAL	4.0
3	S1	131	ASP	4.0
14	c2	131	ASP	4.0
20	C8	19	ASN	4.0
5	S3	88	ALA	4.0
34	sR	227	ALA	4.0
3	s1	96	LEU	4.0
8	S6	147	LEU	4.0
17	C5	56	PHE	4.0
10	s8	112	TRP	4.0
20	C8	73	MET	4.0
28	D6	68	TYR	4.0
8	S6	149	LYS	4.0
14	c2	142	GLN	4.0
21	c9	119	LYS	4.0

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Mol	Chain	Res	Type	RSRZ
34	sR	30	PRO	4.0
63	n7	11	ALA	4.0
55	m9	184	LEU	4.0
46	L9	9	GLN	3.9
21	c9	24	ARG	3.9
22	D0	29	THR	3.9
2	S0	199	PRO	3.9
16	C4	137	LEU	3.9
34	SR	211	ILE	3.9
12	C0	20	VAL	3.9
35	SM	172	VAL	3.9
58	N2	83	TYR	3.9
75	O9	46	ARG	3.9
14	c2	136	ILE	3.9
58	N2	38	ILE	3.9
4	S2	232	GLU	3.9
1	2	73	U	3.9
14	c2	61	VAL	3.9
14	c2	116	VAL	3.9
28	D6	9	GLY	3.9
47	m0	194	GLY	3.9
34	sR	181	TRP	3.9
36	5	1566	A	3.9
55	M9	181	ARG	3.9
1	2	491	C	3.9
3	S1	128	LYS	3.9
66	o0	22	LYS	3.9
45	L8	182	GLY	3.9
3	s1	150	VAL	3.9
28	D6	52	ASP	3.9
38	4	81	U	3.9
16	C4	99	GLN	3.9
60	n4	112	ASN	3.9
3	S1	188	LEU	3.9
3	s1	184	LEU	3.9
17	C5	72	LYS	3.9
36	5	1571	A	3.9
34	sR	303	ALA	3.9
55	M9	189	ALA	3.9
3	S1	104	ASP	3.9
36	1	1238	C	3.9
36	1	1577	G	3.9

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Mol	Chain	Res	Type	RSRZ
67	o1	112	ASP	3.9
13	C1	118	GLN	3.9
34	sR	187	GLN	3.9
11	S9	138	LYS	3.9
12	c0	44	LYS	3.9
83	p0	103	ASN	3.9
81	e1	148	TYR	3.9
33	E1	146	SER	3.9
1	2	1797	A	3.9
4	S2	155	ALA	3.9
14	c2	24	ILE	3.9
30	d8	13	ILE	3.9
8	S6	164	LYS	3.9
29	D7	42	ASN	3.9
34	sR	184	ASN	3.9
36	5	1016	C	3.9
36	5	1579	C	3.9
24	D2	130	TYR	3.9
18	C6	141	SER	3.9
5	s3	219	ALA	3.9
16	C4	103	ARG	3.9
21	C9	50	ALA	3.9
9	S7	87	ASP	3.9
24	D2	74	VAL	3.9
30	D8	41	VAL	3.9
61	N5	105	VAL	3.9
66	O0	97	ASP	3.9
1	2	280	U	3.9
5	S3	143	ARG	3.9
61	N5	33	ARG	3.9
48	M1	83	GLY	3.9
7	s5	202	ALA	3.9
20	C8	69	ILE	3.9
11	S9	141	VAL	3.9
11	s9	148	VAL	3.9
9	S7	89	HIS	3.8
18	c6	89	LEU	3.8
10	S8	21	PHE	3.8
74	O8	43	PHE	3.8
14	c2	72	ILE	3.8
68	O2	2	ALA	3.8
8	S6	152	ASP	3.8

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Mol	Chain	Res	Type	RSRZ
13	c1	123	VAL	3.8
83	p0	196	VAL	3.8
5	S3	21	LEU	3.8
7	S5	58	LEU	3.8
9	s7	58	LEU	3.8
10	s8	165	LEU	3.8
11	S9	116	LEU	3.8
14	C2	52	LEU	3.8
36	5	1350	A	3.8
2	s0	95	ALA	3.8
14	c2	128	ALA	3.8
30	d8	63	ALA	3.8
6	S4	168	LYS	3.8
64	N8	98	THR	3.8
3	S1	86	LEU	3.8
36	1	1815	U	3.8
48	M1	112	LEU	3.8
81	e1	151	ASN	3.8
14	c2	77	GLY	3.8
5	S3	50	ILE	3.8
27	d5	89	ILE	3.8
48	M1	119	SER	3.8
5	S3	54	ARG	3.8
20	C8	29	VAL	3.8
72	O6	56	ARG	3.8
3	S1	95	ASN	3.8
20	c8	8	GLN	3.8
2	S0	160	ILE	3.8
24	D2	55	ASP	3.8
30	D8	6	PRO	3.8
34	sR	315	VAL	3.8
13	C1	71	LEU	3.8
24	D2	73	GLY	3.8
36	5	249	U	3.8
3	S1	142	PHE	3.8
12	C0	13	GLN	3.8
60	n4	97	LYS	3.8
27	d5	88	ILE	3.8
11	S9	4	ALA	3.8
27	d5	104	ALA	3.8
33	E1	137	ASP	3.8
47	m0	195	ALA	3.8

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Mol	Chain	Res	Type	RSRZ
14	C2	58	LEU	3.8
15	C3	80	LEU	3.8
1	2	1052	U	3.8
6	S4	124	GLY	3.8
73	o7	2	GLY	3.8
17	C5	33	PHE	3.8
5	S3	18	TYR	3.8
61	N5	142	ILE	3.8
39	l2	249	SER	3.8
11	S9	86	LEU	3.8
16	c4	62	LEU	3.8
16	c4	102	LEU	3.8
36	5	252	U	3.8
1	6	1694	A	3.8
3	S1	52	THR	3.8
6	s4	256	ARG	3.8
30	d8	67	ARG	3.8
12	c0	43	ILE	3.8
18	C6	92	TYR	3.8
3	S1	120	LEU	3.8
24	D2	6	VAL	3.8
83	p0	99	VAL	3.8
5	S3	183	GLY	3.8
8	S6	165	GLY	3.8
29	d7	59	CYS	3.8
5	s3	44	THR	3.8
34	sR	74	THR	3.8
58	n2	108	TYR	3.7
17	C5	27	GLU	3.7
62	n6	127	GLU	3.7
14	c2	112	ALA	3.7
15	C3	23	PRO	3.7
81	e1	101	ALA	3.7
2	s0	73	VAL	3.7
9	S7	69	GLY	3.7
7	S5	43	PHE	3.7
28	D6	80	HIS	3.7
71	o5	83	LYS	3.7
9	S7	33	GLU	3.7
45	L8	156	ASP	3.7
4	S2	154	LEU	3.7
3	S1	215	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
5	s3	15	GLY	3.7
6	S4	25	GLY	3.7
18	c6	39	VAL	3.7
21	c9	37	VAL	3.7
22	d0	16	GLN	3.7
81	e1	92	LYS	3.7
35	sM	168	GLU	3.7
35	sM	173	GLU	3.7
58	N2	52	ASN	3.7
7	s5	68	ILE	3.7
34	sR	177	MET	3.7
28	D6	59	TYR	3.7
5	S3	72	LEU	3.7
24	D2	26	LEU	3.7
52	M6	185	ALA	3.7
49	M3	192	GLU	3.7
1	6	719	U	3.7
11	S9	38	ASN	3.7
6	S4	54	TYR	3.7
8	S6	170	THR	3.7
12	c0	79	TYR	3.7
22	D0	102	ARG	3.7
3	s1	110	LEU	3.7
45	l8	26	LEU	3.7
28	D6	20	PRO	3.7
63	n7	12	VAL	3.7
24	D2	85	ASP	3.7
34	sR	134	TRP	3.7
67	O1	6	ASP	3.7
12	c0	65	TYR	3.7
45	L8	93	LEU	3.7
30	D8	63	ALA	3.7
63	n7	13	VAL	3.7
13	c1	20	PHE	3.7
33	E1	119	ARG	3.7
25	D3	57	LEU	3.7
61	N5	34	LEU	3.7
3	S1	28	GLU	3.7
30	d8	59	SER	3.7
81	e1	115	THR	3.7
30	d8	44	VAL	3.7
58	n2	95	PHE	3.7

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Mol	Chain	Res	Type	RSRZ
3	S1	85	LYS	3.7
5	S3	75	LYS	3.7
7	S5	148	ARG	3.7
83	p0	75	LYS	3.7
34	sR	92	TRP	3.7
11	S9	90	LYS	3.7
21	c9	134	ARG	3.7
6	S4	228	ILE	3.7
7	S5	68	ILE	3.7
7	s5	145	ASP	3.7
20	C8	35	ILE	3.7
7	s5	158	GLN	3.7
22	D0	111	GLY	3.7
23	d1	41	GLU	3.7
48	M1	79	ILE	3.7
45	L8	63	LYS	3.7
2	S0	84	ARG	3.7
29	d7	58	SER	3.7
34	sR	102	ARG	3.7
7	S5	140	THR	3.6
14	C2	101	ALA	3.6
45	L8	90	THR	3.6
80	e0	50	VAL	3.6
2	s0	184	LEU	3.6
27	D5	46	LYS	3.6
14	c2	46	ARG	3.6
3	S1	156	ALA	3.6
14	C2	66	VAL	3.6
25	D3	6	PRO	3.6
35	SM	17	VAL	3.6
63	n7	92	PHE	3.6
70	O4	111	ALA	3.6
72	O6	96	ALA	3.6
12	c0	70	GLU	3.6
23	D1	10	GLU	3.6
11	S9	29	LYS	3.6
12	c0	25	LYS	3.6
58	n2	18	ASP	3.6
1	6	493	U	3.6
14	C2	36	LEU	3.6
28	D6	71	LEU	3.6
3	S1	103	MET	3.6

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Mol	Chain	Res	Type	RSRZ
81	e1	106	TYR	3.6
7	s5	48	PHE	3.6
8	s6	217	SER	3.6
5	S3	138	VAL	3.6
14	C2	126	TRP	3.6
81	e1	78	LYS	3.6
36	5	1103	A	3.6
20	C8	65	GLU	3.6
61	n5	60	TYR	3.6
1	2	716	C	3.6
16	C4	119	THR	3.6
5	S3	27	ARG	3.6
17	c5	32	ASP	3.6
2	s0	3	LEU	3.6
4	S2	162	CYS	3.6
30	d8	56	LEU	3.6
15	C3	26	PHE	3.6
83	p0	190	VAL	3.6
34	SR	52	GLN	3.6
36	1	1574	C	3.6
1	6	673	A	3.6
58	n2	54	VAL	3.6
7	S5	158	GLN	3.6
16	C4	17	ALA	3.6
34	SR	78	ALA	3.6
34	sR	51	ASP	3.6
55	M9	50	ILE	3.6
36	1	544	C	3.6
5	S3	25	PHE	3.6
51	m5	59	PHE	3.6
24	D2	46	TYR	3.6
61	N5	124	VAL	3.6
63	n7	10	VAL	3.6
3	S1	147	ALA	3.6
13	C1	144	ALA	3.6
35	SM	90	ALA	3.6
47	M0	221	ALA	3.6
70	O4	32	ALA	3.6
2	s0	195	TRP	3.6
8	s6	216	LEU	3.6
21	C9	28	LEU	3.6
21	c9	126	GLU	3.6

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Mol	Chain	Res	Type	RSRZ
26	d4	26	ASP	3.6
22	D0	67	THR	3.6
21	c9	14	PHE	3.6
32	E0	42	ARG	3.6
3	S1	21	VAL	3.6
28	D6	2	PRO	3.6
28	D6	55	GLU	3.6
29	d7	33	LEU	3.6
23	D1	34	ILE	3.6
1	6	754	A	3.5
29	D7	77	THR	3.5
24	D2	70	ASN	3.5
7	S5	23	VAL	3.5
7	S5	134	VAL	3.5
7	s5	123	VAL	3.5
9	S7	142	TYR	3.5
11	S9	64	GLU	3.5
14	c2	121	VAL	3.5
58	n2	34	ALA	3.5
70	O4	109	THR	3.5
3	S1	44	GLY	3.5
14	C2	138	GLU	3.5
15	C3	59	GLY	3.5
6	S4	225	VAL	3.5
6	S4	207	LEU	3.5
9	S7	77	LEU	3.5
17	C5	66	ALA	3.5
20	C8	23	ASP	3.5
21	c9	35	ASP	3.5
10	s8	183	ILE	3.5
24	D2	68	ARG	3.5
26	D4	41	ARG	3.5
29	D7	36	LYS	3.5
33	E1	83	LYS	3.5
34	sR	137	LYS	3.5
11	s9	147	MET	3.5
71	o5	27	GLU	3.5
81	e1	134	ASN	3.5
46	l9	75	VAL	3.5
55	m9	22	VAL	3.5
3	S1	35	PRO	3.5
3	s1	152	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
4	S2	84	LYS	3.5
7	S5	25	LEU	3.5
20	C8	16	ARG	3.5
27	D5	67	ASP	3.5
35	SM	22	PRO	3.5
74	o8	37	PRO	3.5
11	S9	45	ILE	3.5
1	2	488	G	3.5
58	n2	14	THR	3.5
2	S0	2	SER	3.5
2	S0	146	LEU	3.5
5	s3	221	SER	3.5
28	D6	18	VAL	3.5
33	E1	105	TYR	3.5
81	e1	126	CYS	3.5
11	S9	52	ILE	3.5
28	D6	49	ALA	3.5
66	o0	42	ILE	3.5
3	S1	83	LYS	3.5
14	c2	113	ARG	3.5
3	S1	91	VAL	3.5
6	S4	24	SER	3.5
14	c2	93	ASP	3.5
24	D2	76	SER	3.5
34	SR	165	ASP	3.5
74	O8	13	GLU	3.5
6	S4	258	GLN	3.5
36	5	1025	A	3.5
5	S3	111	ASN	3.5
11	S9	97	LEU	3.5
21	C9	29	GLU	3.5
81	e1	146	SER	3.5
11	S9	67	PRO	3.5
36	1	2206	G	3.5
63	n7	41	ALA	3.5
68	O2	127	ALA	3.5
1	2	133	U	3.5
1	6	1707	A	3.5
36	5	545	U	3.5
3	s1	234	GLU	3.5
18	C6	54	LEU	3.5
24	D2	11	LEU	3.5

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Mol	Chain	Res	Type	RSRZ
34	SR	181	TRP	3.5
42	L5	293	LEU	3.5
66	o0	56	LEU	3.5
23	D1	51	VAL	3.5
61	N5	22	LYS	3.5
14	C2	128	ALA	3.5
60	N4	98	PRO	3.5
11	S9	54	ARG	3.5
16	c4	15	GLY	3.5
21	c9	51	GLU	3.4
23	D1	36	VAL	3.4
58	n2	65	VAL	3.4
10	s8	150	ALA	3.4
13	c1	113	PRO	3.4
42	l5	296	GLN	3.4
55	M9	183	ALA	3.4
57	N1	88	ARG	3.4
3	S1	75	GLY	3.4
63	N7	92	PHE	3.4
5	S3	137	VAL	3.4
23	D1	76	ASP	3.4
45	l8	203	VAL	3.4
6	S4	236	ILE	3.4
6	S4	254	ARG	3.4
27	D5	47	TYR	3.4
10	s8	109	PHE	3.4
20	C8	55	HIS	3.4
35	SM	105	LYS	3.4
66	o0	32	LYS	3.4
12	C0	40	LEU	3.4
8	S6	196	ARG	3.4
27	d5	68	ARG	3.4
11	S9	35	GLY	3.4
34	SR	250	TYR	3.4
19	c7	111	LYS	3.4
22	D0	96	PRO	3.4
36	1	1243	G	3.4
10	s8	116	HIS	3.4
14	c2	41	LEU	3.4
20	C8	15	LEU	3.4
11	S9	53	ARG	3.4
33	E1	114	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	2	237	C	3.4
45	l8	174	GLY	3.4
74	O8	74	LYS	3.4
60	n4	72	SER	3.4
61	N5	41	ALA	3.4
2	s0	41	ARG	3.4
7	s5	165	LEU	3.4
1	6	675	U	3.4
14	c2	90	LYS	3.4
27	D5	98	GLN	3.4
74	O8	28	ASN	3.4
11	S9	113	VAL	3.4
24	D2	25	VAL	3.4
3	S1	138	PHE	3.4
9	S7	59	ALA	3.4
16	C4	101	ALA	3.4
60	N4	73	ARG	3.4
9	S7	145	GLY	3.4
9	s7	49	ILE	3.4
66	o0	92	ILE	3.4
13	c1	60	PHE	3.4
16	C4	27	PHE	3.4
34	sR	103	PHE	3.4
7	S5	125	THR	3.4
13	c1	6	THR	3.4
14	c2	23	THR	3.4
6	S4	12	LEU	3.4
14	C2	78	LEU	3.4
33	E1	117	LEU	3.4
45	l8	162	LEU	3.4
34	sR	185	GLN	3.4
22	D0	65	ILE	3.4
30	D8	28	VAL	3.4
21	c9	80	TYR	3.4
3	s1	126	THR	3.4
14	C2	69	ALA	3.4
8	s6	212	LEU	3.4
20	C8	77	THR	3.4
28	d6	49	ALA	3.4
22	d0	46	GLU	3.4
14	c2	70	ASN	3.4
14	c2	81	ASP	3.4

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Mol	Chain	Res	Type	RSRZ
32	E0	51	ASN	3.4
7	S5	24	VAL	3.4
16	c4	112	ILE	3.4
17	C5	35	LYS	3.4
18	c6	29	ILE	3.4
11	S9	104	PHE	3.3
8	S6	124	LEU	3.3
14	C2	74	LEU	3.3
20	c8	66	LEU	3.3
55	M9	185	LEU	3.3
67	O1	40	ALA	3.3
21	c9	23	GLN	3.3
9	s7	175	LYS	3.3
14	c2	54	ARG	3.3
23	d1	39	VAL	3.3
27	D5	54	VAL	3.3
29	d7	62	ILE	3.3
34	SR	156	VAL	3.3
38	8	158	U	3.3
11	S9	102	GLU	3.3
11	s9	76	LEU	3.3
13	c1	71	LEU	3.3
20	c8	116	LEU	3.3
71	o5	21	LEU	3.3
8	s6	167	LYS	3.3
53	M7	164	LYS	3.3
7	S5	157	ARG	3.3
12	c0	96	ASN	3.3
19	C7	71	PHE	3.3
33	E1	102	VAL	3.3
45	L8	94	PHE	3.3
46	L9	144	ILE	3.3
81	e1	84	VAL	3.3
5	S3	182	LEU	3.3
7	s5	198	LEU	3.3
52	M6	165	ALA	3.3
1	6	229	U	3.3
5	S3	213	GLU	3.3
16	C4	81	VAL	3.3
34	SR	310	ILE	3.3
15	C3	27	LYS	3.3
3	S1	97	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
5	s3	218	LEU	3.3
6	S4	23	LEU	3.3
35	SM	9	GLY	3.3
13	c1	47	THR	3.3
3	S1	113	MET	3.3
14	C2	71	ILE	3.3
16	C4	72	LYS	3.3
23	D1	32	VAL	3.3
45	l8	116	VAL	3.3
14	C2	55	GLY	3.3
34	sR	230	ALA	3.3
14	c2	73	LYS	3.3
20	C8	56	LYS	3.3
29	D7	44	THR	3.3
81	e1	96	LYS	3.3
3	S1	193	ILE	3.3
40	L3	89	VAL	3.3
6	S4	256	ARG	3.3
27	D5	37	GLN	3.3
83	p0	195	GLN	3.3
42	L5	226	TYR	3.3
48	M1	118	PRO	3.3
6	S4	176	ASP	3.3
55	M9	188	ASP	3.3
3	s1	173	THR	3.3
6	S4	64	ILE	3.3
31	d9	31	ILE	3.3
5	S3	178	ARG	3.3
36	1	1578	C	3.3
36	5	2507	C	3.3
1	2	232	U	3.3
21	C9	108	LEU	3.3
36	1	1765	U	3.3
45	l8	245	LYS	3.3
46	L9	11	GLU	3.3
7	S5	211	ILE	3.3
24	D2	128	PHE	3.3
30	D8	29	ARG	3.3
17	c5	34	VAL	3.3
60	n4	76	VAL	3.3
61	n5	99	VAL	3.3
14	C2	41	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
21	c9	33	TYR	3.3
52	m6	183	ALA	3.2
7	s5	225	ARG	3.2
3	S1	171	ILE	3.2
13	c1	54	ILE	3.2
28	D6	30	ILE	3.2
3	s1	68	VAL	3.2
29	d7	5	GLN	3.2
9	S7	7	LYS	3.2
45	L8	157	VAL	3.2
70	o4	21	LYS	3.2
80	e0	47	VAL	3.2
83	p0	28	VAL	3.2
22	d0	94	GLU	3.2
35	SM	151	LEU	3.2
42	L5	126	GLU	3.2
55	m9	152	GLU	3.2
5	S3	36	GLY	3.2
51	m5	58	GLY	3.2
58	N2	33	TYR	3.2
31	d9	22	ARG	3.2
36	5	1562	C	3.2
49	M3	191	ALA	3.2
5	S3	107	PHE	3.2
5	S3	184	ILE	3.2
8	s6	149	LYS	3.2
58	N2	93	ILE	3.2
74	O8	56	ILE	3.2
3	s1	228	LEU	3.2
66	o0	89	VAL	3.2
74	o8	69	LEU	3.2
21	c9	32	GLY	3.2
2	S0	113	ARG	3.2
35	sM	167	PRO	3.2
40	L3	154	TYR	3.2
62	n6	120	GLN	3.2
6	S4	70	VAL	3.2
11	S9	60	LEU	3.2
15	C3	60	VAL	3.2
17	C5	36	LEU	3.2
78	Q2	104	LEU	3.2
23	D1	20	THR	3.2

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Mol	Chain	Res	Type	RSRZ
36	1	1954	G	3.2
36	5	1765	U	3.2
2	S0	127	ARG	3.2
12	C0	24	LYS	3.2
24	D2	72	CYS	3.2
25	d3	145	SER	3.2
34	sR	107	LYS	3.2
45	l8	106	LYS	3.2
3	s1	123	ALA	3.2
3	s1	139	ALA	3.2
18	c6	3	ALA	3.2
40	L3	51	ALA	3.2
4	S2	250	GLN	3.2
49	M3	155	GLU	3.2
13	c1	139	VAL	3.2
34	SR	23	LEU	3.2
36	1	1951	C	3.2
30	D8	64	ARG	3.2
60	N4	70	LYS	3.2
34	SR	3	SER	3.2
83	p0	218	SER	3.2
14	c2	87	PRO	3.2
24	D2	101	TYR	3.2
27	D5	57	TYR	3.2
34	sR	2	ALA	3.2
11	S9	36	LEU	3.2
22	D0	21	LYS	3.2
29	D7	80	ARG	3.2
1	2	230	C	3.2
2	S0	124	THR	3.2
36	1	1095	U	3.2
24	d2	55	ASP	3.2
34	sR	5	GLU	3.2
65	N9	26	THR	3.2
4	S2	143	TYR	3.2
42	L5	90	HIS	3.2
11	s9	2	PRO	3.2
4	S2	169	LEU	3.2
6	S4	52	LEU	3.2
6	S4	90	ILE	3.2
14	C2	33	ARG	3.2
15	C3	92	ILE	3.2

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Mol	Chain	Res	Type	RSRZ
42	L5	92	LEU	3.2
20	c8	52	VAL	3.2
21	c9	109	GLU	3.2
36	1	1764	U	3.2
24	D2	5	SER	3.2
11	s9	104	PHE	3.2
39	L2	46	LYS	3.2
63	n7	52	LYS	3.2
7	s5	157	ARG	3.2
20	C8	102	ALA	3.2
23	d1	83	TRP	3.2
34	SR	279	ALA	3.2
45	L8	76	ALA	3.2
2	S0	18	LEU	3.2
16	C4	44	GLY	3.2
74	O8	27	ILE	3.2
83	p0	184	GLY	3.2
63	N7	95	VAL	3.2
36	5	1580	A	3.2
4	s2	84	LYS	3.2
17	C5	52	LYS	3.2
25	D3	139	LYS	3.2
36	1	1269	U	3.2
49	m3	152	THR	3.2
81	e1	104	SER	3.2
2	S0	107	PHE	3.2
2	s0	4	PRO	3.2
10	S8	65	PHE	3.2
6	S4	244	ILE	3.2
14	C2	100	TRP	3.2
14	c2	55	GLY	3.2
16	C4	102	LEU	3.2
22	d0	65	ILE	3.2
57	N1	75	ILE	3.2
66	o0	34	LEU	3.2
71	o5	28	LEU	3.2
13	C1	117	VAL	3.1
26	D4	15	ASN	3.1
1	6	231	U	3.1
12	C0	93	GLN	3.1
20	C8	74	GLN	3.1
61	n5	106	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
13	C1	13	PHE	3.1
72	o6	64	SER	3.1
1	2	235	G	3.1
1	6	677	G	3.1
17	c5	107	ILE	3.1
7	S5	33	VAL	3.1
13	C1	139	VAL	3.1
34	sR	161	LYS	3.1
34	sR	316	MET	3.1
1	2	493	U	3.1
14	c2	102	GLY	3.1
27	d5	105	THR	3.1
34	sR	141	LEU	3.1
61	n5	113	LEU	3.1
9	S7	76	LYS	3.1
70	o4	22	VAL	3.1
6	S4	100	ARG	3.1
26	D4	90	ARG	3.1
1	2	912	U	3.1
27	D5	38	HIS	3.1
36	5	2542	U	3.1
36	5	2873	U	3.1
6	S4	22	LYS	3.1
16	c4	98	GLY	3.1
20	C8	10	SER	3.1
30	d8	58	GLU	3.1
34	SR	189	GLU	3.1
56	n0	17	GLU	3.1
58	n2	15	PHE	3.1
67	o1	111	GLU	3.1
14	C2	32	LEU	3.1
15	C3	53	LEU	3.1
9	S7	91	ILE	3.1
42	L5	65	ILE	3.1
57	n1	44	ALA	3.1
75	o9	16	ALA	3.1
12	c0	61	TRP	3.1
14	c2	22	VAL	3.1
20	c8	144	ARG	3.1
21	c9	130	ARG	3.1
31	D9	23	VAL	3.1
33	E1	121	CYS	3.1

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Mol	Chain	Res	Type	RSRZ
63	n7	96	VAL	3.1
70	O4	22	VAL	3.1
3	s1	219	LYS	3.1
29	d7	82	LYS	3.1
35	sM	171	LYS	3.1
70	o4	103	LYS	3.1
22	D0	48	HIS	3.1
30	d8	32	PHE	3.1
45	l8	91	PHE	3.1
7	S5	198	LEU	3.1
26	D4	17	LEU	3.1
36	5	1031	C	3.1
83	p0	24	SER	3.1
18	C6	81	ILE	3.1
21	C9	55	TYR	3.1
70	O4	20	ILE	3.1
71	o5	39	PRO	3.1
4	s2	166	THR	3.1
5	S3	28	GLU	3.1
12	C0	28	ASN	3.1
22	d0	13	GLU	3.1
45	l8	92	LYS	3.1
67	o1	81	GLU	3.1
16	c4	27	PHE	3.1
2	S0	120	LEU	3.1
2	s0	59	LEU	3.1
24	D2	65	LEU	3.1
27	d5	38	HIS	3.1
6	S4	45	ILE	3.1
27	D5	50	ILE	3.1
5	S3	147	ALA	3.1
34	SR	284	ALA	3.1
66	o0	7	GLN	3.1
16	c4	67	VAL	3.1
42	L5	144	VAL	3.1
71	o5	119	LYS	3.1
23	D1	21	ASN	3.1
36	1	440	A	3.1
16	C4	114	ARG	3.1
45	L8	189	LEU	3.1
2	S0	122	ILE	3.1
34	sR	170	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
8	S6	172	ALA	3.1
10	s8	151	LYS	3.1
18	C6	26	LYS	3.1
20	c8	71	GLN	3.1
78	Q2	15	LYS	3.1
13	C1	78	THR	3.1
35	SM	81	THR	3.1
46	l9	189	GLU	3.1
1	2	717	C	3.1
5	S3	136	VAL	3.1
3	S1	132	ASP	3.1
19	C7	101	ASN	3.1
3	S1	82	ARG	3.1
6	s4	101	LEU	3.1
12	C0	80	LEU	3.1
13	C1	116	ARG	3.1
34	SR	186	PHE	3.1
1	6	225	A	3.1
1	6	240	U	3.1
7	s5	130	ILE	3.1
23	D1	18	SER	3.1
38	8	79	A	3.1
83	p0	81	LYS	3.1
39	l2	48	ILE	3.1
3	s1	74	GLN	3.1
27	d5	58	ARG	3.0
7	S5	175	LEU	3.0
28	D6	66	LYS	3.0
34	sR	294	TRP	3.0
3	s1	179	SER	3.0
4	s2	248	SER	3.0
6	s4	225	VAL	3.0
7	S5	70	VAL	3.0
3	S1	213	ARG	3.0
8	s6	215	ARG	3.0
16	C4	93	THR	3.0
31	d9	23	VAL	3.0
42	l5	135	VAL	3.0
28	D6	16	GLY	3.0
40	l3	141	GLY	3.0
55	M9	182	ASP	3.0
3	S1	30	PHE	3.0

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Mol	Chain	Res	Type	RSRZ
13	c1	115	PHE	3.0
47	m0	217	PHE	3.0
42	l5	128	GLU	3.0
4	S2	35	TRP	3.0
34	sR	313	TRP	3.0
2	S0	126	PRO	3.0
17	C5	17	TYR	3.0
6	s4	165	ALA	3.0
20	C8	36	LYS	3.0
52	m6	181	ALA	3.0
71	O5	14	LYS	3.0
73	o7	86	ALA	3.0
5	s3	16	VAL	3.0
20	C8	9	GLY	3.0
21	C9	34	VAL	3.0
57	n1	124	VAL	3.0
2	S0	203	PHE	3.0
14	c2	140	PHE	3.0
16	C4	105	LEU	3.0
27	D5	65	LEU	3.0
42	L5	133	GLU	3.0
45	l8	142	LEU	3.0
7	S5	35	GLN	3.0
78	Q2	105	GLN	3.0
4	S2	164	SER	3.0
21	c9	116	ILE	3.0
23	D1	23	ILE	3.0
24	D2	110	ILE	3.0
74	o8	74	LYS	3.0
5	S3	124	ARG	3.0
6	s4	59	ARG	3.0
60	N4	94	ARG	3.0
65	N9	27	TYR	3.0
16	C4	42	VAL	3.0
64	n8	125	VAL	3.0
2	s0	129	ASP	3.0
4	s2	240	LEU	3.0
5	S3	152	PHE	3.0
6	s4	226	PHE	3.0
17	c5	27	GLU	3.0
14	C2	49	THR	3.0
55	M9	164	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
61	n5	108	LEU	3.0
70	O4	7	PHE	3.0
39	L2	253	GLN	3.0
81	e1	116	LYS	3.0
4	s2	97	ARG	3.0
28	d6	68	TYR	3.0
8	S6	213	ALA	3.0
17	c5	20	VAL	3.0
25	D3	127	VAL	3.0
36	5	1023	C	3.0
4	s2	224	PHE	3.0
5	S3	177	MET	3.0
14	c2	28	LEU	3.0
42	L5	185	PHE	3.0
42	L5	236	LEU	3.0
7	S5	66	GLN	3.0
10	s8	74	LYS	3.0
34	SR	308	ASN	3.0
34	sR	48	THR	3.0
35	sM	49	LYS	3.0
35	sM	162	GLN	3.0
13	c1	82	ARG	3.0
15	c3	106	ARG	3.0
36	5	2540	A	3.0
58	N2	41	ILE	3.0
7	S5	208	SER	3.0
12	C0	66	TYR	3.0
24	D2	21	GLY	3.0
24	D2	49	GLU	3.0
70	o4	27	GLY	3.0
12	c0	20	VAL	3.0
17	C5	11	VAL	3.0
23	D1	82	VAL	3.0
3	s1	24	PHE	3.0
13	c1	42	PHE	3.0
18	C6	28	LEU	3.0
26	D4	125	LEU	3.0
72	o6	11	LEU	3.0
81	e1	89	LYS	3.0
8	S6	168	THR	3.0
17	C5	108	ARG	3.0
20	c8	78	HIS	3.0

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Mol	Chain	Res	Type	RSRZ
25	d3	18	HIS	3.0
45	l8	75	ILE	3.0
73	o7	12	HIS	3.0
21	C9	40	SER	3.0
66	o0	94	GLU	3.0
1	2	217	A	3.0
3	S1	93	GLY	3.0
15	C3	141	TYR	3.0
24	D2	52	TYR	3.0
46	L9	45	PHE	3.0
18	C6	21	HIS	3.0
29	D7	57	GLU	3.0
9	S7	101	LYS	3.0
63	n7	21	LYS	3.0
74	O8	63	LYS	3.0
51	m5	62	TYR	3.0
16	c4	74	VAL	3.0
21	C9	49	ASP	3.0
34	sR	50	ASP	3.0
3	s1	217	LEU	3.0
5	S3	40	ARG	3.0
13	C1	5	LEU	3.0
13	C1	30	ARG	3.0
22	D0	16	GLN	3.0
23	d1	44	ARG	3.0
36	1	1103	A	3.0
40	l3	146	ARG	3.0
1	6	234	G	3.0
5	s3	45	LYS	3.0
24	D2	103	ILE	3.0
34	SR	122	ILE	3.0
70	o4	29	ILE	3.0
36	5	1762	C	2.9
70	O4	66	SER	2.9
5	S3	76	ARG	2.9
6	S4	101	LEU	2.9
7	S5	145	ASP	2.9
11	S9	125	ALA	2.9
20	C8	68	ARG	2.9
21	C9	80	TYR	2.9
23	D1	53	TYR	2.9
28	D6	92	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
32	E0	40	TYR	2.9
33	E1	131	PHE	2.9
46	L9	48	VAL	2.9
56	N0	24	LEU	2.9
21	c9	27	LYS	2.9
17	C5	84	ILE	2.9
58	n2	93	ILE	2.9
1	6	1698	G	2.9
20	C8	20	THR	2.9
8	S6	224	ALA	2.9
15	c3	150	VAL	2.9
17	C5	37	ALA	2.9
28	d6	96	ALA	2.9
41	l4	219	LEU	2.9
24	D2	32	LYS	2.9
45	l8	164	VAL	2.9
57	N1	33	VAL	2.9
8	S6	150	GLU	2.9
1	2	678	A	2.9
21	c9	15	ILE	2.9
28	D6	36	ILE	2.9
46	L9	10	ILE	2.9
48	M1	122	ILE	2.9
10	s8	179	CYS	2.9
36	5	3155	U	2.9
60	N4	72	SER	2.9
14	c2	107	ASP	2.9
15	C3	149	LEU	2.9
22	D0	64	LYS	2.9
45	l8	136	LEU	2.9
49	m3	190	LYS	2.9
51	M5	7	LEU	2.9
74	O8	12	LEU	2.9
9	s7	20	VAL	2.9
22	d0	114	VAL	2.9
24	D2	81	VAL	2.9
27	D5	58	ARG	2.9
32	E0	46	ASN	2.9
14	c2	26	ASP	2.9
14	c2	132	GLU	2.9
70	O4	33	GLN	2.9
63	N7	70	PRO	2.9

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Mol	Chain	Res	Type	RSRZ
24	D2	10	ALA	2.9
74	O8	20	VAL	2.9
79	q3	92	ALA	2.9
3	S1	53	GLY	2.9
7	s5	92	ARG	2.9
33	E1	149	LYS	2.9
64	n8	118	ILE	2.9
42	L5	216	GLU	2.9
20	c8	20	THR	2.9
34	sR	292	LEU	2.9
4	S2	85	PRO	2.9
13	C1	97	TYR	2.9
18	C6	5	PRO	2.9
2	S0	139	VAL	2.9
28	D6	96	ALA	2.9
36	5	2401	A	2.9
45	L8	58	VAL	2.9
62	n6	43	TYR	2.9
14	c2	43	ARG	2.9
29	d7	80	ARG	2.9
39	L2	72	ARG	2.9
55	M9	151	ARG	2.9
13	C1	68	GLY	2.9
19	C7	122	ILE	2.9
3	S1	101	HIS	2.9
12	c0	94	GLU	2.9
64	n8	120	ASN	2.9
22	D0	15	GLN	2.9
5	S3	24	PHE	2.9
5	s3	176	LEU	2.9
33	E1	122	SER	2.9
45	L8	238	LEU	2.9
66	o0	103	THR	2.9
2	s0	40	ALA	2.9
12	c0	23	ALA	2.9
19	c7	90	ALA	2.9
21	c9	66	TYR	2.9
58	n2	13	LYS	2.9
81	e1	147	VAL	2.9
83	p0	59	VAL	2.9
31	D9	38	ILE	2.9
31	d9	38	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
35	SM	168	GLU	2.9
24	D2	89	TRP	2.9
12	C0	76	LEU	2.9
18	c6	44	LEU	2.9
23	d1	8	LEU	2.9
27	D5	93	SER	2.9
34	sR	61	PHE	2.9
75	o9	23	LEU	2.9
2	s0	84	ARG	2.9
29	D7	81	ARG	2.9
61	n5	120	LYS	2.9
6	S4	121	TYR	2.9
11	s9	95	TYR	2.9
12	C0	22	VAL	2.9
59	N3	137	VAL	2.9
61	n5	103	TYR	2.9
67	o1	109	VAL	2.9
79	Q3	90	VAL	2.9
16	c4	63	ALA	2.9
26	D4	97	ALA	2.9
24	D2	61	ILE	2.9
42	L5	231	ILE	2.9
3	S1	183	GLN	2.9
6	S4	130	GLN	2.9
20	C8	104	ASN	2.9
26	D4	44	LEU	2.9
74	O8	30	LYS	2.9
3	S1	59	ASP	2.9
9	S7	79	ARG	2.9
22	d0	113	ASP	2.9
31	D9	52	PHE	2.9
10	s8	69	SER	2.9
3	s1	20	VAL	2.8
14	C2	130	THR	2.8
22	D0	94	GLU	2.8
45	l8	107	GLU	2.8
74	O8	55	VAL	2.8
34	SR	2	ALA	2.8
36	1	765	C	2.8
1	2	677	G	2.8
7	S5	172	ILE	2.8
17	C5	104	GLN	2.8

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Mol	Chain	Res	Type	RSRZ
24	D2	111	MET	2.8
40	l3	139	GLN	2.8
45	L8	179	ILE	2.8
5	S3	151	LYS	2.8
27	d5	82	HIS	2.8
45	L8	183	LYS	2.8
45	L8	240	ASN	2.8
58	N2	87	ASN	2.8
25	d3	34	LEU	2.8
36	1	2445	A	2.8
49	M3	153	ASP	2.8
83	p0	66	PHE	2.8
8	S6	153	VAL	2.8
61	N5	99	VAL	2.8
14	C2	92	ALA	2.8
34	SR	232	TYR	2.8
83	p0	22	TYR	2.8
14	C2	137	MET	2.8
16	c4	76	ILE	2.8
18	C6	36	ILE	2.8
20	C8	14	ILE	2.8
29	D7	51	GLN	2.8
46	L9	4	ILE	2.8
63	N7	46	ILE	2.8
9	s7	97	ARG	2.8
29	d7	17	ARG	2.8
63	n7	135	ARG	2.8
24	D2	126	LEU	2.8
61	n5	102	LEU	2.8
83	p0	70	LEU	2.8
83	p0	206	ASP	2.8
28	D6	24	VAL	2.8
36	1	1270	A	2.8
38	4	82	U	2.8
10	s8	118	GLY	2.8
11	S9	185	GLY	2.8
40	L3	41	VAL	2.8
16	c4	50	ALA	2.8
20	C8	42	TYR	2.8
7	S5	86	GLN	2.8
58	N2	14	THR	2.8
58	n2	106	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
4	S2	139	ILE	2.8
72	o6	9	ILE	2.8
31	d9	36	LEU	2.8
32	E0	39	LEU	2.8
33	E1	132	LEU	2.8
67	o1	4	LEU	2.8
24	D2	50	PHE	2.8
61	n5	58	ASP	2.8
13	c1	24	LYS	2.8
21	c9	53	TRP	2.8
22	D0	30	LYS	2.8
28	D6	3	LYS	2.8
81	e1	107	LYS	2.8
60	n4	135	SER	2.8
58	n2	27	VAL	2.8
66	o0	17	VAL	2.8
18	C6	114	ARG	2.8
61	n5	85	GLN	2.8
70	o4	33	GLN	2.8
38	8	80	A	2.8
12	C0	35	ILE	2.8
3	S1	67	GLU	2.8
61	n5	64	GLU	2.8
4	s2	245	ASP	2.8
11	s9	146	PHE	2.8
13	C1	153	PHE	2.8
13	c1	43	LYS	2.8
45	l8	254	ASP	2.8
64	n8	92	LYS	2.8
1	6	1059	U	2.8
2	S0	128	SER	2.8
33	E1	104	SER	2.8
2	S0	45	VAL	2.8
2	S0	131	GLN	2.8
6	S4	160	VAL	2.8
74	O8	16	ARG	2.8
9	S7	82	GLU	2.8
51	m5	142	ILE	2.8
60	n4	75	THR	2.8
26	D4	40	LEU	2.8
71	O5	12	LYS	2.8
83	p0	213	PHE	2.8

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Mol	Chain	Res	Type	RSRZ
14	C2	43	ARG	2.8
41	L4	2	SER	2.8
80	e0	55	ARG	2.8
14	c2	37	VAL	2.8
21	c9	114	VAL	2.8
6	S4	257	ALA	2.8
13	C1	38	ALA	2.8
16	C4	20	TYR	2.8
26	D4	98	GLU	2.8
42	L5	199	ILE	2.8
46	L9	2	LYS	2.8
72	O6	66	GLU	2.8
81	e1	79	LYS	2.8
20	c8	73	MET	2.8
25	D3	133	LEU	2.8
26	d4	17	LEU	2.8
35	SM	140	ASP	2.8
52	m6	80	PHE	2.8
60	n4	88	ASP	2.8
14	c2	60	VAL	2.8
26	d4	98	GLU	2.8
55	m9	153	LYS	2.8
60	N4	67	VAL	2.8
67	O1	5	LYS	2.8
7	s5	172	ILE	2.8
14	C2	136	ILE	2.8
49	m3	139	LEU	2.8
1	6	1709	C	2.8
7	S5	147	THR	2.8
12	C0	12	HIS	2.8
45	l8	94	PHE	2.8
56	N0	4	PHE	2.8
52	m6	182	ASN	2.8
65	n9	22	LYS	2.8
71	o5	115	LYS	2.8
4	S2	38	VAL	2.8
7	S5	220	VAL	2.8
13	C1	123	VAL	2.8
24	D2	121	VAL	2.8
25	D3	72	VAL	2.8
29	d7	60	SER	2.8
9	s7	63	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
2	s0	64	ILE	2.8
5	S3	5	ILE	2.8
23	d1	34	ILE	2.8
45	l8	148	ALA	2.8
58	n2	11	ILE	2.8
3	S1	73	LEU	2.8
27	d5	75	LEU	2.8
16	c4	46	MET	2.7
3	s1	101	HIS	2.7
4	S2	158	THR	2.7
4	s2	59	HIS	2.7
11	S9	47	PHE	2.7
83	p0	104	ARG	2.7
6	s4	184	THR	2.7
7	S5	94	THR	2.7
39	l2	19	HIS	2.7
55	M9	148	ASP	2.7
1	2	136	C	2.7
36	5	1574	C	2.7
2	S0	158	VAL	2.7
10	S8	136	SER	2.7
45	L8	132	VAL	2.7
5	s3	69	LEU	2.7
7	s5	175	LEU	2.7
17	C5	90	ILE	2.7
10	s8	8	ARG	2.7
17	C5	116	LEU	2.7
22	D0	79	TRP	2.7
30	D8	54	LEU	2.7
34	sR	254	ALA	2.7
64	N8	82	ILE	2.7
70	o4	90	ILE	2.7
8	s6	164	LYS	2.7
34	SR	117	LYS	2.7
34	sR	231	MET	2.7
45	L8	158	ASP	2.7
70	o4	93	PHE	2.7
1	2	234	G	2.7
18	c6	88	GLY	2.7
20	C8	39	GLY	2.7
34	SR	160	GLU	2.7
45	l8	182	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
63	n7	125	GLY	2.7
14	C2	80	ASN	2.7
21	c9	16	ASN	2.7
1	6	674	C	2.7
1	6	1708	U	2.7
6	S4	89	VAL	2.7
42	L5	122	VAL	2.7
55	M9	93	VAL	2.7
6	S4	169	ILE	2.7
11	s9	5	PRO	2.7
30	D8	38	ARG	2.7
34	SR	225	LEU	2.7
34	SR	252	LEU	2.7
42	l5	120	LYS	2.7
51	m5	41	ARG	2.7
60	n4	116	LYS	2.7
10	s8	57	ALA	2.7
5	S3	17	PHE	2.7
10	s8	143	TRP	2.7
16	c4	45	GLY	2.7
58	n2	92	TRP	2.7
21	C9	25	GLN	2.7
8	S6	80	ASN	2.7
36	1	1242	G	2.7
3	S1	179	SER	2.7
5	S3	141	LYS	2.7
23	D1	87	ARG	2.7
28	D6	5	ARG	2.7
28	D6	29	SER	2.7
30	D8	48	VAL	2.7
35	SM	72	ARG	2.7
45	L8	197	VAL	2.7
50	M4	131	VAL	2.7
63	N7	65	ARG	2.7
35	SM	61	ILE	2.7
4	s2	118	ALA	2.7
24	D2	18	GLU	2.7
51	m5	6	TYR	2.7
79	Q3	91	GLU	2.7
24	D2	127	GLY	2.7
62	n6	123	GLY	2.7
7	s5	161	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
35	SM	162	GLN	2.7
34	sR	159	ASN	2.7
34	sR	196	ASN	2.7
23	d1	87	ARG	2.7
56	N0	23	LYS	2.7
4	s2	86	VAL	2.7
7	s5	149	VAL	2.7
13	C1	125	VAL	2.7
14	C2	121	VAL	2.7
26	d4	2	SER	2.7
70	o4	105	VAL	2.7
5	S3	135	GLU	2.7
13	C1	122	ILE	2.7
17	C5	25	LEU	2.7
20	c8	67	GLU	2.7
28	d6	79	ILE	2.7
45	L8	218	ILE	2.7
49	m3	93	ILE	2.7
4	S2	249	ALA	2.7
5	S3	119	ALA	2.7
26	D4	103	ALA	2.7
1	6	1703	C	2.7
14	C2	96	GLN	2.7
17	c5	80	MET	2.7
36	5	1761	C	2.7
46	L9	8	GLN	2.7
66	o0	97	ASP	2.7
52	M6	155	LYS	2.7
60	N4	91	LYS	2.7
5	S3	173	ARG	2.7
6	S4	59	ARG	2.7
24	D2	117	ARG	2.7
1	6	1227	A	2.7
11	S9	111	THR	2.7
27	d5	102	THR	2.7
2	s0	123	VAL	2.7
3	S1	121	ILE	2.7
3	S1	164	ILE	2.7
5	S3	139	SER	2.7
7	s5	58	LEU	2.7
9	S7	129	LEU	2.7
11	s9	86	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
13	c1	94	ILE	2.7
15	c3	16	ILE	2.7
15	c3	54	LEU	2.7
22	d0	118	VAL	2.7
57	N1	86	GLU	2.7
34	sR	73	LEU	2.7
45	L8	64	ILE	2.7
61	N5	102	LEU	2.7
66	O0	14	LEU	2.7
6	S4	55	ALA	2.7
18	c6	138	PHE	2.7
19	c7	71	PHE	2.7
16	C4	70	LYS	2.7
65	N9	2	ALA	2.7
14	C2	125	ASN	2.7
36	1	1563	C	2.7
49	M3	164	GLU	2.7
8	s6	168	THR	2.7
24	D2	2	THR	2.7
3	S1	68	VAL	2.7
6	S4	180	LEU	2.7
6	s4	56	LEU	2.7
15	C3	52	VAL	2.7
19	c7	113	LEU	2.7
25	D3	96	VAL	2.7
27	D5	61	SER	2.7
45	l8	197	VAL	2.7
66	o0	41	LEU	2.7
3	s1	140	ILE	2.7
7	S5	178	GLY	2.7
12	C0	11	ILE	2.7
18	c6	63	ILE	2.7
7	s5	86	GLN	2.7
19	C7	105	GLN	2.7
27	d5	97	LYS	2.7
28	D6	97	PRO	2.7
40	L3	287	LYS	2.7
46	l9	106	LYS	2.7
60	N4	74	LYS	2.7
63	n7	4	PHE	2.7
63	n7	6	LYS	2.7
28	d6	42	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
34	sR	226	ALA	2.7
40	L3	146	ARG	2.7
47	m0	185	ARG	2.7
77	q1	6	ARG	2.7
2	s0	54	TRP	2.7
6	S4	26	CYS	2.7
23	D1	83	TRP	2.7
4	S2	101	VAL	2.7
29	d7	7	LEU	2.7
62	N6	111	LEU	2.7
74	O8	78	LEU	2.7
9	S7	5	GLN	2.7
13	C1	52	SER	2.7
13	C1	60	PHE	2.7
21	c9	25	GLN	2.7
40	L3	139	GLN	2.7
4	S2	140	ARG	2.7
57	N1	148	PRO	2.7
36	1	2208	A	2.7
45	L8	198	ALA	2.7
17	c5	23	GLU	2.7
3	S1	42	ASN	2.6
70	O4	19	LYS	2.6
3	s1	192	VAL	2.6
10	S8	2	GLY	2.6
17	C5	105	VAL	2.6
24	D2	83	ILE	2.6
26	d4	12	VAL	2.6
45	L8	153	ILE	2.6
60	n4	133	THR	2.6
74	o8	25	VAL	2.6
6	s4	218	PHE	2.6
7	S5	167	ARG	2.6
9	S7	183	PHE	2.6
13	C1	82	ARG	2.6
28	D6	89	ARG	2.6
72	o6	99	ARG	2.6
52	M6	166	GLU	2.6
3	S1	153	HIS	2.6
3	S1	229	MET	2.6
65	n9	29	TYR	2.6
45	L8	232	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
70	O4	34	HIS	2.6
7	s5	118	LEU	2.6
28	d6	64	LEU	2.6
20	C8	41	ARG	2.6
24	D2	34	ILE	2.6
58	n2	66	VAL	2.6
6	S4	166	SER	2.6
16	C4	89	THR	2.6
3	s1	170	GLU	2.6
5	S3	30	ALA	2.6
16	C4	82	LYS	2.6
21	C9	103	LYS	2.6
24	d2	22	LYS	2.6
27	D5	52	LYS	2.6
34	SR	283	LYS	2.6
36	5	1581	C	2.6
42	L5	120	LYS	2.6
74	o8	26	LYS	2.6
18	c6	49	TYR	2.6
3	S1	70	LEU	2.6
3	S1	99	ASN	2.6
6	s4	255	ARG	2.6
16	C4	90	ARG	2.6
33	E1	100	LEU	2.6
83	p0	93	LEU	2.6
7	s5	137	ILE	2.6
9	s7	90	VAL	2.6
16	C4	115	ILE	2.6
19	c7	122	ILE	2.6
20	c8	28	ILE	2.6
34	sR	178	VAL	2.6
46	L9	25	VAL	2.6
6	S4	128	LYS	2.6
41	l4	61	SER	2.6
45	L8	165	PHE	2.6
57	n1	71	SER	2.6
73	o7	36	SER	2.6
1	2	820	U	2.6
17	C5	109	PRO	2.6
35	sM	78	ASP	2.6
2	s0	162	CYS	2.6
8	S6	208	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
9	S7	6	ALA	2.6
34	SR	253	ALA	2.6
1	6	654	C	2.6
30	D8	61	ARG	2.6
36	5	3154	C	2.6
5	S3	133	GLY	2.6
9	S7	41	LEU	2.6
20	C8	21	ASN	2.6
20	c8	54	LEU	2.6
5	s3	208	ILE	2.6
20	C8	80	LYS	2.6
20	c8	48	LYS	2.6
9	S7	62	VAL	2.6
24	D2	40	VAL	2.6
30	d8	48	VAL	2.6
58	N2	107	PHE	2.6
58	n2	96	VAL	2.6
9	s7	106	SER	2.6
29	D7	74	SER	2.6
36	5	1356	U	2.6
42	L5	213	ASP	2.6
3	S1	41	ARG	2.6
6	s4	13	ALA	2.6
9	S7	68	ALA	2.6
22	D0	82	TYR	2.6
28	D6	10	ARG	2.6
30	D8	10	ALA	2.6
35	SM	69	ARG	2.6
42	L5	129	TYR	2.6
48	m1	116	TYR	2.6
75	o9	49	MET	2.6
14	C2	59	LEU	2.6
16	c4	99	GLN	2.6
25	D3	114	LYS	2.6
27	D5	75	LEU	2.6
39	l2	29	LEU	2.6
43	L6	129	GLU	2.6
43	L6	139	LYS	2.6
52	M6	187	GLU	2.6
71	o5	72	GLY	2.6
1	2	233	C	2.6
2	s0	63	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
6	S4	102	VAL	2.6
11	s9	34	PHE	2.6
30	d8	55	VAL	2.6
57	n1	159	PHE	2.6
66	o0	81	VAL	2.6
70	O4	5	VAL	2.6
46	L9	190	ASP	2.6
2	s0	191	ARG	2.6
30	d8	61	ARG	2.6
7	s5	36	ALA	2.6
12	c0	66	TYR	2.6
13	c1	114	ALA	2.6
3	S1	231	LEU	2.6
18	C6	38	LEU	2.6
18	c6	52	LEU	2.6
21	c9	22	LEU	2.6
28	D6	90	GLU	2.6
42	L5	163	LEU	2.6
62	n6	111	LEU	2.6
25	D3	102	VAL	2.6
33	E1	84	VAL	2.6
34	sR	211	ILE	2.6
39	L2	61	VAL	2.6
35	SM	96	ARG	2.6
45	l8	253	SER	2.6
5	S3	78	LYS	2.6
8	s6	173	PRO	2.6
25	d3	39	LYS	2.6
32	E0	29	LYS	2.6
45	L8	245	LYS	2.6
8	s6	35	GLU	2.6
12	c0	37	THR	2.6
20	C8	106	GLU	2.6
35	SM	127	ALA	2.6
40	L3	94	GLU	2.6
55	M9	178	ALA	2.6
1	2	1151	A	2.6
75	o9	37	TYR	2.6
29	D7	3	LEU	2.6
48	M1	40	LEU	2.6
36	1	548	G	2.6
75	o9	50	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
83	p0	193	ASN	2.6
15	C3	113	PHE	2.6
6	S4	255	ARG	2.6
18	C6	66	ARG	2.6
21	c9	6	VAL	2.6
28	d6	84	VAL	2.6
74	O8	11	PHE	2.6
11	s9	90	LYS	2.6
14	C2	26	ASP	2.6
2	S0	169	SER	2.6
14	c2	119	SER	2.6
14	c2	83	GLU	2.6
34	sR	158	PRO	2.6
34	sR	251	TRP	2.6
9	S7	75	THR	2.6
13	c1	72	THR	2.6
22	D0	107	THR	2.6
45	L8	199	ALA	2.6
73	O7	88	ALA	2.6
83	p0	219	THR	2.6
5	s3	182	LEU	2.6
34	SR	265	LEU	2.6
2	S0	164	ASN	2.6
10	S8	72	ILE	2.6
17	C5	45	PHE	2.6
34	sR	117	LYS	2.6
45	L8	231	LYS	2.6
45	l8	78	PHE	2.6
77	Q1	6	ARG	2.6
83	p0	79	PHE	2.6
8	s6	36	VAL	2.6
28	D6	75	VAL	2.6
45	l8	132	VAL	2.6
83	p0	210	VAL	2.6
9	s7	184	GLU	2.5
40	L3	140	ASP	2.5
16	c4	97	GLY	2.5
19	c7	62	GLN	2.5
20	C8	6	GLN	2.5
36	5	2504	U	2.5
39	L2	13	GLY	2.5
2	S0	201	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
2	s0	110	TYR	2.5
3	S1	217	LEU	2.5
17	c5	25	LEU	2.5
18	C6	142	TYR	2.5
45	L8	136	LEU	2.5
66	O0	101	LEU	2.5
74	o8	72	THR	2.5
80	e0	48	THR	2.5
5	S3	51	ARG	2.5
27	d5	46	LYS	2.5
48	M1	85	LYS	2.5
15	c3	71	ILE	2.5
16	c4	83	ILE	2.5
24	D2	35	ILE	2.5
51	m5	151	ILE	2.5
3	S1	192	VAL	2.5
4	s2	184	VAL	2.5
28	D6	21	VAL	2.5
35	sM	172	VAL	2.5
42	L5	173	VAL	2.5
7	S5	223	SER	2.5
66	o0	9	SER	2.5
1	2	260	U	2.5
5	s3	220	PRO	2.5
4	S2	134	LEU	2.5
6	s4	106	LYS	2.5
10	S8	196	LEU	2.5
16	C4	92	LYS	2.5
26	D4	18	LEU	2.5
27	d5	57	TYR	2.5
34	SR	254	ALA	2.5
42	L5	146	LEU	2.5
61	n5	40	LEU	2.5
70	o4	102	LYS	2.5
2	S0	162	CYS	2.5
3	S1	129	THR	2.5
4	S2	222	TYR	2.5
4	s2	91	ARG	2.5
17	C5	30	THR	2.5
2	S0	76	ILE	2.5
6	s4	109	PHE	2.5
13	C1	98	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
6	S4	111	VAL	2.5
12	c0	36	ASP	2.5
34	sR	94	VAL	2.5
46	l9	104	VAL	2.5
63	N7	13	VAL	2.5
3	S1	216	LYS	2.5
3	s1	233	GLY	2.5
5	S3	223	LYS	2.5
16	C4	75	GLY	2.5
21	C9	110	LYS	2.5
23	D1	61	SER	2.5
36	5	1026	A	2.5
53	M7	180	LYS	2.5
1	2	241	U	2.5
1	6	494	U	2.5
9	s7	154	LEU	2.5
75	o9	24	PRO	2.5
5	S3	150	MET	2.5
6	S4	112	HIS	2.5
16	c4	135	ARG	2.5
10	s8	68	ALA	2.5
64	n8	99	ALA	2.5
13	C1	31	THR	2.5
14	C2	129	GLU	2.5
2	S0	141	ILE	2.5
20	C8	125	ILE	2.5
36	5	2874	G	2.5
21	C9	71	VAL	2.5
22	D0	101	LYS	2.5
4	S2	145	GLY	2.5
14	C2	40	GLY	2.5
8	s6	191	ARG	2.5
2	s0	97	PRO	2.5
14	c2	58	LEU	2.5
21	C9	132	LEU	2.5
83	p0	48	ARG	2.5
36	5	1763	U	2.5
21	C9	33	TYR	2.5
27	d5	101	TYR	2.5
83	p0	74	GLU	2.5
40	L3	194	TRP	2.5
6	s4	64	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
9	S7	133	THR	2.5
16	C4	31	THR	2.5
31	d9	43	PHE	2.5
34	sR	192	PHE	2.5
15	C3	138	ASN	2.5
22	D0	49	ASN	2.5
34	sR	46	LYS	2.5
55	m9	53	LYS	2.5
5	S3	41	VAL	2.5
26	d4	27	VAL	2.5
35	SM	108	GLN	2.5
1	2	1243	G	2.5
39	L2	70	ARG	2.5
39	l2	81	GLY	2.5
7	s5	96	SER	2.5
1	2	131	C	2.5
8	s6	178	LEU	2.5
17	c5	26	LEU	2.5
36	1	1562	C	2.5
60	n4	87	LEU	2.5
19	C7	87	GLU	2.5
56	n0	21	GLU	2.5
11	S9	31	ALA	2.5
15	c3	41	ALA	2.5
15	c3	90	TYR	2.5
58	N2	36	TYR	2.5
58	n2	31	ALA	2.5
61	N5	60	TYR	2.5
1	2	754	A	2.5
6	S4	172	PHE	2.5
74	O8	61	LYS	2.5
27	d5	71	ILE	2.5
46	L9	134	ILE	2.5
74	o8	27	ILE	2.5
5	S3	14	ASP	2.5
18	C6	62	ASN	2.5
5	S3	122	VAL	2.5
13	C1	99	ARG	2.5
34	sR	139	GLN	2.5
34	sR	156	VAL	2.5
10	s8	149	SER	2.5
25	D3	132	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
42	L5	123	GLU	2.5
48	M1	17	LEU	2.5
58	n2	76	LEU	2.5
58	n2	97	SER	2.5
21	C9	27	LYS	2.5
42	l5	270	LYS	2.5
51	m5	129	TYR	2.5
70	O4	112	ALA	2.5
75	O9	39	ALA	2.5
24	d2	86	ILE	2.5
20	c8	12	GLN	2.5
35	SM	68	ARG	2.5
13	C1	111	VAL	2.5
21	C9	4	VAL	2.5
52	M6	182	ASN	2.5
7	S5	218	GLU	2.5
30	d8	34	GLU	2.5
15	C3	9	LYS	2.5
20	c8	3	LEU	2.5
45	l8	195	SER	2.5
55	m9	165	LYS	2.5
67	o1	89	LEU	2.5
13	C1	92	HIS	2.5
3	S1	105	PHE	2.5
8	S6	169	TYR	2.5
5	S3	66	ILE	2.5
10	s8	60	ILE	2.5
11	S9	6	ARG	2.5
27	d5	103	ARG	2.5
31	D9	34	TYR	2.5
34	sR	188	ILE	2.5
72	o6	68	ARG	2.5
22	d0	15	GLN	2.5
23	D1	4	ASP	2.5
2	S0	22	THR	2.5
5	s3	83	THR	2.5
7	S5	75	GLY	2.5
34	sR	31	ASN	2.5
36	5	1024	G	2.5
9	s7	51	VAL	2.5
22	d0	30	LYS	2.5
29	D7	82	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
62	n6	113	LYS	2.5
12	C0	2	LEU	2.5
24	d2	38	LEU	2.5
25	D3	34	LEU	2.5
57	N1	85	LEU	2.5
13	c1	59	PRO	2.4
36	5	250	U	2.4
51	M5	42	PRO	2.4
26	d4	134	ALA	2.4
35	sM	69	ARG	2.4
83	p0	64	ARG	2.4
6	s4	258	GLN	2.4
13	c1	131	ILE	2.4
31	D9	20	GLN	2.4
45	l8	247	ASP	2.4
47	m0	186	GLU	2.4
33	E1	127	GLY	2.4
42	L5	161	GLY	2.4
11	S9	148	VAL	2.4
16	C4	118	VAL	2.4
23	d1	82	VAL	2.4
63	n7	95	VAL	2.4
5	S3	29	LEU	2.4
30	D8	56	LEU	2.4
1	6	235	G	2.4
47	m0	80	SER	2.4
9	S7	4	PRO	2.4
16	c4	52	ARG	2.4
7	S5	48	PHE	2.4
36	5	1570	U	2.4
2	S0	48	ILE	2.4
4	S2	233	GLN	2.4
14	C2	90	LYS	2.4
34	SR	36	ALA	2.4
35	sM	121	LYS	2.4
48	M1	116	TYR	2.4
63	n7	91	ALA	2.4
17	C5	34	VAL	2.4
61	n5	107	VAL	2.4
15	c3	53	LEU	2.4
1	2	1105	C	2.4
16	c4	55	SER	2.4

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Mol	Chain	Res	Type	RSRZ
1	2	74	U	2.4
7	S5	216	GLU	2.4
12	C0	5	LYS	2.4
9	s7	61	PHE	2.4
17	c5	109	PRO	2.4
25	D3	137	LYS	2.4
27	D5	94	LYS	2.4
18	c6	46	PHE	2.4
52	M6	48	PHE	2.4
70	o4	110	GLU	2.4
8	S6	221	ALA	2.4
11	S9	8	TYR	2.4
11	S9	156	ILE	2.4
21	c9	136	ALA	2.4
34	SR	169	ILE	2.4
40	l3	142	ALA	2.4
65	N9	53	ALA	2.4
14	C2	81	ASP	2.4
5	s3	11	LEU	2.4
5	s3	85	VAL	2.4
12	C0	42	VAL	2.4
34	sR	182	ASN	2.4
13	C1	33	ARG	2.4
5	s3	151	LYS	2.4
7	S5	84	LYS	2.4
14	c2	100	TRP	2.4
15	C3	131	THR	2.4
45	l8	120	LYS	2.4
60	n4	64	THR	2.4
74	O8	6	THR	2.4
2	s0	169	SER	2.4
5	S3	214	GLU	2.4
45	L8	89	GLU	2.4
2	s0	126	PRO	2.4
37	3	73	C	2.4
55	m9	175	GLN	2.4
56	n0	138	GLN	2.4
7	s5	190	ILE	2.4
14	c2	35	ALA	2.4
34	sR	190	ALA	2.4
72	o6	94	ILE	2.4
2	S0	181	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
3	s1	181	LEU	2.4
13	C1	69	LYS	2.4
19	C7	80	ARG	2.4
24	D2	92	ASN	2.4
27	d5	69	LEU	2.4
31	d9	13	ARG	2.4
45	L8	230	LYS	2.4
74	O8	54	LEU	2.4
34	SR	25	THR	2.4
21	c9	125	SER	2.4
1	6	1704	U	2.4
36	1	981	U	2.4
36	1	1820	U	2.4
74	o8	71	PRO	2.4
7	S5	210	ALA	2.4
10	S8	148	ALA	2.4
17	C5	131	ALA	2.4
28	D6	23	CYS	2.4
53	M7	2	ALA	2.4
63	N7	72	ILE	2.4
67	O1	99	ALA	2.4
2	S0	138	TYR	2.4
6	s4	242	LYS	2.4
10	S8	194	ARG	2.4
26	d4	32	ARG	2.4
36	1	1761	C	2.4
39	l2	93	LYS	2.4
51	m5	147	ARG	2.4
66	o0	66	LYS	2.4
4	S2	111	VAL	2.4
6	S4	219	VAL	2.4
8	s6	147	LEU	2.4
6	s4	60	GLU	2.4
10	S8	82	VAL	2.4
12	c0	46	LEU	2.4
42	L5	227	LEU	2.4
45	l8	140	VAL	2.4
57	n1	89	LEU	2.4
57	N1	104	GLU	2.4
13	C1	72	THR	2.4
35	SM	82	THR	2.4
66	O0	12	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
6	S4	190	GLY	2.4
10	S8	80	GLY	2.4
1	2	1370	U	2.4
11	S9	18	PRO	2.4
17	C5	73	PRO	2.4
5	S3	84	ILE	2.4
18	C6	140	LYS	2.4
24	D2	71	LYS	2.4
34	sR	142	ALA	2.4
39	l2	247	ARG	2.4
42	l5	247	ILE	2.4
55	m9	162	ARG	2.4
83	p0	63	ILE	2.4
42	l5	119	TYR	2.4
16	C4	13	VAL	2.4
22	D0	117	VAL	2.4
23	d1	13	VAL	2.4
1	6	230	C	2.4
36	1	1556	C	2.4
1	2	541	A	2.4
8	s6	148	SER	2.4
16	C4	11	SER	2.4
29	d7	52	THR	2.4
35	SM	103	LYS	2.4
42	L5	220	SER	2.4
61	n5	84	PHE	2.4
66	o0	21	GLY	2.4
73	o7	32	LYS	2.4
3	S1	23	PRO	2.4
7	s5	129	PRO	2.4
11	S9	103	ASP	2.4
22	D0	22	ILE	2.4
24	D2	47	ILE	2.4
36	5	3275	U	2.4
45	l8	143	ILE	2.4
72	o6	58	ILE	2.4
83	p0	96	ILE	2.4
3	S1	90	GLU	2.4
7	S5	31	GLU	2.4
28	D6	6	ALA	2.4
71	o5	82	ALA	2.4
75	o9	2	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
2	S0	110	TYR	2.4
4	S2	190	LEU	2.4
12	C0	68	LEU	2.4
25	D3	15	LEU	2.4
51	M5	10	LEU	2.4
55	m9	78	TYR	2.4
60	N4	96	LEU	2.4
4	S2	167	VAL	2.4
57	n1	72	VAL	2.4
58	n2	19	VAL	2.4
59	N3	4	ASN	2.4
63	N7	61	LYS	2.4
7	S5	141	GLY	2.4
24	D2	84	GLY	2.4
45	L8	66	SER	2.4
75	O9	45	ARG	2.4
3	s1	180	THR	2.4
34	sR	25	THR	2.4
1	2	240	U	2.4
6	s4	162	ILE	2.4
11	S9	42	ILE	2.4
13	C1	101	GLU	2.4
14	c2	89	ILE	2.4
24	D2	125	ILE	2.4
28	D6	39	MET	2.4
29	D7	62	ILE	2.4
72	O6	61	ILE	2.4
55	M9	184	LEU	2.3
2	S0	50	VAL	2.3
31	d9	6	VAL	2.3
46	L9	43	VAL	2.3
62	n6	116	LYS	2.3
63	n7	43	VAL	2.3
8	S6	210	GLN	2.3
42	l5	297	GLN	2.3
7	S5	156	ARG	2.3
7	s5	167	ARG	2.3
14	c2	127	GLY	2.3
18	C6	56	GLY	2.3
1	2	495	C	2.3
1	6	489	C	2.3
2	S0	6	THR	2.3

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Mol	Chain	Res	Type	RSRZ
10	S8	168	CYS	2.3
34	sR	106	HIS	2.3
71	O5	13	SER	2.3
1	6	670	U	2.3
6	s4	248	ILE	2.3
22	D0	86	ILE	2.3
40	L3	289	ASP	2.3
6	S4	71	LYS	2.3
15	C3	76	LYS	2.3
19	C7	100	LEU	2.3
19	C7	126	ALA	2.3
34	SR	202	LEU	2.3
55	M9	52	LYS	2.3
62	n6	104	LEU	2.3
34	SR	79	TYR	2.3
12	C0	73	VAL	2.3
21	c9	30	VAL	2.3
23	d1	32	VAL	2.3
30	D8	55	VAL	2.3
39	L2	202	VAL	2.3
63	n7	75	VAL	2.3
31	D9	5	ASN	2.3
12	C0	34	GLU	2.3
18	C6	138	PHE	2.3
20	c8	59	GLY	2.3
62	N6	88	GLU	2.3
33	E1	93	HIS	2.3
63	N7	52	LYS	2.3
72	O6	100	HIS	2.3
81	e1	122	SER	2.3
13	c1	70	ILE	2.3
15	c3	92	ILE	2.3
18	C6	132	LYS	2.3
1	2	681	U	2.3
2	s0	176	LEU	2.3
55	M9	138	LEU	2.3
56	N0	145	THR	2.3
29	D7	56	CYS	2.3
71	o5	88	LEU	2.3
74	O8	65	LEU	2.3
13	C1	114	ALA	2.3
22	d0	45	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
51	m5	146	ALA	2.3
8	S6	41	VAL	2.3
10	S8	195	ARG	2.3
14	C2	60	VAL	2.3
40	L3	150	ARG	2.3
42	L5	135	VAL	2.3
46	L9	57	VAL	2.3
46	L9	75	VAL	2.3
1	2	1577	A	2.3
6	s4	124	GLY	2.3
24	D2	79	PHE	2.3
26	d4	59	GLY	2.3
36	1	1252	A	2.3
39	L2	73	GLU	2.3
9	S7	56	LYS	2.3
65	N9	22	LYS	2.3
7	S5	29	ILE	2.3
7	S5	55	ASP	2.3
23	D1	65	SER	2.3
46	L9	53	ILE	2.3
19	c7	100	LEU	2.3
24	D2	104	LEU	2.3
27	D5	51	LEU	2.3
2	S0	187	ALA	2.3
7	S5	221	ALA	2.3
24	d2	89	TRP	2.3
35	SM	53	ARG	2.3
36	5	1565	G	2.3
45	L8	154	ALA	2.3
47	M0	220	GLN	2.3
51	m5	143	ARG	2.3
55	M9	167	ARG	2.3
15	C3	90	TYR	2.3
1	2	696	C	2.3
6	S4	76	VAL	2.3
14	C2	122	VAL	2.3
34	SR	113	VAL	2.3
60	n4	114	GLU	2.3
3	s1	205	PHE	2.3
5	S3	106	LYS	2.3
5	s3	152	PHE	2.3
17	c5	12	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
25	D3	126	LYS	2.3
36	5	440	A	2.3
3	s1	197	ILE	2.3
8	S6	155	ASP	2.3
8	S6	175	ILE	2.3
13	c1	86	ILE	2.3
21	c9	133	ASP	2.3
25	D3	18	HIS	2.3
4	S2	151	PRO	2.3
5	s3	65	ARG	2.3
34	sR	155	ARG	2.3
45	L8	99	PRO	2.3
53	M7	128	ARG	2.3
61	N5	35	PRO	2.3
74	O8	70	PRO	2.3
1	2	1795	U	2.3
1	6	74	U	2.3
3	S1	143	THR	2.3
36	1	979	U	2.3
36	5	2537	U	2.3
45	l8	246	MET	2.3
61	n5	88	MET	2.3
45	l8	88	ALA	2.3
51	m5	39	ALA	2.3
71	o5	30	GLU	2.3
81	e1	86	THR	2.3
7	s5	133	VAL	2.3
27	d5	59	TYR	2.3
6	S4	109	PHE	2.3
12	c0	27	PHE	2.3
32	E0	57	ASN	2.3
34	sR	54	PHE	2.3
36	1	1237	G	2.3
3	s1	158	SER	2.3
4	S2	141	ARG	2.3
4	S2	187	LEU	2.3
11	s9	6	ARG	2.3
20	C8	127	HIS	2.3
24	D2	14	ILE	2.3
61	N5	139	ILE	2.3
67	o1	75	ILE	2.3
72	o6	62	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
2	s0	34	GLU	2.3
3	S1	219	LYS	2.3
4	S2	189	GLN	2.3
12	c0	93	GLN	2.3
27	D5	44	GLN	2.3
36	5	1815	U	2.3
56	N0	21	GLU	2.3
7	S5	207	THR	2.3
14	C2	42	ALA	2.3
21	C9	39	THR	2.3
52	M6	184	THR	2.3
71	o5	11	THR	2.3
3	S1	212	VAL	2.3
6	S4	208	VAL	2.3
17	C5	86	VAL	2.3
29	D7	35	VAL	2.3
29	D7	46	VAL	2.3
31	d9	29	GLY	2.3
39	L2	62	VAL	2.3
42	l5	127	GLY	2.3
63	n7	131	PHE	2.3
74	O8	57	ASN	2.3
4	S2	97	ARG	2.3
25	D3	7	ARG	2.3
3	S1	50	LYS	2.3
5	S3	134	CYS	2.3
6	S4	38	LEU	2.3
9	s7	123	ASP	2.3
11	S9	151	ASP	2.3
35	SM	134	ASP	2.3
14	C2	83	GLU	2.3
20	C8	96	LYS	2.3
26	D4	46	GLU	2.3
29	d7	36	LYS	2.3
48	M1	81	GLU	2.3
60	N4	97	LYS	2.3
64	n8	138	ILE	2.3
71	o5	25	LYS	2.3
1	2	261	U	2.3
8	S6	1	MET	2.3
2	S0	75	ALA	2.3
2	s0	25	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
3	S1	163	ALA	2.3
7	S5	71	ALA	2.3
15	C3	22	ALA	2.3
26	d4	95	GLY	2.3
36	1	2502	A	2.3
10	S8	81	VAL	2.3
14	C2	37	VAL	2.3
26	D4	79	VAL	2.3
30	d8	25	VAL	2.3
45	l8	130	TYR	2.3
55	M9	94	VAL	2.3
71	O5	46	THR	2.3
42	L5	55	PHE	2.3
81	e1	131	PHE	2.3
17	c5	61	ARG	2.3
49	M3	174	ARG	2.3
24	D2	19	LYS	2.3
39	l2	119	LYS	2.3
2	S0	43	ASP	2.3
4	S2	78	ASP	2.3
5	s3	110	LEU	2.3
7	s5	217	LEU	2.3
10	S8	189	LEU	2.3
14	C2	89	ILE	2.3
17	C5	22	LEU	2.3
18	c6	93	HIS	2.3
22	d0	34	LEU	2.3
22	d0	48	HIS	2.3
42	l5	290	ILE	2.3
67	O1	97	LEU	2.3
72	O6	93	ILE	2.3
76	Q0	85	LEU	2.3
29	d7	26	GLN	2.3
34	SR	213	SER	2.3
10	S8	179	CYS	2.3
36	5	3195	U	2.3
37	7	73	C	2.3
39	l2	78	ALA	2.3
66	o0	88	GLY	2.3
2	S0	38	PHE	2.3
4	S2	156	THR	2.3
6	S4	182	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
22	D0	51	VAL	2.3
45	l8	151	VAL	2.3
52	m6	178	VAL	2.3
58	n2	28	PHE	2.3
63	n7	118	PHE	2.3
66	o0	90	VAL	2.3
11	S9	108	ARG	2.3
1	6	226	A	2.3
13	C1	56	LYS	2.2
15	C3	25	TRP	2.3
70	O4	58	ARG	2.3
20	c8	80	LYS	2.2
21	C9	38	LYS	2.2
34	sR	224	ASN	2.2
57	N1	32	LYS	2.2
20	c8	64	GLU	2.2
80	e0	51	ASN	2.2
2	s0	43	ASP	2.2
6	S4	163	ASP	2.2
10	S8	193	LEU	2.2
12	C0	62	GLN	2.2
14	C2	72	ILE	2.2
44	l7	103	LEU	2.2
63	n7	51	LEU	2.2
64	n8	91	LEU	2.2
74	o8	66	ILE	2.2
6	S4	239	PRO	2.2
21	C9	46	PRO	2.2
30	D8	17	GLY	2.2
45	L8	53	PRO	2.2
71	O5	3	GLY	2.2
6	S4	63	ALA	2.2
3	s1	167	VAL	2.2
4	S2	184	VAL	2.2
4	s2	45	VAL	2.2
10	S8	37	LYS	2.2
31	D9	12	ARG	2.2
39	L2	247	ARG	2.2
6	s4	26	CYS	2.2
17	c5	14	THR	2.2
30	d8	26	THR	2.2
36	5	439	C	2.2

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Mol	Chain	Res	Type	RSRZ
57	N1	107	GLU	2.2
60	N4	83	THR	2.2
75	O9	34	THR	2.2
7	s5	79	ASN	2.2
20	c8	61	LEU	2.2
30	d8	54	LEU	2.2
34	SR	32	LEU	2.2
34	sR	207	ASP	2.2
83	p0	185	LEU	2.2
9	s7	181	ILE	2.2
27	d5	78	ILE	2.2
27	d5	92	ILE	2.2
57	N1	160	ILE	2.2
8	S6	217	SER	2.2
6	S4	167	GLY	2.2
9	S7	35	LYS	2.2
16	C4	98	GLY	2.2
18	C6	51	PRO	2.2
30	d8	17	GLY	2.2
4	S2	57	PHE	2.2
4	S2	98	PHE	2.2
6	S4	72	VAL	2.2
11	S9	119	ALA	2.2
20	c8	146	ALA	2.2
36	5	1572	U	2.2
24	d2	50	PHE	2.2
26	D4	24	VAL	2.2
61	n5	77	GLU	2.2
2	s0	21	ASN	2.2
13	c1	83	THR	2.2
74	O8	41	THR	2.2
6	S4	143	ASP	2.2
10	s8	111	GLN	2.2
24	D2	93	LEU	2.2
29	d7	56	CYS	2.2
34	sR	7	LEU	2.2
36	5	2444	C	2.2
63	n7	128	GLN	2.2
71	o5	20	GLN	2.2
7	s5	29	ILE	2.2
10	s8	176	SER	2.2
14	C2	95	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
20	C8	49	LYS	2.2
23	D1	84	SER	2.2
25	D3	3	LYS	2.2
49	m3	178	LYS	2.2
6	S4	191	ARG	2.2
23	D1	62	ARG	2.2
25	D3	144	ARG	2.2
2	S0	198	MET	2.2
9	S7	63	PRO	2.2
35	sM	52	PRO	2.2
2	s0	187	ALA	2.2
9	S7	144	VAL	2.2
13	c1	125	VAL	2.2
26	D4	23	PHE	2.2
29	d7	53	ALA	2.2
41	l4	286	VAL	2.2
70	O4	35	VAL	2.2
74	O8	25	VAL	2.2
79	Q3	35	ALA	2.2
81	e1	105	TYR	2.2
3	S1	98	THR	2.2
3	S1	220	GLN	2.2
6	s4	123	LEU	2.2
15	c3	80	LEU	2.2
17	C5	70	ASN	2.2
29	D7	7	LEU	2.2
29	D7	26	GLN	2.2
31	d9	20	GLN	2.2
34	SR	182	ASN	2.2
25	D3	24	TRP	2.2
81	e1	99	LYS	2.2
4	s2	50	ILE	2.2
6	S4	173	ILE	2.2
10	s8	169	ILE	2.2
51	m5	36	ILE	2.2
77	Q1	2	ARG	2.2
4	s2	223	GLY	2.2
5	S3	31	GLU	2.2
41	l4	54	GLU	2.2
70	O4	55	SER	2.2
1	6	721	U	2.2
9	S7	43	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
14	C2	75	VAL	2.2
14	c2	94	ALA	2.2
78	q2	106	PHE	2.2
2	S0	15	GLN	2.2
3	S1	195	LYS	2.2
9	s7	161	GLN	2.2
13	c1	26	LYS	2.2
75	o9	19	GLN	2.2
7	s5	194	LEU	2.2
14	c2	45	LEU	2.2
34	sR	81	LEU	2.2
2	S0	129	ASP	2.2
13	C1	74	THR	2.2
58	n2	87	ASN	2.2
61	n5	119	THR	2.2
28	d6	83	ILE	2.2
42	l5	133	GLU	2.2
60	n4	84	GLY	2.2
83	p0	71	PRO	2.2
1	6	320	U	2.2
2	S0	29	VAL	2.2
10	S8	199	LYS	2.2
26	d4	60	PHE	2.2
25	D3	113	ALA	2.2
26	D4	70	VAL	2.2
39	L2	113	VAL	2.2
45	L8	79	GLN	2.2
49	M3	160	GLN	2.2
61	n5	86	VAL	2.2
66	o0	15	ALA	2.2
70	O4	36	LYS	2.2
22	D0	17	GLN	2.2
3	s1	54	LEU	2.2
6	S4	246	LEU	2.2
8	S6	159	ARG	2.2
21	C9	123	ARG	2.2
24	d2	11	LEU	2.2
24	d2	26	LEU	2.2
27	d5	83	LEU	2.2
29	D7	63	LEU	2.2
30	D8	22	ARG	2.2
34	sR	301	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
35	SM	93	ARG	2.2
48	m1	91	LEU	2.2
3	S1	199	ASN	2.2
17	c5	85	ILE	2.2
39	L2	252	THR	2.2
42	L5	130	GLU	2.2
23	d1	5	LYS	2.2
50	M4	8	LYS	2.2
63	n7	56	LYS	2.2
2	S0	142	PRO	2.2
17	C5	53	PRO	2.2
67	o1	90	PHE	2.2
1	6	490	C	2.2
2	S0	41	ARG	2.2
6	S4	105	VAL	2.2
6	S4	252	ARG	2.2
6	s4	110	ALA	2.2
8	S6	114	VAL	2.2
11	S9	167	ALA	2.2
13	C1	25	VAL	2.2
16	c4	41	ARG	2.2
17	C5	67	ALA	2.2
21	C9	114	VAL	2.2
70	o4	16	ARG	2.2
71	O5	48	ARG	2.2
78	Q2	71	ARG	2.2
34	sR	13	LEU	2.2
45	L8	169	LEU	2.2
51	m5	119	TYR	2.2
67	O1	73	LEU	2.2
6	S4	171	ASP	2.2
28	d6	46	GLU	2.2
24	D2	15	ASN	2.2
1	2	713	A	2.2
4	s2	137	ILE	2.2
28	d6	41	ILE	2.2
81	e1	91	ILE	2.2
71	o5	101	THR	2.2
26	D4	99	LYS	2.2
40	L3	50	LYS	2.2
60	n4	129	LYS	2.2
1	2	279	G	2.2

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Mol	Chain	Res	Type	RSRZ
21	c9	20	SER	2.2
25	d3	40	SER	2.2
72	O6	97	SER	2.2
4	S2	215	PHE	2.2
48	M1	163	PHE	2.2
5	S3	65	ARG	2.2
23	d1	71	ARG	2.2
27	d5	81	ARG	2.2
11	S9	72	GLU	2.2
11	s9	85	VAL	2.2
2	s0	182	LEU	2.2
11	s9	59	LEU	2.2
16	c4	101	ALA	2.2
34	sR	253	ALA	2.2
36	1	1094	U	2.2
36	1	2501	U	2.2
51	m5	40	ALA	2.2
61	n5	104	GLU	2.2
70	O4	104	VAL	2.2
63	N7	5	LEU	2.2
76	Q0	107	ALA	2.2
81	e1	103	LEU	2.2
81	e1	152	ALA	2.2
22	d0	92	ASP	2.2
10	s8	72	ILE	2.2
34	sR	131	ILE	2.2
51	M5	36	ILE	2.2
61	n5	36	LYS	2.2
61	n5	109	LYS	2.2
66	o0	18	ILE	2.2
78	q2	17	CYS	2.2
4	S2	71	THR	2.2
7	s5	176	THR	2.2
1	2	505	A	2.1
2	S0	155	PHE	2.1
3	S1	51	SER	2.1
20	c8	2	SER	2.1
29	D7	58	SER	2.1
9	S7	170	GLN	2.1
34	sR	10	ARG	2.1
22	D0	110	PRO	2.1
39	l2	253	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
39	l2	143	GLU	2.1
1	2	730	G	2.1
5	S3	71	LEU	2.1
20	C8	4	VAL	2.1
32	E0	4	VAL	2.1
36	5	1351	U	2.1
40	L3	161	LEU	2.1
62	n6	35	LEU	2.1
72	O6	69	ALA	2.1
74	O8	18	ALA	2.1
17	C5	115	TYR	2.1
18	C6	27	GLY	2.1
8	S6	197	ASN	2.1
17	c5	84	ILE	2.1
51	m5	117	ASN	2.1
63	n7	72	ILE	2.1
68	o2	9	ILE	2.1
1	6	683	C	2.1
7	s5	181	GLU	2.1
14	c2	47	GLU	2.1
19	C7	83	GLN	2.1
1	6	541	A	2.1
2	S0	174	TRP	2.1
42	L5	95	TRP	2.1
42	l5	136	GLU	2.1
6	S4	66	MET	2.1
10	S8	74	LYS	2.1
80	e0	53	LYS	2.1
4	S2	63	VAL	2.1
10	S8	165	LEU	2.1
11	S9	178	ALA	2.1
15	C3	24	ALA	2.1
15	C3	150	VAL	2.1
21	C9	58	ALA	2.1
36	1	1564	U	2.1
36	1	2571	U	2.1
51	m5	115	VAL	2.1
73	O7	70	VAL	2.1
6	s4	149	TYR	2.1
34	SR	114	ASP	2.1
61	N5	106	ASP	2.1
9	s7	185	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
13	C1	66	ILE	2.1
18	c6	85	ILE	2.1
34	SR	4	ASN	2.1
36	1	3286	G	2.1
36	5	2549	G	2.1
45	L8	155	ASN	2.1
61	n5	63	ILE	2.1
27	D5	103	ARG	2.1
17	c5	15	HIS	2.1
13	c1	31	THR	2.1
26	D4	85	PHE	2.1
27	D5	53	GLU	2.1
34	sR	300	THR	2.1
42	L5	117	GLU	2.1
56	N0	128	GLU	2.1
67	o1	110	GLU	2.1
36	1	2548	C	2.1
71	o5	73	LYS	2.1
71	o5	98	SER	2.1
73	o7	85	LYS	2.1
8	s6	193	LEU	2.1
20	C8	82	PRO	2.1
57	n1	31	LEU	2.1
1	6	227	U	2.1
1	6	1058	U	2.1
36	5	240	U	2.1
70	O4	65	VAL	2.1
2	S0	14	ALA	2.1
3	s1	53	GLY	2.1
36	5	2536	A	2.1
46	l9	107	ASP	2.1
55	m9	54	ALA	2.1
60	n4	128	ALA	2.1
73	o7	83	ALA	2.1
31	d9	34	TYR	2.1
58	n2	41	ILE	2.1
66	o0	23	TYR	2.1
2	S0	39	ASN	2.1
28	D6	94	ASN	2.1
71	o5	118	ILE	2.1
58	N2	13	LYS	2.1
74	O8	9	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
81	e1	149	LYS	2.1
3	S1	208	GLN	2.1
6	S4	226	PHE	2.1
10	s8	21	PHE	2.1
34	sR	245	PHE	2.1
55	M9	175	GLN	2.1
16	c4	108	SER	2.1
29	D7	30	SER	2.1
11	s9	80	LEU	2.1
11	s9	97	LEU	2.1
31	D9	30	LEU	2.1
34	sR	265	LEU	2.1
58	n2	89	LEU	2.1
62	n6	39	LEU	2.1
7	S5	133	VAL	2.1
17	C5	94	VAL	2.1
1	2	494	U	2.1
1	2	1491	U	2.1
18	C6	11	GLY	2.1
57	N1	147	VAL	2.1
5	s3	143	ARG	2.1
16	C4	78	ALA	2.1
16	c4	103	ARG	2.1
34	SR	71	CYS	2.1
48	M1	168	ASP	2.1
55	m9	182	ASP	2.1
57	N1	41	ASP	2.1
1	2	1492	A	2.1
2	s0	170	ILE	2.1
12	C0	25	LYS	2.1
39	l2	15	ILE	2.1
42	L5	69	ILE	2.1
22	d0	49	ASN	2.1
25	D3	28	ASN	2.1
27	D5	45	GLU	2.1
45	L8	161	GLU	2.1
56	N0	74	ASN	2.1
12	C0	58	GLN	2.1
3	S1	38	PHE	2.1
3	s1	105	PHE	2.1
10	S8	113	PHE	2.1
39	L2	63	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
61	n5	32	PHE	2.1
4	s2	148	LEU	2.1
6	S4	78	THR	2.1
25	D3	11	SER	2.1
9	S7	143	LEU	2.1
24	D2	94	LEU	2.1
83	p0	186	THR	2.1
2	s0	58	VAL	2.1
7	S5	143	ARG	2.1
8	s6	157	VAL	2.1
9	S7	73	VAL	2.1
21	C9	45	MET	2.1
65	N9	24	PRO	2.1
56	N0	97	VAL	2.1
61	n5	110	VAL	2.1
6	S4	249	ALA	2.1
8	S6	151	ASP	2.1
48	M1	28	ASP	2.1
75	o9	44	TRP	2.1
80	e0	54	ARG	2.1
23	d1	37	ALA	2.1
29	D7	53	ALA	2.1
34	SR	212	ALA	2.1
35	SM	171	LYS	2.1
58	n2	69	ALA	2.1
60	n4	119	GLU	2.1
61	N5	128	ALA	2.1
6	s4	90	ILE	2.1
9	s7	173	TYR	2.1
13	C1	86	ILE	2.1
13	c1	84	ILE	2.1
19	C7	69	ILE	2.1
17	c5	128	HIS	2.1
21	c9	21	PHE	2.1
48	M1	127	PHE	2.1
8	S6	216	LEU	2.1
33	E1	103	LEU	2.1
34	SR	144	LEU	2.1
34	sR	202	LEU	2.1
41	l4	11	LEU	2.1
43	L6	18	LEU	2.1
45	L8	200	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
17	c5	8	LYS	2.1
23	d1	38	LYS	2.1
35	sM	23	LYS	2.1
41	l4	103	THR	2.1
46	L9	31	ARG	2.1
59	N3	3	GLY	2.1
65	n9	58	LYS	2.1
11	S9	58	ASP	2.1
13	c1	142	VAL	2.1
24	d2	63	VAL	2.1
55	m9	139	VAL	2.1
75	O9	24	PRO	2.1
20	C8	94	ASP	2.1
45	L8	148	ALA	2.1
67	O1	101	ALA	2.1
5	s3	79	TYR	2.1
7	s5	61	TYR	2.1
10	S8	152	ILE	2.1
39	L2	225	ILE	2.1
46	L9	20	ILE	2.1
75	o9	11	GLN	2.1
8	s6	22	HIS	2.1
9	S7	61	PHE	2.1
58	N2	15	PHE	2.1
78	Q2	90	HIS	2.1
6	S4	42	LEU	2.1
6	S4	187	ARG	2.1
6	S4	107	GLY	2.1
9	S7	154	LEU	2.1
9	S7	157	LYS	2.1
11	s9	185	GLY	2.1
15	C3	28	LEU	2.1
27	D5	83	LEU	2.1
34	sR	229	LYS	2.1
28	D6	7	SER	2.1
55	M9	155	LEU	2.1
57	n1	85	LEU	2.1
63	n7	81	LEU	2.1
70	o4	30	LEU	2.1
72	O6	50	LEU	2.1
83	p0	60	ARG	2.1
1	2	236	A	2.1

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Mol	Chain	Res	Type	RSRZ
10	s8	61	GLU	2.1
34	sR	138	GLY	2.1
7	S5	21	THR	2.1
10	s8	102	VAL	2.1
17	C5	78	THR	2.1
24	D2	105	THR	2.1
56	N0	134	ASP	2.1
1	2	795	U	2.1
36	1	2570	U	2.1
34	sR	220	ILE	2.1
35	SM	128	ALA	2.1
35	SM	169	ALA	2.1
39	l2	41	ILE	2.1
40	L3	22	ALA	2.1
54	m8	149	ALA	2.1
13	C1	90	TYR	2.1
52	M6	112	TYR	2.1
2	S0	116	LYS	2.1
3	s1	138	PHE	2.1
22	d0	52	LYS	2.1
33	E1	99	LYS	2.1
11	s9	62	ARG	2.1
17	C5	15	HIS	2.1
22	D0	85	ARG	2.1
55	M9	163	ARG	2.1
1	2	934	C	2.1
1	2	1620	C	2.1
2	s0	146	LEU	2.1
5	s3	86	LEU	2.1
5	s3	113	LEU	2.1
7	S5	105	GLY	2.1
15	c3	149	LEU	2.1
45	l8	189	LEU	2.1
56	N0	130	GLU	2.1
61	N5	40	LEU	2.1
73	o7	18	LEU	2.1
28	d6	57	SER	2.1
2	S0	152	PRO	2.0
6	S4	61	VAL	2.0
16	C4	67	VAL	2.0
25	d3	6	PRO	2.0
64	n8	88	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
73	O7	58	THR	2.0
1	2	1060	U	2.0
2	s0	98	ILE	2.0
3	s1	220	GLN	2.0
16	C4	12	GLN	2.0
60	n4	79	GLN	2.0
65	N9	55	ALA	2.0
4	s2	222	TYR	2.0
13	C1	26	LYS	2.0
25	d3	110	LYS	2.0
3	s1	100	PHE	2.0
11	S9	171	ARG	2.0
15	C3	64	ARG	2.0
15	c3	69	ASN	2.0
5	S3	38	GLU	2.0
7	S5	144	GLU	2.0
50	m4	92	GLU	2.0
19	C7	73	LEU	2.0
50	M4	5	SER	2.0
72	O6	51	SER	2.0
3	s1	31	ASP	2.0
5	s3	41	VAL	2.0
13	C1	64	VAL	2.0
24	d2	62	VAL	2.0
35	SM	54	PRO	2.0
36	5	543	C	2.0
39	L2	101	VAL	2.0
39	l2	142	ASP	2.0
1	6	1473	U	2.0
1	6	1695	G	2.0
13	c1	36	LYS	2.0
16	C4	39	ILE	2.0
16	C4	71	CYS	2.0
18	c6	30	LYS	2.0
19	C7	116	LYS	2.0
63	N7	75	VAL	2.0
45	L8	86	THR	2.0
71	o5	68	GLN	2.0
6	S4	114	ILE	2.0
16	C4	76	ILE	2.0
21	c9	19	ALA	2.0
70	o4	2	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
71	o5	105	ARG	2.0
5	S3	79	TYR	2.0
6	s4	99	PHE	2.0
15	c3	83	GLU	2.0
15	c3	129	TYR	2.0
20	C8	85	PHE	2.0
42	l5	123	GLU	2.0
48	m1	89	TYR	2.0
61	n5	46	TYR	2.0
79	Q3	37	TYR	2.0
2	S0	32	HIS	2.0
3	S1	228	LEU	2.0
40	L3	102	LEU	2.0
61	n5	126	LEU	2.0
10	s8	17	LYS	2.0
16	c4	56	SER	2.0
21	C9	41	SER	2.0
24	d2	88	LYS	2.0
47	m0	184	LYS	2.0
50	M4	10	SER	2.0
5	s3	222	VAL	2.0
20	c8	53	ASP	2.0
58	N2	62	VAL	2.0
4	S2	95	ARG	2.0
4	s2	178	ILE	2.0
1	2	1426	C	2.0
2	s0	96	THR	2.0
5	S3	70	THR	2.0
5	s3	9	ARG	2.0
7	S5	219	ARG	2.0
8	S6	180	THR	2.0
10	S8	22	ARG	2.0
11	s9	4	ALA	2.0
16	c4	26	THR	2.0
27	D5	56	THR	2.0
30	d8	19	THR	2.0
30	d8	22	ARG	2.0
36	1	3351	U	2.0
36	5	133	U	2.0
39	l2	112	ILE	2.0
67	o1	79	ARG	2.0
9	S7	17	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
15	c3	86	GLU	2.0
16	c4	78	ALA	2.0
71	o5	93	THR	2.0
74	O8	24	THR	2.0
20	c8	79	TYR	2.0
7	s5	44	ASN	2.0
12	c0	9	ASN	2.0
34	sR	319	ASN	2.0
13	c1	63	LEU	2.0
27	D5	80	LEU	2.0
34	SR	81	LEU	2.0
36	1	2401	A	2.0
36	1	2503	G	2.0
57	N1	31	LEU	2.0
6	s4	134	LYS	2.0
26	D4	117	LYS	2.0
13	C1	112	SER	2.0
45	L8	195	SER	2.0
79	q3	58	SER	2.0
7	S5	92	ARG	2.0
7	S5	225	ARG	2.0
15	c3	72	MET	2.0
17	C5	126	VAL	2.0
19	C7	74	GLN	2.0
30	d8	6	PRO	2.0
39	L2	230	VAL	2.0
42	L5	159	VAL	2.0
45	l8	215	VAL	2.0
47	m0	149	VAL	2.0
51	m5	137	PRO	2.0
63	N7	62	VAL	2.0
63	n7	74	VAL	2.0
8	S6	158	ILE	2.0
11	s9	186	GLU	2.0
27	D5	71	ILE	2.0
35	SM	116	GLU	2.0
43	L6	133	GLU	2.0
55	m9	140	GLU	2.0
2	S0	132	ALA	2.0
3	s1	98	THR	2.0
4	S2	206	THR	2.0
5	s3	19	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
36	1	3156	U	2.0
74	o8	41	THR	2.0
40	L3	130	PHE	2.0
1	6	1490	C	2.0
16	C4	87	GLY	2.0
20	c8	9	GLY	2.0
28	D6	28	LYS	2.0
28	d6	69	ASN	2.0
28	d6	94	ASN	2.0
36	5	1017	C	2.0
58	n2	70	LYS	2.0
45	l8	138	HIS	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
86	MG	5	3753	1/1	0.42	515.00	52,52,52,52	0
86	MG	6	1933	1/1	0.40	455.00	59,59,59,59	0
86	MG	1	3419	1/1	0.31	331.00	80,80,80,80	0
86	MG	4	222	1/1	0.41	245.00	48,48,48,48	0
86	MG	4	221	1/1	0.53	245.00	94,94,94,94	0
86	MG	6	1945	1/1	0.48	232.33	49,49,49,49	0
86	MG	1	3836	1/1	0.29	231.00	41,41,41,41	0
86	MG	2	1958	1/1	0.42	212.33	74,74,74,74	0
86	MG	6	2019	1/1	0.41	183.34	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4067	7/7	0.29	176.78	112,112,112,112	0
86	MG	2	2001	1/1	0.59	156.67	98,98,98,98	0
86	MG	6	2040	1/1	0.48	147.80	92,92,92,92	0
86	MG	2	2018	1/1	0.40	142.18	67,67,67,67	0
86	MG	5	3680	1/1	0.24	141.00	39,39,39,39	0
86	MG	1	3635	1/1	0.40	127.00	71,71,71,71	0
86	MG	6	2039	1/1	0.42	117.80	72,72,72,72	0
86	MG	1	3647	1/1	0.26	110.00	37,37,37,37	0
86	MG	1	3861	1/1	0.39	95.40	62,62,62,62	0
86	MG	5	3568	1/1	0.44	91.43	28,28,28,28	0
86	MG	6	2016	1/1	0.20	85.00	67,67,67,67	0
86	MG	5	3884	1/1	0.35	82.60	83,83,83,83	0
86	MG	2	2013	1/1	0.31	79.00	58,58,58,58	0
87	OHX	1	4186	7/7	0.42	78.67	156,156,156,156	0
86	MG	2	1904	1/1	0.42	75.57	70,70,70,70	0
86	MG	5	3410	1/1	0.32	74.60	41,41,41,41	0
86	MG	5	3676	1/1	0.34	74.20	39,39,39,39	0
86	MG	4	204	1/1	0.36	72.67	47,47,47,47	0
86	MG	5	3431	1/1	0.32	72.60	67,67,67,67	0
86	MG	2	1987	1/1	0.18	69.00	79,79,79,79	0
86	MG	1	3514	1/1	0.34	66.98	31,31,31,31	0
86	MG	6	1944	1/1	0.50	66.82	51,51,51,51	0
86	MG	1	3737	1/1	0.35	59.33	60,60,60,60	0
86	MG	5	3673	1/1	0.37	56.75	50,50,50,50	0
86	MG	5	3592	1/1	0.35	54.82	40,40,40,40	0
86	MG	5	3868	1/1	0.19	54.00	44,44,44,44	0
86	MG	1	3567	1/1	0.50	53.73	34,34,34,34	0
86	MG	2	1935	1/1	0.44	52.00	47,47,47,47	0
86	MG	1	3468	1/1	0.40	51.05	59,59,59,59	0
86	MG	1	3575	1/1	0.35	48.74	34,34,34,34	0
86	MG	2	2011	1/1	0.31	47.86	48,48,48,48	0
86	MG	5	3782	1/1	0.37	47.77	82,82,82,82	0
86	MG	6	1981	1/1	0.35	47.00	52,52,52,52	0
86	MG	5	3468	1/1	0.51	46.79	89,89,89,89	0
86	MG	1	3594	1/1	0.38	44.33	66,66,66,66	0
87	OHX	2	2158	7/7	0.48	44.19	128,128,128,128	0
86	MG	1	3775	1/1	0.25	43.51	57,57,57,57	0
86	MG	1	3537	1/1	0.41	43.50	51,51,51,51	0
86	MG	5	3491	1/1	0.28	43.31	43,43,43,43	0
86	MG	5	3622	1/1	0.30	40.43	39,39,39,39	0
86	MG	6	2011	1/1	0.35	40.35	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	2	1945	1/1	0.38	39.76	75,75,75,75	0
86	MG	5	3877	1/1	0.50	39.75	40,40,40,40	0
86	MG	5	3732	1/1	0.20	39.55	47,47,47,47	0
86	MG	13	401	1/1	0.42	39.19	22,22,22,22	0
86	MG	1	3493	1/1	0.25	39.00	74,74,74,74	0
86	MG	1	3538	1/1	0.45	38.71	31,31,31,31	0
86	MG	5	3895	1/1	0.44	38.33	104,104,104,104	0
86	MG	5	3519	1/1	0.42	38.25	23,23,23,23	0
86	MG	1	3450	1/1	0.29	37.55	36,36,36,36	0
86	MG	1	3684	1/1	0.24	37.50	40,40,40,40	0
86	MG	5	3881	1/1	0.31	36.08	29,29,29,29	0
87	OHX	8	227	7/7	0.26	36.02	116,116,116,116	0
86	MG	5	3547	1/1	0.41	35.47	45,45,45,45	0
86	MG	5	3573	1/1	0.32	35.44	34,34,34,34	0
87	OHX	1	4163	7/7	0.35	35.33	144,144,144,144	0
86	MG	5	3576	1/1	0.33	35.19	33,33,33,33	0
86	MG	1	3545	1/1	0.24	35.17	37,37,37,37	0
86	MG	5	3435	1/1	0.30	34.71	76,76,76,76	0
86	MG	1	3851	1/1	0.40	34.31	68,68,68,68	0
86	MG	2	1953	1/1	0.47	33.95	111,111,111,111	0
86	MG	5	3563	1/1	0.38	33.77	24,24,24,24	0
86	MG	2	1977	1/1	0.36	33.15	91,91,91,91	0
86	MG	5	3664	1/1	0.48	33.08	54,54,54,54	0
86	MG	6	1948	1/1	0.33	32.46	41,41,41,41	0
86	MG	2	1914	1/1	0.40	32.40	59,59,59,59	0
86	MG	5	3711	1/1	0.30	32.27	90,90,90,90	0
86	MG	1	3856	1/1	0.27	32.25	52,52,52,52	0
86	MG	2	2008	1/1	0.30	32.25	68,68,68,68	0
86	MG	1	3409	1/1	0.34	32.19	34,34,34,34	0
86	MG	1	3449	1/1	0.31	32.12	38,38,38,38	0
86	MG	2	1921	1/1	0.41	32.06	48,48,48,48	0
86	MG	6	1931	1/1	0.44	32.01	53,53,53,53	0
86	MG	5	3526	1/1	0.40	31.96	26,26,26,26	0
86	MG	5	3687	1/1	0.43	31.82	63,63,63,63	0
86	MG	5	3623	1/1	0.26	31.50	41,41,41,41	0
86	MG	5	3541	1/1	0.32	31.49	19,19,19,19	0
86	MG	1	3559	1/1	0.27	31.29	49,49,49,49	0
86	MG	1	3547	1/1	0.45	31.25	58,58,58,58	0
86	MG	2	1988	1/1	0.31	31.09	54,54,54,54	0
86	MG	2	1932	1/1	0.35	30.69	54,54,54,54	0
86	MG	2	2016	1/1	0.40	30.22	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3844	1/1	0.27	29.86	52,52,52,52	0
86	MG	1	3544	1/1	0.38	29.74	32,32,32,32	0
86	MG	1	3574	1/1	0.44	29.61	32,32,32,32	0
86	MG	1	3667	1/1	0.38	29.59	65,65,65,65	0
86	MG	6	1921	1/1	0.35	29.52	40,40,40,40	0
86	MG	6	2038	1/1	0.47	29.35	45,45,45,45	0
86	MG	2	1924	1/1	0.39	29.28	70,70,70,70	0
86	MG	5	3469	1/1	0.29	29.25	37,37,37,37	0
86	MG	5	3484	1/1	0.38	29.18	52,52,52,52	0
86	MG	2	2012	1/1	0.39	29.12	71,71,71,71	0
86	MG	5	3730	1/1	0.35	28.82	90,90,90,90	0
86	MG	1	3805	1/1	0.74	28.75	157,157,157,157	0
86	MG	5	3447	1/1	0.28	28.60	38,38,38,38	0
86	MG	1	3855	1/1	0.57	28.50	76,76,76,76	0
86	MG	2	2000	1/1	0.54	28.38	78,78,78,78	0
86	MG	2	1913	1/1	0.41	28.21	68,68,68,68	0
86	MG	5	3532	1/1	0.33	28.18	23,23,23,23	0
86	MG	3	204	1/1	0.54	28.07	48,48,48,48	0
86	MG	1	3480	1/1	0.34	28.07	36,36,36,36	0
86	MG	1	3562	1/1	0.35	27.94	31,31,31,31	0
86	MG	5	3572	1/1	0.42	27.68	20,20,20,20	0
86	MG	1	3614	1/1	0.29	27.55	50,50,50,50	0
86	MG	2	1980	1/1	0.37	27.50	56,56,56,56	0
86	MG	1	3769	1/1	0.21	27.46	79,79,79,79	0
86	MG	1	3599	1/1	0.37	27.45	38,38,38,38	0
86	MG	6	1916	1/1	0.29	27.21	55,55,55,55	0
87	OHX	4	236	7/7	0.31	27.16	118,118,118,118	0
86	MG	2	2007	1/1	0.34	27.15	45,45,45,45	0
86	MG	5	3414	1/1	0.30	27.15	31,31,31,31	0
86	MG	6	2029	1/1	0.48	26.91	77,77,77,77	0
86	MG	1	3829	1/1	0.34	26.58	28,28,28,28	0
86	MG	1	3529	1/1	0.40	26.58	41,41,41,41	0
86	MG	5	3614	1/1	0.34	26.33	44,44,44,44	0
87	OHX	1	4192	7/7	0.32	26.29	126,126,126,126	0
86	MG	6	1943	1/1	0.39	26.25	38,38,38,38	0
86	MG	1	3556	1/1	0.42	26.05	26,26,26,26	0
86	MG	6	1909	1/1	0.44	26.00	82,82,82,82	0
86	MG	1	3530	1/1	0.42	25.78	34,34,34,34	0
86	MG	1	3830	1/1	0.38	25.70	17,17,17,17	0
86	MG	1	3677	1/1	0.33	25.65	56,56,56,56	0
86	MG	1	3444	1/1	0.46	25.60	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3620	1/1	0.27	25.52	39,39,39,39	0
86	MG	2	1956	1/1	0.41	25.50	56,56,56,56	0
86	MG	5	3509	1/1	0.34	25.50	27,27,27,27	0
86	MG	1	3591	1/1	0.43	25.49	36,36,36,36	0
86	MG	7	214	1/1	0.34	25.46	47,47,47,47	0
86	MG	1	3579	1/1	0.32	25.20	23,23,23,23	0
86	MG	1	3580	1/1	0.41	25.17	34,34,34,34	0
86	MG	1	3516	1/1	0.40	25.16	32,32,32,32	0
86	MG	5	3599	1/1	0.42	25.02	27,27,27,27	0
86	MG	3	213	1/1	0.39	24.71	51,51,51,51	0
86	MG	2	1973	1/1	0.29	24.51	63,63,63,63	0
86	MG	1	3557	1/1	0.37	24.50	36,36,36,36	0
86	MG	1	3549	1/1	0.32	24.47	52,52,52,52	0
86	MG	5	3649	1/1	0.32	24.33	43,43,43,43	0
86	MG	6	1903	1/1	0.34	24.31	43,43,43,43	0
86	MG	5	3658	1/1	0.36	24.25	51,51,51,51	0
86	MG	1	3835	1/1	0.34	24.16	32,32,32,32	0
86	MG	5	3652	1/1	0.45	24.06	66,66,66,66	0
86	MG	5	3554	1/1	0.34	24.00	41,41,41,41	0
86	MG	2	1957	1/1	0.31	24.00	74,74,74,74	0
86	MG	5	3636	1/1	0.48	23.90	72,72,72,72	0
86	MG	1	3512	1/1	0.37	23.81	24,24,24,24	0
86	MG	6	1959	1/1	0.34	23.74	51,51,51,51	0
86	MG	5	3588	1/1	0.33	23.72	23,23,23,23	0
86	MG	5	3505	1/1	0.43	23.71	30,30,30,30	0
86	MG	5	3780	1/1	0.20	23.67	61,61,61,61	0
86	MG	2	2006	1/1	0.42	23.60	45,45,45,45	0
86	MG	5	3597	1/1	0.46	23.58	27,27,27,27	0
86	MG	1	3709	1/1	0.29	23.56	30,30,30,30	0
86	MG	5	3438	1/1	0.31	23.50	45,45,45,45	0
86	MG	5	3634	1/1	0.48	23.50	87,87,87,87	0
86	MG	5	3889	1/1	0.47	23.42	52,52,52,52	0
86	MG	1	3713	1/1	0.43	23.32	74,74,74,74	0
86	MG	1	3854	1/1	0.32	23.25	43,43,43,43	0
86	MG	6	1953	1/1	0.45	23.24	57,57,57,57	0
87	OHX	1	4176	7/7	0.35	23.16	109,109,109,109	0
87	OHX	1	4207	7/7	0.41	23.16	110,110,110,110	0
86	MG	5	3511	1/1	0.41	23.15	26,26,26,26	0
86	MG	5	3611	1/1	0.28	23.14	24,24,24,24	0
86	MG	5	3518	1/1	0.33	23.02	34,34,34,34	0
86	MG	6	1908	1/1	0.25	22.67	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3591	1/1	0.41	22.54	33,33,33,33	0
86	MG	1	3593	1/1	0.46	22.48	47,47,47,47	0
87	OHX	5	4187	7/7	0.36	22.34	105,105,105,105	0
86	MG	5	3754	1/1	0.27	22.33	39,39,39,39	0
87	OHX	5	4204	7/7	0.32	22.31	127,127,127,127	0
86	MG	1	3581	1/1	0.36	22.17	34,34,34,34	0
87	OHX	5	4237	7/7	0.29	22.13	134,134,134,134	0
86	MG	5	3598	1/1	0.32	21.97	27,27,27,27	0
86	MG	2	1974	1/1	0.44	21.92	76,76,76,76	0
86	MG	5	3508	1/1	0.35	21.86	34,34,34,34	0
86	MG	5	3418	1/1	0.36	21.80	21,21,21,21	0
86	MG	1	3625	1/1	0.54	21.78	77,77,77,77	0
86	MG	2	1928	1/1	0.38	21.77	74,74,74,74	0
87	OHX	2	2163	7/7	0.40	21.73	142,142,142,142	0
86	MG	1	3595	1/1	0.35	21.71	25,25,25,25	0
86	MG	5	3862	1/1	0.19	21.67	51,51,51,51	0
86	MG	1	3484	1/1	0.45	21.66	42,42,42,42	0
86	MG	1	3531	1/1	0.28	21.65	56,56,56,56	0
86	MG	1	3565	1/1	0.37	21.65	47,47,47,47	0
86	MG	1	3750	1/1	0.37	21.62	58,58,58,58	0
86	MG	1	3785	1/1	0.55	21.52	36,36,36,36	0
86	MG	2	2017	1/1	0.42	21.50	68,68,68,68	0
86	MG	1	3417	1/1	0.29	21.44	37,37,37,37	0
86	MG	1	3528	1/1	0.41	21.42	30,30,30,30	0
86	MG	1	3563	1/1	0.41	21.15	25,25,25,25	0
86	MG	5	3536	1/1	0.33	21.14	33,33,33,33	0
86	MG	3	207	1/1	0.39	21.09	58,58,58,58	0
86	MG	8	203	1/1	0.40	21.04	47,47,47,47	0
86	MG	1	3504	1/1	0.45	21.04	36,36,36,36	0
86	MG	5	3894	1/1	0.21	21.00	53,53,53,53	0
86	MG	5	3872	1/1	0.33	20.99	31,31,31,31	0
86	MG	2	1941	1/1	0.35	20.82	73,73,73,73	0
86	MG	5	3551	1/1	0.48	20.70	50,50,50,50	0
86	MG	n3	201	1/1	0.38	20.66	22,22,22,22	0
86	MG	5	3450	1/1	0.28	20.64	52,52,52,52	0
86	MG	1	3729	1/1	0.39	20.61	28,28,28,28	0
86	MG	5	3729	1/1	0.26	20.61	38,38,38,38	0
86	MG	1	3408	1/1	0.34	20.54	32,32,32,32	0
86	MG	1	3404	1/1	0.42	20.52	50,50,50,50	0
86	MG	7	205	1/1	0.36	20.24	26,26,26,26	0
86	MG	1	3812	1/1	0.33	20.20	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4204	7/7	0.32	20.15	119,119,119,119	0
87	OHX	5	4195	7/7	0.30	20.09	118,118,118,118	0
86	MG	6	1918	1/1	0.40	20.09	64,64,64,64	0
86	MG	6	1961	1/1	0.34	20.07	62,62,62,62	0
86	MG	1	3499	1/1	0.37	19.87	66,66,66,66	0
87	OHX	1	4171	7/7	0.33	19.86	123,123,123,123	0
86	MG	6	1960	1/1	0.40	19.74	41,41,41,41	0
86	MG	1	3553	1/1	0.45	19.69	35,35,35,35	0
86	MG	5	3506	1/1	0.23	19.58	45,45,45,45	0
86	MG	2	1910	1/1	0.28	19.49	51,51,51,51	0
86	MG	1	3592	1/1	0.30	19.39	35,35,35,35	0
86	MG	5	3550	1/1	0.43	19.16	37,37,37,37	0
86	MG	1	3843	1/1	0.39	18.99	54,54,54,54	0
86	MG	5	3736	1/1	0.32	18.90	65,65,65,65	0
86	MG	5	3586	1/1	0.41	18.87	31,31,31,31	0
86	MG	5	3655	1/1	0.39	18.87	65,65,65,65	0
86	MG	1	3462	1/1	0.30	18.80	25,25,25,25	0
86	MG	5	3557	1/1	0.26	18.79	37,37,37,37	0
86	MG	1	3576	1/1	0.35	18.74	23,23,23,23	0
86	MG	5	3472	1/1	0.29	18.67	29,29,29,29	0
86	MG	1	3694	1/1	0.25	18.65	34,34,34,34	0
86	MG	3	214	1/1	0.32	18.60	60,60,60,60	0
86	MG	5	3525	1/1	0.27	18.59	36,36,36,36	0
86	MG	7	202	1/1	0.29	18.54	26,26,26,26	0
86	MG	1	3849	1/1	0.25	18.49	41,41,41,41	0
87	OHX	2	2142	7/7	0.37	18.47	115,115,115,115	0
86	MG	7	209	1/1	0.39	18.46	38,38,38,38	0
86	MG	2	1959	1/1	0.49	18.40	94,94,94,94	0
86	MG	5	3585	1/1	0.47	18.40	34,34,34,34	0
86	MG	1	3535	1/1	0.34	18.34	31,31,31,31	0
86	MG	5	3475	1/1	0.28	18.33	51,51,51,51	0
86	MG	6	1925	1/1	0.43	18.24	36,36,36,36	0
87	OHX	1	4141	7/7	0.33	18.23	124,124,124,124	0
86	MG	6	1955	1/1	0.44	18.16	34,34,34,34	0
87	OHX	6	2148	7/7	0.26	17.91	96,96,96,96	0
86	MG	5	3540	1/1	0.27	17.87	36,36,36,36	0
86	MG	3	206	1/1	0.38	17.85	31,31,31,31	0
86	MG	1	3795	1/1	0.30	17.82	24,24,24,24	0
87	OHX	5	4209	7/7	0.27	17.79	119,119,119,119	0
86	MG	1	3518	1/1	0.34	17.74	23,23,23,23	0
87	OHX	5	4228	7/7	0.32	17.72	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3739	1/1	0.24	17.70	50,50,50,50	0
86	MG	5	3583	1/1	0.27	17.68	37,37,37,37	0
86	MG	8	201	1/1	0.34	17.65	35,35,35,35	0
86	MG	5	3524	1/1	0.42	17.58	41,41,41,41	0
86	MG	1	3543	1/1	0.38	17.55	32,32,32,32	0
86	MG	1	3817	1/1	0.34	17.52	52,52,52,52	0
86	MG	5	3890	1/1	0.39	17.43	46,46,46,46	0
86	MG	1	3754	1/1	0.25	17.41	21,21,21,21	0
86	MG	5	3899	1/1	0.41	17.40	52,52,52,52	0
86	MG	4	215	1/1	0.34	17.36	50,50,50,50	0
86	MG	5	3534	1/1	0.28	17.36	35,35,35,35	0
87	OHX	5	4213	7/7	0.32	17.34	112,112,112,112	0
86	MG	N3	201	1/1	0.39	17.31	30,30,30,30	0
86	MG	1	3432	1/1	0.31	17.24	38,38,38,38	0
86	MG	5	3502	1/1	0.36	17.21	24,24,24,24	0
86	MG	5	3574	1/1	0.35	17.11	28,28,28,28	0
86	MG	5	3575	1/1	0.38	17.10	36,36,36,36	0
87	OHX	5	4222	7/7	0.29	17.09	124,124,124,124	0
86	MG	1	3513	1/1	0.37	16.97	21,21,21,21	0
86	MG	6	2046	1/1	0.37	16.93	60,60,60,60	0
87	OHX	2	2171	7/7	0.40	16.92	127,127,127,127	0
86	MG	5	3458	1/1	0.31	16.92	23,23,23,23	0
86	MG	5	4256	1/1	0.55	16.92	29,29,29,29	0
86	MG	5	3485	1/1	0.39	16.90	31,31,31,31	0
86	MG	6	1937	1/1	0.29	16.87	42,42,42,42	0
86	MG	5	3637	1/1	0.30	16.81	37,37,37,37	0
86	MG	5	3577	1/1	0.40	16.76	44,44,44,44	0
86	MG	5	3850	1/1	0.32	16.76	49,49,49,49	0
86	MG	6	1963	1/1	0.38	16.70	68,68,68,68	0
86	MG	5	3558	1/1	0.34	16.60	23,23,23,23	0
86	MG	2	1929	1/1	0.40	16.58	57,57,57,57	0
86	MG	1	3506	1/1	0.35	16.56	38,38,38,38	0
87	OHX	1	4189	7/7	0.44	16.54	116,116,116,116	0
86	MG	5	3581	1/1	0.39	16.53	36,36,36,36	0
86	MG	5	3533	1/1	0.42	16.48	40,40,40,40	0
86	MG	5	3697	1/1	0.22	16.47	67,67,67,67	0
86	MG	1	3511	1/1	0.34	16.41	27,27,27,27	0
86	MG	1	3696	1/1	0.20	16.40	38,38,38,38	0
86	MG	1	3522	1/1	0.39	16.39	33,33,33,33	0
86	MG	5	3543	1/1	0.38	16.39	31,31,31,31	0
86	MG	3	205	1/1	0.34	16.37	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3837	1/1	0.26	16.33	56,56,56,56	0
86	MG	1	3465	1/1	0.24	16.28	58,58,58,58	0
86	MG	6	1914	1/1	0.34	16.26	35,35,35,35	0
86	MG	1	3597	1/1	0.34	16.15	19,19,19,19	0
86	MG	5	3434	1/1	0.35	16.11	51,51,51,51	0
86	MG	1	3461	1/1	0.27	16.11	28,28,28,28	0
86	MG	5	3627	1/1	0.27	16.08	36,36,36,36	0
86	MG	5	3501	1/1	0.35	16.06	34,34,34,34	0
86	MG	5	3549	1/1	0.37	16.04	48,48,48,48	0
86	MG	5	3451	1/1	0.33	16.00	55,55,55,55	0
86	MG	6	1919	1/1	0.34	15.99	38,38,38,38	0
86	MG	1	3853	1/1	0.33	15.95	78,78,78,78	0
86	MG	3	201	1/1	0.36	15.95	66,66,66,66	0
86	MG	5	3523	1/1	0.30	15.88	26,26,26,26	0
86	MG	5	3564	1/1	0.47	15.81	33,33,33,33	0
87	OHX	1	4137	7/7	0.32	15.65	113,113,113,113	0
86	MG	5	3766	1/1	0.37	15.59	36,36,36,36	0
86	MG	6	1920	1/1	0.36	15.46	52,52,52,52	0
86	MG	5	3639	1/1	0.20	15.39	49,49,49,49	0
86	MG	5	3772	1/1	0.35	15.38	69,69,69,69	0
86	MG	5	3561	1/1	0.37	15.35	29,29,29,29	0
86	MG	6	1917	1/1	0.33	15.35	48,48,48,48	0
87	OHX	1	4177	7/7	0.31	15.32	128,128,128,128	0
86	MG	5	3874	1/1	0.48	15.25	48,48,48,48	0
86	MG	1	3552	1/1	0.35	15.24	30,30,30,30	0
87	OHX	5	4215	7/7	0.33	15.19	121,121,121,121	0
86	MG	5	3428	1/1	0.33	15.04	39,39,39,39	0
86	MG	6	1922	1/1	0.33	15.03	47,47,47,47	0
86	MG	1	3859	1/1	0.37	15.02	120,120,120,120	0
86	MG	5	3444	1/1	0.26	15.00	31,31,31,31	0
86	MG	1	3649	1/1	0.36	14.96	43,43,43,43	0
86	MG	6	2014	1/1	0.53	14.77	124,124,124,124	0
86	MG	6	1929	1/1	0.35	14.76	48,48,48,48	0
86	MG	1	3509	1/1	0.33	14.73	42,42,42,42	0
86	MG	5	3774	1/1	0.35	14.72	28,28,28,28	0
87	OHX	6	2182	7/7	0.34	14.63	124,124,124,124	0
86	MG	5	3778	1/1	0.26	14.61	65,65,65,65	0
86	MG	1	3605	1/1	0.29	14.60	30,30,30,30	0
86	MG	5	3740	1/1	0.32	14.59	69,69,69,69	0
86	MG	5	3482	1/1	0.39	14.54	62,62,62,62	0
86	MG	1	3459	1/1	0.35	14.48	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3711	1/1	0.31	14.48	56,56,56,56	0
87	OHX	2	2161	7/7	0.31	14.48	146,146,146,146	0
86	MG	1	3740	1/1	0.30	14.46	57,57,57,57	0
86	MG	1	3761	1/1	0.24	14.44	27,27,27,27	0
86	MG	5	3403	1/1	0.42	14.43	58,58,58,58	0
86	MG	1	3412	1/1	0.35	14.42	37,37,37,37	0
86	MG	6	1951	1/1	0.39	14.41	60,60,60,60	0
86	MG	5	3578	1/1	0.34	14.41	29,29,29,29	0
87	OHX	5	4218	7/7	0.34	14.40	117,117,117,117	0
86	MG	1	3584	1/1	0.32	14.39	34,34,34,34	0
86	MG	5	3566	1/1	0.27	14.36	20,20,20,20	0
86	MG	5	3565	1/1	0.38	14.35	27,27,27,27	0
86	MG	5	3641	1/1	0.40	14.30	34,34,34,34	0
86	MG	4	207	1/1	0.35	14.25	34,34,34,34	0
86	MG	2	1971	1/1	0.32	14.17	69,69,69,69	0
86	MG	6	2008	1/1	0.17	14.14	47,47,47,47	0
86	MG	1	3572	1/1	0.37	14.13	38,38,38,38	0
86	MG	2	1908	1/1	0.25	14.12	65,65,65,65	0
86	MG	1	3615	1/1	0.30	14.06	33,33,33,33	0
86	MG	6	1958	1/1	0.33	14.06	47,47,47,47	0
86	MG	1	3600	1/1	0.42	14.04	19,19,19,19	0
86	MG	1	3515	1/1	0.41	14.03	31,31,31,31	0
86	MG	5	3650	1/1	0.30	14.00	45,45,45,45	0
86	MG	7	201	1/1	0.46	13.99	39,39,39,39	0
86	MG	2	1918	1/1	0.37	13.99	49,49,49,49	0
86	MG	1	3573	1/1	0.33	13.95	27,27,27,27	0
86	MG	6	1942	1/1	0.26	13.94	30,30,30,30	0
86	MG	1	3745	1/1	0.25	13.94	26,26,26,26	0
86	MG	1	3720	1/1	0.37	13.93	51,51,51,51	0
86	MG	2	2015	1/1	0.41	13.82	67,67,67,67	0
86	MG	6	1946	1/1	0.41	13.77	55,55,55,55	0
87	OHX	6	2166	7/7	0.23	13.68	132,132,132,132	0
86	MG	5	3596	1/1	0.41	13.65	35,35,35,35	0
86	MG	5	3883	1/1	0.28	13.59	47,47,47,47	0
86	MG	5	3822	1/1	0.37	13.57	37,37,37,37	0
86	MG	5	3835	1/1	0.34	13.51	37,37,37,37	0
86	MG	6	1977	1/1	0.29	13.47	56,56,56,56	0
86	MG	5	3538	1/1	0.40	13.45	36,36,36,36	0
86	MG	1	3815	1/1	0.55	13.43	110,110,110,110	0
87	OHX	6	2184	7/7	0.36	13.38	127,127,127,127	0
86	MG	5	3739	1/1	0.32	13.37	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4184	7/7	0.38	13.32	120,120,120,120	0
86	MG	6	1906	1/1	0.37	13.27	44,44,44,44	0
86	MG	1	3527	1/1	0.32	13.25	24,24,24,24	0
87	OHX	5	4178	7/7	0.37	13.18	97,97,97,97	0
86	MG	4	211	1/1	0.23	13.14	51,51,51,51	0
86	MG	5	3480	1/1	0.27	13.11	63,63,63,63	0
86	MG	1	3431	1/1	0.30	13.08	42,42,42,42	0
86	MG	5	3875	1/1	0.35	13.06	41,41,41,41	0
86	MG	1	3402	1/1	0.35	13.06	46,46,46,46	0
86	MG	6	2042	1/1	0.38	13.05	71,71,71,71	0
86	MG	1	3455	1/1	0.34	13.04	54,54,54,54	0
87	OHX	2	2168	7/7	0.36	12.97	139,139,139,139	0
87	OHX	1	4146	7/7	0.22	12.88	118,118,118,118	0
86	MG	5	3880	1/1	0.33	12.84	21,21,21,21	0
86	MG	5	3521	1/1	0.41	12.81	33,33,33,33	0
86	MG	6	2001	1/1	0.43	12.80	46,46,46,46	0
86	MG	5	3562	1/1	0.30	12.79	24,24,24,24	0
86	MG	5	3587	1/1	0.41	12.72	21,21,21,21	0
87	OHX	5	4186	7/7	0.29	12.71	109,109,109,109	0
86	MG	1	3588	1/1	0.31	12.70	30,30,30,30	0
87	OHX	2	2170	7/7	0.30	12.68	127,127,127,127	0
86	MG	5	3866	1/1	0.22	12.67	52,52,52,52	0
86	MG	5	3443	1/1	0.35	12.63	27,27,27,27	0
87	OHX	1	4188	7/7	0.28	12.61	114,114,114,114	0
86	MG	6	1928	1/1	0.36	12.61	60,60,60,60	0
86	MG	4	206	1/1	0.32	12.59	46,46,46,46	0
86	MG	1	3458	1/1	0.28	12.58	55,55,55,55	0
86	MG	1	3418	1/1	0.34	12.58	48,48,48,48	0
86	MG	5	3744	1/1	0.34	12.56	26,26,26,26	0
87	OHX	5	4159	7/7	0.26	12.54	96,96,96,96	0
87	OHX	2	2152	7/7	0.21	12.53	146,146,146,146	0
86	MG	1	3682	1/1	0.25	12.42	52,52,52,52	0
86	MG	1	3697	1/1	0.21	12.40	52,52,52,52	0
86	MG	5	3662	1/1	0.31	12.33	27,27,27,27	0
86	MG	1	3536	1/1	0.32	12.32	42,42,42,42	0
86	MG	5	3424	1/1	0.28	12.30	54,54,54,54	0
86	MG	5	3749	1/1	0.41	12.30	33,33,33,33	0
86	MG	5	3504	1/1	0.21	12.25	36,36,36,36	0
87	OHX	5	4239	7/7	0.30	12.24	124,124,124,124	0
87	OHX	5	4154	7/7	0.28	12.23	102,102,102,102	0
87	OHX	1	4209	7/7	0.30	12.18	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
86	MG	1	3561	1/1	0.34	12.14	35,35,35,35	0
87	OHX	8	224	7/7	0.33	12.13	123,123,123,123	0
86	MG	5	3499	1/1	0.27	12.11	46,46,46,46	0
87	OHX	2	2124	7/7	0.28	12.06	110,110,110,110	0
86	MG	1	3613	1/1	0.21	11.95	42,42,42,42	0
87	OHX	6	2179	7/7	0.30	11.94	123,123,123,123	0
86	MG	1	3502	1/1	0.34	11.89	36,36,36,36	0
86	MG	5	3448	1/1	0.28	11.86	37,37,37,37	0
86	MG	5	3531	1/1	0.34	11.81	26,26,26,26	0
86	MG	2	1919	1/1	0.46	11.77	66,66,66,66	0
86	MG	5	3456	1/1	0.23	11.76	43,43,43,43	0
86	MG	1	3485	1/1	0.28	11.72	34,34,34,34	0
86	MG	5	3580	1/1	0.33	11.71	30,30,30,30	0
86	MG	1	3813	1/1	0.34	11.71	53,53,53,53	0
87	OHX	1	4167	7/7	0.21	11.68	109,109,109,109	0
86	MG	1	3526	1/1	0.28	11.65	24,24,24,24	0
86	MG	1	3793	1/1	0.26	11.64	20,20,20,20	0
87	OHX	2	2135	7/7	0.25	11.61	116,116,116,116	0
86	MG	1	3533	1/1	0.26	11.61	31,31,31,31	0
86	MG	6	1940	1/1	0.45	11.60	76,76,76,76	0
87	OHX	1	4112	7/7	0.24	11.56	102,102,102,102	0
86	MG	2	1925	1/1	0.38	11.56	63,63,63,63	0
86	MG	1	3452	1/1	0.28	11.56	41,41,41,41	0
86	MG	2	1962	1/1	0.43	11.55	68,68,68,68	0
86	MG	5	3530	1/1	0.28	11.53	29,29,29,29	0
86	MG	5	3867	1/1	0.25	11.50	61,61,61,61	0
86	MG	1	3481	1/1	0.29	11.48	26,26,26,26	0
86	MG	5	3747	1/1	0.27	11.44	49,49,49,49	0
86	MG	6	1947	1/1	0.41	11.41	48,48,48,48	0
86	MG	5	3433	1/1	0.36	11.37	45,45,45,45	0
86	MG	1	3478	1/1	0.30	11.36	71,71,71,71	0
86	MG	1	3542	1/1	0.27	11.23	20,20,20,20	0
86	MG	5	3689	1/1	0.25	11.20	39,39,39,39	0
86	MG	5	3610	1/1	0.30	11.19	23,23,23,23	0
86	MG	5	3657	1/1	0.22	11.15	41,41,41,41	0
86	MG	5	3681	1/1	0.19	11.14	44,44,44,44	0
87	OHX	5	4151	7/7	0.23	11.06	108,108,108,108	0
87	OHX	5	4179	7/7	0.27	11.03	118,118,118,118	0
87	OHX	2	2177	7/7	0.27	11.02	156,156,156,156	0
86	MG	6	1907	1/1	0.38	10.98	55,55,55,55	0
86	MG	5	3409	1/1	0.35	10.92	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
86	MG	5	3786	1/1	0.26	10.90	25,25,25,25	0
87	OHX	1	4201	7/7	0.32	10.88	122,122,122,122	0
86	MG	6	1950	1/1	0.28	10.86	35,35,35,35	0
86	MG	1	3587	1/1	0.41	10.78	39,39,39,39	0
86	MG	6	2035	1/1	0.31	10.77	72,72,72,72	0
86	MG	1	3510	1/1	0.34	10.75	25,25,25,25	0
87	OHX	6	2205	7/7	0.33	10.75	129,129,129,129	0
86	MG	5	3612	1/1	0.30	10.71	32,32,32,32	0
86	MG	6	1956	1/1	0.43	10.68	42,42,42,42	0
87	OHX	6	2187	7/7	0.43	10.66	127,127,127,127	0
87	OHX	5	4230	7/7	0.29	10.65	136,136,136,136	0
86	MG	5	3834	1/1	0.30	10.62	41,41,41,41	0
86	MG	5	3493	1/1	0.27	10.56	56,56,56,56	0
86	MG	2	1917	1/1	0.35	10.56	53,53,53,53	0
86	MG	2	1964	1/1	0.33	10.54	85,85,85,85	0
86	MG	1	3797	1/1	0.22	10.51	43,43,43,43	0
86	MG	6	1972	1/1	0.28	10.50	58,58,58,58	0
86	MG	2	1915	1/1	0.38	10.49	61,61,61,61	0
86	MG	6	1939	1/1	0.33	10.47	54,54,54,54	0
87	OHX	1	4139	7/7	0.34	10.46	97,97,97,97	0
86	MG	5	3836	1/1	0.23	10.44	40,40,40,40	0
86	MG	6	2028	1/1	0.28	10.41	56,56,56,56	0
86	MG	5	3459	1/1	0.22	10.39	36,36,36,36	0
86	MG	5	3630	1/1	0.19	10.38	47,47,47,47	0
86	MG	1	3609	1/1	0.36	10.38	56,56,56,56	0
87	OHX	5	4149	7/7	0.30	10.35	114,114,114,114	0
86	MG	6	1982	1/1	0.32	10.35	64,64,64,64	0
86	MG	5	3507	1/1	0.31	10.35	28,28,28,28	0
86	MG	1	3626	1/1	0.32	10.34	31,31,31,31	0
87	OHX	5	4231	7/7	0.40	10.33	110,110,110,110	0
86	MG	1	3590	1/1	0.27	10.32	27,27,27,27	0
86	MG	1	3554	1/1	0.27	10.30	50,50,50,50	0
86	MG	5	3552	1/1	0.32	10.27	26,26,26,26	0
86	MG	1	3792	1/1	0.54	10.23	37,37,37,37	0
86	MG	1	3540	1/1	0.33	10.22	22,22,22,22	0
86	MG	1	3608	1/1	0.31	10.22	48,48,48,48	0
86	MG	5	3528	1/1	0.33	10.18	29,29,29,29	0
87	OHX	5	4139	7/7	0.33	10.14	110,110,110,110	0
87	OHX	6	2191	7/7	0.33	10.14	123,123,123,123	0
86	MG	5	3726	1/1	0.25	10.13	42,42,42,42	0
86	MG	5	3515	1/1	0.38	10.11	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3429	1/1	0.32	10.11	41,41,41,41	0
86	MG	5	3411	1/1	0.27	10.11	33,33,33,33	0
86	MG	5	3500	1/1	0.26	10.10	26,26,26,26	0
86	MG	1	3721	1/1	0.31	10.08	50,50,50,50	0
86	MG	1	3436	1/1	0.34	10.06	38,38,38,38	0
87	OHX	1	4061	7/7	0.28	10.05	126,126,126,126	0
87	OHX	5	4092	7/7	0.24	10.04	104,104,104,104	0
87	OHX	6	2175	7/7	0.41	10.03	114,114,114,114	0
86	MG	1	3814	1/1	0.16	10.00	45,45,45,45	0
86	MG	1	3505	1/1	0.28	10.00	29,29,29,29	0
86	MG	N3	202	1/1	0.29	9.96	57,57,57,57	0
87	OHX	1	4213	7/7	0.30	9.95	118,118,118,118	0
87	OHX	5	4181	7/7	0.27	9.95	121,121,121,121	0
86	MG	2	1993	1/1	0.33	9.91	88,88,88,88	0
87	OHX	1	4170	7/7	0.32	9.89	147,147,147,147	0
86	MG	5	3631	1/1	0.32	9.86	57,57,57,57	0
87	OHX	1	4169	7/7	0.32	9.85	137,137,137,137	0
86	MG	5	3496	1/1	0.35	9.83	23,23,23,23	0
87	OHX	1	4173	7/7	0.24	9.80	148,148,148,148	0
86	MG	1	3586	1/1	0.33	9.80	41,41,41,41	0
86	MG	6	1964	1/1	0.23	9.80	46,46,46,46	0
86	MG	5	3514	1/1	0.34	9.79	48,48,48,48	0
86	MG	1	3410	1/1	0.32	9.78	41,41,41,41	0
86	MG	o1	202	1/1	0.53	9.76	68,68,68,68	0
86	MG	5	3804	1/1	0.25	9.75	62,62,62,62	0
87	OHX	1	4175	7/7	0.28	9.74	137,137,137,137	0
86	MG	1	3675	1/1	0.28	9.73	21,21,21,21	0
86	MG	1	3446	1/1	0.36	9.71	44,44,44,44	0
86	MG	1	3453	1/1	0.30	9.69	35,35,35,35	0
86	MG	1	3764	1/1	0.31	9.57	42,42,42,42	0
86	MG	5	3569	1/1	0.32	9.56	25,25,25,25	0
86	MG	5	3594	1/1	0.31	9.56	30,30,30,30	0
87	OHX	1	4168	7/7	0.31	9.54	98,98,98,98	0
86	MG	2	1934	1/1	0.42	9.54	64,64,64,64	0
86	MG	5	3829	1/1	0.26	9.53	23,23,23,23	0
86	MG	1	3606	1/1	0.21	9.52	35,35,35,35	0
86	MG	2	1940	1/1	0.29	9.48	58,58,58,58	0
86	MG	1	3496	1/1	0.29	9.48	28,28,28,28	0
87	OHX	8	228	7/7	0.33	9.47	112,112,112,112	0
86	MG	5	3647	1/1	0.31	9.46	31,31,31,31	0
87	OHX	1	4153	7/7	0.22	9.40	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	6	1968	1/1	0.31	9.40	62,62,62,62	0
87	OHX	1	4152	7/7	0.28	9.39	123,123,123,123	0
86	MG	6	1993	1/1	0.29	9.39	60,60,60,60	0
86	MG	1	3497	1/1	0.25	9.38	39,39,39,39	0
86	MG	2	1985	1/1	0.36	9.38	99,99,99,99	0
87	OHX	1	4062	7/7	0.31	9.37	120,120,120,120	0
86	MG	1	3414	1/1	0.34	9.33	30,30,30,30	0
86	MG	6	2034	1/1	0.31	9.32	63,63,63,63	0
86	MG	1	3550	1/1	0.27	9.29	27,27,27,27	0
86	MG	1	3702	1/1	0.25	9.28	44,44,44,44	0
86	MG	5	3717	1/1	0.24	9.28	46,46,46,46	0
86	MG	2	1942	1/1	0.28	9.24	62,62,62,62	0
87	OHX	6	2113	7/7	0.27	9.20	110,110,110,110	0
87	OHX	2	2162	7/7	0.26	9.19	156,156,156,156	0
87	OHX	6	2172	7/7	0.29	9.19	101,101,101,101	0
86	MG	1	3598	1/1	0.34	9.18	26,26,26,26	0
87	OHX	1	4115	7/7	0.22	9.17	112,112,112,112	0
87	OHX	8	225	7/7	0.27	9.12	118,118,118,118	0
86	MG	5	3421	1/1	0.18	9.10	90,90,90,90	0
86	MG	1	3638	1/1	0.32	9.09	49,49,49,49	0
87	OHX	M7	207	7/7	0.37	9.04	93,93,93,93	0
87	OHX	1	4045	7/7	0.24	9.01	101,101,101,101	0
87	OHX	5	4142	7/7	0.30	9.00	117,117,117,117	0
86	MG	1	3517	1/1	0.33	9.00	28,28,28,28	0
86	MG	5	3445	1/1	0.30	8.89	22,22,22,22	0
86	MG	1	3693	1/1	0.25	8.88	44,44,44,44	0
86	MG	6	1966	1/1	0.41	8.86	76,76,76,76	0
86	MG	5	3683	1/1	0.39	8.83	79,79,79,79	0
86	MG	5	3527	1/1	0.27	8.82	45,45,45,45	0
87	OHX	1	4114	7/7	0.28	8.82	108,108,108,108	0
86	MG	1	3460	1/1	0.22	8.79	21,21,21,21	0
86	MG	5	3520	1/1	0.28	8.76	20,20,20,20	0
87	OHX	5	4192	7/7	0.27	8.74	109,109,109,109	0
86	MG	1	3443	1/1	0.34	8.73	73,73,73,73	0
87	OHX	5	4202	7/7	0.25	8.70	124,124,124,124	0
86	MG	6	1935	1/1	0.27	8.67	51,51,51,51	0
86	MG	5	3489	1/1	0.38	8.67	29,29,29,29	0
86	MG	2	1909	1/1	0.21	8.65	63,63,63,63	0
86	MG	1	3560	1/1	0.27	8.65	22,22,22,22	0
87	OHX	5	4160	7/7	0.25	8.63	113,113,113,113	0
86	MG	5	3556	1/1	0.34	8.62	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	2	1976	1/1	0.33	8.62	86,86,86,86	0
86	MG	2	1933	1/1	0.39	8.61	64,64,64,64	0
87	OHX	5	4161	7/7	0.29	8.60	113,113,113,113	0
86	MG	5	3593	1/1	0.34	8.58	27,27,27,27	0
87	OHX	1	4057	7/7	0.32	8.57	105,105,105,105	0
86	MG	5	3440	1/1	0.32	8.56	62,62,62,62	0
86	MG	1	3601	1/1	0.24	8.56	30,30,30,30	0
86	MG	1	3840	1/1	0.20	8.56	44,44,44,44	0
86	MG	1	3732	1/1	0.26	8.55	73,73,73,73	0
87	OHX	5	4229	7/7	0.26	8.53	156,156,156,156	0
87	OHX	1	4095	7/7	0.20	8.52	126,126,126,126	0
86	MG	1	3439	1/1	0.34	8.50	46,46,46,46	0
87	OHX	6	2127	7/7	0.31	8.50	91,91,91,91	0
86	MG	1	3451	1/1	0.30	8.48	29,29,29,29	0
87	OHX	5	4245	7/7	0.23	8.46	133,133,133,133	0
86	MG	1	3679	1/1	0.18	8.46	42,42,42,42	0
86	MG	2	2005	1/1	0.56	8.42	62,62,62,62	0
87	OHX	2	2116	7/7	0.23	8.41	123,123,123,123	0
86	MG	1	3401	1/1	0.31	8.39	36,36,36,36	0
86	MG	1	3705	1/1	0.20	8.38	57,57,57,57	0
86	MG	8	208	1/1	0.35	8.38	76,76,76,76	0
87	OHX	1	4142	7/7	0.26	8.37	125,125,125,125	0
86	MG	5	3477	1/1	0.26	8.37	68,68,68,68	0
87	OHX	1	4182	7/7	0.27	8.36	125,125,125,125	0
86	MG	1	3704	1/1	0.26	8.33	57,57,57,57	0
86	MG	1	3685	1/1	0.26	8.32	51,51,51,51	0
86	MG	2	1922	1/1	0.36	8.32	60,60,60,60	0
87	OHX	1	4072	7/7	0.29	8.25	90,90,90,90	0
86	MG	5	3560	1/1	0.30	8.24	22,22,22,22	0
86	MG	5	3429	1/1	0.27	8.16	23,23,23,23	0
87	OHX	5	4185	7/7	0.30	8.13	111,111,111,111	0
86	MG	1	3718	1/1	0.55	8.12	39,39,39,39	0
87	OHX	5	4162	7/7	0.27	8.12	104,104,104,104	0
86	MG	6	1983	1/1	0.38	8.11	47,47,47,47	0
87	OHX	2	2178	7/7	0.31	8.10	125,125,125,125	0
86	MG	2	1972	1/1	0.21	8.05	63,63,63,63	0
86	MG	5	3579	1/1	0.41	8.03	41,41,41,41	0
86	MG	2	1931	1/1	0.35	8.01	52,52,52,52	0
86	MG	1	3674	1/1	0.26	8.00	52,52,52,52	0
87	OHX	6	2188	7/7	0.22	8.00	160,160,160,160	0
87	OHX	5	4248	7/7	0.26	7.97	113,113,113,113	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	5	4138	7/7	0.26	7.96	115,115,115,115	0
86	MG	1	3616	1/1	0.26	7.96	34,34,34,34	0
87	OHX	2	2134	7/7	0.25	7.96	120,120,120,120	0
86	MG	5	3455	1/1	0.34	7.95	35,35,35,35	0
86	MG	5	3537	1/1	0.38	7.95	26,26,26,26	0
86	MG	3	202	1/1	0.24	7.93	40,40,40,40	0
86	MG	5	3545	1/1	0.32	7.93	62,62,62,62	0
86	MG	5	3882	1/1	0.28	7.90	33,33,33,33	0
86	MG	2	1927	1/1	0.40	7.89	49,49,49,49	0
86	MG	5	3807	1/1	0.42	7.88	94,94,94,94	0
86	MG	2	1906	1/1	0.24	7.83	45,45,45,45	0
86	MG	1	3498	1/1	0.27	7.83	22,22,22,22	0
87	OHX	1	4127	7/7	0.25	7.79	129,129,129,129	0
87	OHX	1	4125	7/7	0.27	7.78	107,107,107,107	0
86	MG	1	3569	1/1	0.26	7.76	23,23,23,23	0
87	OHX	6	2181	7/7	0.32	7.75	117,117,117,117	0
86	MG	1	3551	1/1	0.29	7.74	37,37,37,37	0
87	OHX	1	4190	7/7	0.25	7.71	123,123,123,123	0
86	MG	1	3521	1/1	0.35	7.69	61,61,61,61	0
87	OHX	1	4159	7/7	0.25	7.67	134,134,134,134	0
86	MG	1	3532	1/1	0.30	7.65	21,21,21,21	0
86	MG	6	1934	1/1	0.34	7.64	65,65,65,65	0
86	MG	5	3582	1/1	0.35	7.60	31,31,31,31	0
86	MG	6	1980	1/1	0.19	7.60	70,70,70,70	0
86	MG	D0	201	1/1	0.36	7.57	64,64,64,64	0
86	MG	6	1926	1/1	0.24	7.57	45,45,45,45	0
86	MG	5	3406	1/1	0.22	7.57	30,30,30,30	0
86	MG	5	3539	1/1	0.28	7.56	34,34,34,34	0
86	MG	6	1904	1/1	0.32	7.55	57,57,57,57	0
86	MG	1	3589	1/1	0.27	7.53	27,27,27,27	0
87	OHX	6	2161	7/7	0.46	7.53	115,115,115,115	0
87	OHX	5	4176	7/7	0.24	7.52	121,121,121,121	0
86	MG	5	3487	1/1	0.29	7.48	34,34,34,34	0
87	OHX	1	4185	7/7	0.27	7.44	131,131,131,131	0
86	MG	5	3848	1/1	0.30	7.44	39,39,39,39	0
86	MG	5	3709	1/1	0.24	7.39	43,43,43,43	0
87	OHX	6	2190	7/7	0.33	7.38	123,123,123,123	0
87	OHX	5	4173	7/7	0.26	7.37	83,83,83,83	0
86	MG	6	1985	1/1	0.32	7.36	40,40,40,40	0
86	MG	m1	201	1/1	0.36	7.34	54,54,54,54	0
87	OHX	6	2204	7/7	0.28	7.34	125,125,125,125	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	2	2147	7/7	0.27	7.27	110,110,110,110	0
86	MG	7	203	1/1	0.26	7.27	45,45,45,45	0
86	MG	1	3519	1/1	0.36	7.27	35,35,35,35	0
87	OHX	1	4174	7/7	0.24	7.26	122,122,122,122	0
86	MG	6	1911	1/1	0.23	7.21	41,41,41,41	0
86	MG	5	3420	1/1	0.27	7.21	62,62,62,62	0
86	MG	1	3699	1/1	0.24	7.21	35,35,35,35	0
87	OHX	5	4115	7/7	0.24	7.19	108,108,108,108	0
86	MG	5	3701	1/1	0.28	7.18	35,35,35,35	0
87	OHX	5	4128	7/7	0.24	7.16	113,113,113,113	0
87	OHX	1	4200	7/7	0.30	7.13	122,122,122,122	0
86	MG	1	3701	1/1	0.26	7.09	34,34,34,34	0
86	MG	5	3516	1/1	0.23	7.09	29,29,29,29	0
86	MG	5	3609	1/1	0.24	7.08	50,50,50,50	0
86	MG	5	3584	1/1	0.29	7.07	41,41,41,41	0
86	MG	5	3595	1/1	0.30	7.07	36,36,36,36	0
86	MG	2	1907	1/1	0.33	7.05	51,51,51,51	0
87	OHX	1	4135	7/7	0.24	7.05	104,104,104,104	0
86	MG	1	3473	1/1	0.27	7.03	22,22,22,22	0
87	OHX	1	4197	7/7	0.27	7.03	116,116,116,116	0
87	OHX	4	233	7/7	0.27	6.98	108,108,108,108	0
87	OHX	5	4226	7/7	0.25	6.97	119,119,119,119	0
86	MG	1	3457	1/1	0.25	6.97	35,35,35,35	0
86	MG	2	1949	1/1	0.23	6.97	53,53,53,53	0
86	MG	5	3553	1/1	0.29	6.96	40,40,40,40	0
86	MG	2	1926	1/1	0.34	6.96	84,84,84,84	0
86	MG	6	1979	1/1	0.27	6.93	42,42,42,42	0
86	MG	1	3657	1/1	0.22	6.93	29,29,29,29	0
86	MG	2	1938	1/1	0.36	6.93	58,58,58,58	0
86	MG	5	3498	1/1	0.25	6.92	32,32,32,32	0
86	MG	5	3764	1/1	0.26	6.90	37,37,37,37	0
86	MG	5	3464	1/1	0.32	6.89	26,26,26,26	0
86	MG	5	3830	1/1	0.23	6.86	42,42,42,42	0
86	MG	1	3479	1/1	0.22	6.86	64,64,64,64	0
86	MG	5	3757	1/1	0.19	6.86	53,53,53,53	0
87	OHX	6	2164	7/7	0.31	6.84	120,120,120,120	0
86	MG	5	3413	1/1	0.33	6.84	37,37,37,37	0
87	OHX	3	224	7/7	0.29	6.83	112,112,112,112	0
86	MG	5	3720	1/1	0.22	6.82	44,44,44,44	0
86	MG	5	3417	1/1	0.26	6.80	20,20,20,20	0
86	MG	3	212	1/1	0.29	6.80	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
86	MG	1	3570	1/1	0.30	6.80	24,24,24,24	0
86	MG	12	301	1/1	0.32	6.80	45,45,45,45	0
87	OHX	5	4126	7/7	0.18	6.78	126,126,126,126	0
87	OHX	6	2158	7/7	0.26	6.77	122,122,122,122	0
87	OHX	1	4203	7/7	0.35	6.75	120,120,120,120	0
87	OHX	5	4175	7/7	0.27	6.75	120,120,120,120	0
87	OHX	5	4184	7/7	0.30	6.74	106,106,106,106	0
86	MG	5	3857	1/1	0.21	6.71	59,59,59,59	0
86	MG	1	3405	1/1	0.52	6.68	82,82,82,82	0
87	OHX	2	2156	7/7	0.39	6.68	104,104,104,104	0
86	MG	1	3501	1/1	0.31	6.66	23,23,23,23	0
86	MG	1	3466	1/1	0.27	6.66	44,44,44,44	0
86	MG	1	4218	1/1	0.40	6.64	28,28,28,28	0
86	MG	1	3763	1/1	0.21	6.62	46,46,46,46	0
86	MG	1	3734	1/1	0.25	6.56	37,37,37,37	0
86	MG	6	1901	1/1	0.24	6.53	41,41,41,41	0
86	MG	1	3838	1/1	0.26	6.51	26,26,26,26	0
87	OHX	1	4013	7/7	0.21	6.48	108,108,108,108	0
87	OHX	1	4202	7/7	0.44	6.48	123,123,123,123	0
86	MG	5	3628	1/1	0.21	6.48	24,24,24,24	0
86	MG	5	3422	1/1	0.27	6.47	34,34,34,34	0
86	MG	1	3423	1/1	0.24	6.46	34,34,34,34	0
86	MG	1	3803	1/1	0.25	6.46	30,30,30,30	0
87	OHX	5	4219	7/7	0.18	6.46	158,158,158,158	0
86	MG	2	1937	1/1	0.36	6.45	53,53,53,53	0
87	OHX	1	4100	7/7	0.22	6.41	128,128,128,128	0
87	OHX	2	2145	7/7	0.35	6.41	122,122,122,122	0
86	MG	N8	204	1/1	0.49	6.41	30,30,30,30	0
86	MG	1	3564	1/1	0.25	6.41	42,42,42,42	0
86	MG	5	3570	1/1	0.33	6.39	29,29,29,29	0
86	MG	5	3885	1/1	0.27	6.39	23,23,23,23	0
86	MG	6	1932	1/1	0.21	6.37	38,38,38,38	0
87	OHX	5	4188	7/7	0.27	6.36	132,132,132,132	0
87	OHX	5	4150	7/7	0.25	6.36	129,129,129,129	0
86	MG	5	3785	1/1	0.18	6.35	56,56,56,56	0
86	MG	5	3644	1/1	0.30	6.34	54,54,54,54	0
87	OHX	5	4220	7/7	0.26	6.33	127,127,127,127	0
86	MG	1	3524	1/1	0.28	6.32	25,25,25,25	0
86	MG	5	3617	1/1	0.25	6.31	40,40,40,40	0
86	MG	2	1955	1/1	0.26	6.28	57,57,57,57	0
86	MG	1	3821	1/1	0.25	6.28	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3503	1/1	0.28	6.27	21,21,21,21	0
86	MG	6	1938	1/1	0.29	6.27	35,35,35,35	0
87	OHX	5	4223	7/7	0.33	6.25	116,116,116,116	0
86	MG	1	3651	1/1	0.30	6.24	61,61,61,61	0
86	MG	3	209	1/1	0.38	6.24	52,52,52,52	0
87	OHX	4	234	7/7	0.24	6.21	136,136,136,136	0
86	MG	5	3590	1/1	0.26	6.20	26,26,26,26	0
86	MG	5	3624	1/1	0.23	6.19	34,34,34,34	0
87	OHX	5	4183	7/7	0.25	6.17	119,119,119,119	0
86	MG	17	301	1/1	0.28	6.17	36,36,36,36	0
87	OHX	5	4146	7/7	0.25	6.15	108,108,108,108	0
86	MG	1	3611	1/1	0.23	6.13	42,42,42,42	0
87	OHX	5	4207	7/7	0.26	6.13	127,127,127,127	0
86	MG	6	1975	1/1	0.22	6.04	50,50,50,50	0
87	OHX	1	4063	7/7	0.29	6.04	111,111,111,111	0
86	MG	6	1930	1/1	0.24	6.03	50,50,50,50	0
86	MG	5	3734	1/1	0.22	6.03	63,63,63,63	0
86	MG	5	3787	1/1	0.23	6.03	33,33,33,33	0
86	MG	1	3435	1/1	0.17	6.02	35,35,35,35	0
86	MG	1	3491	1/1	0.24	6.01	24,24,24,24	0
86	MG	1	3624	1/1	0.21	6.00	44,44,44,44	0
86	MG	1	3816	1/1	0.26	5.99	34,34,34,34	0
87	OHX	1	4107	7/7	0.25	5.99	123,123,123,123	0
86	MG	2	1975	1/1	0.26	5.97	50,50,50,50	0
87	OHX	6	2048	7/7	0.21	5.95	64,64,64,64	0
86	MG	5	3660	1/1	0.22	5.95	31,31,31,31	0
86	MG	5	3705	1/1	0.26	5.94	61,61,61,61	0
86	MG	5	3626	1/1	0.26	5.93	36,36,36,36	0
86	MG	1	3778	1/1	0.18	5.93	64,64,64,64	0
86	MG	1	3832	1/1	0.26	5.92	29,29,29,29	0
86	MG	6	2043	1/1	0.24	5.92	41,41,41,41	0
86	MG	1	3741	1/1	0.26	5.89	42,42,42,42	0
86	MG	1	3539	1/1	0.23	5.89	38,38,38,38	0
86	MG	5	3544	1/1	0.23	5.86	25,25,25,25	0
86	MG	6	1927	1/1	0.27	5.85	43,43,43,43	0
86	MG	5	3738	1/1	0.24	5.85	50,50,50,50	0
86	MG	6	1912	1/1	0.32	5.84	62,62,62,62	0
86	MG	5	3721	1/1	0.24	5.82	57,57,57,57	0
86	MG	1	3508	1/1	0.36	5.82	22,22,22,22	0
86	MG	d3	201	1/1	0.71	5.82	44,44,44,44	0
86	MG	7	212	1/1	0.34	5.82	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3541	1/1	0.22	5.81	49,49,49,49	0
86	MG	8	206	1/1	0.37	5.81	46,46,46,46	0
87	OHX	5	4105	7/7	0.25	5.80	94,94,94,94	0
86	MG	1	3577	1/1	0.30	5.79	22,22,22,22	0
86	MG	5	3571	1/1	0.39	5.79	29,29,29,29	0
87	OHX	6	2122	7/7	0.23	5.78	100,100,100,100	0
87	OHX	5	4190	7/7	0.23	5.77	125,125,125,125	0
86	MG	1	3648	1/1	0.26	5.70	30,30,30,30	0
87	OHX	5	4135	7/7	0.24	5.70	111,111,111,111	0
86	MG	1	3486	1/1	0.27	5.69	39,39,39,39	0
86	MG	5	3737	1/1	0.20	5.69	33,33,33,33	0
86	MG	5	3402	1/1	0.24	5.67	22,22,22,22	0
87	OHX	5	4236	7/7	0.25	5.67	117,117,117,117	0
86	MG	5	3844	1/1	0.21	5.65	42,42,42,42	0
86	MG	d4	201	1/1	0.24	5.62	46,46,46,46	0
87	OHX	7	227	7/7	0.27	5.61	140,140,140,140	0
86	MG	5	3849	1/1	0.29	5.60	61,61,61,61	0
86	MG	1	3725	1/1	0.20	5.60	40,40,40,40	0
87	OHX	1	4195	7/7	0.21	5.59	132,132,132,132	0
86	MG	5	3555	1/1	0.32	5.58	28,28,28,28	0
86	MG	6	1923	1/1	0.33	5.57	61,61,61,61	0
87	OHX	5	4234	7/7	0.38	5.54	138,138,138,138	0
87	OHX	O9	101	7/7	0.43	5.53	100,100,100,100	0
86	MG	6	1949	1/1	0.28	5.53	46,46,46,46	0
86	MG	o3	201	1/1	0.32	5.52	29,29,29,29	0
87	OHX	5	4201	7/7	0.28	5.51	108,108,108,108	0
86	MG	5	3793	1/1	0.24	5.48	85,85,85,85	0
87	OHX	5	4217	7/7	0.25	5.47	127,127,127,127	0
86	MG	5	3667	1/1	0.22	5.47	40,40,40,40	0
86	MG	5	3828	1/1	0.32	5.44	34,34,34,34	0
87	OHX	5	4152	7/7	0.26	5.44	131,131,131,131	0
86	MG	1	3633	1/1	0.27	5.44	57,57,57,57	0
86	MG	5	3826	1/1	0.29	5.43	33,33,33,33	0
86	MG	2	1960	1/1	0.24	5.39	57,57,57,57	0
87	OHX	7	226	7/7	0.28	5.39	109,109,109,109	0
86	MG	1	3430	1/1	0.24	5.38	47,47,47,47	0
87	OHX	1	4138	7/7	0.31	5.38	120,120,120,120	0
86	MG	1	4223	1/1	0.32	5.37	25,25,25,25	0
86	MG	1	3487	1/1	0.25	5.35	30,30,30,30	0
86	MG	1	3658	1/1	0.23	5.33	44,44,44,44	0
86	MG	5	3512	1/1	0.34	5.33	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	4253	1/1	0.23	5.32	33,33,33,33	0
87	OHX	5	4197	7/7	0.23	5.32	103,103,103,103	0
86	MG	1	3845	1/1	0.26	5.31	38,38,38,38	0
87	OHX	5	4111	7/7	0.28	5.31	118,118,118,118	0
87	OHX	5	3910	7/7	0.22	5.23	64,64,64,64	0
86	MG	1	3566	1/1	0.23	5.19	32,32,32,32	0
87	OHX	5	4249	7/7	0.25	5.17	141,141,141,141	0
87	OHX	14	404	7/7	0.45	5.15	128,128,128,128	0
87	OHX	6	2177	7/7	0.23	5.14	95,95,95,95	0
86	MG	5	3809	1/1	0.26	5.12	33,33,33,33	0
87	OHX	m4	201	7/7	0.25	5.12	189,189,189,189	0
87	OHX	1	4205	7/7	0.22	5.11	121,121,121,121	0
86	MG	1	3477	1/1	0.20	5.11	32,32,32,32	0
86	MG	6	1936	1/1	0.26	5.09	62,62,62,62	0
86	MG	5	3699	1/1	0.20	5.07	54,54,54,54	0
87	OHX	5	4203	7/7	0.43	5.07	117,117,117,117	0
86	MG	5	3517	1/1	0.26	5.06	23,23,23,23	0
87	OHX	1	4128	7/7	0.22	5.03	110,110,110,110	0
86	MG	1	3656	1/1	0.27	5.03	43,43,43,43	0
86	MG	5	3648	1/1	0.23	5.03	48,48,48,48	0
86	MG	5	3522	1/1	0.18	5.00	36,36,36,36	0
86	MG	1	3621	1/1	0.20	5.00	59,59,59,59	0
86	MG	5	3854	1/1	0.28	4.98	52,52,52,52	0
86	MG	6	2027	1/1	0.25	4.96	65,65,65,65	0
87	OHX	2	2078	7/7	0.26	4.90	112,112,112,112	0
87	OHX	1	3888	7/7	0.18	4.89	73,73,73,73	0
86	MG	5	3478	1/1	0.24	4.88	30,30,30,30	0
86	MG	2	1963	1/1	0.19	4.88	126,126,126,126	0
86	MG	6	1989	1/1	0.21	4.87	57,57,57,57	0
87	OHX	1	4210	7/7	0.29	4.85	119,119,119,119	0
86	MG	1	3730	1/1	0.29	4.84	32,32,32,32	0
86	MG	6	2037	1/1	0.19	4.84	55,55,55,55	0
86	MG	1	3787	1/1	0.39	4.84	25,25,25,25	0
86	MG	5	3861	1/1	0.22	4.82	82,82,82,82	0
86	MG	1	3673	1/1	0.45	4.82	61,61,61,61	0
87	OHX	6	2178	7/7	0.23	4.81	108,108,108,108	0
86	MG	m7	201	1/1	0.35	4.78	30,30,30,30	0
86	MG	5	3510	1/1	0.28	4.77	36,36,36,36	0
86	MG	5	3405	1/1	0.21	4.76	22,22,22,22	0
87	OHX	1	4118	7/7	0.33	4.76	116,116,116,116	0
86	MG	5	4257	1/1	0.36	4.73	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4069	7/7	0.22	4.72	104,104,104,104	0
86	MG	1	3807	1/1	0.19	4.69	30,30,30,30	0
86	MG	1	3687	1/1	0.21	4.69	80,80,80,80	0
87	OHX	1	4208	7/7	0.28	4.69	115,115,115,115	0
87	OHX	1	4158	7/7	0.24	4.67	116,116,116,116	0
87	OHX	5	4148	7/7	0.26	4.66	112,112,112,112	0
86	MG	N3	203	1/1	0.21	4.65	51,51,51,51	0
86	MG	5	3439	1/1	0.30	4.64	47,47,47,47	0
87	OHX	1	4166	7/7	0.23	4.63	101,101,101,101	0
86	MG	1	3596	1/1	0.33	4.62	28,28,28,28	0
87	OHX	1	4119	7/7	0.22	4.62	103,103,103,103	0
87	OHX	1	4143	7/7	0.24	4.61	104,104,104,104	0
86	MG	5	4255	1/1	0.32	4.60	22,22,22,22	0
87	OHX	1	4110	7/7	0.28	4.60	101,101,101,101	0
87	OHX	2	2164	7/7	0.22	4.60	160,160,160,160	0
87	OHX	5	4153	7/7	0.23	4.58	103,103,103,103	0
86	MG	5	3812	1/1	0.24	4.58	37,37,37,37	0
86	MG	2	1967	1/1	0.59	4.58	105,105,105,105	0
87	OHX	1	4094	7/7	0.27	4.57	119,119,119,119	0
87	OHX	5	4177	7/7	0.22	4.57	118,118,118,118	0
86	MG	2	1912	1/1	0.26	4.55	56,56,56,56	0
86	MG	1	3456	1/1	0.25	4.55	20,20,20,20	0
87	OHX	5	4235	7/7	0.61	4.54	128,128,128,128	0
86	MG	5	3775	1/1	0.24	4.54	97,97,97,97	0
87	OHX	5	4073	7/7	0.21	4.54	108,108,108,108	0
86	MG	6	2023	1/1	0.23	4.54	43,43,43,43	0
86	MG	1	3826	1/1	0.23	4.52	44,44,44,44	0
86	MG	5	4254	1/1	0.29	4.51	35,35,35,35	0
86	MG	5	3494	1/1	0.25	4.47	44,44,44,44	0
86	MG	1	3571	1/1	0.28	4.45	16,16,16,16	0
86	MG	1	3664	1/1	0.28	4.45	45,45,45,45	0
87	OHX	5	4246	7/7	0.21	4.45	129,129,129,129	0
87	OHX	6	2192	7/7	0.27	4.45	141,141,141,141	0
87	OHX	5	4144	7/7	0.27	4.44	103,103,103,103	0
86	MG	1	3438	1/1	0.21	4.42	41,41,41,41	0
86	MG	5	3616	1/1	0.22	4.40	29,29,29,29	0
87	OHX	6	2170	7/7	0.21	4.40	132,132,132,132	0
87	OHX	6	2135	7/7	0.21	4.36	111,111,111,111	0
87	OHX	6	2200	7/7	0.26	4.36	126,126,126,126	0
87	OHX	2	2112	7/7	0.31	4.35	120,120,120,120	0
87	OHX	5	4156	7/7	0.24	4.34	116,116,116,116	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	2	2153	7/7	0.24	4.32	129,129,129,129	0
86	MG	1	3712	1/1	0.31	4.31	46,46,46,46	0
86	MG	2	1930	1/1	0.22	4.31	54,54,54,54	0
86	MG	5	3852	1/1	0.22	4.29	65,65,65,65	0
86	MG	1	3660	1/1	0.23	4.29	38,38,38,38	0
86	MG	M3	203	1/1	0.45	4.28	94,94,94,94	0
86	MG	6	1941	1/1	0.24	4.28	45,45,45,45	0
87	OHX	1	3870	7/7	0.21	4.28	55,55,55,55	0
86	MG	O3	201	1/1	0.22	4.27	33,33,33,33	0
87	OHX	5	4191	7/7	0.19	4.23	111,111,111,111	0
86	MG	5	3897	1/1	0.19	4.23	53,53,53,53	0
86	MG	2	1999	1/1	0.17	4.23	66,66,66,66	0
86	MG	5	3846	1/1	0.22	4.21	28,28,28,28	0
87	OHX	5	4240	7/7	0.29	4.19	174,174,174,174	0
87	OHX	1	4214	7/7	0.26	4.18	132,132,132,132	0
86	MG	2	2009	1/1	0.24	4.15	68,68,68,68	0
87	OHX	5	3952	7/7	0.21	4.14	101,101,101,101	0
86	MG	1	3759	1/1	0.16	4.14	36,36,36,36	0
86	MG	5	3865	1/1	0.19	4.13	35,35,35,35	0
87	OHX	5	4158	7/7	0.25	4.10	117,117,117,117	0
86	MG	5	3670	1/1	0.20	4.10	33,33,33,33	0
87	OHX	6	2196	7/7	0.26	4.09	151,151,151,151	0
86	MG	5	3781	1/1	0.20	4.04	44,44,44,44	0
86	MG	1	3474	1/1	0.19	4.02	70,70,70,70	0
86	MG	5	3878	1/1	0.23	4.02	31,31,31,31	0
87	OHX	2	2074	7/7	0.22	4.01	126,126,126,126	0
86	MG	5	3770	1/1	0.32	4.01	43,43,43,43	0
86	MG	6	1902	1/1	0.23	4.00	50,50,50,50	0
86	MG	1	3630	1/1	0.23	3.99	34,34,34,34	0
87	OHX	2	2115	7/7	0.32	3.98	121,121,121,121	0
86	MG	L3	401	1/1	0.23	3.98	31,31,31,31	0
86	MG	5	3896	1/1	0.24	3.97	50,50,50,50	0
87	OHX	6	2195	7/7	0.22	3.97	161,161,161,161	0
86	MG	5	3710	1/1	0.25	3.96	47,47,47,47	0
86	MG	1	3846	1/1	0.26	3.96	45,45,45,45	0
87	OHX	5	4174	7/7	0.26	3.96	116,116,116,116	0
87	OHX	6	2162	7/7	0.25	3.95	110,110,110,110	0
87	OHX	1	4133	7/7	0.31	3.95	114,114,114,114	0
86	MG	M1	201	1/1	0.28	3.94	68,68,68,68	0
86	MG	5	3765	1/1	0.21	3.94	31,31,31,31	0
86	MG	2	1981	1/1	0.19	3.93	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	6	2185	7/7	0.22	3.93	122,122,122,122	0
87	OHX	3	225	7/7	0.19	3.92	127,127,127,127	0
86	MG	2	1961	1/1	0.25	3.90	50,50,50,50	0
87	OHX	2	2151	7/7	0.24	3.89	131,131,131,131	0
87	OHX	8	220	7/7	0.21	3.89	105,105,105,105	0
87	OHX	1	4111	7/7	0.23	3.89	117,117,117,117	0
87	OHX	5	4247	7/7	0.29	3.88	125,125,125,125	0
87	OHX	2	2144	7/7	0.28	3.88	127,127,127,127	0
86	MG	5	3659	1/1	0.22	3.88	42,42,42,42	0
87	OHX	4	229	7/7	0.23	3.86	94,94,94,94	0
86	MG	6	2020	1/1	0.20	3.86	107,107,107,107	0
86	MG	1	3442	1/1	0.23	3.84	22,22,22,22	0
86	MG	5	3567	1/1	0.38	3.83	42,42,42,42	0
87	OHX	5	4233	7/7	0.26	3.83	106,106,106,106	0
87	OHX	2	2172	7/7	0.27	3.82	129,129,129,129	0
86	MG	1	3804	1/1	0.20	3.80	33,33,33,33	0
87	OHX	1	4164	7/7	0.20	3.80	112,112,112,112	0
86	MG	s6	301	1/1	0.33	3.79	65,65,65,65	0
86	MG	1	3618	1/1	0.21	3.77	54,54,54,54	0
86	MG	5	3783	1/1	0.22	3.76	69,69,69,69	0
86	MG	1	3783	1/1	0.20	3.75	45,45,45,45	0
86	MG	1	3652	1/1	0.39	3.74	87,87,87,87	0
86	MG	2	1902	1/1	0.22	3.73	41,41,41,41	0
87	OHX	5	4045	7/7	0.20	3.72	87,87,87,87	0
87	OHX	5	4166	7/7	0.21	3.70	123,123,123,123	0
87	OHX	5	3905	7/7	0.20	3.70	50,50,50,50	0
86	MG	5	3675	1/1	0.22	3.68	63,63,63,63	0
87	OHX	2	2090	7/7	0.18	3.68	115,115,115,115	0
86	MG	6	1992	1/1	0.19	3.68	62,62,62,62	0
86	MG	6	2013	1/1	0.18	3.67	57,57,57,57	0
87	OHX	1	4154	7/7	0.32	3.65	114,114,114,114	0
86	MG	5	3731	1/1	0.24	3.65	24,24,24,24	0
87	OHX	1	4104	7/7	0.20	3.64	108,108,108,108	0
87	OHX	3	223	7/7	0.17	3.62	154,154,154,154	0
86	MG	5	3759	1/1	0.38	3.62	68,68,68,68	0
87	OHX	6	2199	7/7	0.28	3.60	129,129,129,129	0
86	MG	4	203	1/1	0.36	3.60	45,45,45,45	0
86	MG	5	3805	1/1	0.20	3.59	145,145,145,145	0
86	MG	5	3858	1/1	0.25	3.59	43,43,43,43	0
86	MG	O1	201	1/1	0.24	3.59	59,59,59,59	0
86	MG	5	3665	1/1	0.21	3.57	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	6	2137	7/7	0.23	3.57	117,117,117,117	0
86	MG	1	3555	1/1	0.30	3.56	28,28,28,28	0
86	MG	6	2031	1/1	0.23	3.56	64,64,64,64	0
86	MG	L5	301	1/1	0.35	3.55	57,57,57,57	0
86	MG	n8	202	1/1	0.23	3.55	40,40,40,40	0
86	MG	5	3802	1/1	0.19	3.55	29,29,29,29	0
87	OHX	5	4083	7/7	0.24	3.55	98,98,98,98	0
87	OHX	2	2063	7/7	0.19	3.54	97,97,97,97	0
86	MG	n0	201	1/1	0.35	3.53	38,38,38,38	0
86	MG	5	3471	1/1	0.20	3.53	106,106,106,106	0
86	MG	1	3413	1/1	0.23	3.48	58,58,58,58	0
86	MG	7	206	1/1	0.19	3.47	40,40,40,40	0
86	MG	5	3542	1/1	0.35	3.47	27,27,27,27	0
86	MG	5	3546	1/1	0.21	3.45	28,28,28,28	0
87	OHX	6	2198	7/7	0.27	3.43	124,124,124,124	0
87	OHX	2	2118	7/7	0.21	3.42	120,120,120,120	0
86	MG	1	3603	1/1	0.23	3.39	25,25,25,25	0
86	MG	2	1978	1/1	0.30	3.38	51,51,51,51	0
86	MG	2	1995	1/1	0.29	3.36	87,87,87,87	0
86	MG	6	1986	1/1	0.22	3.36	74,74,74,74	0
87	OHX	1	4121	7/7	0.24	3.35	128,128,128,128	0
86	MG	5	3629	1/1	0.23	3.35	53,53,53,53	0
87	OHX	2	2073	7/7	0.29	3.34	107,107,107,107	0
86	MG	2	1991	1/1	0.34	3.34	51,51,51,51	0
86	MG	5	3425	1/1	0.21	3.32	40,40,40,40	0
87	OHX	2	2024	7/7	0.20	3.30	75,75,75,75	0
87	OHX	2	2175	7/7	0.18	3.29	127,127,127,127	0
86	MG	5	3668	1/1	0.22	3.29	25,25,25,25	0
86	MG	m7	202	1/1	0.29	3.28	29,29,29,29	0
87	OHX	5	3901	7/7	0.20	3.27	39,39,39,39	0
86	MG	6	1954	1/1	0.28	3.27	39,39,39,39	0
86	MG	2	1936	1/1	0.28	3.26	50,50,50,50	0
87	OHX	2	2159	7/7	0.43	3.25	121,121,121,121	0
86	MG	5	3601	1/1	0.23	3.24	38,38,38,38	0
87	OHX	5	4087	7/7	0.18	3.23	115,115,115,115	0
86	MG	1	3669	1/1	0.19	3.23	40,40,40,40	0
86	MG	1	3733	1/1	0.19	3.22	60,60,60,60	0
87	OHX	6	2053	7/7	0.17	3.22	68,68,68,68	0
87	OHX	6	2171	7/7	0.20	3.21	131,131,131,131	0
86	MG	2	2002	1/1	0.23	3.21	74,74,74,74	0
86	MG	1	3765	1/1	0.20	3.21	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4066	7/7	0.23	3.19	102,102,102,102	0
87	OHX	5	4250	7/7	0.28	3.16	120,120,120,120	0
87	OHX	1	4162	7/7	0.24	3.16	136,136,136,136	0
87	OHX	m8	201	7/7	0.29	3.16	121,121,121,121	0
86	MG	2	1905	1/1	0.27	3.14	55,55,55,55	0
87	OHX	5	4244	7/7	0.27	3.13	124,124,124,124	0
86	MG	5	3465	1/1	0.23	3.13	48,48,48,48	0
86	MG	1	3426	1/1	0.20	3.12	53,53,53,53	0
87	OHX	1	4157	7/7	0.22	3.12	126,126,126,126	0
87	OHX	6	2169	7/7	0.25	3.11	108,108,108,108	0
87	OHX	1	4122	7/7	0.20	3.10	97,97,97,97	0
87	OHX	1	4211	7/7	0.21	3.09	113,113,113,113	0
86	MG	1	3585	1/1	0.22	3.09	35,35,35,35	0
86	MG	1	3437	1/1	0.22	3.08	26,26,26,26	0
86	MG	5	3462	1/1	0.21	3.05	28,28,28,28	0
87	OHX	2	2127	7/7	0.23	3.04	133,133,133,133	0
86	MG	1	3650	1/1	0.20	3.03	39,39,39,39	0
87	OHX	1	4120	7/7	0.21	3.03	119,119,119,119	0
86	MG	1	3860	1/1	0.23	3.02	37,37,37,37	0
86	MG	1	3700	1/1	0.20	3.02	37,37,37,37	0
87	OHX	5	4205	7/7	0.32	3.02	120,120,120,120	0
86	MG	1	3483	1/1	0.19	3.02	36,36,36,36	0
86	MG	5	3452	1/1	0.26	3.02	25,25,25,25	0
86	MG	5	3441	1/1	0.20	3.01	26,26,26,26	0
87	OHX	5	4093	7/7	0.25	3.01	107,107,107,107	0
87	OHX	1	4180	7/7	0.32	3.00	123,123,123,123	0
86	MG	2	1903	1/1	0.27	2.99	40,40,40,40	0
86	MG	5	4258	1/1	0.21	2.98	33,33,33,33	0
87	OHX	1	3903	7/7	0.17	2.98	75,75,75,75	0
86	MG	1	4222	1/1	0.23	2.97	25,25,25,25	0
86	MG	5	3760	1/1	0.23	2.97	58,58,58,58	0
87	OHX	2	2022	7/7	0.17	2.97	68,68,68,68	0
87	OHX	1	3872	7/7	0.20	2.97	56,56,56,56	0
86	MG	1	3447	1/1	0.23	2.95	31,31,31,31	0
86	MG	1	3568	1/1	0.31	2.94	22,22,22,22	0
86	MG	5	3864	1/1	0.15	2.94	35,35,35,35	0
87	OHX	1	3977	7/7	0.21	2.93	78,78,78,78	0
87	OHX	5	4172	7/7	0.25	2.92	88,88,88,88	0
87	OHX	1	4160	7/7	0.19	2.92	137,137,137,137	0
86	MG	1	3762	1/1	0.19	2.92	43,43,43,43	0
87	OHX	1	4081	7/7	0.17	2.89	124,124,124,124	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3823	1/1	0.35	2.89	86,86,86,86	0
86	MG	5	3416	1/1	0.21	2.88	29,29,29,29	0
86	MG	1	3507	1/1	0.25	2.87	28,28,28,28	0
86	MG	1	3421	1/1	0.32	2.87	36,36,36,36	0
86	MG	1	3690	1/1	0.21	2.87	53,53,53,53	0
86	MG	N8	202	1/1	0.22	2.86	20,20,20,20	0
86	MG	5	3479	1/1	0.22	2.85	22,22,22,22	0
86	MG	1	3492	1/1	0.25	2.83	58,58,58,58	0
87	OHX	6	2159	7/7	0.20	2.82	120,120,120,120	0
86	MG	M7	202	1/1	0.27	2.81	30,30,30,30	0
86	MG	5	3481	1/1	0.32	2.80	57,57,57,57	0
87	OHX	5	4113	7/7	0.23	2.79	92,92,92,92	0
86	MG	5	3825	1/1	0.19	2.78	37,37,37,37	0
87	OHX	6	2189	7/7	0.25	2.76	127,127,127,127	0
86	MG	5	3692	1/1	0.22	2.75	35,35,35,35	0
86	MG	1	3645	1/1	0.24	2.75	59,59,59,59	0
87	OHX	5	4040	7/7	0.25	2.74	78,78,78,78	0
87	OHX	l5	305	7/7	0.30	2.72	125,125,125,125	0
87	OHX	2	2107	7/7	0.19	2.72	125,125,125,125	0
86	MG	c8	201	1/1	0.31	2.71	59,59,59,59	0
87	OHX	2	2111	7/7	0.20	2.71	142,142,142,142	0
86	MG	1	3463	1/1	0.15	2.71	34,34,34,34	0
86	MG	5	3704	1/1	0.46	2.70	59,59,59,59	0
87	OHX	5	3913	7/7	0.17	2.70	57,57,57,57	0
86	MG	5	3426	1/1	0.20	2.69	40,40,40,40	0
86	MG	6	2017	1/1	0.29	2.69	39,39,39,39	0
87	OHX	2	2136	7/7	0.19	2.68	147,147,147,147	0
87	OHX	5	4196	7/7	0.21	2.67	132,132,132,132	0
87	OHX	2	2098	7/7	0.19	2.66	103,103,103,103	0
86	MG	1	3632	1/1	0.29	2.64	63,63,63,63	0
87	OHX	1	3864	7/7	0.19	2.64	38,38,38,38	0
87	OHX	5	4193	7/7	0.29	2.64	109,109,109,109	0
87	OHX	5	4100	7/7	0.17	2.63	112,112,112,112	0
86	MG	5	3725	1/1	0.29	2.63	51,51,51,51	0
87	OHX	2	2039	7/7	0.17	2.61	96,96,96,96	0
86	MG	1	3808	1/1	0.22	2.60	30,30,30,30	0
87	OHX	s9	201	7/7	0.35	2.59	110,110,110,110	0
86	MG	2	1954	1/1	0.18	2.58	89,89,89,89	0
86	MG	6	2012	1/1	0.21	2.57	45,45,45,45	0
87	OHX	2	2083	7/7	0.19	2.56	108,108,108,108	0
87	OHX	5	4147	7/7	0.19	2.55	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
86	MG	6	1974	1/1	0.19	2.55	54,54,54,54	0
86	MG	5	3763	1/1	0.20	2.55	71,71,71,71	0
86	MG	2	2010	1/1	0.19	2.54	64,64,64,64	0
87	OHX	2	2122	7/7	0.16	2.54	122,122,122,122	0
87	OHX	1	4191	7/7	0.23	2.53	126,126,126,126	0
87	OHX	1	4132	7/7	0.23	2.53	105,105,105,105	0
87	OHX	1	4042	7/7	0.21	2.53	87,87,87,87	0
87	OHX	2	2174	7/7	0.35	2.52	141,141,141,141	0
86	MG	5	3851	1/1	0.18	2.51	43,43,43,43	0
86	MG	1	3520	1/1	0.21	2.51	26,26,26,26	0
86	MG	1	3464	1/1	0.19	2.50	47,47,47,47	0
86	MG	7	204	1/1	0.21	2.47	67,67,67,67	0
86	MG	5	3651	1/1	0.19	2.47	81,81,81,81	0
86	MG	5	3467	1/1	0.16	2.46	56,56,56,56	0
87	OHX	4	235	7/7	0.26	2.46	128,128,128,128	0
86	MG	1	3619	1/1	0.25	2.45	55,55,55,55	0
86	MG	7	213	1/1	0.18	2.45	58,58,58,58	0
86	MG	5	3694	1/1	0.22	2.44	40,40,40,40	0
87	OHX	5	4063	7/7	0.20	2.44	111,111,111,111	0
86	MG	1	3686	1/1	0.24	2.44	44,44,44,44	0
87	OHX	7	223	7/7	0.19	2.43	109,109,109,109	0
86	MG	1	3623	1/1	0.21	2.43	43,43,43,43	0
86	MG	1	3747	1/1	0.23	2.42	49,49,49,49	0
86	MG	m7	203	1/1	0.29	2.40	44,44,44,44	0
86	MG	l8	301	1/1	0.33	2.39	62,62,62,62	0
86	MG	5	3473	1/1	0.20	2.39	42,42,42,42	0
86	MG	c7	202	1/1	0.28	2.39	70,70,70,70	0
87	OHX	5	4054	7/7	0.20	2.38	95,95,95,95	0
87	OHX	1	4148	7/7	0.20	2.37	127,127,127,127	0
87	OHX	5	4133	7/7	0.19	2.37	110,110,110,110	0
86	MG	5	3719	1/1	0.24	2.37	59,59,59,59	0
87	OHX	5	4212	7/7	0.19	2.37	131,131,131,131	0
87	OHX	1	4098	7/7	0.20	2.35	100,100,100,100	0
87	OHX	1	4179	7/7	0.41	2.35	119,119,119,119	0
86	MG	5	3589	1/1	0.22	2.34	62,62,62,62	0
87	OHX	6	2116	7/7	0.21	2.33	110,110,110,110	0
86	MG	1	3703	1/1	0.17	2.33	46,46,46,46	0
87	OHX	6	2118	7/7	0.18	2.32	115,115,115,115	0
86	MG	2	1951	1/1	0.35	2.32	80,80,80,80	0
87	OHX	5	4077	7/7	0.30	2.32	109,109,109,109	0
87	OHX	s4	301	7/7	0.23	2.30	130,130,130,130	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4149	7/7	0.20	2.30	131,131,131,131	0
86	MG	1	3642	1/1	0.21	2.30	36,36,36,36	0
86	MG	1	3620	1/1	0.18	2.29	54,54,54,54	0
86	MG	1	3752	1/1	0.21	2.29	50,50,50,50	0
86	MG	M7	203	1/1	0.25	2.27	30,30,30,30	0
87	OHX	2	2121	7/7	0.23	2.26	129,129,129,129	0
86	MG	1	3850	1/1	0.20	2.25	45,45,45,45	0
86	MG	1	3420	1/1	0.42	2.25	56,56,56,56	0
87	OHX	1	4097	7/7	0.18	2.25	133,133,133,133	0
87	OHX	1	4109	7/7	0.21	2.25	120,120,120,120	0
86	MG	8	212	1/1	0.18	2.25	56,56,56,56	0
87	OHX	6	2134	7/7	0.20	2.24	136,136,136,136	0
86	MG	M0	301	1/1	0.25	2.24	33,33,33,33	0
87	OHX	6	2051	7/7	0.18	2.23	66,66,66,66	0
86	MG	6	1967	1/1	0.23	2.23	62,62,62,62	0
87	OHX	5	4124	7/7	0.20	2.22	127,127,127,127	0
87	OHX	1	4129	7/7	0.20	2.21	144,144,144,144	0
87	OHX	5	4221	7/7	0.31	2.20	141,141,141,141	0
86	MG	6	1952	1/1	0.32	2.19	53,53,53,53	0
87	OHX	6	2092	7/7	0.20	2.19	108,108,108,108	0
86	MG	2	1947	1/1	0.38	2.18	61,61,61,61	0
87	OHX	1	3881	7/7	0.18	2.17	62,62,62,62	0
87	OHX	m7	205	7/7	0.35	2.16	111,111,111,111	0
89	3HE	5	4252	20/20	0.23	2.16	32,32,32,32	0
86	MG	1	3834	1/1	0.33	2.15	53,53,53,53	0
86	MG	5	3653	1/1	0.20	2.15	24,24,24,24	0
86	MG	2	1923	1/1	0.20	2.15	52,52,52,52	0
87	OHX	1	3908	7/7	0.20	2.14	80,80,80,80	0
86	MG	q0	202	1/1	0.21	2.13	38,38,38,38	0
86	MG	5	3814	1/1	0.30	2.12	52,52,52,52	0
87	OHX	6	2141	7/7	0.19	2.12	120,120,120,120	0
87	OHX	5	4141	7/7	0.25	2.11	117,117,117,117	0
86	MG	5	3742	1/1	0.19	2.10	52,52,52,52	0
86	MG	5	3401	1/1	0.21	2.09	41,41,41,41	0
87	OHX	6	2145	7/7	0.22	2.09	117,117,117,117	0
86	MG	5	3638	1/1	0.23	2.07	43,43,43,43	0
87	OHX	1	4033	7/7	0.19	2.06	100,100,100,100	0
86	MG	5	3632	1/1	0.23	2.06	34,34,34,34	0
87	OHX	1	4147	7/7	0.19	2.06	128,128,128,128	0
86	MG	5	3792	1/1	0.19	2.05	34,34,34,34	0
86	MG	l5	302	1/1	0.28	2.05	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	7	207	1/1	0.19	2.05	47,47,47,47	0
87	OHX	L3	404	7/7	0.24	2.04	103,103,103,103	0
87	OHX	1	3865	7/7	0.18	2.04	45,45,45,45	0
87	OHX	1	4181	7/7	0.20	2.03	94,94,94,94	0
87	OHX	5	3902	7/7	0.19	2.03	39,39,39,39	0
87	OHX	1	3877	7/7	0.17	2.03	59,59,59,59	0
86	MG	1	3746	1/1	0.18	2.00	33,33,33,33	0
86	MG	5	3824	1/1	0.19	1.98	55,55,55,55	0
87	OHX	2	2138	7/7	0.20	1.96	137,137,137,137	0
86	MG	1	3494	1/1	0.17	1.95	35,35,35,35	0
87	OHX	5	4089	7/7	0.18	1.95	98,98,98,98	0
86	MG	1	3583	1/1	0.31	1.95	34,34,34,34	0
86	MG	5	3436	1/1	0.20	1.95	27,27,27,27	0
86	MG	1	3546	1/1	0.20	1.95	49,49,49,49	0
87	OHX	6	2149	7/7	0.18	1.94	123,123,123,123	0
87	OHX	5	4206	7/7	0.38	1.93	126,126,126,126	0
87	OHX	2	2165	7/7	0.28	1.93	144,144,144,144	0
87	OHX	5	4075	7/7	0.20	1.93	107,107,107,107	0
86	MG	6	1957	1/1	0.46	1.91	53,53,53,53	0
86	MG	5	3460	1/1	0.19	1.90	60,60,60,60	0
86	MG	M7	201	1/1	0.37	1.90	65,65,65,65	0
87	OHX	d4	202	7/7	0.22	1.90	131,131,131,131	0
86	MG	5	3454	1/1	0.16	1.89	38,38,38,38	0
87	OHX	1	4071	7/7	0.17	1.88	125,125,125,125	0
87	OHX	6	2194	7/7	0.33	1.87	157,157,157,157	0
86	MG	6	2010	1/1	0.20	1.87	46,46,46,46	0
86	MG	1	3722	1/1	0.18	1.87	44,44,44,44	0
87	OHX	M7	208	7/7	0.36	1.85	125,125,125,125	0
86	MG	1	3839	1/1	0.20	1.84	55,55,55,55	0
87	OHX	6	2197	7/7	0.20	1.84	153,153,153,153	0
86	MG	1	3774	1/1	0.20	1.84	38,38,38,38	0
87	OHX	5	3903	7/7	0.18	1.82	44,44,44,44	0
86	MG	1	3802	1/1	0.26	1.81	54,54,54,54	0
87	OHX	6	2153	7/7	0.19	1.80	135,135,135,135	0
86	MG	2	2180	1/1	0.18	1.80	81,81,81,81	0
86	MG	1	3773	1/1	0.17	1.79	48,48,48,48	0
87	OHX	4	224	7/7	0.18	1.77	57,57,57,57	0
87	OHX	1	3868	7/7	0.20	1.77	51,51,51,51	0
86	MG	1	4216	1/1	0.22	1.77	23,23,23,23	0
87	OHX	2	2146	7/7	0.19	1.75	155,155,155,155	0
87	OHX	5	4243	7/7	0.17	1.75	141,141,141,141	0
86	MG	1	3637	1/1	0.23	1.75	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4046	7/7	0.20	1.74	102,102,102,102	0
87	OHX	8	226	7/7	0.19	1.74	129,129,129,129	0
87	OHX	7	224	7/7	0.19	1.74	102,102,102,102	0
86	MG	5	3679	1/1	0.18	1.74	83,83,83,83	0
86	MG	6	1973	1/1	0.20	1.73	45,45,45,45	0
87	OHX	1	4140	7/7	0.18	1.72	114,114,114,114	0
86	MG	6	1976	1/1	0.17	1.72	52,52,52,52	0
87	OHX	1	4005	7/7	0.18	1.72	101,101,101,101	0
86	MG	5	3503	1/1	0.17	1.70	35,35,35,35	0
86	MG	5	3606	1/1	0.19	1.70	34,34,34,34	0
87	OHX	1	4083	7/7	0.17	1.70	123,123,123,123	0
87	OHX	5	4189	7/7	0.23	1.68	108,108,108,108	0
86	MG	SM	301	1/1	0.18	1.68	44,44,44,44	0
86	MG	2	1901	1/1	0.40	1.68	72,72,72,72	0
87	OHX	1	3926	7/7	0.18	1.65	88,88,88,88	0
87	OHX	6	2128	7/7	0.19	1.64	110,110,110,110	0
87	OHX	5	3915	7/7	0.18	1.64	62,62,62,62	0
86	MG	o4	201	1/1	0.24	1.64	58,58,58,58	0
89	3HE	1	4215	20/20	0.23	1.64	27,27,27,27	0
87	OHX	5	3927	7/7	0.20	1.59	66,66,66,66	0
87	OHX	5	4227	7/7	0.30	1.57	144,144,144,144	0
87	OHX	5	4137	7/7	0.44	1.57	113,113,113,113	0
87	OHX	1	4187	7/7	0.22	1.56	123,123,123,123	0
87	OHX	1	3886	7/7	0.17	1.56	70,70,70,70	0
86	MG	1	3716	1/1	0.38	1.56	45,45,45,45	0
86	MG	1	3655	1/1	0.18	1.54	28,28,28,28	0
86	MG	1	3786	1/1	0.16	1.54	34,34,34,34	0
86	MG	5	3633	1/1	0.20	1.54	44,44,44,44	0
87	OHX	7	225	7/7	0.19	1.54	128,128,128,128	0
87	OHX	1	3878	7/7	0.18	1.53	58,58,58,58	0
86	MG	5	3548	1/1	0.23	1.50	46,46,46,46	0
87	OHX	1	4082	7/7	0.19	1.50	112,112,112,112	0
87	OHX	5	4171	7/7	0.22	1.49	146,146,146,146	0
86	MG	7	210	1/1	0.20	1.49	55,55,55,55	0
86	MG	5	3745	1/1	0.18	1.48	32,32,32,32	0
87	OHX	1	4088	7/7	0.24	1.48	89,89,89,89	0
86	MG	5	3840	1/1	0.15	1.48	55,55,55,55	0
86	MG	1	3683	1/1	0.15	1.47	38,38,38,38	0
87	OHX	2	2023	7/7	0.17	1.47	74,74,74,74	0
87	OHX	1	3873	7/7	0.18	1.46	57,57,57,57	0
87	OHX	5	3914	7/7	0.18	1.46	63,63,63,63	0
87	OHX	5	4082	7/7	0.21	1.45	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	2	1944	1/1	0.17	1.45	58,58,58,58	0
87	OHX	5	4164	7/7	0.18	1.44	130,130,130,130	0
87	OHX	1	3866	7/7	0.18	1.44	42,42,42,42	0
86	MG	2	1966	1/1	0.18	1.44	77,77,77,77	0
86	MG	L8	301	1/1	0.37	1.44	57,57,57,57	0
87	OHX	2	2108	7/7	0.15	1.44	135,135,135,135	0
86	MG	1	3403	1/1	0.19	1.42	32,32,32,32	0
86	MG	5	3529	1/1	0.28	1.42	50,50,50,50	0
87	OHX	6	2186	7/7	0.15	1.42	154,154,154,154	0
87	OHX	6	2114	7/7	0.18	1.40	97,97,97,97	0
86	MG	5	3483	1/1	0.21	1.40	34,34,34,34	0
87	OHX	o9	101	7/7	0.38	1.40	99,99,99,99	0
87	OHX	1	4198	7/7	0.32	1.39	127,127,127,127	0
86	MG	1	3636	1/1	0.34	1.39	55,55,55,55	0
86	MG	5	3404	1/1	0.18	1.38	37,37,37,37	0
86	MG	1	3744	1/1	0.17	1.38	53,53,53,53	0
86	MG	2	1916	1/1	0.24	1.38	48,48,48,48	0
86	MG	1	3411	1/1	0.18	1.37	35,35,35,35	0
87	OHX	1	4035	7/7	0.18	1.37	110,110,110,110	0
86	MG	6	1913	1/1	0.36	1.36	48,48,48,48	0
87	OHX	1	4130	7/7	0.21	1.36	138,138,138,138	0
86	MG	4	205	1/1	0.33	1.36	69,69,69,69	0
86	MG	5	3535	1/1	0.17	1.35	44,44,44,44	0
87	OHX	2	2133	7/7	0.23	1.34	120,120,120,120	0
87	OHX	1	4151	7/7	0.20	1.34	118,118,118,118	0
86	MG	n6	201	1/1	0.26	1.33	57,57,57,57	0
87	OHX	5	4232	7/7	0.16	1.33	157,157,157,157	0
87	OHX	2	2173	7/7	0.21	1.32	135,135,135,135	0
87	OHX	5	4200	7/7	0.24	1.31	109,109,109,109	0
87	OHX	6	2157	7/7	0.25	1.31	130,130,130,130	0
86	MG	6	2021	1/1	0.17	1.31	76,76,76,76	0
86	MG	1	3448	1/1	0.18	1.29	37,37,37,37	0
87	OHX	5	4251	7/7	0.20	1.28	142,142,142,142	0
87	OHX	5	4163	7/7	0.19	1.28	103,103,103,103	0
86	MG	1	3768	1/1	0.20	1.27	58,58,58,58	0
87	OHX	5	4143	7/7	0.18	1.26	116,116,116,116	0
87	OHX	5	3908	7/7	0.17	1.26	49,49,49,49	0
86	MG	1	3433	1/1	0.20	1.26	31,31,31,31	0
87	OHX	2	2114	7/7	0.23	1.25	111,111,111,111	0
86	MG	6	2025	1/1	0.16	1.25	59,59,59,59	0
87	OHX	1	4194	7/7	0.39	1.24	125,125,125,125	0
86	MG	5	3423	1/1	0.19	1.24	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3794	1/1	0.17	1.23	44,44,44,44	0
87	OHX	2	2126	7/7	0.34	1.23	118,118,118,118	0
87	OHX	5	4091	7/7	0.23	1.23	100,100,100,100	0
86	MG	5	3800	1/1	0.25	1.22	66,66,66,66	0
87	OHX	5	3940	7/7	0.18	1.22	80,80,80,80	0
86	MG	1	3469	1/1	0.18	1.21	43,43,43,43	0
86	MG	5	3791	1/1	0.20	1.20	48,48,48,48	0
87	OHX	5	4238	7/7	0.14	1.20	130,130,130,130	0
87	OHX	8	215	7/7	0.18	1.20	55,55,55,55	0
87	OHX	6	2151	7/7	0.19	1.20	125,125,125,125	0
87	OHX	2	2139	7/7	0.16	1.19	148,148,148,148	0
86	MG	5	3453	1/1	0.21	1.19	29,29,29,29	0
87	OHX	5	4165	7/7	0.18	1.18	159,159,159,159	0
86	MG	6	2005	1/1	0.18	1.18	81,81,81,81	0
87	OHX	6	2201	7/7	0.18	1.18	129,129,129,129	0
86	MG	1	3672	1/1	0.17	1.18	38,38,38,38	0
86	MG	L7	301	1/1	0.21	1.18	37,37,37,37	0
87	OHX	6	2055	7/7	0.17	1.17	75,75,75,75	0
86	MG	2	2004	1/1	0.24	1.17	55,55,55,55	0
87	OHX	6	2176	7/7	0.31	1.17	136,136,136,136	0
87	OHX	1	3918	7/7	0.16	1.16	107,107,107,107	0
87	OHX	5	4121	7/7	0.26	1.14	133,133,133,133	0
87	OHX	1	4183	7/7	0.17	1.12	131,131,131,131	0
87	OHX	2	2167	7/7	0.23	1.12	108,108,108,108	0
87	OHX	6	2174	7/7	0.26	1.12	130,130,130,130	0
86	MG	1	3825	1/1	0.17	1.12	19,19,19,19	0
87	OHX	1	4145	7/7	0.17	1.11	132,132,132,132	0
86	MG	5	3642	1/1	0.20	1.11	50,50,50,50	0
87	OHX	1	4030	7/7	0.19	1.11	98,98,98,98	0
87	OHX	1	4126	7/7	0.16	1.09	132,132,132,132	0
86	MG	5	3794	1/1	0.18	1.09	40,40,40,40	0
86	MG	6	1999	1/1	0.22	1.09	54,54,54,54	0
87	OHX	2	2091	7/7	0.22	1.07	103,103,103,103	0
87	OHX	5	3900	7/7	0.20	1.06	42,42,42,42	0
86	MG	1	3610	1/1	0.26	1.06	59,59,59,59	0
87	OHX	1	4134	7/7	0.19	1.05	105,105,105,105	0
86	MG	n8	203	1/1	0.20	1.03	42,42,42,42	0
87	OHX	5	3924	7/7	0.17	1.02	65,65,65,65	0
86	MG	5	3797	1/1	0.17	1.01	52,52,52,52	0
86	MG	2	1979	1/1	0.19	1.01	62,62,62,62	0
87	OHX	2	2085	7/7	0.17	1.00	104,104,104,104	0
87	OHX	8	229	7/7	0.25	1.00	121,121,121,121	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	1	4090	7/7	0.19	0.99	137,137,137,137	0
87	OHX	5	4211	7/7	0.21	0.99	122,122,122,122	0
87	OHX	5	4106	7/7	0.18	0.99	99,99,99,99	0
86	MG	c4	201	1/1	0.24	0.98	52,52,52,52	0
87	OHX	6	2078	7/7	0.17	0.98	99,99,99,99	0
86	MG	8	205	1/1	0.18	0.98	67,67,67,67	0
86	MG	2	2014	1/1	0.35	0.98	56,56,56,56	0
86	MG	5	3625	1/1	0.16	0.97	55,55,55,55	0
86	MG	5	3722	1/1	0.18	0.97	45,45,45,45	0
86	MG	5	3891	1/1	0.17	0.95	35,35,35,35	0
86	MG	6	1965	1/1	0.17	0.94	63,63,63,63	0
87	OHX	5	4169	7/7	0.19	0.93	122,122,122,122	0
87	OHX	2	2077	7/7	0.20	0.93	116,116,116,116	0
86	MG	5	3427	1/1	0.24	0.90	34,34,34,34	0
87	OHX	2	2128	7/7	0.14	0.89	171,171,171,171	0
86	MG	1	3822	1/1	0.16	0.88	38,38,38,38	0
87	OHX	6	2152	7/7	0.23	0.88	101,101,101,101	0
87	OHX	1	4019	7/7	0.19	0.88	103,103,103,103	0
87	OHX	1	4084	7/7	0.18	0.84	116,116,116,116	0
86	MG	8	209	1/1	0.17	0.83	62,62,62,62	0
87	OHX	5	4109	7/7	0.18	0.83	109,109,109,109	0
86	MG	2	1970	1/1	0.20	0.82	63,63,63,63	0
87	OHX	6	2050	7/7	0.18	0.82	64,64,64,64	0
86	MG	5	3873	1/1	0.20	0.81	38,38,38,38	0
86	MG	15	301	1/1	0.24	0.81	56,56,56,56	0
86	MG	5	3746	1/1	0.18	0.81	36,36,36,36	0
87	OHX	8	214	7/7	0.18	0.80	53,53,53,53	0
86	MG	5	3686	1/1	0.17	0.80	46,46,46,46	0
87	OHX	1	4099	7/7	0.21	0.80	105,105,105,105	0
86	MG	5	3712	1/1	0.16	0.79	44,44,44,44	0
86	MG	5	3446	1/1	0.17	0.79	27,27,27,27	0
86	MG	2	1969	1/1	0.23	0.79	65,65,65,65	0
87	OHX	2	2033	7/7	0.16	0.79	93,93,93,93	0
86	MG	1	3695	1/1	0.18	0.78	40,40,40,40	0
86	MG	5	3442	1/1	0.21	0.78	36,36,36,36	0
87	OHX	1	4079	7/7	0.24	0.78	112,112,112,112	0
86	MG	1	3475	1/1	0.18	0.78	25,25,25,25	0
87	OHX	2	2119	7/7	0.19	0.78	121,121,121,121	0
87	OHX	5	3933	7/7	0.17	0.78	83,83,83,83	0
86	MG	1	3440	1/1	0.21	0.77	38,38,38,38	0
87	OHX	5	4076	7/7	0.18	0.76	104,104,104,104	0
88	ZN	q2	501	1/1	0.26	0.76	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	5	3945	7/7	0.15	0.75	80,80,80,80	0
87	OHX	6	2049	7/7	0.17	0.74	60,60,60,60	0
87	OHX	1	4206	7/7	0.24	0.74	123,123,123,123	0
87	OHX	5	4107	7/7	0.23	0.74	108,108,108,108	0
86	MG	5	3831	1/1	0.19	0.74	65,65,65,65	0
86	MG	5	3816	1/1	0.20	0.74	39,39,39,39	0
86	MG	1	3757	1/1	0.23	0.73	26,26,26,26	0
86	MG	6	1905	1/1	0.18	0.72	53,53,53,53	0
87	OHX	6	2146	7/7	0.26	0.72	119,119,119,119	0
86	MG	6	1987	1/1	0.17	0.71	69,69,69,69	0
87	OHX	2	2148	7/7	0.23	0.71	145,145,145,145	0
86	MG	1	3760	1/1	0.15	0.71	53,53,53,53	0
87	OHX	2	2029	7/7	0.16	0.70	86,86,86,86	0
86	MG	5	3750	1/1	0.20	0.69	51,51,51,51	0
86	MG	1	3612	1/1	0.18	0.69	39,39,39,39	0
87	OHX	6	2183	7/7	0.36	0.68	116,116,116,116	0
86	MG	2	1911	1/1	0.28	0.68	53,53,53,53	0
87	OHX	5	3948	7/7	0.15	0.68	83,83,83,83	0
86	MG	1	3756	1/1	0.17	0.67	42,42,42,42	0
86	MG	1	3644	1/1	0.19	0.66	43,43,43,43	0
86	MG	1	3482	1/1	0.23	0.64	48,48,48,48	0
86	MG	1	3766	1/1	0.18	0.64	58,58,58,58	0
87	OHX	5	4157	7/7	0.21	0.64	117,117,117,117	0
87	OHX	6	2163	7/7	0.24	0.64	108,108,108,108	0
86	MG	5	3449	1/1	0.18	0.63	35,35,35,35	0
87	OHX	L3	406	7/7	0.41	0.62	146,146,146,146	0
87	OHX	6	2126	7/7	0.21	0.62	118,118,118,118	0
86	MG	1	3659	1/1	0.22	0.62	43,43,43,43	0
87	OHX	6	2160	7/7	0.22	0.61	105,105,105,105	0
87	OHX	s1	302	7/7	0.27	0.60	136,136,136,136	0
86	MG	n8	201	1/1	0.21	0.60	32,32,32,32	0
86	MG	5	3700	1/1	0.19	0.60	39,39,39,39	0
87	OHX	5	4168	7/7	0.15	0.59	133,133,133,133	0
87	OHX	1	4080	7/7	0.20	0.59	104,104,104,104	0
86	MG	7	208	1/1	0.18	0.58	43,43,43,43	0
87	OHX	1	3913	7/7	0.13	0.58	88,88,88,88	0
87	OHX	5	3939	7/7	0.15	0.57	80,80,80,80	0
86	MG	5	3476	1/1	0.26	0.56	45,45,45,45	0
87	OHX	5	4224	7/7	0.31	0.55	132,132,132,132	0
86	MG	1	3582	1/1	0.22	0.54	31,31,31,31	0
86	MG	5	3461	1/1	0.17	0.54	24,24,24,24	0
86	MG	1	3488	1/1	0.23	0.54	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	6	2018	1/1	0.25	0.53	52,52,52,52	0
86	MG	4	209	1/1	0.17	0.52	46,46,46,46	0
87	OHX	1	4196	7/7	0.20	0.52	145,145,145,145	0
87	OHX	5	4050	7/7	0.17	0.52	92,92,92,92	0
87	OHX	4	232	7/7	0.18	0.51	124,124,124,124	0
86	MG	1	3726	1/1	0.15	0.50	55,55,55,55	0
86	MG	5	3777	1/1	0.18	0.50	26,26,26,26	0
88	ZN	d7	101	1/1	0.46	0.50	132,132,132,132	0
87	OHX	5	4034	7/7	0.19	0.49	95,95,95,95	0
86	MG	1	3470	1/1	0.15	0.48	39,39,39,39	0
86	MG	1	3663	1/1	0.20	0.48	41,41,41,41	0
86	MG	5	3415	1/1	0.17	0.48	43,43,43,43	0
86	MG	1	3820	1/1	0.23	0.47	31,31,31,31	0
87	OHX	4	230	7/7	0.17	0.47	110,110,110,110	0
87	OHX	1	4150	7/7	0.17	0.47	105,105,105,105	0
87	OHX	1	4000	7/7	0.21	0.47	104,104,104,104	0
87	OHX	O3	202	7/7	0.19	0.46	103,103,103,103	0
86	MG	1	3724	1/1	0.18	0.45	52,52,52,52	0
87	OHX	5	3922	7/7	0.17	0.45	59,59,59,59	0
87	OHX	1	4016	7/7	0.14	0.44	137,137,137,137	0
86	MG	5	3645	1/1	0.17	0.44	30,30,30,30	0
87	OHX	5	3932	7/7	0.17	0.43	66,66,66,66	0
87	OHX	5	4110	7/7	0.21	0.43	92,92,92,92	0
87	OHX	D3	202	7/7	0.28	0.42	130,130,130,130	0
86	MG	7	228	1/1	0.18	0.41	29,29,29,29	0
87	OHX	6	2202	7/7	0.22	0.41	127,127,127,127	0
87	OHX	2	2105	7/7	0.19	0.40	119,119,119,119	0
86	MG	6	1996	1/1	0.16	0.39	35,35,35,35	0
87	OHX	6	2156	7/7	0.20	0.39	104,104,104,104	0
86	MG	5	3839	1/1	0.20	0.39	38,38,38,38	0
86	MG	2	1952	1/1	0.15	0.38	86,86,86,86	0
87	OHX	5	4097	7/7	0.17	0.38	106,106,106,106	0
87	OHX	1	4113	7/7	0.17	0.38	151,151,151,151	0
87	OHX	3	222	7/7	0.19	0.38	108,108,108,108	0
87	OHX	5	4030	7/7	0.19	0.37	84,84,84,84	0
87	OHX	1	4041	7/7	0.17	0.36	100,100,100,100	0
87	OHX	1	4172	7/7	0.17	0.36	98,98,98,98	0
86	MG	1	3717	1/1	0.18	0.35	62,62,62,62	0
86	MG	5	3672	1/1	0.17	0.35	31,31,31,31	0
86	MG	5	3437	1/1	0.17	0.34	37,37,37,37	0
86	MG	1	3454	1/1	0.22	0.34	50,50,50,50	0
86	MG	o1	201	1/1	0.17	0.33	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	3995	7/7	0.18	0.33	91,91,91,91	0
87	OHX	5	4053	7/7	0.17	0.33	92,92,92,92	0
87	OHX	2	2160	7/7	0.32	0.32	138,138,138,138	0
87	OHX	1	4131	7/7	0.20	0.32	136,136,136,136	0
86	MG	L7	302	1/1	0.17	0.32	37,37,37,37	0
86	MG	1	3828	1/1	0.20	0.32	36,36,36,36	0
86	MG	1	3472	1/1	0.17	0.31	23,23,23,23	0
87	OHX	1	4044	7/7	0.17	0.31	98,98,98,98	0
87	OHX	2	2169	7/7	0.15	0.31	121,121,121,121	0
87	OHX	d9	102	7/7	0.22	0.30	124,124,124,124	0
86	MG	4	210	1/1	0.20	0.30	43,43,43,43	0
87	OHX	2	2132	7/7	0.14	0.30	139,139,139,139	0
86	MG	5	3856	1/1	0.21	0.29	33,33,33,33	0
87	OHX	1	4101	7/7	0.25	0.29	119,119,119,119	0
87	OHX	5	4140	7/7	0.14	0.28	128,128,128,128	0
87	OHX	1	4212	7/7	0.23	0.28	144,144,144,144	0
87	OHX	5	4117	7/7	0.18	0.27	94,94,94,94	0
86	MG	6	1969	1/1	0.22	0.27	39,39,39,39	0
87	OHX	6	2140	7/7	0.15	0.27	119,119,119,119	0
87	OHX	19	600	7/7	0.19	0.26	113,113,113,113	0
86	MG	M7	206	1/1	0.19	0.26	51,51,51,51	0
87	OHX	1	3897	7/7	0.15	0.26	76,76,76,76	0
86	MG	12	302	1/1	0.20	0.26	30,30,30,30	0
87	OHX	2	2166	7/7	0.16	0.25	143,143,143,143	0
86	MG	5	3813	1/1	0.14	0.25	80,80,80,80	0
87	OHX	2	2109	7/7	0.15	0.25	126,126,126,126	0
86	MG	s8	301	1/1	0.18	0.24	44,44,44,44	0
87	OHX	5	4080	7/7	0.18	0.24	112,112,112,112	0
86	MG	1	3751	1/1	0.15	0.23	50,50,50,50	0
87	OHX	6	2047	7/7	0.17	0.22	52,52,52,52	0
86	MG	N8	203	1/1	0.24	0.22	44,44,44,44	0
87	OHX	1	4025	7/7	0.17	0.21	115,115,115,115	0
87	OHX	5	4180	7/7	0.16	0.21	141,141,141,141	0
87	OHX	6	2138	7/7	0.27	0.21	109,109,109,109	0
86	MG	N0	201	1/1	0.21	0.21	44,44,44,44	0
86	MG	1	3736	1/1	0.22	0.21	30,30,30,30	0
87	OHX	2	2176	7/7	0.27	0.21	149,149,149,149	0
87	OHX	6	2117	7/7	0.16	0.20	112,112,112,112	0
87	OHX	2	2179	7/7	0.28	0.20	147,147,147,147	0
87	OHX	6	2109	7/7	0.16	0.19	98,98,98,98	0
86	MG	5	3646	1/1	0.17	0.19	53,53,53,53	0
86	MG	1	3698	1/1	0.22	0.18	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	5	4028	7/7	0.16	0.18	98,98,98,98	0
88	ZN	D7	101	1/1	0.39	0.17	142,142,142,142	0
86	MG	1	3833	1/1	0.18	0.17	35,35,35,35	0
87	OHX	2	2137	7/7	0.17	0.17	127,127,127,127	0
87	OHX	1	4106	7/7	0.20	0.16	101,101,101,101	0
87	OHX	1	3949	7/7	0.12	0.15	105,105,105,105	0
86	MG	5	3688	1/1	0.16	0.15	68,68,68,68	0
86	MG	5	3761	1/1	0.16	0.15	38,38,38,38	0
86	MG	1	3731	1/1	0.19	0.14	46,46,46,46	0
87	OHX	6	2168	7/7	0.16	0.13	159,159,159,159	0
87	OHX	D9	102	7/7	0.20	0.13	120,120,120,120	0
87	OHX	6	2125	7/7	0.15	0.13	100,100,100,100	0
87	OHX	5	4120	7/7	0.16	0.13	107,107,107,107	0
86	MG	2	1943	1/1	0.15	0.12	61,61,61,61	0
87	OHX	5	3941	7/7	0.16	0.11	72,72,72,72	0
87	OHX	6	2101	7/7	0.13	0.11	143,143,143,143	0
87	OHX	5	4057	7/7	0.17	0.11	98,98,98,98	0
86	MG	5	3714	1/1	0.17	0.10	35,35,35,35	0
86	MG	3	210	1/1	0.18	0.09	59,59,59,59	0
86	MG	1	3678	1/1	0.17	0.09	43,43,43,43	0
87	OHX	6	2133	7/7	0.21	0.09	110,110,110,110	0
86	MG	1	3680	1/1	0.16	0.09	36,36,36,36	0
87	OHX	1	4015	7/7	0.16	0.08	102,102,102,102	0
87	OHX	1	4021	7/7	0.16	0.08	100,100,100,100	0
87	OHX	5	4199	7/7	0.17	0.07	102,102,102,102	0
86	MG	1	3427	1/1	0.17	0.07	32,32,32,32	0
87	OHX	l3	404	7/7	0.27	0.07	128,128,128,128	0
87	OHX	5	4129	7/7	0.24	0.05	125,125,125,125	0
86	MG	4	220	1/1	0.17	0.05	47,47,47,47	0
87	OHX	2	2099	7/7	0.17	0.05	125,125,125,125	0
87	OHX	1	3894	7/7	0.17	0.04	73,73,73,73	0
87	OHX	5	3949	7/7	0.17	0.04	93,93,93,93	0
86	MG	6	1962	1/1	0.18	0.04	38,38,38,38	0
86	MG	1	4219	1/1	0.21	0.03	41,41,41,41	0
87	OHX	6	2142	7/7	0.14	0.03	140,140,140,140	0
87	OHX	1	4089	7/7	0.15	0.03	119,119,119,119	0
86	MG	6	1991	1/1	0.15	0.02	64,64,64,64	0
87	OHX	5	4242	7/7	0.29	0.02	92,92,92,92	0
86	MG	1	3801	1/1	0.23	0.02	52,52,52,52	0
86	MG	2	1983	1/1	0.17	0.02	51,51,51,51	0
87	OHX	6	2173	7/7	0.19	0.02	122,122,122,122	0
86	MG	C3	201	1/1	0.24	0.01	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3605	1/1	0.20	0.01	29,29,29,29	0
87	OHX	5	3967	7/7	0.15	-0.02	94,94,94,94	0
86	MG	6	2036	1/1	0.24	-0.02	65,65,65,65	0
86	MG	M7	204	1/1	0.20	-0.02	32,32,32,32	0
86	MG	o4	202	1/1	0.24	-0.03	65,65,65,65	0
86	MG	O4	201	1/1	0.24	-0.04	46,46,46,46	0
87	OHX	1	3883	7/7	0.15	-0.04	63,63,63,63	0
87	OHX	2	2036	7/7	0.13	-0.04	103,103,103,103	0
86	MG	5	3666	1/1	0.19	-0.04	38,38,38,38	0
87	OHX	1	3931	7/7	0.15	-0.05	97,97,97,97	0
86	MG	5	3860	1/1	0.16	-0.05	47,47,47,47	0
87	OHX	5	4155	7/7	0.17	-0.05	105,105,105,105	0
87	OHX	5	3916	7/7	0.15	-0.05	63,63,63,63	0
87	OHX	5	3909	7/7	0.16	-0.05	47,47,47,47	0
86	MG	2	1965	1/1	0.21	-0.06	58,58,58,58	0
86	MG	M3	204	1/1	0.21	-0.06	34,34,34,34	0
86	MG	5	3832	1/1	0.15	-0.07	48,48,48,48	0
87	OHX	1	3906	7/7	0.15	-0.07	83,83,83,83	0
87	OHX	1	3915	7/7	0.15	-0.07	84,84,84,84	0
86	MG	1	3789	1/1	0.15	-0.07	73,73,73,73	0
87	OHX	1	3895	7/7	0.16	-0.07	74,74,74,74	0
86	MG	6	2206	1/1	0.21	-0.08	46,46,46,46	0
87	OHX	1	3867	7/7	0.19	-0.08	51,51,51,51	0
86	MG	d6	102	1/1	0.25	-0.08	48,48,48,48	0
86	MG	5	3713	1/1	0.16	-0.09	83,83,83,83	0
87	OHX	5	4094	7/7	0.20	-0.09	112,112,112,112	0
87	OHX	1	4096	7/7	0.12	-0.09	127,127,127,127	0
87	OHX	5	3904	7/7	0.20	-0.09	50,50,50,50	0
87	OHX	2	2130	7/7	0.15	-0.11	115,115,115,115	0
87	OHX	5	4225	7/7	0.19	-0.11	126,126,126,126	0
87	OHX	1	4092	7/7	0.15	-0.12	134,134,134,134	0
86	MG	S8	301	1/1	0.16	-0.12	50,50,50,50	0
88	ZN	q0	201	1/1	0.18	-0.12	28,28,28,28	0
87	OHX	5	4114	7/7	0.17	-0.13	105,105,105,105	0
86	MG	5	3693	1/1	0.17	-0.13	49,49,49,49	0
86	MG	5	3756	1/1	0.20	-0.14	48,48,48,48	0
87	OHX	6	2193	7/7	0.23	-0.14	141,141,141,141	0
86	MG	6	1997	1/1	0.19	-0.14	65,65,65,65	0
86	MG	5	3490	1/1	0.16	-0.14	27,27,27,27	0
86	MG	5	3419	1/1	0.17	-0.14	27,27,27,27	0
87	OHX	5	4145	7/7	0.16	-0.15	120,120,120,120	0
87	OHX	5	4108	7/7	0.17	-0.15	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4056	7/7	0.17	-0.16	86,86,86,86	0
87	OHX	4	223	7/7	0.17	-0.17	51,51,51,51	0
86	MG	M6	201	1/1	0.24	-0.17	45,45,45,45	0
86	MG	5	3838	1/1	0.15	-0.17	23,23,23,23	0
87	OHX	m0	302	7/7	0.21	-0.18	110,110,110,110	0
86	MG	5	3708	1/1	0.17	-0.19	45,45,45,45	0
86	MG	1	3654	1/1	0.16	-0.19	41,41,41,41	0
87	OHX	1	4038	7/7	0.16	-0.19	104,104,104,104	0
86	MG	6	2024	1/1	0.20	-0.20	43,43,43,43	0
86	MG	5	3497	1/1	0.18	-0.20	29,29,29,29	0
86	MG	1	3415	1/1	0.20	-0.20	43,43,43,43	0
86	MG	5	3654	1/1	0.16	-0.21	35,35,35,35	0
87	OHX	2	2032	7/7	0.17	-0.21	97,97,97,97	0
87	OHX	1	4087	7/7	0.18	-0.22	110,110,110,110	0
87	OHX	1	3996	7/7	0.13	-0.23	147,147,147,147	0
86	MG	5	3841	1/1	0.15	-0.23	49,49,49,49	0
86	MG	6	2006	1/1	0.19	-0.23	57,57,57,57	0
87	OHX	2	2149	7/7	0.20	-0.24	151,151,151,151	0
87	OHX	2	2154	7/7	0.19	-0.25	125,125,125,125	0
87	OHX	S8	302	7/7	0.24	-0.25	141,141,141,141	0
87	OHX	1	4144	7/7	0.20	-0.25	131,131,131,131	0
86	MG	5	3743	1/1	0.16	-0.26	36,36,36,36	0
86	MG	6	1910	1/1	0.16	-0.26	57,57,57,57	0
87	OHX	6	2180	7/7	0.15	-0.27	135,135,135,135	0
86	MG	1	3445	1/1	0.15	-0.28	37,37,37,37	0
86	MG	2	1998	1/1	0.23	-0.29	61,61,61,61	0
87	OHX	c1	202	7/7	0.21	-0.30	117,117,117,117	0
87	OHX	5	3906	7/7	0.17	-0.31	52,52,52,52	0
86	MG	5	3600	1/1	0.16	-0.31	35,35,35,35	0
87	OHX	1	3891	7/7	0.15	-0.31	66,66,66,66	0
87	OHX	m1	203	7/7	0.32	-0.31	135,135,135,135	0
86	MG	2	1986	1/1	0.17	-0.32	71,71,71,71	0
86	MG	5	3815	1/1	0.16	-0.32	55,55,55,55	0
87	OHX	6	2067	7/7	0.16	-0.33	101,101,101,101	0
87	OHX	6	2144	7/7	0.16	-0.33	124,124,124,124	0
86	MG	5	3842	1/1	0.14	-0.34	35,35,35,35	0
86	MG	8	204	1/1	0.18	-0.35	46,46,46,46	0
86	MG	1	3424	1/1	0.17	-0.35	41,41,41,41	0
87	OHX	1	3869	7/7	0.17	-0.35	48,48,48,48	0
86	MG	1	3634	1/1	0.16	-0.36	41,41,41,41	0
86	MG	1	3670	1/1	0.15	-0.36	75,75,75,75	0
87	OHX	5	4136	7/7	0.17	-0.36	120,120,120,120	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	2	2068	7/7	0.18	-0.36	101,101,101,101	0
87	OHX	1	4123	7/7	0.16	-0.37	123,123,123,123	0
87	OHX	6	2074	7/7	0.14	-0.37	108,108,108,108	0
86	MG	5	3769	1/1	0.15	-0.37	34,34,34,34	0
87	OHX	6	2054	7/7	0.17	-0.38	75,75,75,75	0
86	MG	2	1948	1/1	0.18	-0.38	75,75,75,75	0
87	OHX	n9	101	7/7	0.16	-0.38	62,62,62,62	0
86	MG	m7	204	1/1	0.19	-0.39	32,32,32,32	0
87	OHX	L4	402	7/7	0.17	-0.39	113,113,113,113	0
86	MG	5	3495	1/1	0.17	-0.39	32,32,32,32	0
87	OHX	l5	304	7/7	0.19	-0.40	121,121,121,121	0
87	OHX	2	2100	7/7	0.14	-0.40	126,126,126,126	0
86	MG	1	3495	1/1	0.17	-0.40	41,41,41,41	0
86	MG	2	2021	1/1	0.17	-0.40	104,104,104,104	0
87	OHX	1	3991	7/7	0.12	-0.41	125,125,125,125	0
87	OHX	6	2065	7/7	0.14	-0.41	88,88,88,88	0
87	OHX	1	3884	7/7	0.16	-0.42	64,64,64,64	0
86	MG	l4	401	1/1	0.24	-0.43	33,33,33,33	0
87	OHX	N9	101	7/7	0.17	-0.43	57,57,57,57	0
87	OHX	1	3999	7/7	0.16	-0.43	84,84,84,84	0
86	MG	M9	201	1/1	0.20	-0.43	61,61,61,61	0
87	OHX	6	2129	7/7	0.16	-0.43	117,117,117,117	0
87	OHX	1	3885	7/7	0.16	-0.44	61,61,61,61	0
86	MG	L3	403	1/1	0.14	-0.44	41,41,41,41	0
88	ZN	d9	101	1/1	0.16	-0.45	58,58,58,58	0
86	MG	1	3767	1/1	0.15	-0.45	54,54,54,54	0
87	OHX	5	4194	7/7	0.17	-0.45	151,151,151,151	0
87	OHX	6	2057	7/7	0.16	-0.46	74,74,74,74	0
86	MG	1	3422	1/1	0.17	-0.46	29,29,29,29	0
86	MG	5	3608	1/1	0.16	-0.47	34,34,34,34	0
86	MG	1	3676	1/1	0.15	-0.47	62,62,62,62	0
87	OHX	6	2108	7/7	0.18	-0.47	109,109,109,109	0
87	OHX	l3	403	7/7	0.16	-0.49	99,99,99,99	0
86	MG	n6	202	1/1	0.18	-0.49	43,43,43,43	0
86	MG	5	3663	1/1	0.15	-0.49	45,45,45,45	0
87	OHX	1	3932	7/7	0.16	-0.49	60,60,60,60	0
86	MG	1	3841	1/1	0.16	-0.49	51,51,51,51	0
87	OHX	2	2034	7/7	0.14	-0.49	94,94,94,94	0
87	OHX	1	4103	7/7	0.16	-0.49	114,114,114,114	0
87	OHX	6	2075	7/7	0.13	-0.50	108,108,108,108	0
86	MG	2	1946	1/1	0.19	-0.50	52,52,52,52	0
87	OHX	1	4156	7/7	0.14	-0.50	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	2	2125	7/7	0.16	-0.51	126,126,126,126	0
87	OHX	5	4042	7/7	0.13	-0.51	137,137,137,137	0
87	OHX	6	2110	7/7	0.14	-0.52	109,109,109,109	0
86	MG	5	3843	1/1	0.17	-0.52	49,49,49,49	0
87	OHX	5	3966	7/7	0.15	-0.53	90,90,90,90	0
87	OHX	5	3920	7/7	0.14	-0.53	62,62,62,62	0
86	MG	5	3752	1/1	0.15	-0.53	38,38,38,38	0
86	MG	2	2003	1/1	0.20	-0.54	59,59,59,59	0
87	OHX	1	4064	7/7	0.17	-0.54	89,89,89,89	0
87	OHX	5	3956	7/7	0.15	-0.54	88,88,88,88	0
87	OHX	1	4091	7/7	0.16	-0.55	110,110,110,110	0
87	OHX	5	4216	7/7	0.17	-0.55	96,96,96,96	0
86	MG	5	3470	1/1	0.17	-0.55	32,32,32,32	0
87	OHX	5	3975	7/7	0.13	-0.56	94,94,94,94	0
87	OHX	5	4060	7/7	0.15	-0.56	105,105,105,105	0
88	ZN	Q0	500	1/1	0.16	-0.57	42,42,42,42	0
86	MG	1	3407	1/1	0.16	-0.58	37,37,37,37	0
86	MG	5	3604	1/1	0.14	-0.58	37,37,37,37	0
87	OHX	1	4059	7/7	0.17	-0.59	116,116,116,116	0
87	OHX	1	3875	7/7	0.16	-0.59	52,52,52,52	0
86	MG	1	3467	1/1	0.15	-0.59	42,42,42,42	0
86	MG	1	3748	1/1	0.16	-0.59	43,43,43,43	0
86	MG	1	3622	1/1	0.15	-0.60	34,34,34,34	0
86	MG	5	3463	1/1	0.18	-0.60	36,36,36,36	0
86	MG	1	3749	1/1	0.15	-0.61	42,42,42,42	0
87	OHX	1	4077	7/7	0.16	-0.61	108,108,108,108	0
87	OHX	5	3974	7/7	0.10	-0.62	77,77,77,77	0
86	MG	5	3869	1/1	0.15	-0.62	32,32,32,32	0
86	MG	S2	301	1/1	0.22	-0.62	65,65,65,65	0
86	MG	5	3893	1/1	0.14	-0.62	64,64,64,64	0
87	OHX	2	2028	7/7	0.14	-0.63	89,89,89,89	0
87	OHX	5	4210	7/7	0.18	-0.63	100,100,100,100	0
87	OHX	1	3880	7/7	0.16	-0.63	60,60,60,60	0
87	OHX	c5	201	7/7	0.21	-0.63	140,140,140,140	0
86	MG	1	3558	1/1	0.16	-0.64	43,43,43,43	0
86	MG	5	3696	1/1	0.14	-0.64	40,40,40,40	0
87	OHX	1	4023	7/7	0.13	-0.65	122,122,122,122	0
87	OHX	5	3953	7/7	0.15	-0.66	90,90,90,90	0
86	MG	6	1978	1/1	0.16	-0.66	37,37,37,37	0
88	ZN	Q2	501	1/1	0.14	-0.66	75,75,75,75	0
86	MG	1	3799	1/1	0.19	-0.67	47,47,47,47	0
87	OHX	s8	302	7/7	0.27	-0.68	141,141,141,141	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3782	1/1	0.17	-0.69	32,32,32,32	0
86	MG	o7	101	1/1	0.19	-0.70	40,40,40,40	0
87	OHX	1	4124	7/7	0.15	-0.73	128,128,128,128	0
86	MG	4	217	1/1	0.12	-0.73	58,58,58,58	0
86	MG	8	207	1/1	0.14	-0.73	59,59,59,59	0
87	OHX	8	223	7/7	0.18	-0.73	113,113,113,113	0
86	MG	1	3602	1/1	0.16	-0.74	23,23,23,23	0
87	OHX	14	403	7/7	0.18	-0.74	114,114,114,114	0
87	OHX	1	3970	7/7	0.15	-0.75	97,97,97,97	0
87	OHX	1	4075	7/7	0.15	-0.75	110,110,110,110	0
87	OHX	2	2106	7/7	0.12	-0.76	106,106,106,106	0
87	OHX	2	2150	7/7	0.11	-0.76	157,157,157,157	0
86	MG	6	1971	1/1	0.14	-0.77	54,54,54,54	0
87	OHX	1	4037	7/7	0.16	-0.77	93,93,93,93	0
87	OHX	5	4038	7/7	0.16	-0.78	104,104,104,104	0
86	MG	1	3784	1/1	0.14	-0.79	47,47,47,47	0
87	OHX	6	2060	7/7	0.14	-0.79	87,87,87,87	0
86	MG	5	3871	1/1	0.15	-0.79	50,50,50,50	0
87	OHX	6	2147	7/7	0.11	-0.79	119,119,119,119	0
87	OHX	2	2095	7/7	0.15	-0.80	112,112,112,112	0
87	OHX	1	3937	7/7	0.13	-0.80	100,100,100,100	0
86	MG	5	3727	1/1	0.15	-0.80	36,36,36,36	0
87	OHX	5	4069	7/7	0.14	-0.81	89,89,89,89	0
86	MG	m5	302	1/1	0.16	-0.81	47,47,47,47	0
86	MG	4	208	1/1	0.14	-0.81	39,39,39,39	0
87	OHX	1	3942	7/7	0.12	-0.82	98,98,98,98	0
87	OHX	1	3924	7/7	0.13	-0.82	101,101,101,101	0
88	ZN	O7	101	1/1	0.14	-0.82	32,32,32,32	0
87	OHX	1	4050	7/7	0.15	-0.82	105,105,105,105	0
87	OHX	2	2101	7/7	0.13	-0.83	121,121,121,121	0
87	OHX	2	2066	7/7	0.11	-0.84	127,127,127,127	0
87	OHX	1	4053	7/7	0.14	-0.84	119,119,119,119	0
87	OHX	2	2123	7/7	0.13	-0.84	128,128,128,128	0
87	OHX	1	4161	7/7	0.19	-0.84	122,122,122,122	0
87	OHX	1	3927	7/7	0.12	-0.84	92,92,92,92	0
86	MG	D3	201	1/1	0.15	-0.84	53,53,53,53	0
87	OHX	6	2056	7/7	0.14	-0.84	65,65,65,65	0
87	OHX	5	4125	7/7	0.12	-0.84	133,133,133,133	0
86	MG	6	2026	1/1	0.12	-0.86	73,73,73,73	0
86	MG	1	3743	1/1	0.14	-0.86	37,37,37,37	0
86	MG	1	3668	1/1	0.14	-0.87	48,48,48,48	0
87	OHX	5	4119	7/7	0.15	-0.88	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	5	3907	7/7	0.16	-0.88	57,57,57,57	0
86	MG	1	3689	1/1	0.17	-0.88	30,30,30,30	0
86	MG	5	3695	1/1	0.15	-0.89	43,43,43,43	0
87	OHX	5	4018	7/7	0.14	-0.90	139,139,139,139	0
87	OHX	1	4165	7/7	0.11	-0.90	170,170,170,170	0
86	MG	6	1970	1/1	0.15	-0.90	52,52,52,52	0
86	MG	c8	202	1/1	0.23	-0.91	61,61,61,61	0
86	MG	5	3803	1/1	0.14	-0.91	43,43,43,43	0
87	OHX	5	4079	7/7	0.15	-0.91	92,92,92,92	0
87	OHX	1	4004	7/7	0.14	-0.91	110,110,110,110	0
86	MG	5	3817	1/1	0.12	-0.91	41,41,41,41	0
88	ZN	D9	101	1/1	0.11	-0.91	66,66,66,66	0
86	MG	M5	301	1/1	0.15	-0.91	26,26,26,26	0
86	MG	s1	301	1/1	0.19	-0.91	72,72,72,72	0
86	MG	L3	402	1/1	0.16	-0.92	62,62,62,62	0
86	MG	q3	502	1/1	0.18	-0.92	56,56,56,56	0
87	OHX	6	2121	7/7	0.14	-0.92	105,105,105,105	0
86	MG	5	3677	1/1	0.14	-0.93	38,38,38,38	0
87	OHX	4	231	7/7	0.10	-0.93	133,133,133,133	0
86	MG	n0	202	1/1	0.15	-0.94	37,37,37,37	0
86	MG	5	3806	1/1	0.14	-0.94	30,30,30,30	0
86	MG	1	3809	1/1	0.14	-0.94	46,46,46,46	0
86	MG	1	3548	1/1	0.15	-0.95	36,36,36,36	0
87	OHX	1	4029	7/7	0.14	-0.96	118,118,118,118	0
86	MG	O4	202	1/1	0.15	-0.96	55,55,55,55	0
86	MG	6	2022	1/1	0.17	-0.97	58,58,58,58	0
87	OHX	2	2084	7/7	0.10	-0.97	122,122,122,122	0
86	MG	5	3788	1/1	0.14	-0.97	41,41,41,41	0
87	OHX	5	4047	7/7	0.16	-0.97	91,91,91,91	0
87	OHX	2	2092	7/7	0.12	-0.98	128,128,128,128	0
87	OHX	1	4043	7/7	0.12	-0.98	93,93,93,93	0
86	MG	1	3842	1/1	0.17	-0.99	30,30,30,30	0
87	OHX	5	3970	7/7	0.11	-0.99	87,87,87,87	0
87	OHX	5	4182	7/7	0.14	-0.99	129,129,129,129	0
87	OHX	2	2140	7/7	0.10	-1.00	142,142,142,142	0
87	OHX	2	2030	7/7	0.13	-1.00	97,97,97,97	0
87	OHX	L3	405	7/7	0.15	-1.00	100,100,100,100	0
87	OHX	2	2104	7/7	0.15	-1.01	105,105,105,105	0
87	OHX	1	3898	7/7	0.13	-1.02	78,78,78,78	0
87	OHX	2	2120	7/7	0.12	-1.02	128,128,128,128	0
86	MG	Q2	502	1/1	0.12	-1.02	58,58,58,58	0
87	OHX	7	215	7/7	0.14	-1.02	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	2	2025	7/7	0.14	-1.02	78,78,78,78	0
87	OHX	5	3957	7/7	0.14	-1.03	82,82,82,82	0
87	OHX	1	4078	7/7	0.13	-1.03	105,105,105,105	0
87	OHX	5	4167	7/7	0.14	-1.04	114,114,114,114	0
87	OHX	1	4068	7/7	0.12	-1.04	112,112,112,112	0
86	MG	1	3666	1/1	0.14	-1.05	33,33,33,33	0
86	MG	5	3779	1/1	0.12	-1.05	53,53,53,53	0
86	MG	1	4221	1/1	0.13	-1.05	53,53,53,53	0
87	OHX	2	2143	7/7	0.14	-1.06	142,142,142,142	0
87	OHX	2	2086	7/7	0.13	-1.07	114,114,114,114	0
86	MG	2	2020	1/1	0.11	-1.08	85,85,85,85	0
87	OHX	1	3905	7/7	0.14	-1.09	75,75,75,75	0
87	OHX	1	4007	7/7	0.15	-1.09	100,100,100,100	0
86	MG	2	1939	1/1	0.13	-1.10	56,56,56,56	0
87	OHX	m0	301	7/7	0.08	-1.10	116,116,116,116	0
87	OHX	2	2046	7/7	0.05	-1.11	116,116,116,116	0
87	OHX	8	216	7/7	0.08	-1.11	100,100,100,100	0
87	OHX	2	2031	7/7	0.14	-1.11	84,84,84,84	0
87	OHX	6	2150	7/7	0.15	-1.12	96,96,96,96	0
86	MG	1	3425	1/1	0.14	-1.12	26,26,26,26	0
87	OHX	O7	103	7/7	0.09	-1.12	85,85,85,85	0
86	MG	2	1920	1/1	0.20	-1.13	52,52,52,52	0
87	OHX	6	2203	7/7	0.09	-1.14	171,171,171,171	0
86	MG	n3	202	1/1	0.14	-1.14	37,37,37,37	0
86	MG	8	211	1/1	0.16	-1.15	88,88,88,88	0
87	OHX	2	2087	7/7	0.14	-1.15	114,114,114,114	0
87	OHX	1	4076	7/7	0.13	-1.15	117,117,117,117	0
87	OHX	1	3951	7/7	0.15	-1.16	95,95,95,95	0
86	MG	5	3724	1/1	0.15	-1.16	32,32,32,32	0
86	MG	m1	202	1/1	0.15	-1.16	52,52,52,52	0
86	MG	1	3416	1/1	0.14	-1.17	27,27,27,27	0
86	MG	5	3819	1/1	0.13	-1.17	57,57,57,57	0
86	MG	5	3784	1/1	0.12	-1.17	70,70,70,70	0
86	MG	1	3428	1/1	0.11	-1.18	48,48,48,48	0
87	OHX	5	4064	7/7	0.13	-1.18	115,115,115,115	0
87	OHX	1	3901	7/7	0.15	-1.19	71,71,71,71	0
87	OHX	2	2056	7/7	0.12	-1.21	116,116,116,116	0
87	OHX	5	4241	7/7	0.18	-1.21	211,211,211,211	0
87	OHX	1	3965	7/7	0.11	-1.22	104,104,104,104	0
87	OHX	5	4123	7/7	0.12	-1.22	121,121,121,121	0
86	MG	5	3811	1/1	0.10	-1.22	37,37,37,37	0
86	MG	6	1984	1/1	0.12	-1.24	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	8	217	7/7	0.12	-1.24	99,99,99,99	0
86	MG	1	3628	1/1	0.15	-1.25	37,37,37,37	0
87	OHX	6	2143	7/7	0.14	-1.25	113,113,113,113	0
87	OHX	2	2052	7/7	0.11	-1.26	119,119,119,119	0
86	MG	5	3755	1/1	0.12	-1.26	48,48,48,48	0
86	MG	1	4217	1/1	0.15	-1.28	22,22,22,22	0
86	MG	M3	201	1/1	0.14	-1.28	42,42,42,42	0
86	MG	5	3741	1/1	0.16	-1.29	34,34,34,34	0
87	OHX	1	4102	7/7	0.15	-1.30	124,124,124,124	0
86	MG	1	3627	1/1	0.14	-1.30	38,38,38,38	0
86	MG	1	3735	1/1	0.15	-1.30	59,59,59,59	0
87	OHX	6	2090	7/7	0.10	-1.31	116,116,116,116	0
86	MG	1	3578	1/1	0.15	-1.31	22,22,22,22	0
86	MG	5	3643	1/1	0.13	-1.31	43,43,43,43	0
87	OHX	5	3990	7/7	0.14	-1.31	63,63,63,63	0
86	MG	6	2007	1/1	0.14	-1.32	52,52,52,52	0
87	OHX	2	2117	7/7	0.14	-1.32	141,141,141,141	0
86	MG	1	3489	1/1	0.14	-1.35	27,27,27,27	0
87	OHX	6	2165	7/7	0.14	-1.36	168,168,168,168	0
86	MG	5	3768	1/1	0.13	-1.36	35,35,35,35	0
87	OHX	1	4199	7/7	0.14	-1.36	112,112,112,112	0
86	MG	6	2033	1/1	0.16	-1.37	45,45,45,45	0
87	OHX	1	3941	7/7	0.15	-1.38	80,80,80,80	0
87	OHX	1	3944	7/7	0.12	-1.38	93,93,93,93	0
87	OHX	1	3948	7/7	0.12	-1.38	117,117,117,117	0
87	OHX	1	3961	7/7	0.12	-1.38	107,107,107,107	0
87	OHX	5	4032	7/7	0.11	-1.38	121,121,121,121	0
87	OHX	5	4074	7/7	0.14	-1.39	104,104,104,104	0
87	OHX	5	3934	7/7	0.13	-1.39	67,67,67,67	0
86	MG	1	3665	1/1	0.13	-1.40	43,43,43,43	0
87	OHX	1	3981	7/7	0.07	-1.40	106,106,106,106	0
86	MG	5	3432	1/1	0.16	-1.40	34,34,34,34	0
87	OHX	1	4027	7/7	0.15	-1.41	99,99,99,99	0
86	MG	5	3674	1/1	0.13	-1.41	23,23,23,23	0
87	OHX	2	2141	7/7	0.13	-1.42	124,124,124,124	0
86	MG	1	3771	1/1	0.14	-1.42	57,57,57,57	0
87	OHX	5	4003	7/7	0.13	-1.42	68,68,68,68	0
87	OHX	1	3933	7/7	0.12	-1.43	91,91,91,91	0
87	OHX	5	3993	7/7	0.13	-1.43	92,92,92,92	0
87	OHX	1	4108	7/7	0.13	-1.43	113,113,113,113	0
86	MG	5	3621	1/1	0.10	-1.43	36,36,36,36	0
88	ZN	Q3	501	1/1	0.09	-1.44	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
86	MG	1	3863	1/1	0.15	-1.44	25,25,25,25	0
86	MG	5	3863	1/1	0.15	-1.44	55,55,55,55	0
87	OHX	1	4026	7/7	0.12	-1.44	114,114,114,114	0
86	MG	1	3681	1/1	0.13	-1.45	56,56,56,56	0
86	MG	2	1992	1/1	0.16	-1.45	62,62,62,62	0
87	OHX	2	2131	7/7	0.13	-1.45	129,129,129,129	0
86	MG	1	3753	1/1	0.14	-1.45	31,31,31,31	0
87	OHX	5	3911	7/7	0.15	-1.45	53,53,53,53	0
87	OHX	1	3916	7/7	0.13	-1.46	82,82,82,82	0
87	OHX	6	2130	7/7	0.10	-1.46	124,124,124,124	0
87	OHX	5	3988	7/7	0.10	-1.46	92,92,92,92	0
86	MG	1	3708	1/1	0.14	-1.47	40,40,40,40	0
87	OHX	6	2102	7/7	0.10	-1.47	141,141,141,141	0
87	OHX	5	3963	7/7	0.11	-1.47	80,80,80,80	0
87	OHX	6	2068	7/7	0.11	-1.47	76,76,76,76	0
87	OHX	5	3912	7/7	0.14	-1.48	52,52,52,52	0
87	OHX	5	4014	7/7	0.10	-1.48	138,138,138,138	0
88	ZN	e1	501	1/1	0.05	-1.49	143,143,143,143	0
87	OHX	sR	401	7/7	0.10	-1.49	145,145,145,145	0
86	MG	sM	302	1/1	0.13	-1.49	35,35,35,35	0
87	OHX	l5	303	7/7	0.13	-1.49	127,127,127,127	0
87	OHX	c8	203	7/7	0.12	-1.50	123,123,123,123	0
87	OHX	2	2047	7/7	0.07	-1.50	103,103,103,103	0
87	OHX	5	4000	7/7	0.13	-1.51	102,102,102,102	0
87	OHX	2	2042	7/7	0.12	-1.51	106,106,106,106	0
87	OHX	q2	502	7/7	0.13	-1.52	77,77,77,77	0
87	OHX	2	2102	7/7	0.13	-1.52	124,124,124,124	0
87	OHX	5	4020	7/7	0.14	-1.52	99,99,99,99	0
86	MG	1	3806	1/1	0.14	-1.53	44,44,44,44	0
87	OHX	SR	401	7/7	0.06	-1.54	148,148,148,148	0
86	MG	2	1990	1/1	0.08	-1.54	85,85,85,85	0
88	ZN	E1	501	1/1	0.09	-1.54	105,105,105,105	0
87	OHX	1	3871	7/7	0.16	-1.55	50,50,50,50	0
87	OHX	1	4040	7/7	0.07	-1.56	118,118,118,118	0
87	OHX	C8	201	7/7	0.14	-1.58	99,99,99,99	0
87	OHX	6	2059	7/7	0.12	-1.58	68,68,68,68	0
87	OHX	5	3980	7/7	0.11	-1.58	84,84,84,84	0
88	ZN	o7	102	1/1	0.11	-1.59	37,37,37,37	0
86	MG	5	3488	1/1	0.15	-1.60	50,50,50,50	0
87	OHX	Q2	503	7/7	0.12	-1.60	76,76,76,76	0
86	MG	S4	301	1/1	0.10	-1.61	61,61,61,61	0
87	OHX	2	2026	7/7	0.13	-1.61	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	4054	7/7	0.14	-1.61	95,95,95,95	0
87	OHX	5	4127	7/7	0.16	-1.61	114,114,114,114	0
87	OHX	1	3922	7/7	0.11	-1.63	83,83,83,83	0
86	MG	5	3790	1/1	0.09	-1.66	35,35,35,35	0
86	MG	L4	401	1/1	0.13	-1.66	28,28,28,28	0
87	OHX	5	4118	7/7	0.14	-1.66	106,106,106,106	0
87	OHX	5	3976	7/7	0.11	-1.67	86,86,86,86	0
87	OHX	1	3896	7/7	0.14	-1.67	68,68,68,68	0
87	OHX	6	2119	7/7	0.11	-1.69	99,99,99,99	0
86	MG	5	3723	1/1	0.14	-1.69	41,41,41,41	0
87	OHX	5	4102	7/7	0.14	-1.69	92,92,92,92	0
87	OHX	5	4096	7/7	0.15	-1.71	127,127,127,127	0
87	OHX	5	4208	7/7	0.13	-1.71	135,135,135,135	0
87	OHX	1	4052	7/7	0.11	-1.73	127,127,127,127	0
87	OHX	2	2035	7/7	0.10	-1.73	78,78,78,78	0
86	MG	5	3613	1/1	0.14	-1.74	30,30,30,30	0
86	MG	6	1915	1/1	0.09	-1.75	59,59,59,59	0
87	OHX	1	3899	7/7	0.13	-1.75	62,62,62,62	0
87	OHX	5	3937	7/7	0.11	-1.76	67,67,67,67	0
87	OHX	N1	201	7/7	0.14	-1.76	60,60,60,60	0
86	MG	1	3714	1/1	0.15	-1.76	28,28,28,28	0
87	OHX	5	4081	7/7	0.12	-1.78	107,107,107,107	0
87	OHX	1	4116	7/7	0.14	-1.78	121,121,121,121	0
86	MG	5	3703	1/1	0.16	-1.79	35,35,35,35	0
87	OHX	1	4012	7/7	0.07	-1.79	118,118,118,118	0
86	MG	1	3471	1/1	0.15	-1.79	35,35,35,35	0
87	OHX	6	2106	7/7	0.13	-1.80	106,106,106,106	0
87	OHX	1	3953	7/7	0.12	-1.80	84,84,84,84	0
87	OHX	1	3976	7/7	0.11	-1.80	82,82,82,82	0
86	MG	14	402	1/1	0.09	-1.81	43,43,43,43	0
87	OHX	c3	201	7/7	0.26	-1.82	135,135,135,135	0
87	OHX	1	4070	7/7	0.12	-1.83	117,117,117,117	0
86	MG	5	3669	1/1	0.14	-1.83	23,23,23,23	0
87	OHX	5	4078	7/7	0.09	-1.84	147,147,147,147	0
87	OHX	2	2129	7/7	0.13	-1.85	107,107,107,107	0
88	ZN	D6	500	1/1	0.09	-1.85	72,72,72,72	0
86	MG	2	1996	1/1	0.13	-1.86	67,67,67,67	0
87	OHX	2	2048	7/7	0.11	-1.86	111,111,111,111	0
87	OHX	4	228	7/7	0.13	-1.87	112,112,112,112	0
86	MG	5	3682	1/1	0.14	-1.87	32,32,32,32	0
87	OHX	O2	201	7/7	0.11	-1.88	79,79,79,79	0
87	OHX	5	3950	7/7	0.12	-1.88	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	O7	104	7/7	0.11	-1.89	88,88,88,88	0
87	OHX	2	2110	7/7	0.12	-1.92	102,102,102,102	0
87	OHX	5	3962	7/7	0.08	-1.92	83,83,83,83	0
87	OHX	5	3918	7/7	0.15	-1.92	59,59,59,59	0
87	OHX	1	3973	7/7	0.07	-1.92	114,114,114,114	0
87	OHX	5	4214	7/7	0.11	-1.93	177,177,177,177	0
87	OHX	5	3989	7/7	0.10	-1.93	107,107,107,107	0
86	MG	1	3780	1/1	0.11	-1.94	55,55,55,55	0
87	OHX	2	2072	7/7	0.07	-1.94	130,130,130,130	0
87	OHX	1	3984	7/7	0.14	-1.95	84,84,84,84	0
86	MG	L2	301	1/1	0.12	-1.95	30,30,30,30	0
87	OHX	6	2072	7/7	0.11	-1.97	104,104,104,104	0
87	OHX	7	221	7/7	0.07	-1.97	99,99,99,99	0
87	OHX	5	3923	7/7	0.13	-1.97	62,62,62,62	0
87	OHX	2	2027	7/7	0.12	-1.98	81,81,81,81	0
87	OHX	5	4134	7/7	0.15	-1.98	114,114,114,114	0
86	MG	1	3790	1/1	0.10	-2.00	50,50,50,50	0
87	OHX	1	4055	7/7	0.11	-2.01	132,132,132,132	0
86	MG	5	3457	1/1	0.14	-2.01	82,82,82,82	0
87	OHX	1	3989	7/7	0.15	-2.02	106,106,106,106	0
86	MG	5	3685	1/1	0.13	-2.03	28,28,28,28	0
87	OHX	6	2066	7/7	0.11	-2.04	91,91,91,91	0
86	MG	5	3635	1/1	0.14	-2.04	37,37,37,37	0
86	MG	1	3727	1/1	0.14	-2.04	31,31,31,31	0
87	OHX	2	2038	7/7	0.10	-2.04	89,89,89,89	0
87	OHX	2	2155	7/7	0.11	-2.05	208,208,208,208	0
86	MG	M3	202	1/1	0.14	-2.05	36,36,36,36	0
87	OHX	1	3946	7/7	0.09	-2.05	97,97,97,97	0
87	OHX	m5	303	7/7	0.14	-2.05	111,111,111,111	0
87	OHX	5	4088	7/7	0.14	-2.06	99,99,99,99	0
88	ZN	d6	101	1/1	0.10	-2.07	54,54,54,54	0
87	OHX	M5	303	7/7	0.12	-2.08	104,104,104,104	0
86	MG	q3	503	1/1	0.15	-2.08	56,56,56,56	0
87	OHX	C5	201	7/7	0.17	-2.09	151,151,151,151	0
87	OHX	5	3971	7/7	0.11	-2.09	87,87,87,87	0
86	MG	1	3781	1/1	0.13	-2.09	43,43,43,43	0
86	MG	1	3604	1/1	0.14	-2.10	33,33,33,33	0
87	OHX	2	2089	7/7	0.12	-2.12	114,114,114,114	0
87	OHX	5	4067	7/7	0.11	-2.12	106,106,106,106	0
87	OHX	3	218	7/7	0.06	-2.12	108,108,108,108	0
87	OHX	o2	201	7/7	0.08	-2.12	85,85,85,85	0
86	MG	1	3641	1/1	0.12	-2.12	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3799	1/1	0.11	-2.13	41,41,41,41	0
87	OHX	5	3959	7/7	0.11	-2.14	78,78,78,78	0
87	OHX	5	3955	7/7	0.10	-2.15	83,83,83,83	0
87	OHX	M0	303	7/7	0.11	-2.16	101,101,101,101	0
87	OHX	5	4085	7/7	0.11	-2.16	124,124,124,124	0
87	OHX	1	3910	7/7	0.10	-2.17	75,75,75,75	0
87	OHX	1	4086	7/7	0.16	-2.20	113,113,113,113	0
87	OHX	1	4074	7/7	0.11	-2.20	111,111,111,111	0
86	MG	5	3821	1/1	0.12	-2.20	52,52,52,52	0
86	MG	5	3707	1/1	0.11	-2.21	36,36,36,36	0
87	OHX	4	225	7/7	0.11	-2.22	69,69,69,69	0
87	OHX	1	4105	7/7	0.11	-2.22	130,130,130,130	0
87	OHX	2	2070	7/7	0.09	-2.22	112,112,112,112	0
87	OHX	1	3876	7/7	0.14	-2.22	53,53,53,53	0
86	MG	5	3833	1/1	0.08	-2.23	64,64,64,64	0
87	OHX	1	4006	7/7	0.15	-2.23	90,90,90,90	0
86	MG	1	3719	1/1	0.13	-2.23	31,31,31,31	0
86	MG	1	3738	1/1	0.14	-2.24	52,52,52,52	0
87	OHX	1	4085	7/7	0.07	-2.24	166,166,166,166	0
87	OHX	1	4034	7/7	0.05	-2.25	134,134,134,134	0
86	MG	5	3847	1/1	0.10	-2.25	52,52,52,52	0
87	OHX	5	4072	7/7	0.14	-2.25	114,114,114,114	0
87	OHX	6	2052	7/7	0.14	-2.25	64,64,64,64	0
87	OHX	6	2098	7/7	0.07	-2.26	128,128,128,128	0
87	OHX	5	3947	7/7	0.14	-2.26	68,68,68,68	0
86	MG	c1	201	1/1	0.11	-2.26	42,42,42,42	0
87	OHX	1	4014	7/7	0.14	-2.27	107,107,107,107	0
87	OHX	2	2093	7/7	0.06	-2.27	142,142,142,142	0
87	OHX	5	4084	7/7	0.15	-2.27	104,104,104,104	0
87	OHX	1	4047	7/7	0.12	-2.27	108,108,108,108	0
87	OHX	5	4101	7/7	0.10	-2.28	130,130,130,130	0
86	MG	5	3559	1/1	0.15	-2.29	45,45,45,45	0
87	OHX	1	3904	7/7	0.14	-2.29	78,78,78,78	0
86	MG	2	1997	1/1	0.13	-2.29	91,91,91,91	0
86	MG	1	3723	1/1	0.12	-2.31	48,48,48,48	0
86	MG	5	3771	1/1	0.15	-2.31	96,96,96,96	0
87	OHX	2	2041	7/7	0.10	-2.31	93,93,93,93	0
87	OHX	5	4015	7/7	0.10	-2.31	86,86,86,86	0
87	OHX	5	4043	7/7	0.13	-2.32	116,116,116,116	0
86	MG	5	3492	1/1	0.13	-2.35	46,46,46,46	0
86	MG	5	3748	1/1	0.12	-2.35	56,56,56,56	0
87	OHX	1	3980	7/7	0.13	-2.35	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	5	4132	7/7	0.13	-2.36	160,160,160,160	0
87	OHX	7	222	7/7	0.10	-2.36	114,114,114,114	0
86	MG	O7	102	1/1	0.16	-2.36	36,36,36,36	0
86	MG	5	3718	1/1	0.12	-2.37	51,51,51,51	0
87	OHX	1	4049	7/7	0.15	-2.37	102,102,102,102	0
87	OHX	1	4032	7/7	0.13	-2.38	98,98,98,98	0
86	MG	m6	201	1/1	0.10	-2.38	27,27,27,27	0
87	OHX	6	2124	7/7	0.10	-2.38	126,126,126,126	0
86	MG	5	3716	1/1	0.12	-2.39	41,41,41,41	0
87	OHX	3	221	7/7	0.10	-2.39	125,125,125,125	0
86	MG	1	3852	1/1	0.14	-2.40	23,23,23,23	0
86	MG	1	3824	1/1	0.13	-2.40	55,55,55,55	0
87	OHX	1	4065	7/7	0.08	-2.41	131,131,131,131	0
87	OHX	1	3935	7/7	0.13	-2.41	86,86,86,86	0
87	OHX	5	4116	7/7	0.13	-2.41	135,135,135,135	0
87	OHX	1	4036	7/7	0.10	-2.41	128,128,128,128	0
87	OHX	1	4003	7/7	0.15	-2.41	97,97,97,97	0
87	OHX	2	2096	7/7	0.07	-2.41	145,145,145,145	0
87	OHX	5	4104	7/7	0.10	-2.42	119,119,119,119	0
86	MG	5	3853	1/1	0.11	-2.42	53,53,53,53	0
87	OHX	6	2058	7/7	0.13	-2.43	73,73,73,73	0
86	MG	6	1988	1/1	0.13	-2.43	39,39,39,39	0
87	OHX	C3	202	7/7	0.13	-2.44	152,152,152,152	0
87	OHX	5	4036	7/7	0.12	-2.44	110,110,110,110	0
86	MG	1	3827	1/1	0.12	-2.45	31,31,31,31	0
86	MG	1	3692	1/1	0.14	-2.45	34,34,34,34	0
86	MG	5	3735	1/1	0.14	-2.45	38,38,38,38	0
87	OHX	2	2057	7/7	0.10	-2.46	99,99,99,99	0
87	OHX	2	2079	7/7	0.09	-2.46	139,139,139,139	0
86	MG	6	1998	1/1	0.12	-2.46	47,47,47,47	0
87	OHX	2	2088	7/7	0.07	-2.47	101,101,101,101	0
87	OHX	1	3990	7/7	0.12	-2.48	93,93,93,93	0
86	MG	6	2003	1/1	0.11	-2.48	50,50,50,50	0
86	MG	M0	302	1/1	0.12	-2.48	40,40,40,40	0
87	OHX	1	4011	7/7	0.11	-2.48	116,116,116,116	0
87	OHX	6	2154	7/7	0.13	-2.50	129,129,129,129	0
87	OHX	6	2139	7/7	0.13	-2.51	109,109,109,109	0
86	MG	1	3525	1/1	0.13	-2.52	28,28,28,28	0
86	MG	1	4220	1/1	0.12	-2.52	41,41,41,41	0
87	OHX	1	3943	7/7	0.08	-2.52	84,84,84,84	0
87	OHX	1	3998	7/7	0.13	-2.53	104,104,104,104	0
87	OHX	5	4070	7/7	0.09	-2.55	119,119,119,119	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
86	MG	5	3412	1/1	0.15	-2.56	33,33,33,33	0
87	OHX	1	3921	7/7	0.14	-2.56	72,72,72,72	0
87	OHX	2	2065	7/7	0.08	-2.57	125,125,125,125	0
87	OHX	2	2037	7/7	0.12	-2.57	93,93,93,93	0
87	OHX	2	2053	7/7	0.08	-2.58	111,111,111,111	0
87	OHX	5	3958	7/7	0.08	-2.60	75,75,75,75	0
86	MG	1	3810	1/1	0.14	-2.60	33,33,33,33	0
86	MG	1	3779	1/1	0.14	-2.60	41,41,41,41	0
87	OHX	5	4090	7/7	0.13	-2.60	88,88,88,88	0
87	OHX	1	3938	7/7	0.15	-2.61	96,96,96,96	0
86	MG	6	2009	1/1	0.14	-2.63	45,45,45,45	0
87	OHX	5	4029	7/7	0.13	-2.63	86,86,86,86	0
86	MG	1	3406	1/1	0.14	-2.64	31,31,31,31	0
86	MG	5	3796	1/1	0.13	-2.65	63,63,63,63	0
87	OHX	6	2100	7/7	0.10	-2.69	135,135,135,135	0
87	OHX	5	4066	7/7	0.14	-2.69	102,102,102,102	0
86	MG	1	3662	1/1	0.10	-2.69	27,27,27,27	0
86	MG	c7	201	1/1	0.15	-2.69	64,64,64,64	0
87	OHX	2	2081	7/7	0.07	-2.69	127,127,127,127	0
87	OHX	1	3889	7/7	0.12	-2.70	67,67,67,67	0
87	OHX	1	3979	7/7	0.12	-2.71	101,101,101,101	0
87	OHX	5	4099	7/7	0.14	-2.71	106,106,106,106	0
87	OHX	1	4008	7/7	0.11	-2.72	112,112,112,112	0
87	OHX	1	4193	7/7	0.10	-2.72	161,161,161,161	0
87	OHX	6	2086	7/7	0.10	-2.72	111,111,111,111	0
87	OHX	5	3998	7/7	0.10	-2.73	107,107,107,107	0
87	OHX	2	2075	7/7	0.11	-2.74	111,111,111,111	0
87	OHX	5	4019	7/7	0.09	-2.75	114,114,114,114	0
87	OHX	5	4039	7/7	0.07	-2.75	117,117,117,117	0
87	OHX	5	4027	7/7	0.14	-2.76	91,91,91,91	0
86	MG	5	3698	1/1	0.10	-2.77	35,35,35,35	0
86	MG	5	3733	1/1	0.14	-2.78	46,46,46,46	0
87	OHX	5	3944	7/7	0.14	-2.78	73,73,73,73	0
87	OHX	1	3997	7/7	0.07	-2.78	127,127,127,127	0
86	MG	1	3818	1/1	0.09	-2.80	35,35,35,35	0
87	OHX	1	3994	7/7	0.07	-2.80	116,116,116,116	0
87	OHX	6	2120	7/7	0.09	-2.81	118,118,118,118	0
87	OHX	2	2080	7/7	0.10	-2.82	121,121,121,121	0
86	MG	6	1995	1/1	0.13	-2.83	44,44,44,44	0
86	MG	1	3643	1/1	0.12	-2.83	40,40,40,40	0
86	MG	sM	301	1/1	0.07	-2.83	37,37,37,37	0
87	OHX	7	218	7/7	0.12	-2.84	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	n3	203	7/7	0.07	-2.85	77,77,77,77	0
87	OHX	1	3982	7/7	0.09	-2.85	88,88,88,88	0
87	OHX	5	4025	7/7	0.08	-2.86	108,108,108,108	0
87	OHX	1	3890	7/7	0.11	-2.87	61,61,61,61	0
87	OHX	1	3887	7/7	0.12	-2.89	65,65,65,65	0
87	OHX	8	221	7/7	0.09	-2.89	115,115,115,115	0
86	MG	5	3474	1/1	0.14	-2.89	27,27,27,27	0
87	OHX	5	3992	7/7	0.10	-2.89	81,81,81,81	0
87	OHX	5	4006	7/7	0.09	-2.89	91,91,91,91	0
86	MG	1	3742	1/1	0.12	-2.89	34,34,34,34	0
87	OHX	o3	202	7/7	0.07	-2.90	98,98,98,98	0
87	OHX	2	2040	7/7	0.11	-2.90	88,88,88,88	0
87	OHX	1	3934	7/7	0.11	-2.90	90,90,90,90	0
87	OHX	5	4058	7/7	0.09	-2.91	115,115,115,115	0
87	OHX	1	4028	7/7	0.10	-2.92	117,117,117,117	0
87	OHX	6	2076	7/7	0.09	-2.92	78,78,78,78	0
86	MG	5	3513	1/1	0.10	-2.92	26,26,26,26	0
87	OHX	1	4002	7/7	0.08	-2.93	112,112,112,112	0
87	OHX	5	4049	7/7	0.15	-2.93	108,108,108,108	0
87	OHX	3	215	7/7	0.11	-2.97	89,89,89,89	0
86	MG	1	3758	1/1	0.10	-2.98	43,43,43,43	0
86	MG	1	3770	1/1	0.10	-2.98	35,35,35,35	0
87	OHX	1	4001	7/7	0.13	-2.99	87,87,87,87	0
87	OHX	1	3969	7/7	0.09	-3.00	94,94,94,94	0
87	OHX	8	222	7/7	0.07	-3.01	126,126,126,126	0
87	OHX	6	2111	7/7	0.13	-3.01	100,100,100,100	0
87	OHX	5	4052	7/7	0.11	-3.02	96,96,96,96	0
87	OHX	6	2112	7/7	0.09	-3.03	115,115,115,115	0
87	OHX	1	3962	7/7	0.12	-3.03	91,91,91,91	0
87	OHX	1	3914	7/7	0.10	-3.06	79,79,79,79	0
87	OHX	5	4046	7/7	0.11	-3.07	107,107,107,107	0
87	OHX	1	4060	7/7	0.08	-3.08	135,135,135,135	0
87	OHX	5	3978	7/7	0.09	-3.08	92,92,92,92	0
87	OHX	1	3966	7/7	0.08	-3.10	85,85,85,85	0
87	OHX	5	4013	7/7	0.14	-3.10	98,98,98,98	0
88	ZN	q3	501	1/1	0.06	-3.10	65,65,65,65	0
87	OHX	6	2061	7/7	0.11	-3.11	74,74,74,74	0
87	OHX	m6	202	7/7	0.10	-3.13	80,80,80,80	0
86	MG	5	3820	1/1	0.12	-3.14	52,52,52,52	0
86	MG	1	3534	1/1	0.15	-3.15	27,27,27,27	0
87	OHX	o7	103	7/7	0.10	-3.16	90,90,90,90	0
86	MG	5	3615	1/1	0.07	-3.16	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
87	OHX	1	3959	7/7	0.08	-3.17	101,101,101,101	0
87	OHX	2	2113	7/7	0.14	-3.18	137,137,137,137	0
87	OHX	2	2097	7/7	0.07	-3.19	138,138,138,138	0
87	OHX	5	3981	7/7	0.09	-3.19	93,93,93,93	0
87	OHX	1	3912	7/7	0.11	-3.20	78,78,78,78	0
86	MG	5	3430	1/1	0.13	-3.23	27,27,27,27	0
86	MG	1	3434	1/1	0.13	-3.23	39,39,39,39	0
86	MG	3	211	1/1	0.12	-3.25	69,69,69,69	0
87	OHX	7	217	7/7	0.12	-3.25	98,98,98,98	0
87	OHX	2	2067	7/7	0.10	-3.28	140,140,140,140	0
87	OHX	1	4155	7/7	0.12	-3.29	94,94,94,94	0
87	OHX	5	4022	7/7	0.09	-3.30	106,106,106,106	0
87	OHX	5	4010	7/7	0.12	-3.31	81,81,81,81	0
87	OHX	5	4033	7/7	0.13	-3.31	99,99,99,99	0
87	OHX	5	3925	7/7	0.11	-3.31	63,63,63,63	0
87	OHX	5	4065	7/7	0.07	-3.31	138,138,138,138	0
87	OHX	13	402	7/7	0.06	-3.33	88,88,88,88	0
86	MG	1	3811	1/1	0.11	-3.33	45,45,45,45	0
87	OHX	6	2079	7/7	0.09	-3.36	87,87,87,87	0
87	OHX	2	2094	7/7	0.09	-3.37	132,132,132,132	0
86	MG	N5	201	1/1	0.14	-3.37	59,59,59,59	0
86	MG	1	3710	1/1	0.13	-3.38	30,30,30,30	0
87	OHX	5	4037	7/7	0.08	-3.38	116,116,116,116	0
87	OHX	5	4062	7/7	0.11	-3.39	95,95,95,95	0
87	OHX	1	4024	7/7	0.14	-3.39	104,104,104,104	0
87	OHX	5	3931	7/7	0.12	-3.40	59,59,59,59	0
87	OHX	1	4073	7/7	0.10	-3.41	113,113,113,113	0
87	OHX	5	4008	7/7	0.09	-3.41	113,113,113,113	0
86	MG	1	3441	1/1	0.12	-3.43	35,35,35,35	0
87	OHX	5	4055	7/7	0.13	-3.44	100,100,100,100	0
87	OHX	1	3967	7/7	0.10	-3.47	119,119,119,119	0
87	OHX	2	2045	7/7	0.08	-3.48	105,105,105,105	0
87	OHX	1	3958	7/7	0.09	-3.49	100,100,100,100	0
87	OHX	1	4018	7/7	0.12	-3.49	115,115,115,115	0
86	MG	1	3691	1/1	0.15	-3.51	29,29,29,29	0
87	OHX	2	2061	7/7	0.09	-3.52	107,107,107,107	0
87	OHX	1	3917	7/7	0.11	-3.52	77,77,77,77	0
86	MG	M5	302	1/1	0.11	-3.52	50,50,50,50	0
87	OHX	1	3874	7/7	0.17	-3.53	58,58,58,58	0
87	OHX	2	2071	7/7	0.07	-3.53	112,112,112,112	0
87	OHX	5	4061	7/7	0.08	-3.54	128,128,128,128	0
87	OHX	6	2107	7/7	0.10	-3.55	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3408	1/1	0.09	-3.55	22,22,22,22	0
87	OHX	2	2043	7/7	0.09	-3.57	89,89,89,89	0
87	OHX	5	4056	7/7	0.11	-3.58	97,97,97,97	0
86	MG	1	3646	1/1	0.07	-3.60	61,61,61,61	0
87	OHX	1	4048	7/7	0.08	-3.61	117,117,117,117	0
87	OHX	6	2104	7/7	0.10	-3.61	97,97,97,97	0
87	OHX	5	4002	7/7	0.10	-3.63	88,88,88,88	0
87	OHX	5	3936	7/7	0.12	-3.63	64,64,64,64	0
86	MG	8	210	1/1	0.09	-3.63	56,56,56,56	0
87	OHX	1	3978	7/7	0.08	-3.64	101,101,101,101	0
87	OHX	5	3984	7/7	0.09	-3.65	86,86,86,86	0
87	OHX	6	2123	7/7	0.09	-3.65	124,124,124,124	0
87	OHX	1	3930	7/7	0.10	-3.65	89,89,89,89	0
87	OHX	6	2155	7/7	0.11	-3.66	125,125,125,125	0
87	OHX	1	3909	7/7	0.14	-3.67	85,85,85,85	0
86	MG	4	201	1/1	0.15	-3.71	43,43,43,43	0
87	OHX	2	2050	7/7	0.10	-3.71	95,95,95,95	0
87	OHX	5	4051	7/7	0.07	-3.71	119,119,119,119	0
87	OHX	2	2076	7/7	0.10	-3.72	110,110,110,110	0
87	OHX	6	2097	7/7	0.08	-3.72	118,118,118,118	0
87	OHX	5	4103	7/7	0.09	-3.73	129,129,129,129	0
87	OHX	1	4051	7/7	0.11	-3.73	121,121,121,121	0
87	OHX	1	3925	7/7	0.09	-3.73	79,79,79,79	0
87	OHX	1	3975	7/7	0.11	-3.76	95,95,95,95	0
86	MG	1	3617	1/1	0.14	-3.76	33,33,33,33	0
87	OHX	4	227	7/7	0.07	-3.76	104,104,104,104	0
87	OHX	2	2044	7/7	0.07	-3.77	96,96,96,96	0
87	OHX	2	2058	7/7	0.09	-3.77	111,111,111,111	0
86	MG	6	2015	1/1	0.11	-3.79	41,41,41,41	0
87	OHX	1	3985	7/7	0.10	-3.79	109,109,109,109	0
87	OHX	5	4170	7/7	0.08	-3.82	164,164,164,164	0
87	OHX	5	4095	7/7	0.12	-3.83	113,113,113,113	0
87	OHX	5	4098	7/7	0.09	-3.84	123,123,123,123	0
87	OHX	1	3993	7/7	0.11	-3.85	90,90,90,90	0
87	OHX	1	4136	7/7	0.11	-3.85	97,97,97,97	0
86	MG	5	3602	1/1	0.14	-3.87	35,35,35,35	0
86	MG	4	214	1/1	0.11	-3.90	56,56,56,56	0
87	OHX	5	3926	7/7	0.12	-3.91	53,53,53,53	0
86	MG	5	3603	1/1	0.10	-3.92	53,53,53,53	0
87	OHX	5	4112	7/7	0.11	-3.93	112,112,112,112	0
86	MG	5	3661	1/1	0.12	-3.94	43,43,43,43	0
86	MG	5	3715	1/1	0.05	-3.94	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	5	3928	7/7	0.10	-3.95	68,68,68,68	0
86	MG	5	3640	1/1	0.08	-3.96	45,45,45,45	0
86	MG	1	3800	1/1	0.12	-3.98	52,52,52,52	0
87	OHX	5	4044	7/7	0.13	-3.98	109,109,109,109	0
86	MG	5	3798	1/1	0.15	-3.99	33,33,33,33	0
86	MG	M7	205	1/1	0.15	-4.00	35,35,35,35	0
87	OHX	6	2095	7/7	0.09	-4.00	114,114,114,114	0
86	MG	4	213	1/1	0.12	-4.03	37,37,37,37	0
86	MG	5	3773	1/1	0.07	-4.03	59,59,59,59	0
87	OHX	5	4059	7/7	0.07	-4.06	123,123,123,123	0
87	OHX	1	3988	7/7	0.09	-4.06	97,97,97,97	0
87	OHX	5	4041	7/7	0.09	-4.07	116,116,116,116	0
87	OHX	1	3892	7/7	0.11	-4.08	62,62,62,62	0
87	OHX	1	3907	7/7	0.11	-4.09	67,67,67,67	0
87	OHX	5	3961	7/7	0.12	-4.10	71,71,71,71	0
87	OHX	2	2103	7/7	0.08	-4.10	185,185,185,185	0
87	OHX	6	2087	7/7	0.11	-4.12	102,102,102,102	0
87	OHX	1	3963	7/7	0.10	-4.12	71,71,71,71	0
86	MG	5	3702	1/1	0.10	-4.13	52,52,52,52	0
86	MG	5	3691	1/1	0.12	-4.16	42,42,42,42	0
87	OHX	5	3960	7/7	0.11	-4.17	66,66,66,66	0
87	OHX	1	3882	7/7	0.12	-4.17	57,57,57,57	0
87	OHX	5	4122	7/7	0.09	-4.18	122,122,122,122	0
87	OHX	5	3917	7/7	0.12	-4.19	59,59,59,59	0
87	OHX	1	3971	7/7	0.10	-4.19	91,91,91,91	0
87	OHX	1	4010	7/7	0.11	-4.20	117,117,117,117	0
87	OHX	5	4004	7/7	0.11	-4.21	107,107,107,107	0
87	OHX	6	2070	7/7	0.09	-4.21	87,87,87,87	0
87	OHX	5	4024	7/7	0.11	-4.22	99,99,99,99	0
87	OHX	1	4093	7/7	0.09	-4.24	125,125,125,125	0
86	MG	5	3618	1/1	0.11	-4.25	32,32,32,32	0
87	OHX	6	2136	7/7	0.08	-4.26	127,127,127,127	0
87	OHX	6	2085	7/7	0.08	-4.27	105,105,105,105	0
86	MG	m5	301	1/1	0.10	-4.28	37,37,37,37	0
87	OHX	6	2115	7/7	0.11	-4.28	111,111,111,111	0
87	OHX	5	3987	7/7	0.08	-4.29	83,83,83,83	0
86	MG	5	3407	1/1	0.12	-4.30	34,34,34,34	0
87	OHX	5	4086	7/7	0.10	-4.30	106,106,106,106	0
87	OHX	1	3964	7/7	0.07	-4.31	93,93,93,93	0
87	OHX	5	4023	7/7	0.09	-4.32	98,98,98,98	0
87	OHX	5	3991	7/7	0.08	-4.33	96,96,96,96	0
87	OHX	1	3952	7/7	0.11	-4.34	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	5	4198	7/7	0.11	-4.35	76,76,76,76	0
87	OHX	2	2064	7/7	0.11	-4.35	95,95,95,95	0
86	MG	N8	201	1/1	0.08	-4.36	29,29,29,29	0
86	MG	5	3808	1/1	0.13	-4.38	36,36,36,36	0
87	OHX	5	4017	7/7	0.09	-4.40	101,101,101,101	0
87	OHX	5	3968	7/7	0.10	-4.42	83,83,83,83	0
87	OHX	2	2051	7/7	0.09	-4.44	108,108,108,108	0
87	OHX	7	219	7/7	0.12	-4.46	84,84,84,84	0
87	OHX	2	2060	7/7	0.07	-4.47	114,114,114,114	0
86	MG	1	3776	1/1	0.14	-4.47	46,46,46,46	0
87	OHX	5	4009	7/7	0.08	-4.47	70,70,70,70	0
87	OHX	1	4058	7/7	0.06	-4.50	143,143,143,143	0
86	MG	3	203	1/1	0.15	-4.51	84,84,84,84	0
87	OHX	6	2084	7/7	0.08	-4.52	108,108,108,108	0
87	OHX	6	2103	7/7	0.07	-4.53	106,106,106,106	0
87	OHX	5	3951	7/7	0.13	-4.55	76,76,76,76	0
87	OHX	6	2093	7/7	0.08	-4.56	105,105,105,105	0
87	OHX	5	3969	7/7	0.11	-4.57	84,84,84,84	0
87	OHX	1	4031	7/7	0.12	-4.58	112,112,112,112	0
86	MG	1	3688	1/1	0.16	-4.61	45,45,45,45	0
87	OHX	5	3977	7/7	0.09	-4.62	94,94,94,94	0
87	OHX	5	3943	7/7	0.11	-4.62	83,83,83,83	0
87	OHX	1	3968	7/7	0.09	-4.63	88,88,88,88	0
87	OHX	7	216	7/7	0.13	-4.64	79,79,79,79	0
87	OHX	1	4009	7/7	0.12	-4.68	117,117,117,117	0
87	OHX	5	3999	7/7	0.08	-4.71	96,96,96,96	0
86	MG	1	3523	1/1	0.09	-4.73	63,63,63,63	0
87	OHX	1	3992	7/7	0.07	-4.73	111,111,111,111	0
87	OHX	5	4007	7/7	0.09	-4.74	97,97,97,97	0
87	OHX	1	4022	7/7	0.06	-4.77	123,123,123,123	0
87	OHX	5	3938	7/7	0.12	-4.79	70,70,70,70	0
87	OHX	5	4012	7/7	0.10	-4.84	95,95,95,95	0
87	OHX	1	3957	7/7	0.09	-4.86	68,68,68,68	0
87	OHX	1	3923	7/7	0.10	-4.86	70,70,70,70	0
87	OHX	5	3930	7/7	0.13	-4.91	67,67,67,67	0
86	MG	5	3607	1/1	0.13	-4.93	22,22,22,22	0
87	OHX	6	2096	7/7	0.09	-4.94	111,111,111,111	0
86	MG	7	211	1/1	0.14	-4.94	67,67,67,67	0
86	MG	5	3845	1/1	0.16	-4.95	29,29,29,29	0
87	OHX	1	3902	7/7	0.09	-4.98	67,67,67,67	0
86	MG	1	3707	1/1	0.09	-4.98	54,54,54,54	0
87	OHX	5	3996	7/7	0.10	-5.00	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	1	3960	7/7	0.09	-5.00	89,89,89,89	0
86	MG	1	3772	1/1	0.12	-5.00	46,46,46,46	0
87	OHX	5	3997	7/7	0.11	-5.02	87,87,87,87	0
87	OHX	2	2055	7/7	0.07	-5.04	120,120,120,120	0
87	OHX	5	3982	7/7	0.10	-5.05	77,77,77,77	0
87	OHX	5	3972	7/7	0.07	-5.09	75,75,75,75	0
86	MG	8	202	1/1	0.11	-5.15	53,53,53,53	0
87	OHX	5	3942	7/7	0.10	-5.16	75,75,75,75	0
86	MG	1	3639	1/1	0.14	-5.16	55,55,55,55	0
87	OHX	6	2132	7/7	0.09	-5.17	129,129,129,129	0
86	MG	1	3476	1/1	0.11	-5.17	39,39,39,39	0
87	OHX	5	4026	7/7	0.09	-5.18	94,94,94,94	0
87	OHX	5	3973	7/7	0.09	-5.18	73,73,73,73	0
87	OHX	1	3956	7/7	0.08	-5.20	79,79,79,79	0
87	OHX	5	4131	7/7	0.08	-5.21	103,103,103,103	0
87	OHX	5	4130	7/7	0.07	-5.24	125,125,125,125	0
87	OHX	5	3929	7/7	0.12	-5.25	67,67,67,67	0
87	OHX	6	2099	7/7	0.09	-5.25	115,115,115,115	0
86	MG	5	3656	1/1	0.13	-5.28	53,53,53,53	0
87	OHX	1	3947	7/7	0.06	-5.28	92,92,92,92	0
87	OHX	3	220	7/7	0.08	-5.30	113,113,113,113	0
86	MG	5	3690	1/1	0.13	-5.30	35,35,35,35	0
87	OHX	1	3919	7/7	0.10	-5.30	73,73,73,73	0
87	OHX	6	2077	7/7	0.09	-5.32	96,96,96,96	0
86	MG	5	3870	1/1	0.09	-5.33	31,31,31,31	0
87	OHX	1	3900	7/7	0.12	-5.37	73,73,73,73	0
87	OHX	1	3879	7/7	0.12	-5.40	60,60,60,60	0
86	MG	1	3777	1/1	0.12	-5.46	31,31,31,31	0
86	MG	2	1984	1/1	0.10	-5.49	55,55,55,55	0
87	OHX	2	2069	7/7	0.08	-5.49	118,118,118,118	0
87	OHX	6	2064	7/7	0.09	-5.50	79,79,79,79	0
87	OHX	1	4017	7/7	0.07	-5.51	109,109,109,109	0
86	MG	6	1994	1/1	0.07	-5.52	46,46,46,46	0
87	OHX	1	3945	7/7	0.11	-5.58	82,82,82,82	0
87	OHX	1	4039	7/7	0.12	-5.59	99,99,99,99	0
87	OHX	2	2082	7/7	0.05	-5.59	123,123,123,123	0
87	OHX	3	219	7/7	0.07	-5.61	111,111,111,111	0
87	OHX	1	4178	7/7	0.11	-5.61	225,225,225,225	0
87	OHX	5	3979	7/7	0.10	-5.65	73,73,73,73	0
87	OHX	2	2059	7/7	0.11	-5.68	95,95,95,95	0
87	OHX	6	2131	7/7	0.10	-5.69	102,102,102,102	0
86	MG	4	216	1/1	0.08	-5.71	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
86	MG	5	3767	1/1	0.06	-5.75	51,51,51,51	0
87	OHX	1	3928	7/7	0.09	-5.76	78,78,78,78	0
86	MG	1	3819	1/1	0.12	-5.77	55,55,55,55	0
87	OHX	5	3964	7/7	0.09	-5.84	86,86,86,86	0
87	OHX	2	2054	7/7	0.08	-5.89	103,103,103,103	0
87	OHX	5	3919	7/7	0.13	-5.89	63,63,63,63	0
87	OHX	2	2049	7/7	0.10	-5.95	104,104,104,104	0
87	OHX	5	3935	7/7	0.12	-5.97	70,70,70,70	0
86	MG	1	3862	1/1	0.10	-6.00	60,60,60,60	0
86	MG	1	3629	1/1	0.07	-6.03	58,58,58,58	0
87	OHX	4	226	7/7	0.09	-6.10	85,85,85,85	0
87	OHX	5	4005	7/7	0.09	-6.11	84,84,84,84	0
86	MG	5	3827	1/1	0.13	-6.14	36,36,36,36	0
86	MG	1	3661	1/1	0.12	-6.15	26,26,26,26	0
87	OHX	1	3940	7/7	0.07	-6.17	82,82,82,82	0
87	OHX	6	2080	7/7	0.07	-6.18	97,97,97,97	0
87	OHX	6	2081	7/7	0.09	-6.31	91,91,91,91	0
87	OHX	5	3946	7/7	0.10	-6.34	71,71,71,71	0
86	MG	1	3607	1/1	0.07	-6.34	48,48,48,48	0
87	OHX	3	217	7/7	0.07	-6.42	98,98,98,98	0
87	OHX	3	216	7/7	0.09	-6.48	99,99,99,99	0
87	OHX	7	220	7/7	0.09	-6.48	94,94,94,94	0
87	OHX	6	2062	7/7	0.11	-6.50	73,73,73,73	0
86	MG	5	3751	1/1	0.09	-6.50	46,46,46,46	0
86	MG	5	3762	1/1	0.09	-6.51	41,41,41,41	0
86	MG	4	212	1/1	0.17	-6.60	55,55,55,55	0
87	OHX	5	3994	7/7	0.12	-6.62	77,77,77,77	0
87	OHX	1	3893	7/7	0.12	-6.63	64,64,64,64	0
87	OHX	6	2091	7/7	0.07	-6.67	100,100,100,100	0
87	OHX	5	3954	7/7	0.07	-6.68	66,66,66,66	0
87	OHX	6	2069	7/7	0.10	-6.69	85,85,85,85	0
87	OHX	5	4031	7/7	0.10	-6.69	105,105,105,105	0
87	OHX	5	4016	7/7	0.10	-6.73	97,97,97,97	0
87	OHX	6	2088	7/7	0.07	-6.75	99,99,99,99	0
87	OHX	5	3965	7/7	0.09	-6.80	74,74,74,74	0
87	OHX	5	3921	7/7	0.13	-6.86	58,58,58,58	0
87	OHX	5	3983	7/7	0.08	-6.87	72,72,72,72	0
87	OHX	1	3911	7/7	0.12	-6.89	79,79,79,79	0
87	OHX	5	4071	7/7	0.10	-6.97	108,108,108,108	0
86	MG	5	3789	1/1	0.14	-7.03	45,45,45,45	0
86	MG	4	219	1/1	0.11	-7.07	36,36,36,36	0
87	OHX	6	2167	7/7	0.11	-7.14	133,133,133,133	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	1	4020	7/7	0.11	-7.14	107,107,107,107	0
86	MG	L7	303	1/1	0.13	-7.16	41,41,41,41	0
86	MG	5	3795	1/1	0.09	-7.16	39,39,39,39	0
87	OHX	5	3985	7/7	0.10	-7.21	83,83,83,83	0
86	MG	1	3706	1/1	0.10	-7.32	33,33,33,33	0
86	MG	2	1982	1/1	0.12	-7.35	70,70,70,70	0
86	MG	5	3728	1/1	0.06	-7.44	49,49,49,49	0
86	MG	5	3892	1/1	0.12	-7.48	25,25,25,25	0
87	OHX	1	4117	7/7	0.14	-7.55	112,112,112,112	0
87	OHX	5	4068	7/7	0.09	-7.57	114,114,114,114	0
87	OHX	1	3983	7/7	0.12	-7.67	83,83,83,83	0
86	MG	1	3858	1/1	0.11	-7.67	43,43,43,43	0
87	OHX	6	2073	7/7	0.09	-7.73	76,76,76,76	0
87	OHX	1	3972	7/7	0.09	-7.75	96,96,96,96	0
86	MG	5	3706	1/1	0.13	-7.86	47,47,47,47	0
87	OHX	2	2062	7/7	0.10	-7.86	116,116,116,116	0
87	OHX	6	2082	7/7	0.09	-7.89	91,91,91,91	0
87	OHX	5	4001	7/7	0.09	-7.91	101,101,101,101	0
86	MG	1	3728	1/1	0.08	-7.92	70,70,70,70	0
87	OHX	5	4021	7/7	0.11	-7.92	94,94,94,94	0
87	OHX	6	2063	7/7	0.10	-8.06	79,79,79,79	0
87	OHX	6	2083	7/7	0.07	-8.06	94,94,94,94	0
86	MG	6	2004	1/1	0.09	-8.18	67,67,67,67	0
87	OHX	6	2089	7/7	0.08	-8.27	107,107,107,107	0
87	OHX	5	4035	7/7	0.09	-8.27	93,93,93,93	0
87	OHX	5	3995	7/7	0.06	-8.32	107,107,107,107	0
87	OHX	1	3950	7/7	0.08	-8.56	87,87,87,87	0
86	MG	1	3848	1/1	0.09	-8.68	49,49,49,49	0
86	MG	1	3671	1/1	0.11	-8.86	44,44,44,44	0
86	MG	1	3715	1/1	0.10	-9.00	36,36,36,36	0
87	OHX	8	218	7/7	0.07	-9.06	118,118,118,118	0
86	MG	1	3823	1/1	0.13	-9.08	39,39,39,39	0
87	OHX	1	3954	7/7	0.08	-9.09	84,84,84,84	0
86	MG	5	3486	1/1	0.12	-9.12	41,41,41,41	0
86	MG	1	3796	1/1	0.10	-9.14	50,50,50,50	0
87	OHX	6	2105	7/7	0.07	-9.15	109,109,109,109	0
87	OHX	6	2094	7/7	0.09	-9.41	96,96,96,96	0
87	OHX	5	4048	7/7	0.12	-9.75	110,110,110,110	0
86	MG	5	3684	1/1	0.10	-9.80	33,33,33,33	0
87	OHX	1	3955	7/7	0.08	-9.81	92,92,92,92	0
86	MG	5	3810	1/1	0.09	-9.93	64,64,64,64	0
87	OHX	8	219	7/7	0.09	-10.33	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
87	OHX	1	3974	7/7	0.09	-10.85	99,99,99,99	0
87	OHX	5	4011	7/7	0.05	-10.96	105,105,105,105	0
86	MG	6	2032	1/1	0.09	-11.40	59,59,59,59	0
86	MG	5	3466	1/1	0.09	-11.43	34,34,34,34	0
86	MG	1	3640	1/1	0.07	-11.60	62,62,62,62	0
86	MG	5	3776	1/1	0.13	-12.02	31,31,31,31	0
86	MG	6	2002	1/1	0.09	-12.09	88,88,88,88	0
87	OHX	1	3987	7/7	0.07	-12.46	107,107,107,107	0
87	OHX	5	3986	7/7	0.06	-12.67	83,83,83,83	0
86	MG	6	2030	1/1	0.07	-12.73	96,96,96,96	0
86	MG	5	3678	1/1	0.06	-12.89	36,36,36,36	0
86	MG	6	1990	1/1	0.11	-13.12	37,37,37,37	0
87	OHX	1	3920	7/7	0.10	-13.48	80,80,80,80	0
87	OHX	1	3986	7/7	0.09	-14.17	103,103,103,103	0
86	MG	1	3631	1/1	0.10	-14.80	24,24,24,24	0
87	OHX	6	2071	7/7	0.09	-16.04	75,75,75,75	0
87	OHX	1	3939	7/7	0.08	-16.53	92,92,92,92	0
86	MG	1	3653	1/1	0.16	-17.00	69,69,69,69	0
87	OHX	1	3929	7/7	0.10	-19.44	75,75,75,75	0
86	MG	5	3671	1/1	0.08	-19.66	38,38,38,38	0
87	OHX	1	3936	7/7	0.07	-28.33	88,88,88,88	0
86	MG	5	3855	1/1	0.14	-33.00	59,59,59,59	0
86	MG	5	3818	1/1	0.11	-43.00	36,36,36,36	0
86	MG	1	3798	1/1	0.08	-67.00	88,88,88,88	0
86	MG	1	3755	1/1	0.28	-	91,91,91,91	0
86	MG	8	213	1/1	0.38	-	26,26,26,26	0
86	MG	5	3887	1/1	0.40	-	50,50,50,50	0
87	OHX	M9	202	7/7	0.25	-	149,149,149,149	0
86	MG	5	3758	1/1	0.15	-	36,36,36,36	0
86	MG	2	1989	1/1	0.23	-	107,107,107,107	0
86	MG	5	3898	1/1	0.29	-	117,117,117,117	0
86	MG	5	3886	1/1	0.15	-	56,56,56,56	0
86	MG	4	218	1/1	0.11	-	50,50,50,50	0
86	MG	5	3876	1/1	0.48	-	51,51,51,51	0
86	MG	6	2000	1/1	0.38	-	97,97,97,97	0
86	MG	1	3847	1/1	0.16	-	51,51,51,51	0
86	MG	2	1950	1/1	0.43	-	66,66,66,66	0
86	MG	1	3831	1/1	0.30	-	55,55,55,55	0
86	MG	6	1924	1/1	0.42	-	90,90,90,90	0
86	MG	2	1994	1/1	0.52	-	58,58,58,58	0
86	MG	6	2041	1/1	0.41	-	52,52,52,52	0
86	MG	5	3801	1/1	0.15	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3788	1/1	0.17	-	61,61,61,61	0
86	MG	6	2044	1/1	0.44	-	54,54,54,54	0
87	OHX	2	2157	7/7	0.13	-	291,291,291,291	0
86	MG	5	3879	1/1	0.35	-	42,42,42,42	0
86	MG	6	2045	1/1	0.34	-	67,67,67,67	0
86	MG	1	3791	1/1	0.21	-	49,49,49,49	0
86	MG	2	1968	1/1	0.29	-	83,83,83,83	0
86	MG	5	3888	1/1	0.55	-	84,84,84,84	0
86	MG	2	2019	1/1	0.46	-	64,64,64,64	0
86	MG	3	208	1/1	0.17	-	73,73,73,73	0
86	MG	1	3837	1/1	0.41	-	53,53,53,53	0
86	MG	1	3490	1/1	0.22	-	56,56,56,56	0
86	MG	5	3859	1/1	0.47	-	74,74,74,74	0
86	MG	5	3619	1/1	0.31	-	31,31,31,31	0
86	MG	4	202	1/1	0.36	-	50,50,50,50	0
86	MG	1	3857	1/1	0.49	-	104,104,104,104	0
86	MG	1	3500	1/1	0.37	-	61,61,61,61	0

6.5 Other polymers ⓘ

There are no such residues in this entry.